

**CONSOLIDATED EDISON
INDIAN POINT UNIT 2**



**CONTAINMENT INSERVICE INSPECTION
FIRST PERIOD EXAMINATIONS**

MARCH 2000 - JUNE 2000

PERFORMED BY



CONSOLIDATED EDISON
INDIAN POINT UNIT 2



CONTAINMENT INSERVICE INSPECTION
FIRST PERIOD EXAMINATIONS

MARCH 2000 - JUNE 2000

SUMMARY REPORT

Sargent & Lundy LLC

Prepared by:	<u><i>S. L. Davis</i></u> S. L. Davis	Date:	<u>7/13/00</u>
Reviewed by:	<u><i>C. A. Sward</i></u> C. A. Sward	Date:	<u>7/13/00</u>
Approved by:	<u><i>B. A. Erler</i></u> B. A. Erler	Date:	<u>7/13/00</u>
Con Edison RPE Approval:	<u><i>L. N. Villani</i></u> L. N. Villani	Date:	<u>2/07/01</u>
ANII Verification:	_____	Date:	_____



**INDIAN POINT UNIT 2
CONTAINMENT INSERVICE INSPECTION
FIRST PERIOD EXAMINATIONS**



SUMMARY REPORT

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**INDIAN POINT UNIT 2
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INSPECTION SUMMARY

The First Period Examinations under the Containment Inservice Inspection Program were conducted between March 10, 2000 and June 1, 2000. The examinations required for the First Period included 1) General Visual examination of the liner, 2) VT-3 examination of 1/3 of the moisture barrier, 3) VT-1 examination of 1/3 of the bolted connections and 4) concrete surface examinations (VT-3C & VT-1C). Each of these examinations is summarized below. The details of the examinations and associated documentation are provided in the appendices.

1. Liner General Visual Examination

General visual examination was performed for all accessible areas of the Containment liner, including penetrations and airlocks, in accordance with Table IWE-2500-1, Category E-A, Item E1.11. The examinations were conducted by inspection zone as defined on the inspection drawings. Some of the inspections (including most of the liner above the 95' elevation) were performed by remote visual examination as permitted by 10CFR50.55a(b)(2)(ix)(B).

Results:

- Portions of the moisture barrier (VCM-01 through VCM-06) were missing and some areas were not bonded to the stainless steel cover on the insulation. Through further investigation, corrosion of the liner plate was revealed in nine sample areas and is assumed to exist throughout the circumference of the Containment at the interface with the base slab. This condition has been addressed via CRS 200001209 and determined to be acceptable.
- Corrosion and/or coating deterioration was observed on the penetrations listed below but, based on review by the Responsible Engineer, was determined not to be significant relative to Containment integrity:

EP-H11	EP-H12	EP-H13	EP-H14	EP-H15	EP-H16
EP-H17	EP-H18	EP-H24	EP-H31	EP-H41	EP-H43
EP-H50	EP-H57	EP-H58	EP-H59	EP-H64	EP-H66
EP-H69	MP-A	MP-AA	MP-B	MP-BB	MP-C
MP-CC	MP-D	MP-DD	MP-E	MP-EE	MP-F
MP-FF	MP-G	MP-H	MP-J	MP-Lb	MP-NN
MP-Q	MP-R	MP-S	MP-X		



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- Coating deterioration was observed on the liner components listed below and in some cases minor corrosion was evident. Based on review by the Responsible Engineer, these conditions were determined not to be significant relative to Containment integrity:

VCL-09	VCL-14	VCL-15	VCL-16	VCL-17	VCL-18
VCL-19	VCL-20	VCL-21	VCL-23	VCL-24	VCL-28

2. Moisture Barrier

VT-3 examination was performed on the moisture barrier (caulk seal between the concrete and the insulation jacket at the liner-slab interface) in accordance with Table IWE-2500-1, Category E-D, Item E5.30. To meet the requirements of Table IWE-2412-1, two of the six moisture barrier components (33%) were examined. Because of the timing of the examinations, the moisture barrier that was examined included portions that had been reworked following the investigation and evaluation of the issues identified in the General Visual examination (i.e., missing/degraded moisture barrier and liner corrosion at the slab interface).

Results:

<u>Component</u>	<u>Observation</u>
VCM-03	<ul style="list-style-type: none"> ▪ A recordable indication was identified between columns 7 & 8, crack in sealant. ▪ A recordable indication was identified 18 inches from the first indication, two holes in sealant. ▪ A non-recordable indication was identified between columns 8 & 9, new sealant applied over old sealant, old sealant showing through. ▪ A recordable indication was identified behind column 10, no sealant, open hole to the liner.
VCM-04	<ul style="list-style-type: none"> ▪ A recordable indication was identified between columns 12 & 13. Old sealant is pulling away from the wall and the floor, starting at column 13 and continuing 8 feet towards column 12.

Condition report #200003947 was written to address these issues and correct the discrepancies with the moisture barrier.



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3. Bolting

VT-1 examination was performed on the bolted connections in accordance with Table IWE-2500-1, Category E-G, Item E8.10. Eight (8) bolted connections (six components) on the Personnel Airlock were included in the examination. This constitutes approximately 44% of the 18 total bolted connections (14 components). In accordance with Table IWE-2412-1, credit can be taken for no more than 34% of the total (i.e. six connections). No indications were identified.

4. Concrete Inspections

Visual inspection was performed on all accessible surfaces of the Containment exterior concrete in accordance with Table IWL-2500-1, Category L-A, Item L1.11 & L1.12). The concrete was subdivided into 47 inspection zones as presented in the inspection drawings. VT-3C examination was performed on all of the concrete components. Where suspect conditions were noted in the VT-3C examinations, VT-1C examinations were performed.

Most of the inspections were performed by remote visual examination as permitted by Relief Request No. RR-45. High-powered (20 x 80) binoculars and a spotting scope were used as optical aides. Several areas inside the plant could not be inspected at the distances required for direct visual examination, because of access limitations, but were too close to view with the optical aides. These areas were visually examined at distances up to approximately 25 feet under sufficient lighting (> 50 ft-candles) to reveal any significant indications. Demonstration of these remote methods was conducted and approved by the Responsible Engineer.

Results:

Numerous instances were observed where concrete had spalled exposing reinforcing steel, which had corroded, or where concrete bulges and rust staining indicated corrosion of bars below the surface of the concrete. It appears that the cover in these areas was not sufficient to protect the steel. Many of the cases involved the cadweld splice whose diameter is larger than the bar and thus had the least amount of cover. Several other indications (e.g., delaminations in the pipe bridge area, shallow spall on the dome) were also reported. These items are listed below and have been addressed in CRS 200004138.

<u>Component</u>	<u>Zone</u>	<u>Observations</u>
VCC-04	IWE-043-001	Exposed/corroded cadweld, exposed/corroded vertical bars at top of mat



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<u>Component</u>	<u>Zone</u>	<u>Observations</u>
VCC-05	IWE-043-002	Small delamination at floor line, delamination along edge of penetration, delamination approx. 18"W x 12"H
VCC-06	IWE-043-003	2 cadwelds exposed/corroded at surface of concrete, large delamination area (previously identified by Con Edison)
VCC-10	IWE-068-003	Exposed/corroded cadweld
VCC-14	IWE-088-003	2 small spots of steel exposed & corroded
VCC-15	IWE-088-004	Exposed/corroded cadweld, 2 areas spalled with corroded steel
VCC-19	IWE-108-002	Exposed/corroded cadweld, 2 small spots of steel exposed and corroded.
VCC-20	IWE-108-003	8 locations where steel is corroded and/or where the concrete is spalled due to rebar corrosion
VCC-21	IWE-108-004	8 locations where steel is corroded and/or where the concrete is spalled due to rebar corrosion
VCC-24	IWE-128-001	2 locations where steel is exposed and corroded, 1 location where the concrete is spalling (most likely due to corrosion of steel below the surface)
VCC-25	IWE-128-002	3 cadwelds exposed/corroded, 2 locations where the concrete is spalling (most likely due to corrosion of steel below the surface)
VCC-26	IWE-128-003	9 locations where the concrete has spalled and exposed cadwelds or where rust staining is evident from steel below the surface
VCC-27	IWE-128-004	2 locations where steel is exposed and corroded, 1 location where the concrete is spalling (most likely due to corrosion of steel below the surface)
VCC-30	IWE-148-001	3 locations where cadwelds are exposed and corroded, 1 location where the concrete is spalling (most likely due to corrosion of steel below the surface)
VCC-31	IWE-148-002	3 locations where cadwelds are exposed and corroded, 2 locations where unidentified steel is corroded
VCC-32	IWE-148-003	2 locations with rust stains from steel below the surface (potentially cadwelds or rebar)
VCC-34	IWE-148-005	1 location with exposed/corroded rebar or cadweld



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<u>Component</u>	<u>Zone</u>	<u>Observations</u>
VCC-35	IWE-148-006	1 cadweld exposed/corroded, 3 locations with staining from steel below the surface
VCC-37	IWE-168-002	3 locations with staining from steel below the surface (one is spalling)
VCC-38	IWE-168-003	2 cadwelds exposed/corroded, 2 locations with staining from steel below the surface
VCC-41	IWE-168-006	2 cadwelds exposed/corroded
VCC-46	IWE-DOME-005	Small void (3" dia.) behind duct near surface attachment
VCC-48	IWE-DOME-007	Shallow spall approx. 18" diameter

A general observation was documented regarding the overall appearance of the concrete surface, which is non-uniform in color and texture. This condition resulted from the original concrete placement and does not indicate material degradation.

A number of other indications were reported by the examiners (e.g., leaching, form tie holes not completely filled, peeling coating, rust staining from surface attachments) but were reviewed by the Responsible Engineer and determined not to be significant relative to the structural integrity of the Containment.

Conclusion:

This inservice inspection fulfills the requirements for the First Period inspection of the Indian Point 2 Containment as required by 10CFR50.55a. Examinations have been performed according to the requirements of the 1992 Edition with 1992 Addenda of the ASME Boiler and Pressure Vessel Code, Section XI, Subsections IWE and IWL as modified by 10CFR50.55a and approved Relief Requests. The overall condition of the Containment building is adequate for continued service. Based on the findings of the examination and the results of the engineering evaluations performed in Condition Reports CRS 200004138 and CRS 200001209, it is concluded that the Containment will meet its design function of ensuring a high degree of leak tightness under applicable design loading conditions.



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**APPENDIX I
Examination Category E-A, Liner General Visual Examination**

Tab A	Inspection Drawings
Tab B	Listing of Scheduled Examinations
Tab C	Listing of Examination Results
Tab D	Inspection Records
Tab E	Inspector Certification Records
Tab F	Inspection Procedure

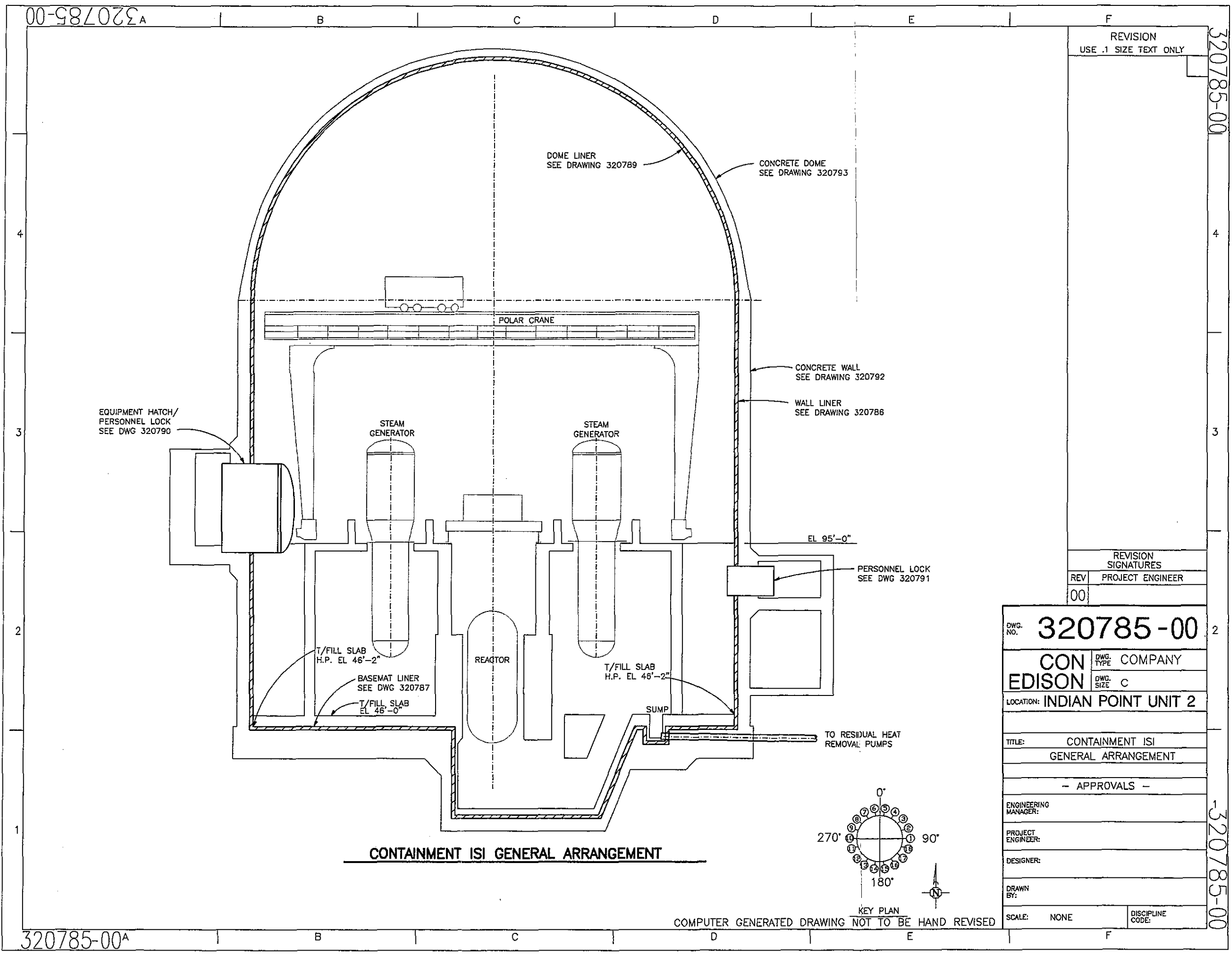
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**INDIAN POINT UNIT 2
CONTAINMENT INSERVICE INSPECTION
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**Category E-A, Liner General Visual Examination
Tab A - Inspection Drawings**



CONTAINMENT ISI GENERAL ARRANGEMENT

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REVISION
USE .1 SIZE TEXT ONLY

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REV	PROJECT ENGINEER
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CON EDISON COMPANY
DWG. TYPE: C
DWG. SIZE: C

LOCATION: INDIAN POINT UNIT 2

TITLE: CONTAINMENT ISI
GENERAL ARRANGEMENT

— APPROVALS —

ENGINEERING MANAGER:

PROJECT ENGINEER:

DESIGNER:

DRAWN BY:

SCALE: NONE DISCIPLINE CODE:

320785-00

320785-00

320785-00^A

320785-00

00-98707A

B

C

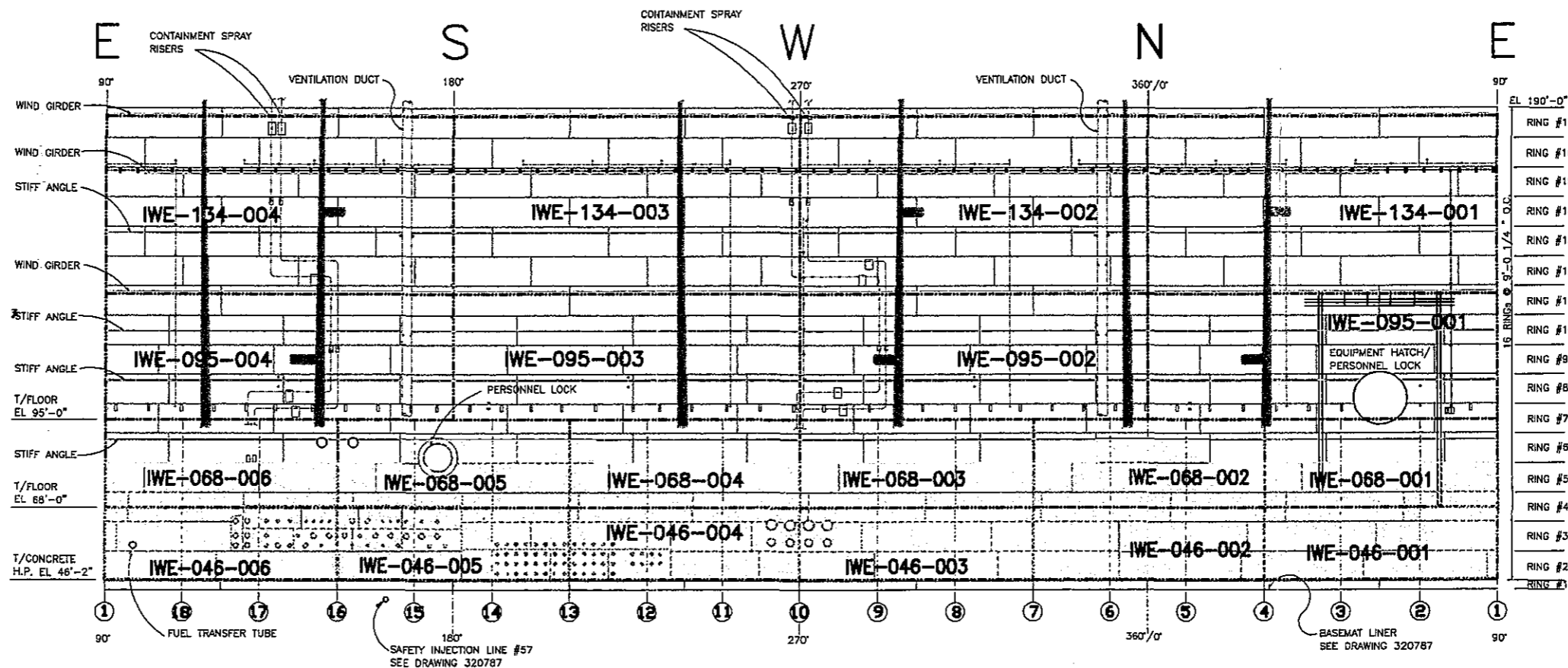
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E

F

REVISION
USE .1 SIZE TEXT ONLY

320786-00



- EL 190'-0"
- RING #17
- RING #16
- RING #15
- RING #14
- RING #13
- RING #12
- RING #11
- RING #10
- RING #9
- RING #8
- RING #7
- RING #6
- RING #5
- RING #4
- RING #3
- RING #2
- RING #1

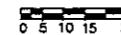
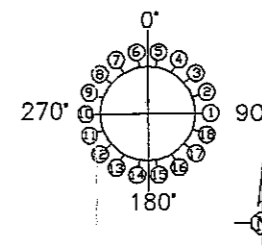
- 90°
- 180°
- 270°
- 360°/0°
- 90°

REVISION SIGNATURES	
REV	PROJECT ENGINEER
00	

LINER ROLLOUT
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

- NOTES:
- REFERENCE DESIGN DRAWING NUMBERS 9321-F-1153 & 9321-F-1280.
 - REFERENCE CB&I DRAWING NUMBERS 5(36C832), 6(36C817), 10(36C823), 14(36C824), 16(36C807), 20(36C831) & 25(1974M6946).

- LEGEND:
- ZONE BOUNDARY
 - LINER PLATE (INACCESSIBLE)
 - PENETRATION
 - LINER SEAM
 - ATTACHMENT PLATE
 - IWE-XXX-YYY INSPECTION ZONE NUMBER (SEE DRAWING 320795 FOR INDEX)



COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

DWG. NO. 320786-00

CON EDISON COMPANY
DWG. TYPE C
DWG. SIZE C

LOCATION: INDIAN POINT UNIT 2

TITLE: CONTAINMENT ISI
LINER LAYOUT

- APPROVALS -

ENGINEERING MANAGER:

PROJECT ENGINEER:

DESIGNER:

DRAWN BY:

SCALE: NONE DISCIPLINE CODE:

320786-00A

B

C

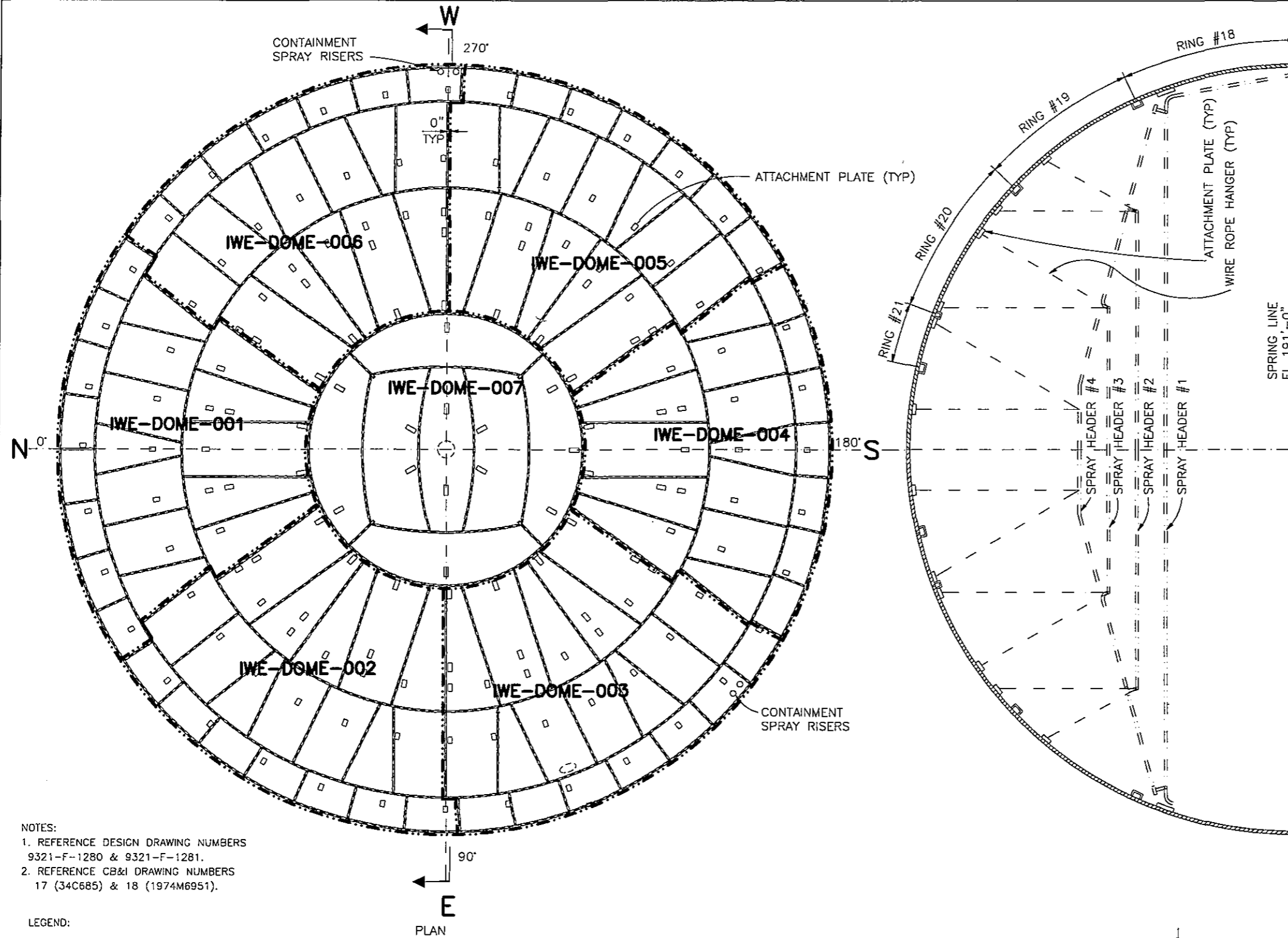
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E

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320786-00

00-687073



NOTES:
 1. REFERENCE DESIGN DRAWING NUMBERS
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 2. REFERENCE CB&I DRAWING NUMBERS
 17 (34C685) & 18 (1974M6951).

LEGEND:
 COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION
 ZONE BOUNDARY
 LINER SEAM
 IWE-XXX-YYY INSPECTION ZONE NUMBER (SEE DRAWING 320795 FOR INDEX)

90°
 E
 PLAN
 VIEW LOOKING UP

DOME LINER PLATE

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

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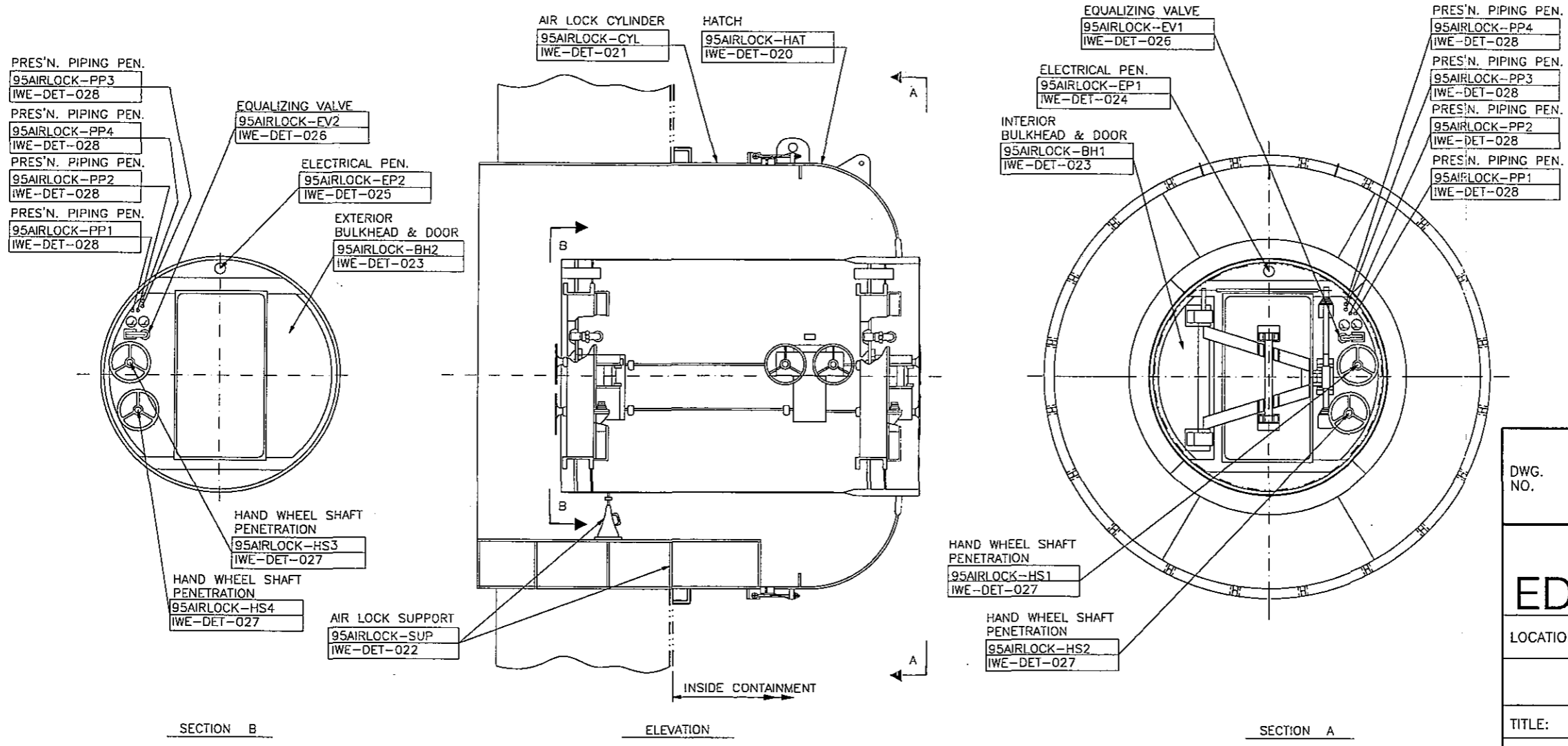
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CON EDISON	DWG. TYPE	COMPANY
	DWG. SIZE	D
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	- APPROVALS -	
ENGINEERING MANAGER:		
PROJECT ENGINEER:		
DESIGNER:		
DRAWN BY:	P. CHAU	
SCALE:	NONE	DISCIPLINE CODE:

320789-00

00-067072

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REV	PROJECT ENGINEER
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**EQUIPMENT HATCH / PERSONNEL LOCK
GENERAL ARRANGEMENT**

DWG. NO. **320790-00**

CON EDISON DWG. TYPE COMPANY
DWG. SIZE D

LOCATION: **INDIAN POINT UNIT 2**

TITLE: **CONTAINMENT ISI
GENERAL ARRANGEMENT**

**EQUIPMENT HATCH/PERSONNEL LOCK
- APPROVALS -**

ENGINEERING MANAGER:

PROJECT ENGINEER:

DESIGNER:

DRAWN BY: **P CHAU**

SCALE: **NONE** DISCIPLINE CODE:

- NOTES:
- SEE DRAWING 320820 FOR INDEX OF LINER INSPECTION DETAILS.
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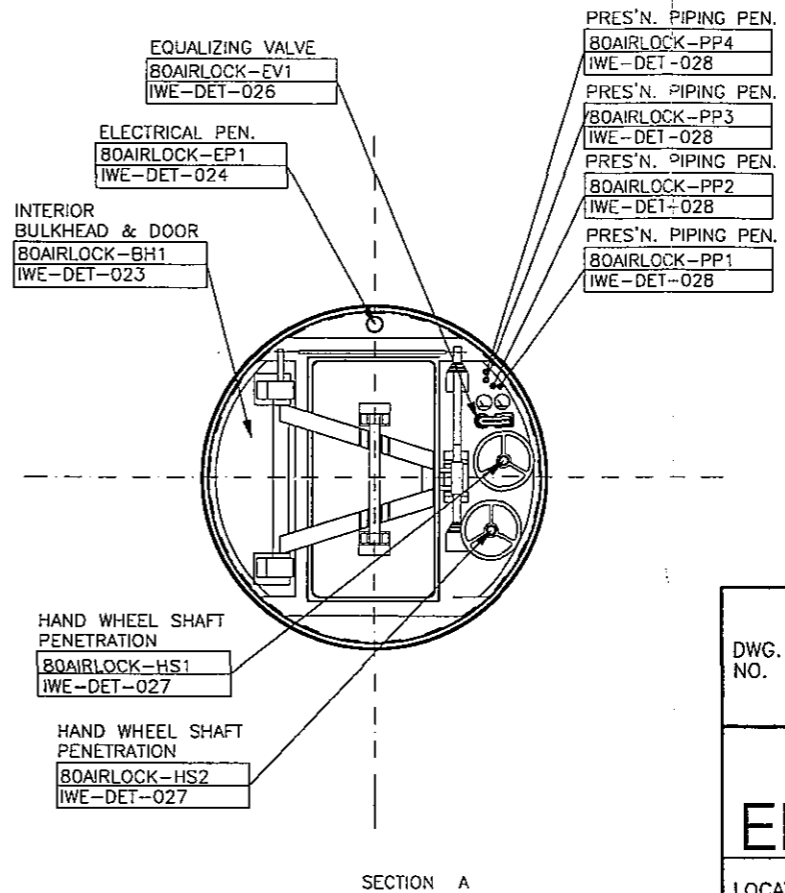
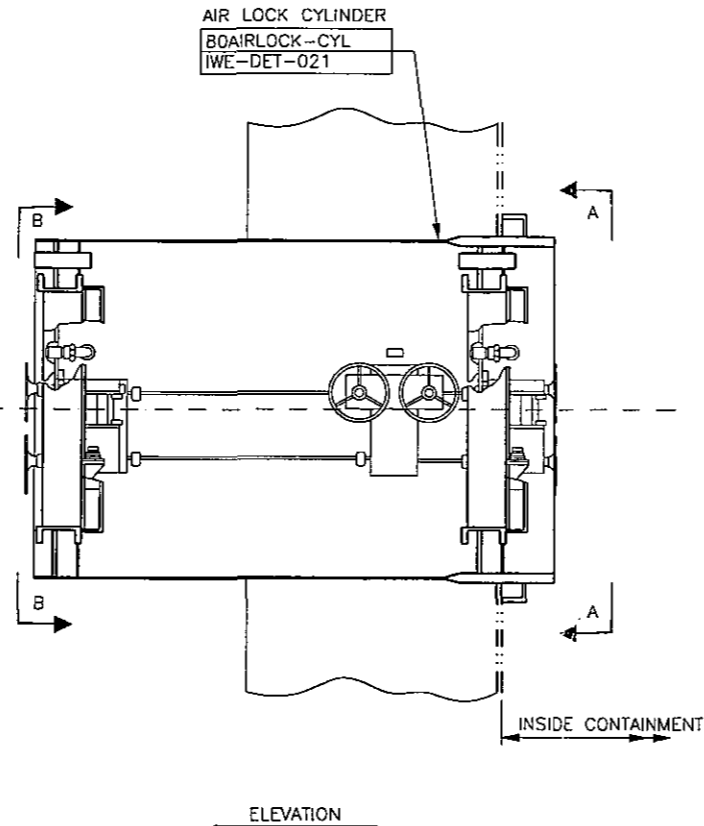
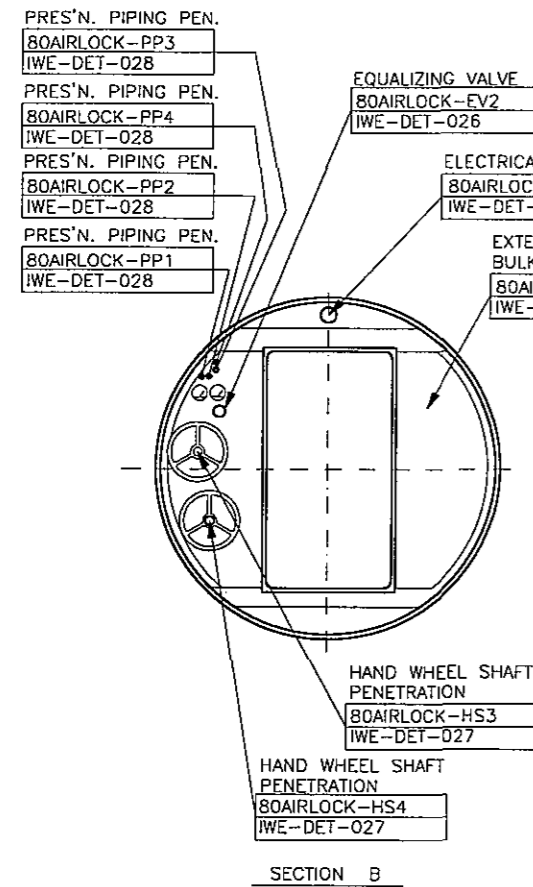
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IWE-DET-024	INSPECTION DETAIL NUMBER (NOTE 1)

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320790-00

00-167073



**PERSONNEL LOCK
GENERAL ARRANGEMENT**

REVISION
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REV	PROJECT ENGINEER
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DWG. NO. **320791-00**

CON EDISON COMPANY
DWG. TYPE
DWG. SIZE D

LOCATION: INDIAN POINT UNIT 2

TITLE: CONTAINMENT ISI
GENERAL ARRANGEMENT
PERSONNEL LOCK
- APPROVALS -

ENGINEERING MANAGER:

PROJECT ENGINEER:

DESIGNER:

DRAWN BY: P CHAU

SCALE: NONE DISCIPLINE CODE:

- NOTES:
- SEE DRAWING 320820 FOR INDEX OF LINER INSPECTION DETAILS.
 - REFERENCE DESIGN DRAWING NUMBER 9321-F-1297.
 - REFERENCE CB&I DRAWING NUMBER 160 (CON ED 301925).

LEGEND:

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00-967079

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320797	LINER INSPECTION ZONE IWE-046-002
320798	LINER INSPECTION ZONE IWE-046-003
320799	LINER INSPECTION ZONE IWE-046-004
320800	LINER INSPECTION ZONE IWE-046-005
320801	LINER INSPECTION ZONE IWE-046-006
320802	LINER INSPECTION ZONE IWE-068-001
320803	LINER INSPECTION ZONE IWE-068-002
320804	LINER INSPECTION ZONE IWE-068-003
320805	LINER INSPECTION ZONE IWE-068-004
320806	LINER INSPECTION ZONE IWE-068-005
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320810	LINER INSPECTION ZONE IWE-095-003
320811	LINER INSPECTION ZONE IWE-095-004
320812	LINER INSPECTION ZONE IWE-134-001
320813	LINER INSPECTION ZONE IWE-134-002
320814	LINER INSPECTION ZONE IWE-134-003
320815	LINER INSPECTION ZONE IWE-134-004
320816	DOME LINER INSPECTION ZONE IWE-DOME-001
320817	DOME LINER INSPECTION ZONE IWE-DOME-002
320818	DOME LINER INSPECTION ZONE IWE-DOME-003
320819	DOME LINER INSPECTION ZONE IWE-DOME-004
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320821	DOME LINER INSPECTION ZONE IWE-DOME-006
320822	DOME LINER INSPECTION ZONE IWE-DOME-007

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- SEE DRAWING 320884 FOR INDEX OF LINER INSPECTION DETAILS.
- SEE DRAWING 320786 FOR WALL LINER ROLLOUT & 320789 FOR DOME LINER ROLLOUT & 320789 FOR DOME.
- REFERENCE DESIGN DRAWING NUMBERS 9321-F-1280 & 9321-F-2717.
- REFERENCE CB&I DRAWING NUMBERS 5 (1974M6956) & 10 (36CB23).

LEGEND:

- ZONE BOUNDARY
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- LINER PLATE INACCESSIBLE FOR INSPECTION (INSULATION COVERS LINER)
- CAP PLATE AT BOUNDARY OF PRESSURIZATION
- PENETRATION
- ATTACHMENT PLATE

MP-VV — COMPONENT ID
IWE-DET-011 — INSPECTION DETAIL NUMBER

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REVISION SIGNATURES	
REV	PROJECT ENGINEER
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DWG. NO. **320795-00**

CON EDISON	DWG. TYPE COMPANY
	DWG. SIZE D

LOCATION: **INDIAN POINT UNIT 2**

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PROJECT ENGINEER: _____

DESIGNER: _____

DRAWN BY: **P CHAU**

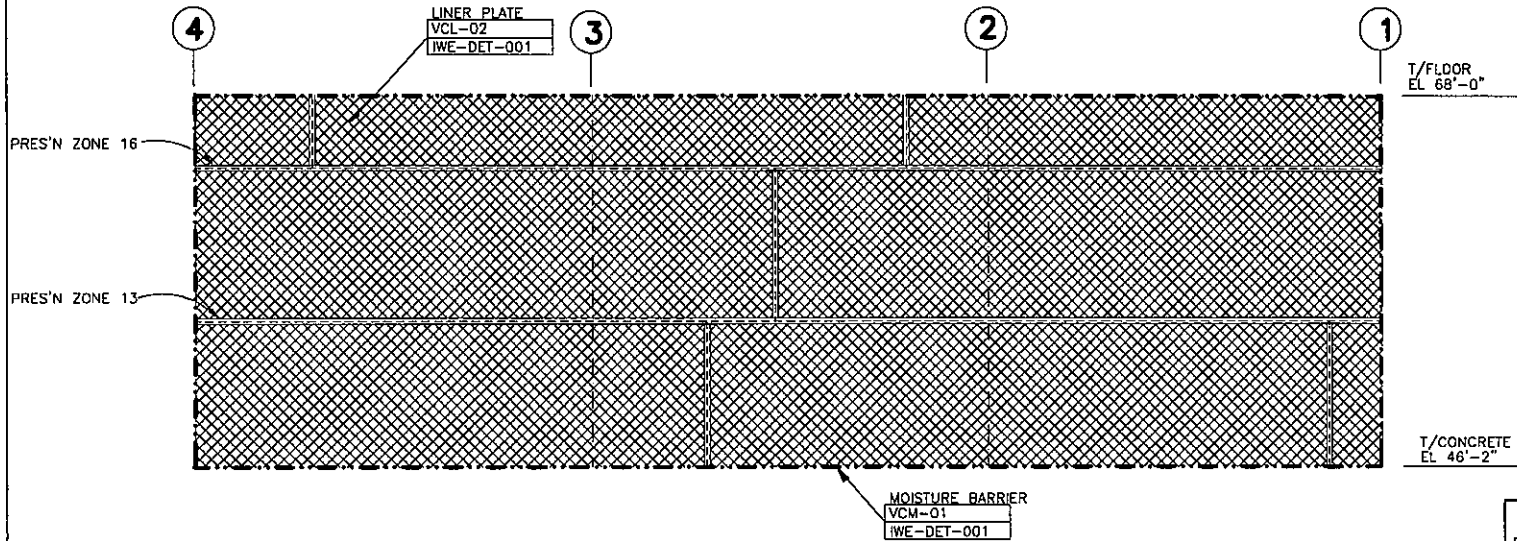
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00-967073



LINER INSPECTION ZONE IWE-046-001
 (INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

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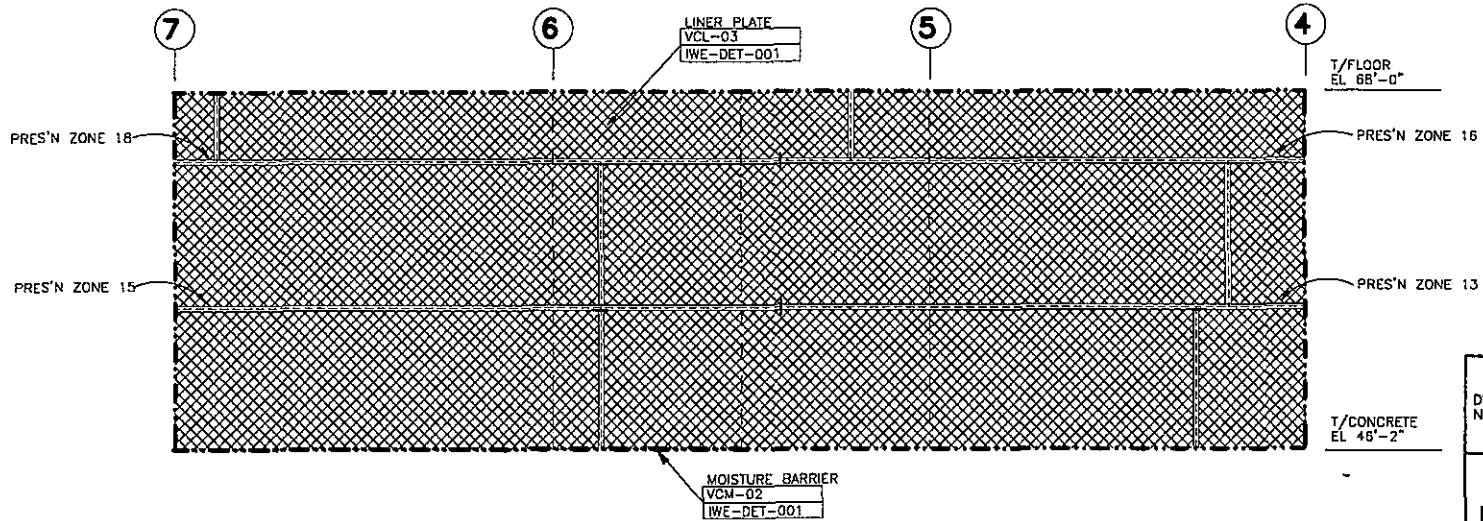
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LINER INSPECTION ZONE		
IWE-046-001		
- APPROVALS -		
ENGINEERING MANAGER:		
PROJECT ENGINEER:		
DESIGNER:		
DRAWN BY: P CHAU		
SCALE: NONE	DISCIPLINE CODE:	

FOR NOTES AND LEGENDS SEE DRAWING 320795.

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320796-00

00-767073



LINER INSPECTION ZONE IWE-046-002
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

FOR NOTES AND LEGENDS SEE DRAWING 320795.

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USE .1 SIZE TEXT ONLY

REVISION
SIGNATURES

REV	PROJECT ENGINEER
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DWG. NO. **320797-00**

CON EDISON	DWG. TYPE COMPANY
	DWG. SIZE D

LOCATION: INDIAN POINT UNIT 2

TITLE: CONTAINMENT ISI
LINER INSPECTION ZONE
IWE-046-002
- APPROVALS -

ENGINEERING
MANAGER:

PROJECT
ENGINEER:

DESIGNER:

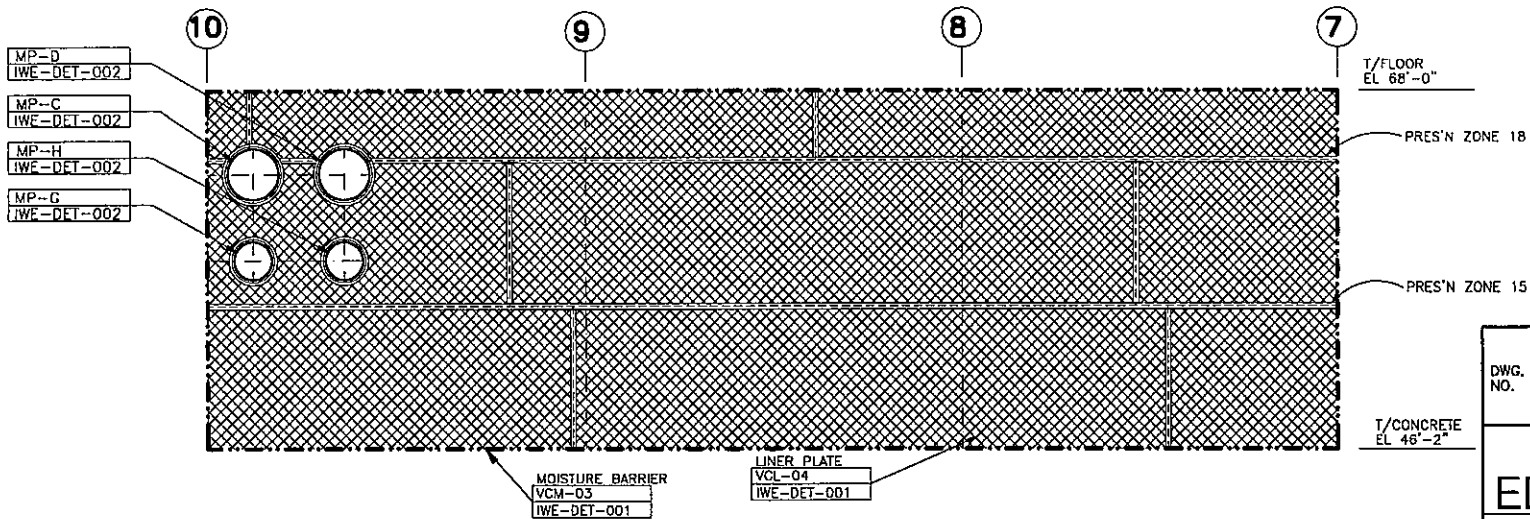
DRAWN
BY: P CHAU

SCALE: NONE

DISCIPLINE
CODE:

320797-00

320798-00



LINER INSPECTION ZONE IWE-046-003
 (INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

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REVISION SIGNATURES	
REV	PROJECT ENGINEER
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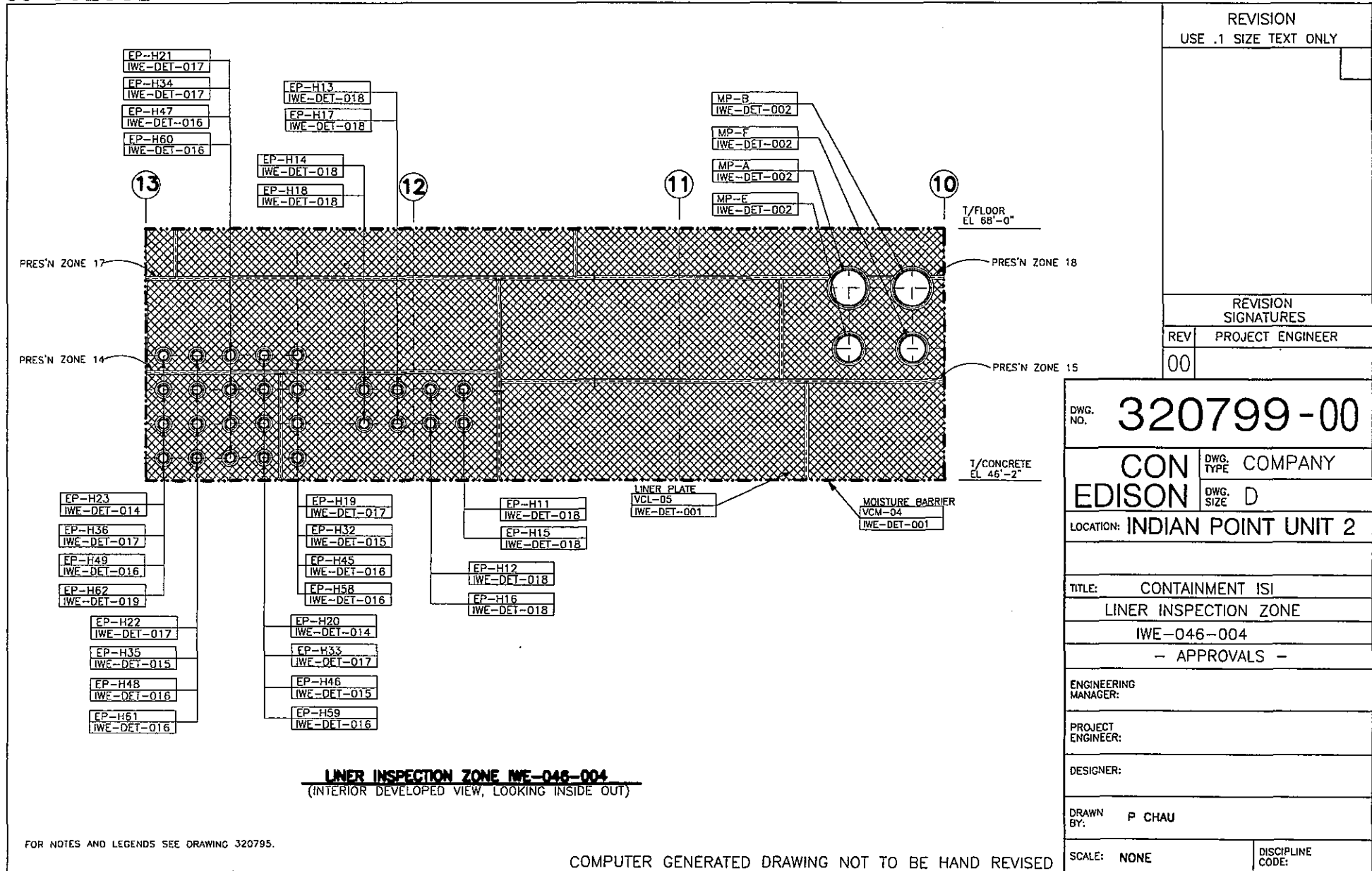
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	DWG. SIZE	D
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TITLE: CONTAINMENT ISI		
LINER INSPECTION ZONE		
IWE-046-003		
- APPROVALS -		
ENGINEERING MANAGER:		
PROJECT ENGINEER:		
DESIGNER:		
DRAWN BY:		
SCALE:	DISCIPLINE CODE:	

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

320798-00

320799-00



REVISION	
USE .1 SIZE TEXT ONLY	
REVISION SIGNATURES	
REV	PROJECT ENGINEER
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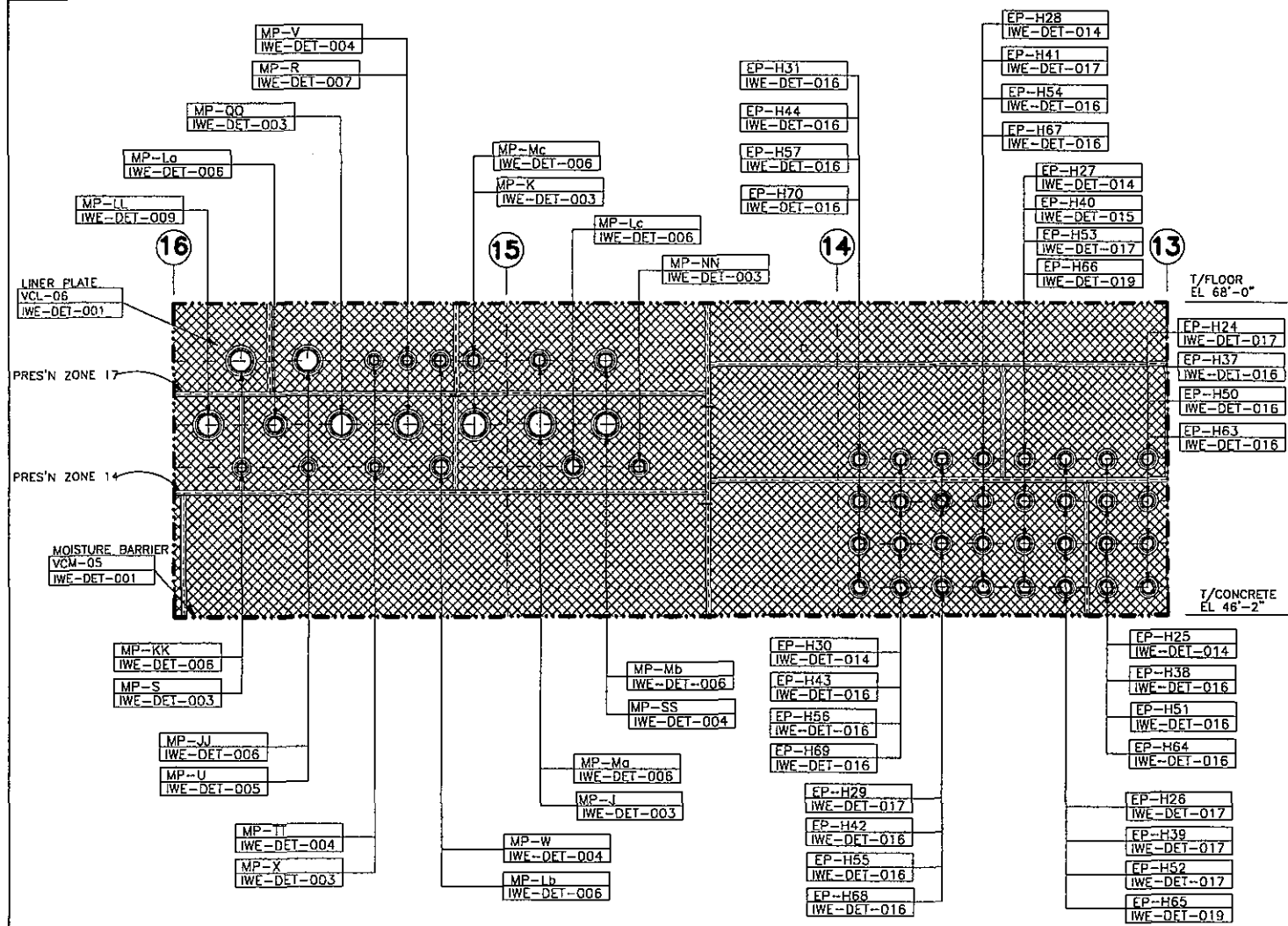
DWG. NO.	320799-00		
CON EDISON	DWG. TYPE	COMPANY	
	DWG. SIZE	D	
LOCATION:	INDIAN POINT UNIT 2		
TITLE:	CONTAINMENT ISI LINER INSPECTION ZONE IWE-046-004 - APPROVALS -		
ENGINEERING MANAGER:			
PROJECT ENGINEER:			
DESIGNER:			
DRAWN BY:	P CHAU		
SCALE:	NONE	DISCIPLINE CODE:	

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

320799-00

320800-00



REVISION	
USE .1 SIZE TEXT ONLY	
REVISION SIGNATURES	
REV	PROJECT ENGINEER
00	

DWG. NO.	320800-00		
CON EDISON	DWG. TYPE	COMPANY	
	DWG. SIZE	D	
LOCATION:	INDIAN POINT UNIT 2		
TITLE:	CONTAINMENT ISI LINER INSPECTION ZONE		
	IWE-046-005		
	- APPROVALS -		
ENGINEERING MANAGER:			
PROJECT ENGINEER:			
DESIGNER:			
DRAWN BY:	P CHAU		
SCALE:	NONE	DISCIPLINE CODE:	

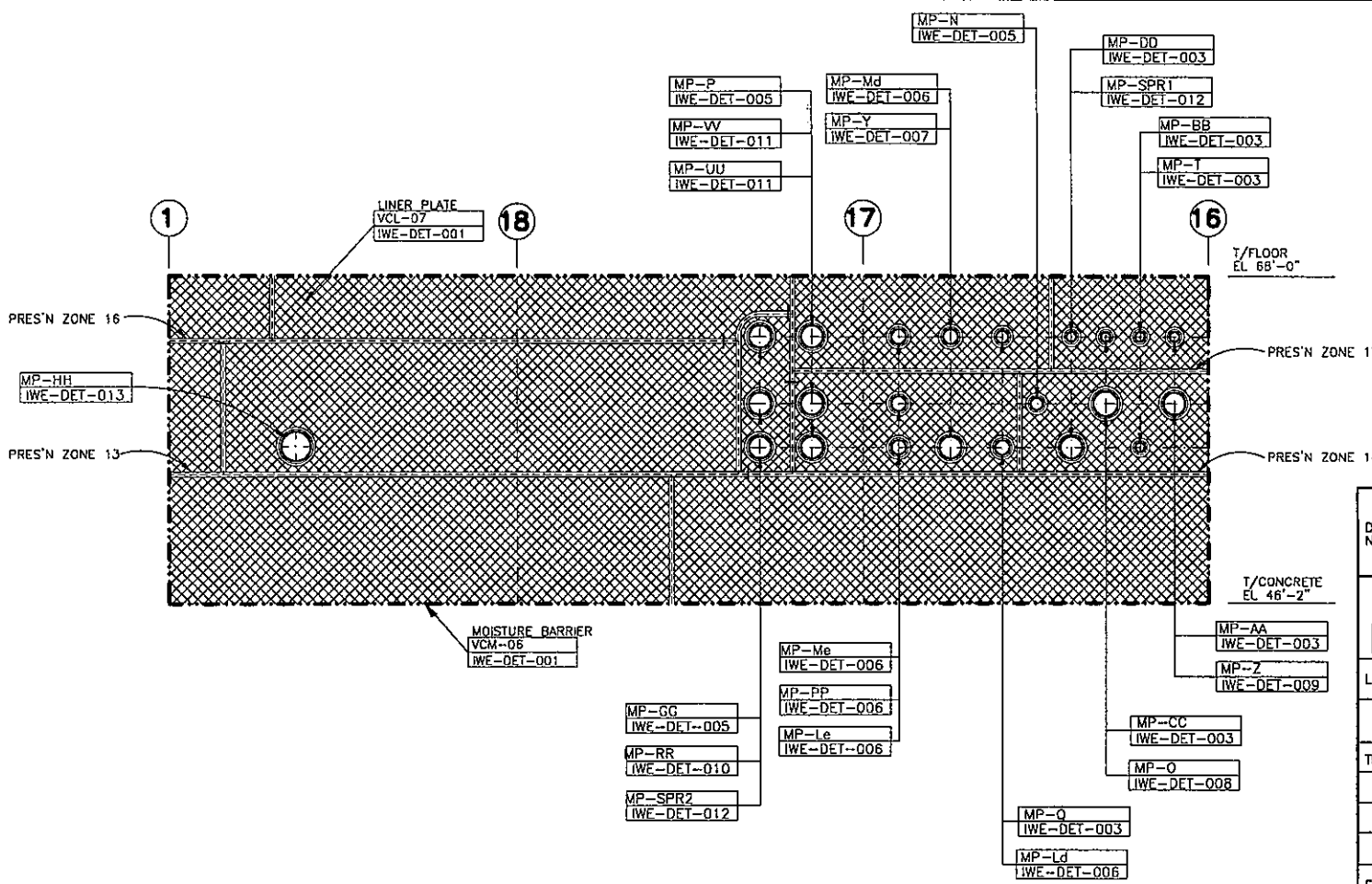
FOR NOTES AND LEGENDS SEE DRAWING 320795.

LINER INSPECTION ZONE IWE-046-005
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

320800-00

320801-00



REVISION	
USE .1 SIZE TEXT ONLY	
REVISION SIGNATURES	
REV	PROJECT ENGINEER
00	

DWG. NO.	320801-00	
DWG. TYPE	COMPANY	
DWG. SIZE	D	
LOCATION: INDIAN POINT UNIT 2		
TITLE: CONTAINMENT ISI		
LINER INSPECTION ZONE		
IWE-046-006		
- APPROVALS -		
ENGINEERING MANAGER:		
PROJECT ENGINEER:		
DESIGNER:		
DRAWN BY:	P CHAU	
SCALE:	NONE	DISCIPLINE CODE:

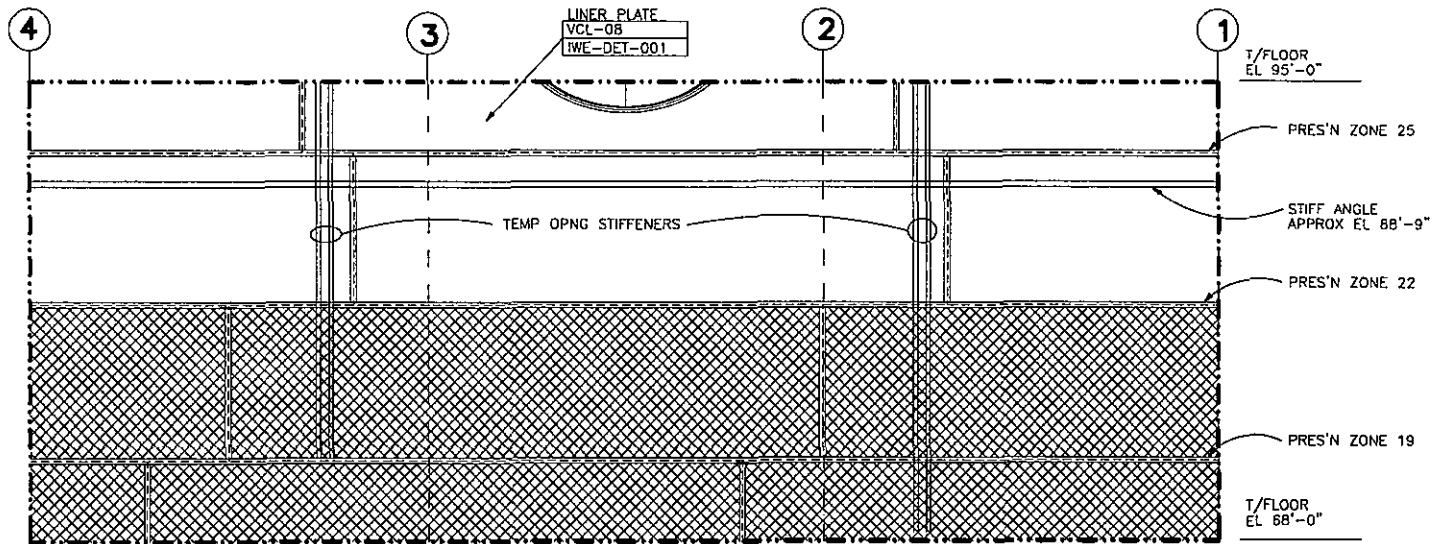
LINER INSPECTION ZONE IWE-046-006
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

320801-00

00-708072



LINER INSPECTION ZONE IWE-068-001
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REVISION
USE .1 SIZE TEXT ONLY

REVISION
SIGNATURES
PROJECT ENGINEER
REV 00

DWG. NO. 320802-00

CON EDISON DWG. TYPE COMPANY DWG. SIZE D

LOCATION: INDIAN POINT UNIT 2

TITLE: CONTAINMENT ISI

LINER INSPECTION ZONE

IWE-068-001

- APPROVALS -

ENGINEERING
MANAGER:

PROJECT
ENGINEER:

DESIGNER:

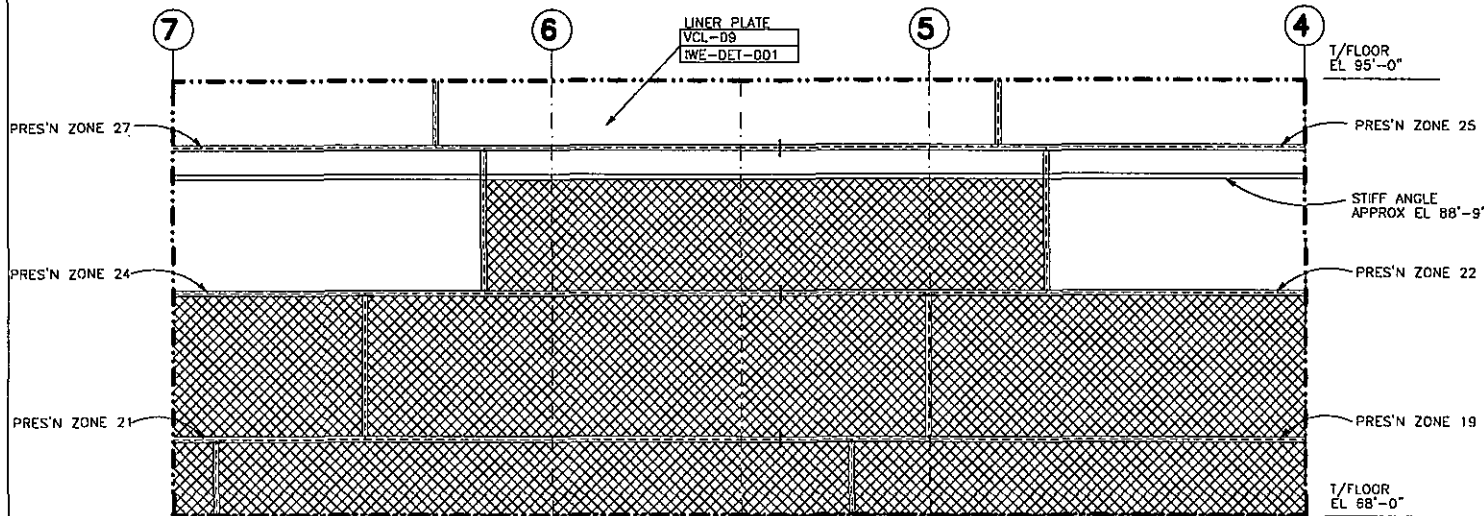
DRAWN
BY: P CHAU

SCALE: NONE

DISCIPLINE
CODE:

320802-00

320803-00



LINER INSPECTION ZONE IWE-068-002
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REVISION
USE .1 SIZE TEXT ONLY

REVISION SIGNATURES	
REV	PROJECT ENGINEER
00	

DWG. No. **320803-00**

CON EDISON DWG. TYPE COMPANY
DWG. SIZE D

LOCATION: INDIAN POINT UNIT 2

TITLE: CONTAINMENT ISI
LINER INSPECTION ZONE

IWE-068-002

- APPROVALS -

ENGINEERING MANAGER:

PROJECT ENGINEER:

DESIGNER:

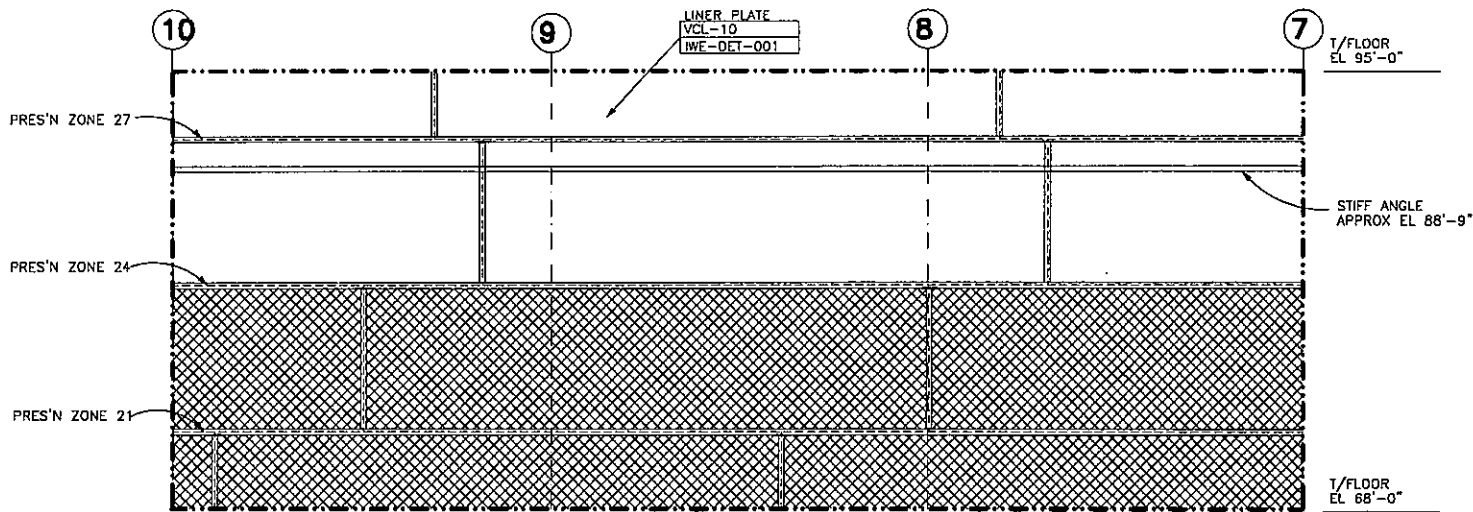
DRAWN BY: P CHAU

SCALE: NONE

DISCIPLINE CODE:

320803-00

320804-00



LINER INSPECTION ZONE IWE-068-003
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

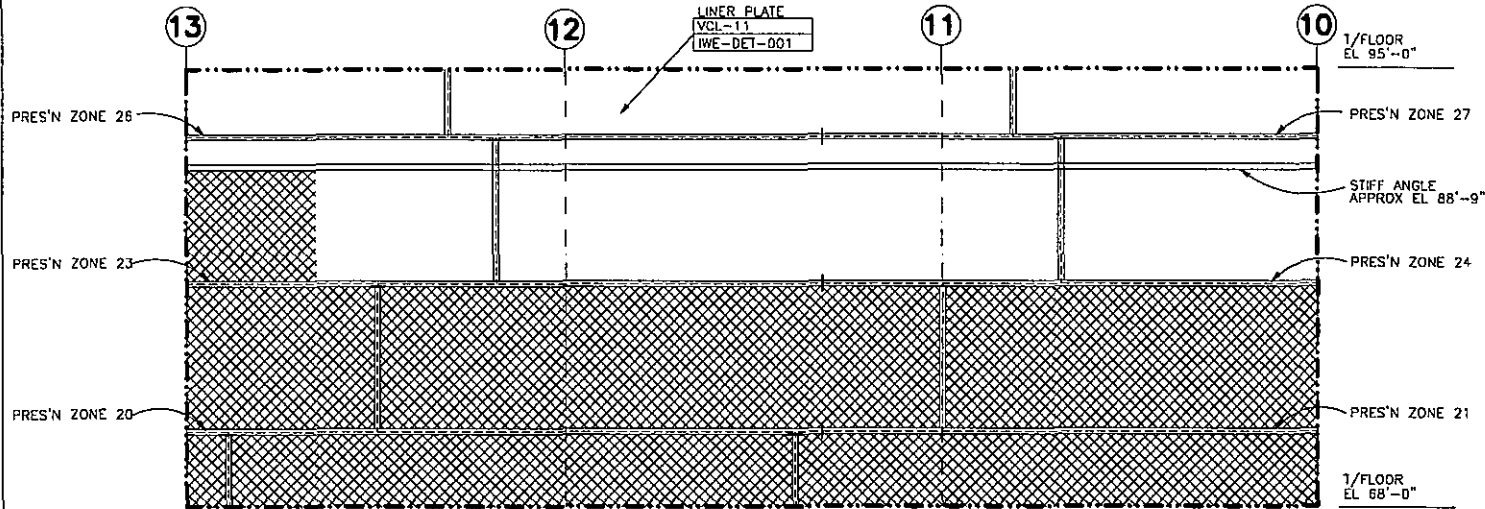
REVISION
USE .1 SIZE TEXT ONLY

REVISION SIGNATURES	
REV	PROJECT ENGINEER
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DWG. NO.	320804-00	
CON EDISON	DWG. TYPE	COMPANY
	DWG. SIZE	D
LOCATION:	INDIAN POINT UNIT 2	
TITLE:	CONTAINMENT ISI LINER INSPECTION ZONE IWE-068-003 - APPROVALS -	
ENGINEERING MANAGER:		
PROJECT ENGINEER:		
DESIGNER:		
DRAWN BY:	P CHAU	
SCALE:	NONE	DISCIPLINE CODE:

320804-00

00-90807C
320805-00



LINER INSPECTION ZONE IWE-068-004
(INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

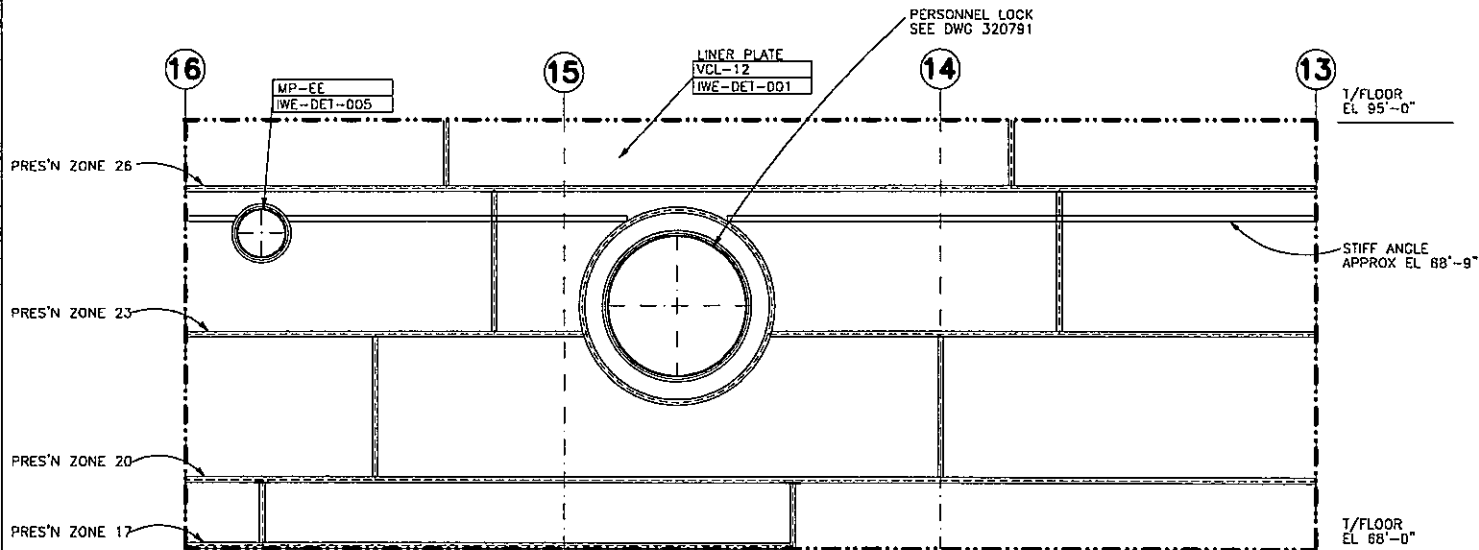
REVISION
USE .1 SIZE TEXT ONLY

REVISION SIGNATURES	
REV	PROJECT ENGINEER
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DWG. NO.	320805-00	
CON EDISON	DWG. TYPE	COMPANY
	DWG. SIZE	D
LOCATION: INDIAN POINT UNIT 2		
TITLE: CONTAINMENT ISI		
LINER INSPECTION ZONE		
IWE-068-004		
- APPROVALS -		
ENGINEERING MANAGER:		
PROJECT ENGINEER:		
DESIGNER:		
DRAWN BY: P CHAU		
SCALE: NONE	DISCIPLINE CODE:	

320805-00

00-908073



LINER INSPECTION ZONE IWE-068-005
(INTERIOR DEVELOPED VIEW, LOOKING 'INSIDE OUT')

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

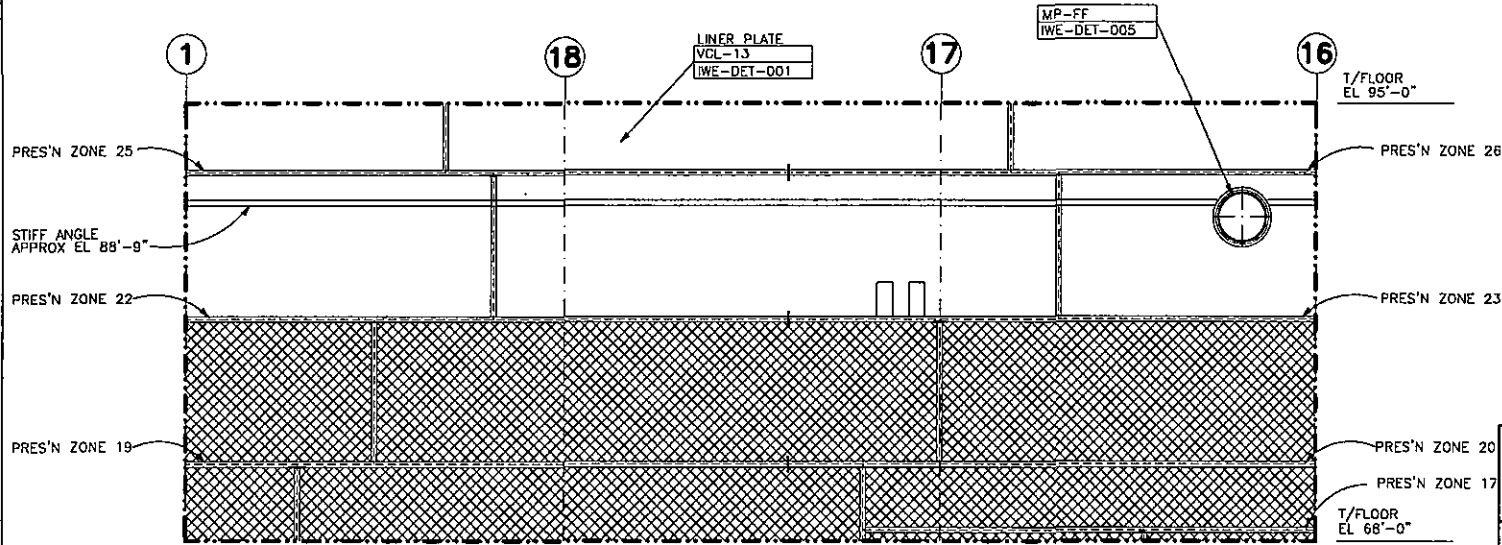
REVISION
USE .1 SIZE TEXT ONLY

REVISION SIGNATURES	
REV	PROJECT ENGINEER
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DWG. NO.	320806-00	
CON EDISON	DWG. TYPE	COMPANY
	DWG. SIZE	D
LOCATION:	INDIAN POINT UNIT 2	
TITLE:	CONTAINMENT ISI LINER INSPECTION ZONE IWE-068-005 - APPROVALS -	
ENGINEERING MANAGER:		
PROJECT ENGINEER:		
DESIGNER:		
DRAWN BY:	P CHAU	
SCALE:	NONE	DISCIPLINE CODE:

320806-00

00-708073



LINER INSPECTION ZONE IWE-068-006
 (INTERIOR DEVELOPED VIEW, LOOKING INSIDE OUT)

FOR NOTES AND LEGENDS SEE DRAWING 320795.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

REVISION
 USE .1 SIZE TEXT ONLY

REVISION SIGNATURES	
REV	PROJECT ENGINEER
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DWG. NO.	320807-00	
DWG. TYPE	CON COMPANY	
DWG. SIZE	D	
LOCATION:	INDIAN POINT UNIT 2	
TITLE:	CONTAINMENT ISI	
	LINER INSPECTION ZONE	
	IWE-068-006	
	- APPROVALS -	
ENGINEERING MANAGER:		
PROJECT ENGINEER:		
DESIGNER:		
DRAWN BY:	P CHAU	
SCALE:	NONE	DISCIPLINE CODE:

320807-00

320884-00

INDEX OF LINER INSPECTION DETAILS

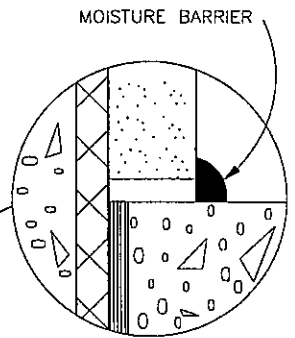
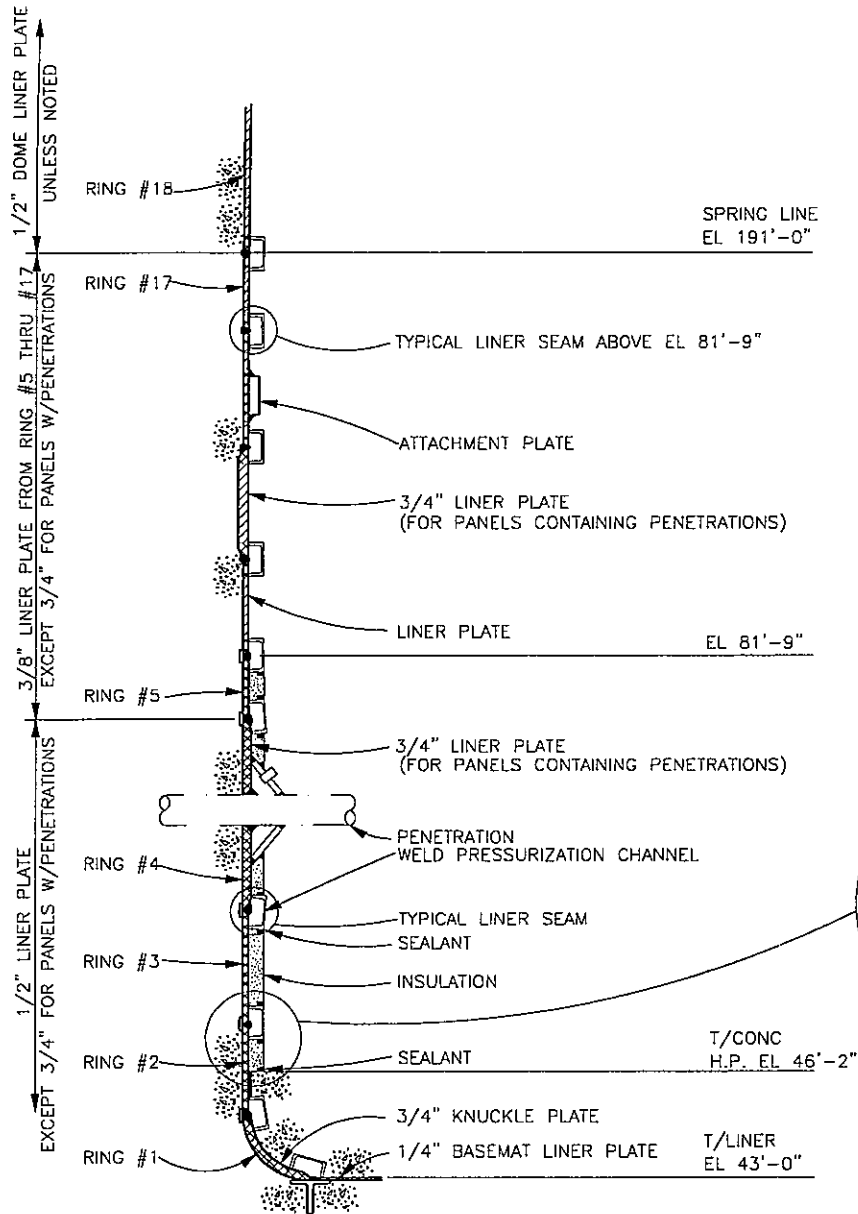
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320885	IWE-DET-001	CONTAINMENT LINER INSPECTION DETAIL
320886	IWE-DET-002	MECHANICAL PENETRATION - HOT PIPING
320887	IWE-DET-003	MECHANICAL PENETRATION - HOT PIPING
320888	IWE-DET-004	MECHANICAL PENETRATION - HOT PIPING
320889	IWE-DET-005	MECHANICAL PENETRATION - COLD PIPING
320890	IWE-DET-006	MECHANICAL PENETRATION - COLD PIPING
320891	IWE-DET-007	MECHANICAL PENETRATION - COLD PIPING
320892	IWE-DET-008	MECHANICAL PENETRATION - COLD PIPING
320893	IWE-DET-009	MECHANICAL PENETRATION - COLD PIPING
320894	IWE-DET-010	MECHANICAL PENETRATION - COLD PIPING
320895	IWE-DET-011	MECHANICAL PENETRATION - COLD PIPING
320896	IWE-DET-012	MECHANICAL PENETRATION - SPARE
320897	IWE-DET-013	FUEL TRANSFER TUBE, SHEET 1
320898	IWE-DET-013	FUEL TRANSFER TUBE, SHEET 2
320899	IWE-DET-013	FUEL TRANSFER TUBE, SHEET 3
320900	IWE-DET-014	ELECTRICAL PENETRATION - CONAX, SHEET 1
320901	IWE-DET-014	ELECTRICAL PENETRATION - CONAX, SHEET 2
320902	IWE-DET-015	ELECTRICAL PENETRATION - CONAX, SHEET 1
320903	IWE-DET-015	ELECTRICAL PENETRATION - CONAX, SHEET 2
320904	IWE-DET-016	ELECTRICAL PENETRATION - CROUSE/HINDS SHT 1
320905	IWE-DET-016	ELECTRICAL PENETRATION - CROUSE/HINDS SHT 2
320906	IWE-DET-017	ELECTRICAL PENETRATION - CROUSE/HINDS SHT 1
320907	IWE-DET-017	ELECTRICAL PENETRATION - CROUSE/HINDS SHT 2
320908	IWE-DET-018	ELECTRICAL PENETRATION - CROUSE/HINDS SHT 1
320909	IWE-DET-018	ELECTRICAL PENETRATION - CROUSE/HINDS SHT 2
320910	IWE-DET-019	ELECTRICAL PENETRATION - SPARE
320911		NOT USE
320912	IWE-DET-020	HATCH, SHEET 1
320913	IWE-DET-020	HATCH, SHEET 2
320914	IWE-DET-020	HATCH, SHEET 3
320915	IWE-DET-021	AIR LOCK CYLINDER
320916	IWE-DET-022	AIR LOCK SUPPORT
320917	IWE-DET-023	AIR LOCK BULKHEAD & DOOR, SHEET 1
320918	IWE-DET-023	AIR LOCK BULKHEAD & DOOR, SHEET 2
320919	IWE-DET-023	AIR LOCK BULKHEAD & DOOR, SHEET 3
320920	IWE-DET-024	AIR LOCK ELECTRICAL PENETRATION
320921	IWE-DET-025	AIR LOCK ELECTRICAL PENETRATION
320922	IWE-DET-026	AIR LOCK EQUALIZING VALVE DETAIL
320923	IWE-DET-027	AIR LOCK HAND WHEEL SHAFT PENETRATION
320924	IWE-DET-028	AIR LOCK PRES'N PIPING PENETRATIONS

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320884-00		REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDIAN POINT UNIT 2				
TITLE: CONTAINMENT ISI INDEX OF LINER INSPECTION DETAILS			REVISION SIGNATURE		
ENG. MGR.		DESIGNER:			
PROJ. ENG.		DRAWN BY:		SCALE: NONE	DISC CODE:

320884-00

320885-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-1122, 9321-F-1153 & 9321-F-1280.
 2. REFERENCE CB&I DRAWING NUMBER 6 (36C817).

SECTION
IWE-DET-001
CONTAINMENT LINER

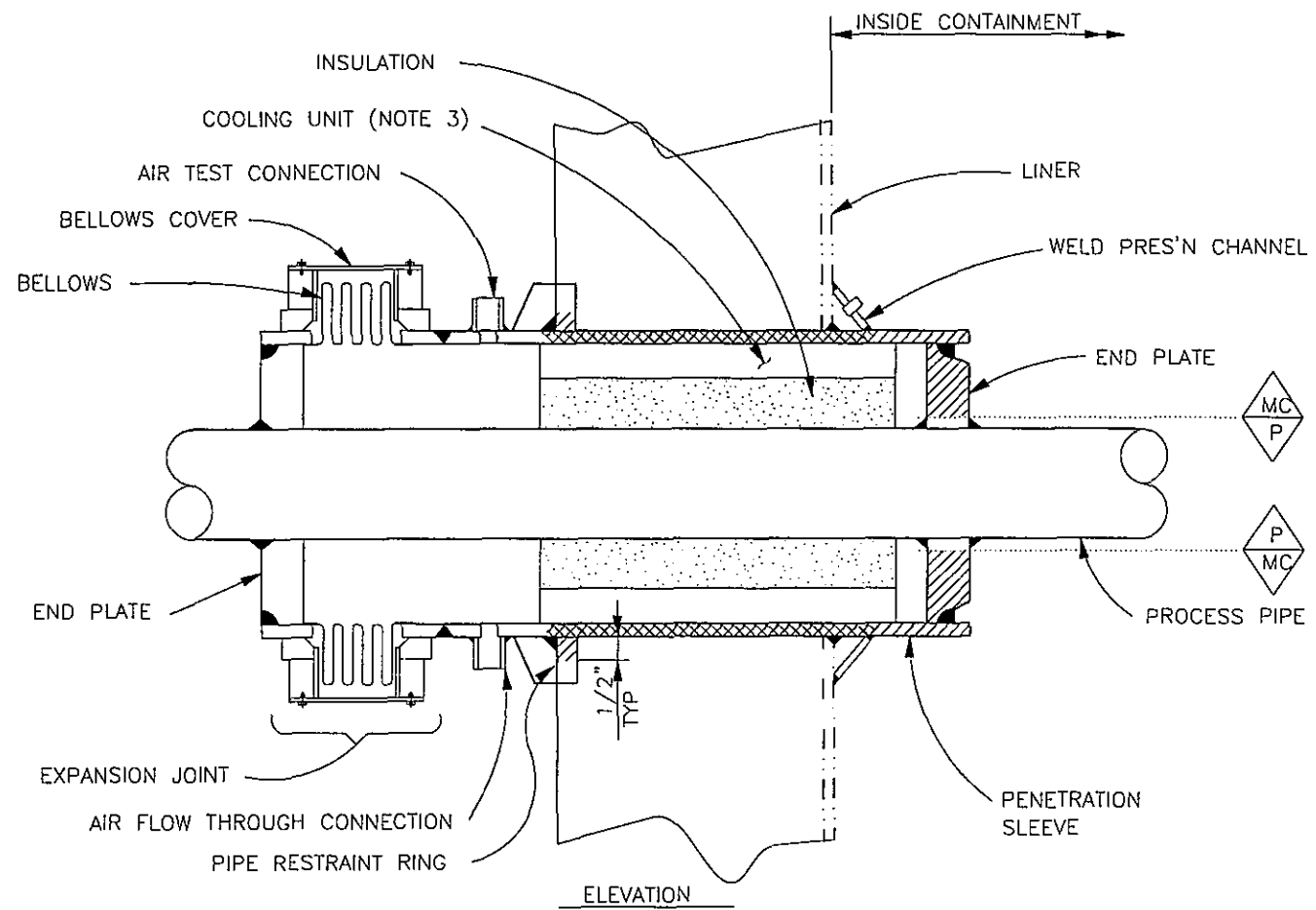
- LEGEND:
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY REQUIRING INSPECTION (SUR)
 - COMPONENT/SURFACE, WITHIN IWE BOUNDARY INACCESSIBLE FOR INSPECTION

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320885-00		REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDIAN POINT UNIT 2				
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL			REVISION SIGNATURE		
ENG. MGR	DESIGNER:				
PROJ. ENG.	DRAWN BY:	SCALE: NONE		DISC CODE:	

320885-00

32086-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-2712 & 9321-F-2717.
 2. REFERENCE CB&I DRAWING NUMBER 14 (36CB24).
 3. COOLING UNIT AIR INLETS/OUTLETS ARE NOT SHOWN FOR CLARITY.

- LEGEND:
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 - COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION
 - CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

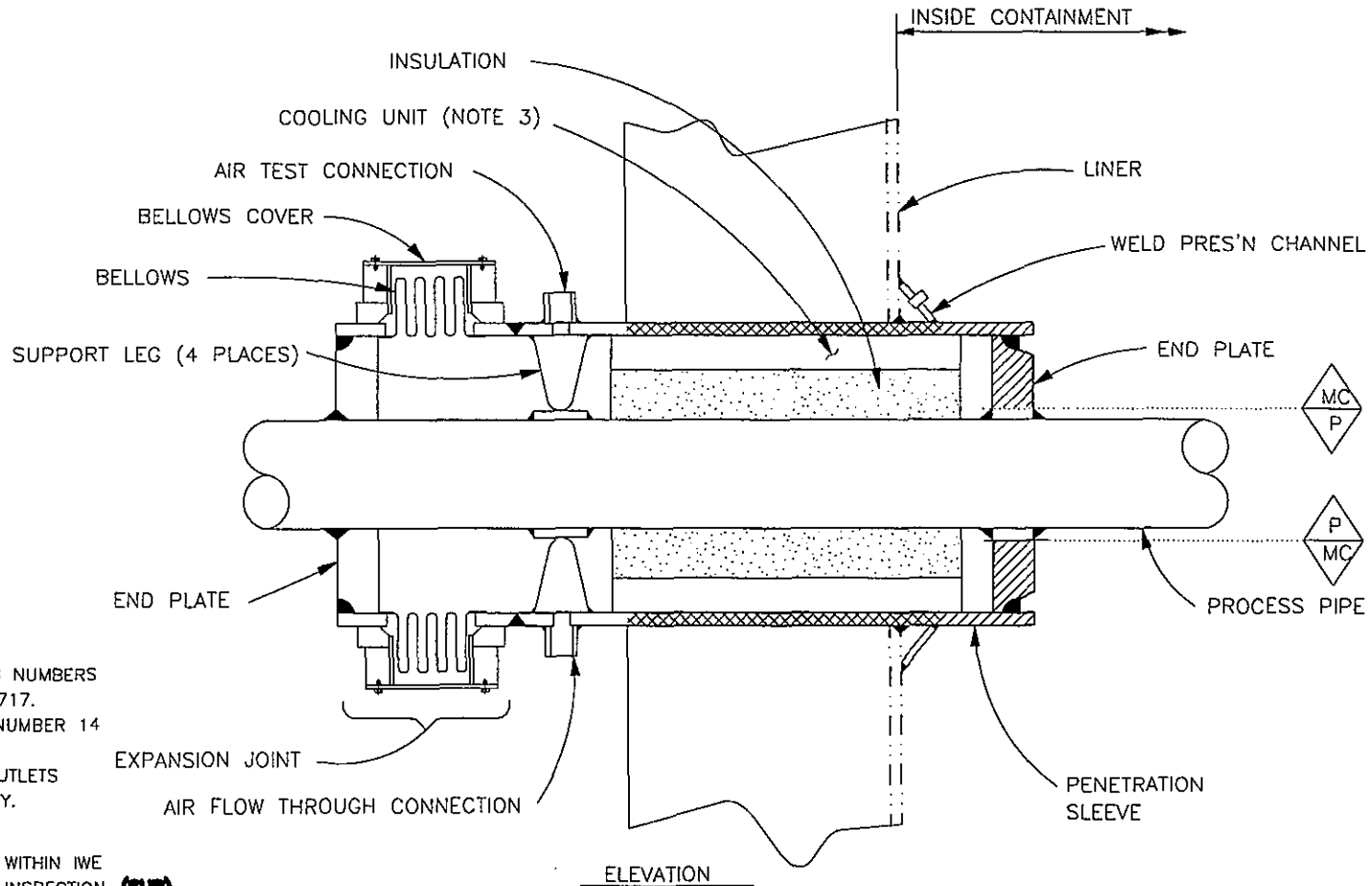
IWE-DET-002
MECHANICAL PENETRATION - HOT PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320886-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-002						




320886-00

320887-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-2712 & 9321-F-2717.
 2. REFERENCE CB&I DRAWING NUMBER 14 (36C824).
 3. COOLING UNIT AIR INLETS/OUTLETS ARE NOT SHOWN FOR CLARITY.

LEGEND:

-  COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
-  COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION
-  CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

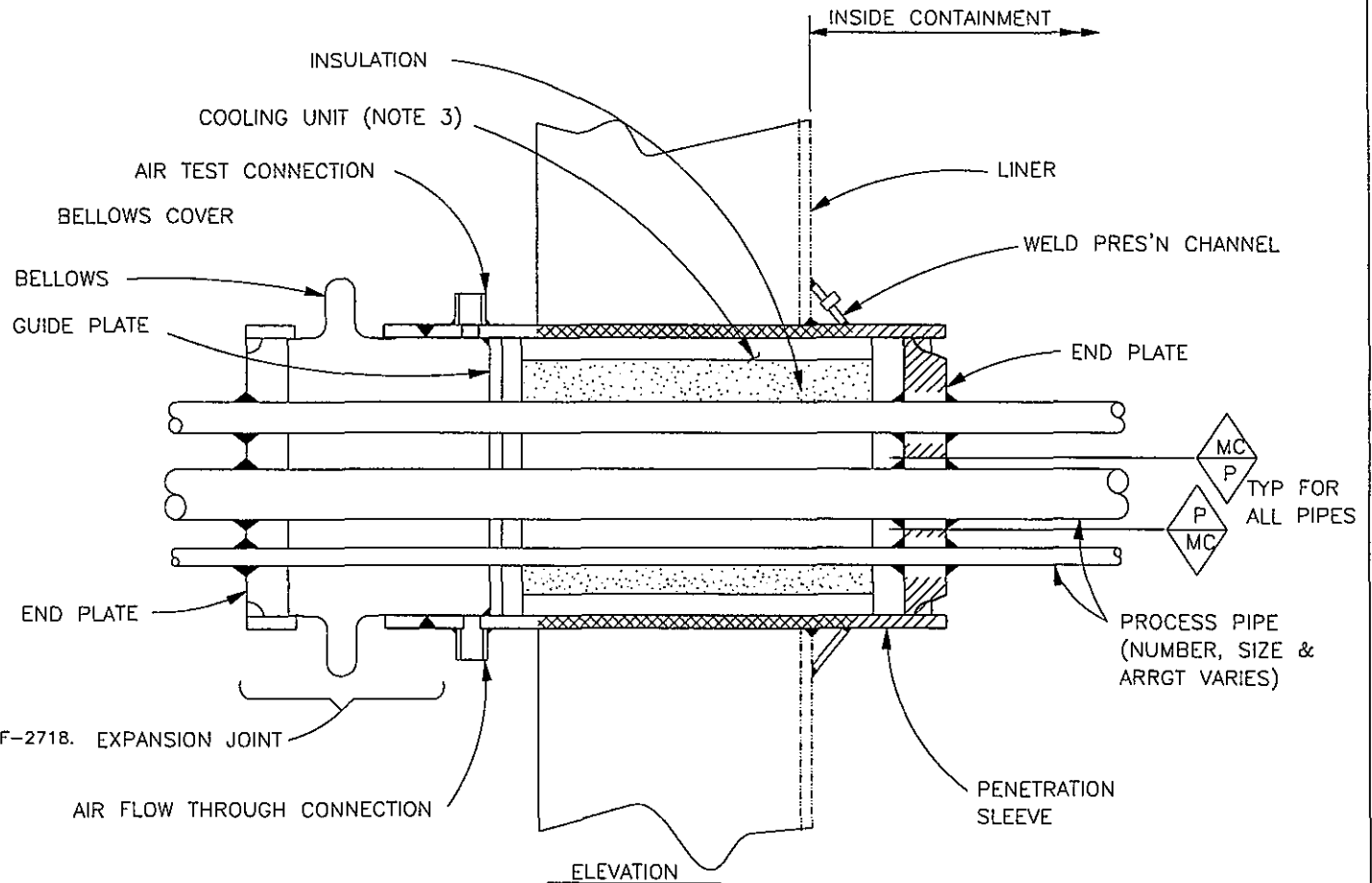
IWE-DET-003
MECHANICAL PENETRATION - HOT PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320887-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:	PROJECT ENGINEER:		
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:	DESIGNER:		
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
IWE-DET-003					

320887-00

320888-00



NOTES:

1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-2712, 9321-F-2717 & 9321-F-2718. EXPANSION JOINT
2. REFERENCE CB&I DRAWING NUMBER 14 (36C824).
3. COOLING UNIT AIR INLETS/OUTLETS ARE NOT SHOWN FOR CLARITY.

LEGEND:

- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION
- CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

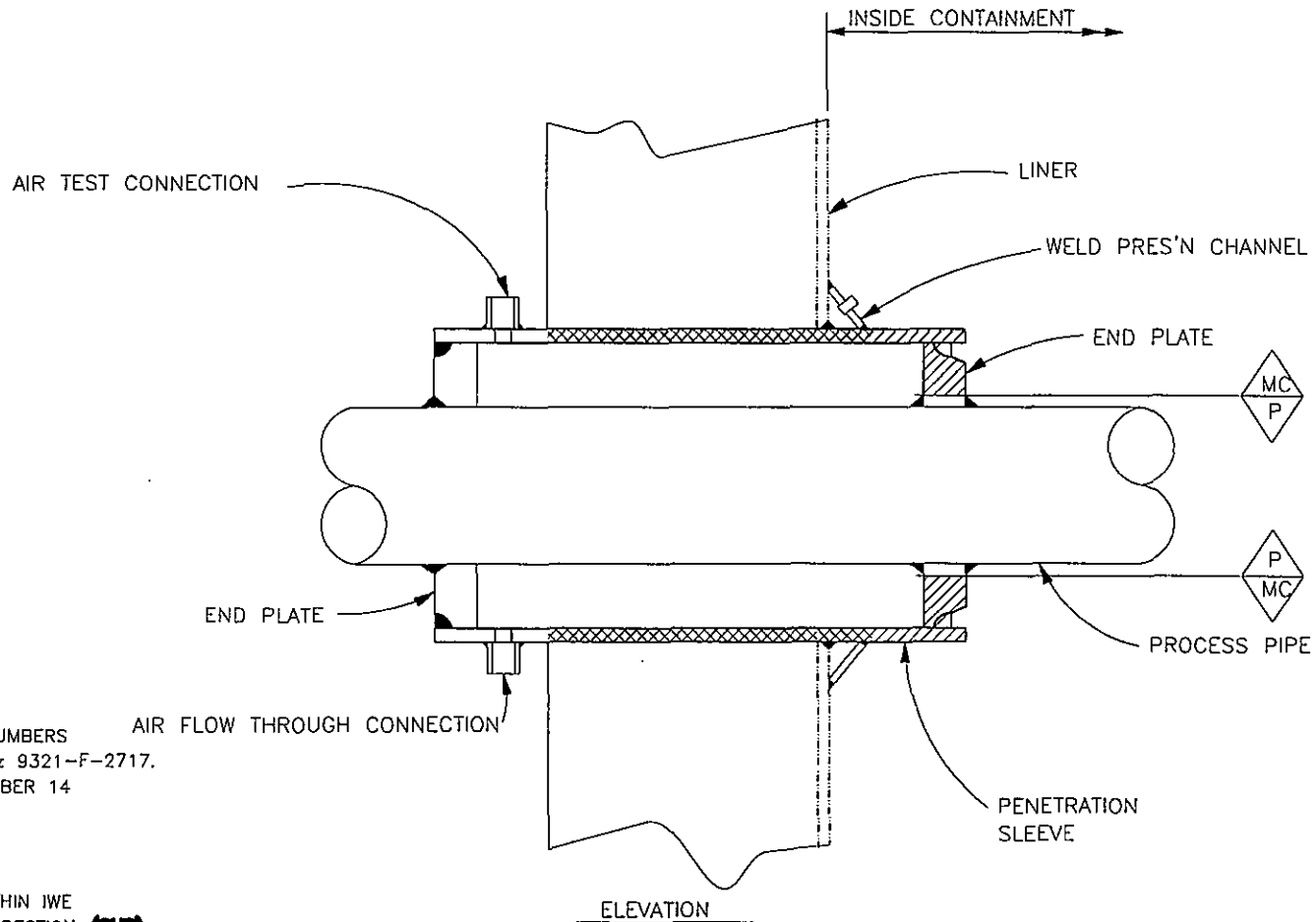
IWE-DET-004
MECHANICAL PENETRATION - HOT PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320888-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-004					

320888-00

320889-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-2713, 9321-F-2714 & 9321-F-2717.
 2. REFERENCE CB&I DRAWING NUMBER 14 (36C824).

- LEGEND:
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 - COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION
 - CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

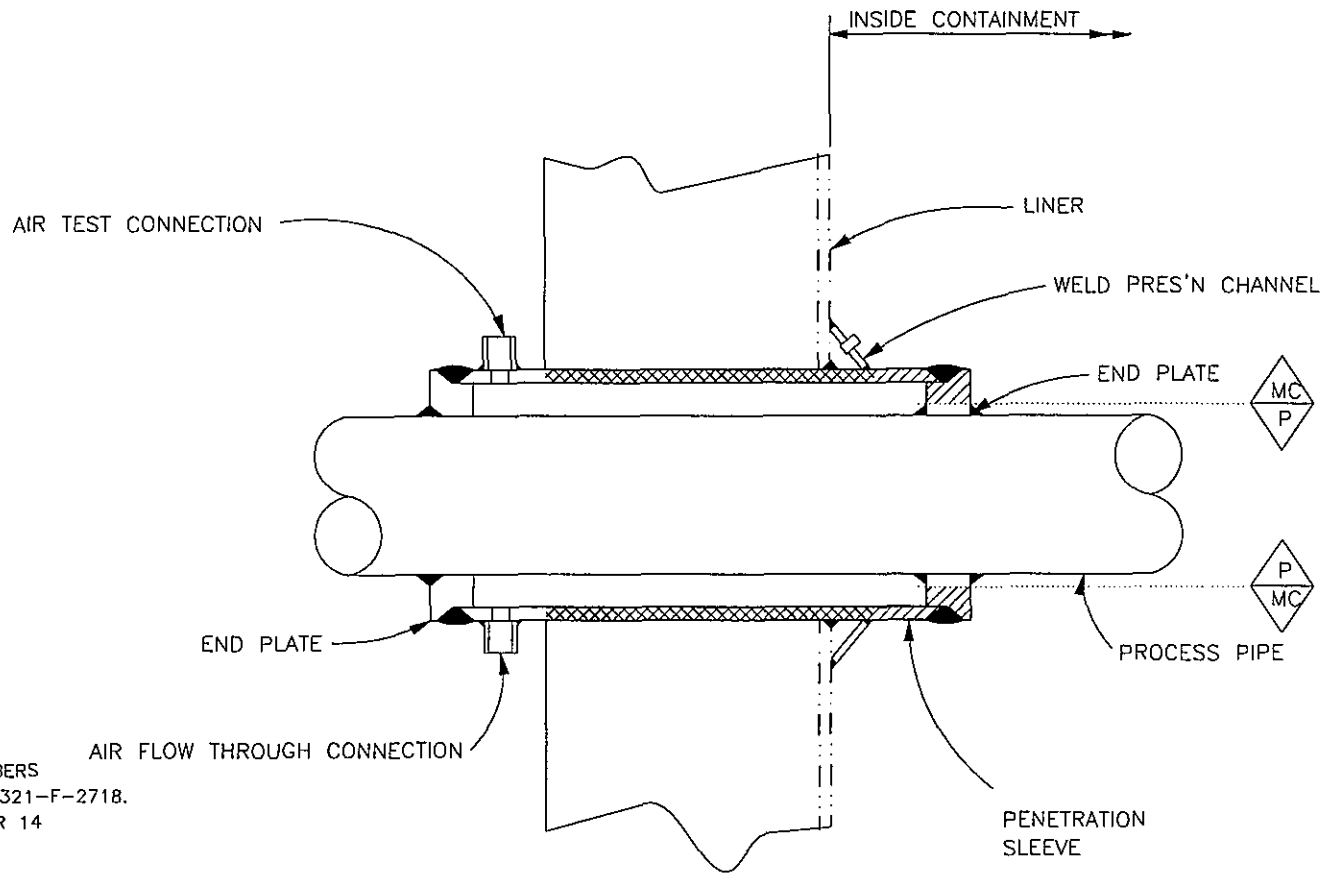
IWE-DET-005
MECHANICAL PENETRATION - COLD PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320889-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-005						

320889-00

320890-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS
9321-F-2713, 9321-F-2717 & 9321-F-2718.
 2. REFERENCE CB&I DRAWING NUMBER 14
(36C824).

- LEGEND:
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 - COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION
 - CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

ELEVATION

IWE-DET-006

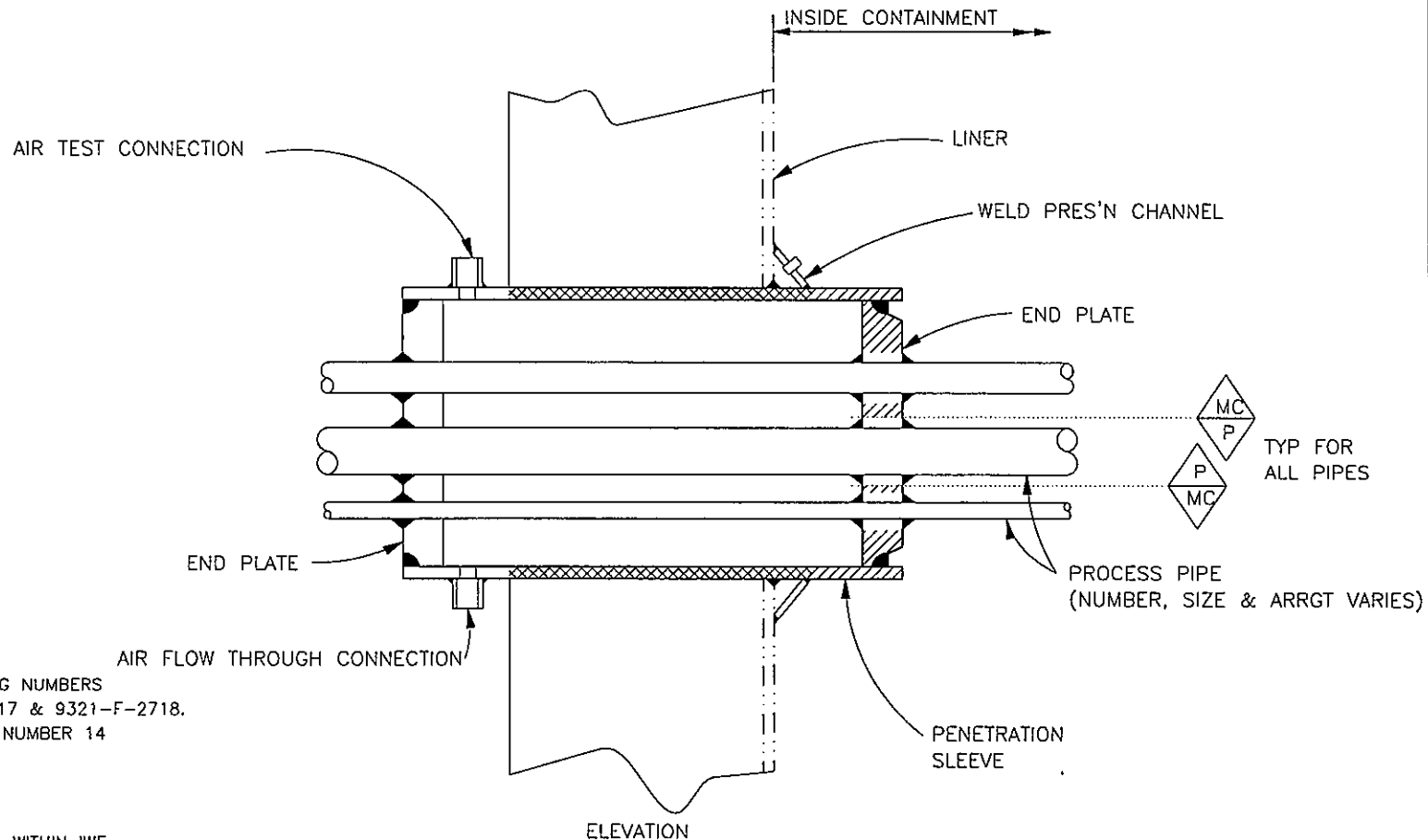
MECHANICAL PENETRATION - COLD PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320890-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-006						

320890-00

320891-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS
9321-F-2713, 9321-F-2717 & 9321-F-2718.
 2. REFERENCE CB&I DRAWING NUMBER 14
(36C824).

- LEGEND:
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 - COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION
 - CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

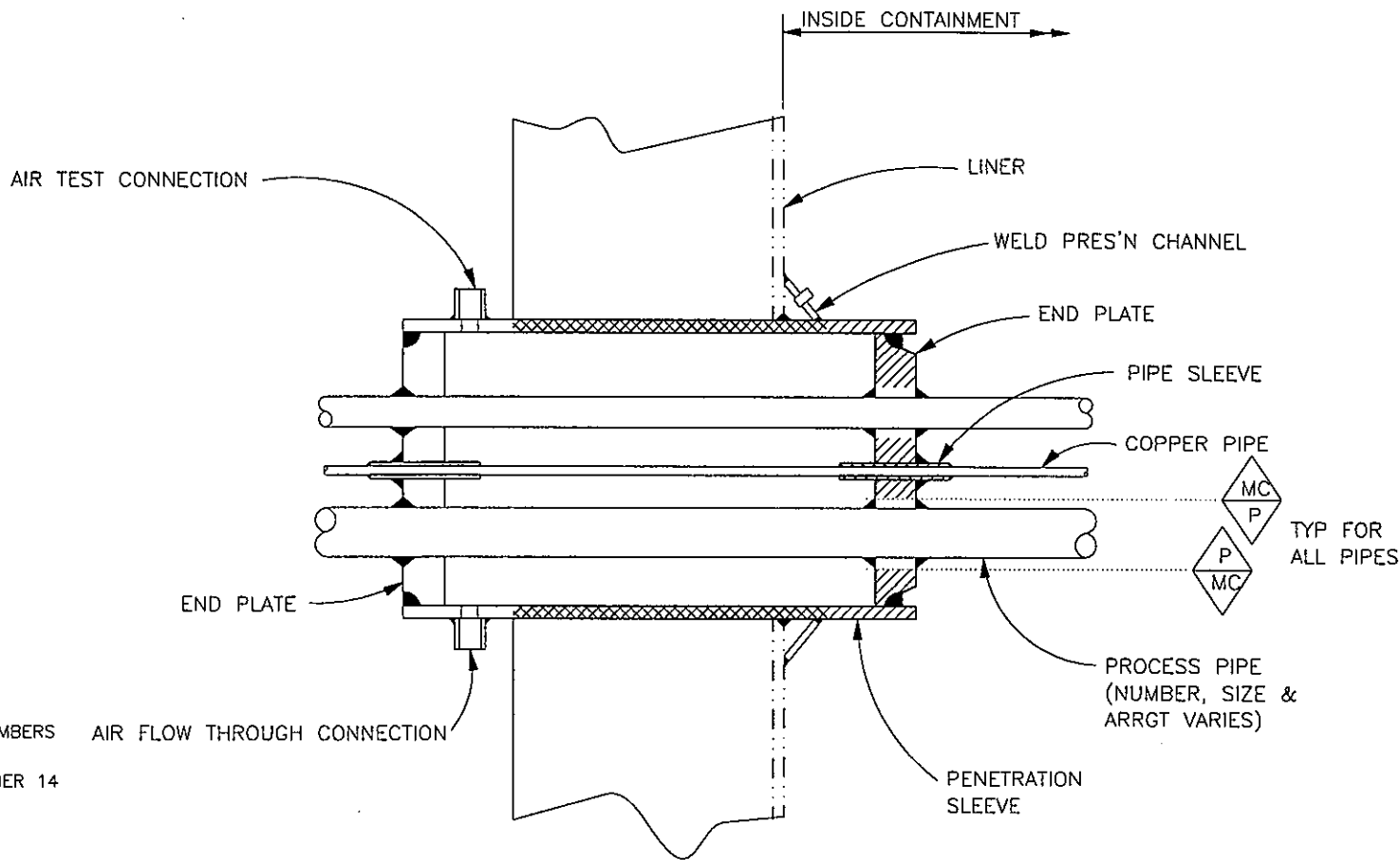
ELEVATION
IWE-DET-007
MECHANICAL PENETRATION - COLD PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320891-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL IWE-DET-007		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:

320891-00

320892-00



NOTES:

1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-2713 & 9321-F-2718.
2. REFERENCE CB&I DRAWING NUMBER 14 (36CB24).

LEGEND:

COMPONENT/SURFACE WITHIN IWE BOUNDARY REQUIRING INSPECTION (SUR)

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

CODE BOUNDARY: P= PIPING (CLASS A,B OR E), MC= CONTAINMENT LINER

ELEVATION

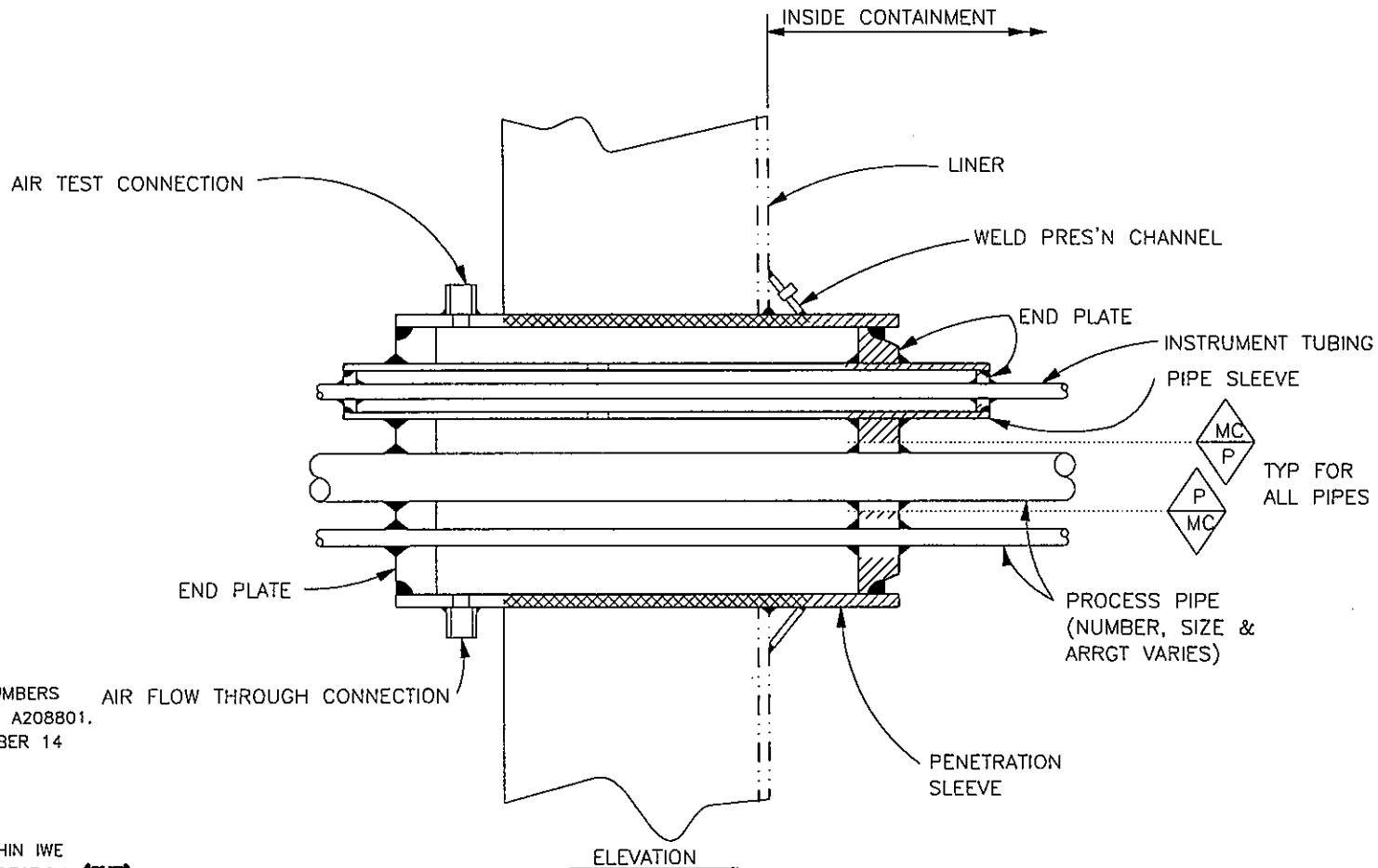
IWE-DET-008

MECHANICAL PENETRATION - COLD PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320892-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
IWE-DET-008						

320892-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-2713, 9321-F-2718 & A208801. AIR FLOW THROUGH CONNECTION
 2. REFERENCE CB&I DRAWING NUMBER 14 (36C824).

LEGEND:

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

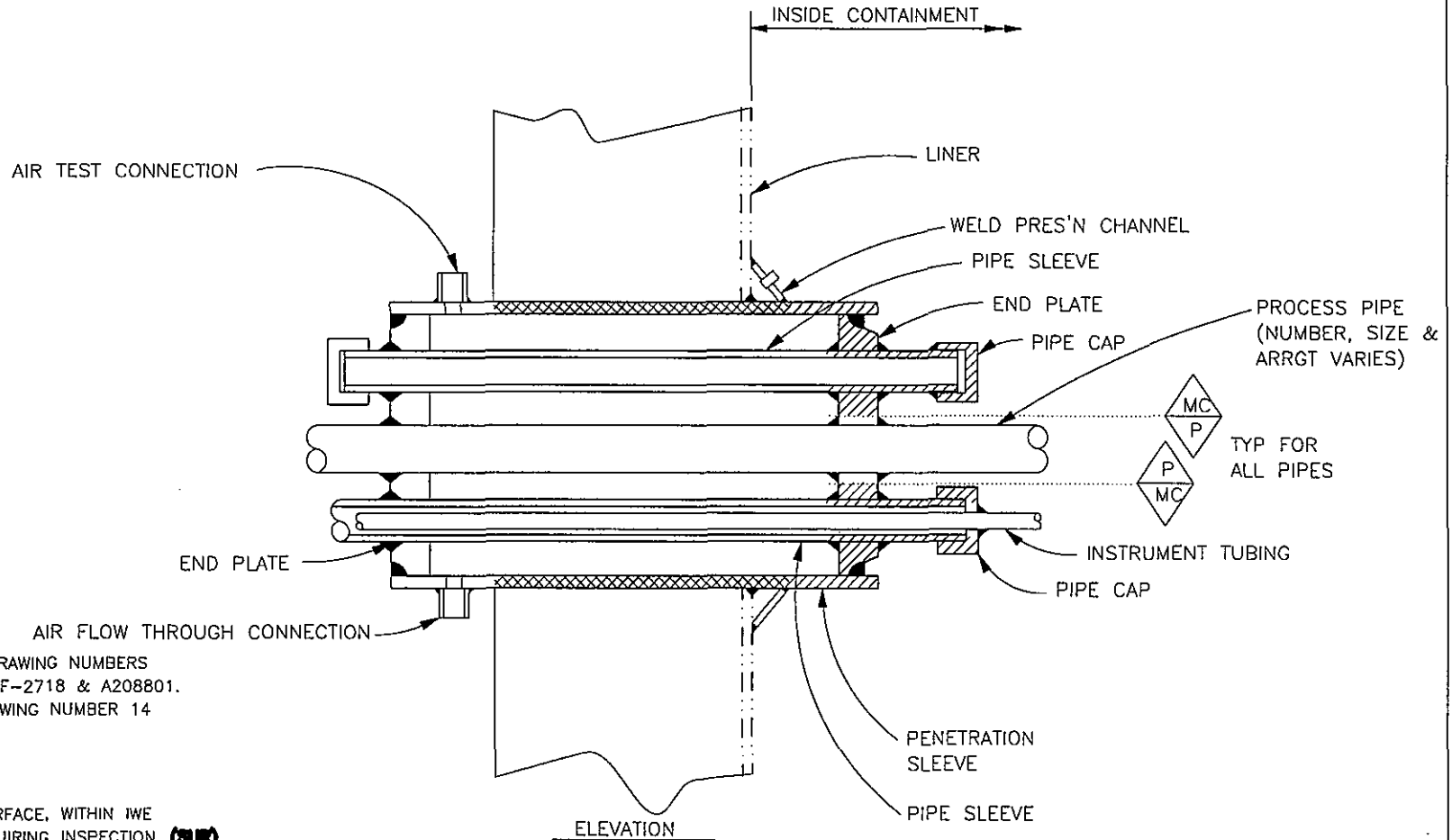
IWE-DET-009
MECHANICAL PENETRATION - COLD PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320893-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL IWE-DET-009			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:

320893-00

320894-00



NOTES:

1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-2713, 9321-F-2718 & A208801.
2. REFERENCE CB&I DRAWING NUMBER 14 (36C824).

LEGEND:

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

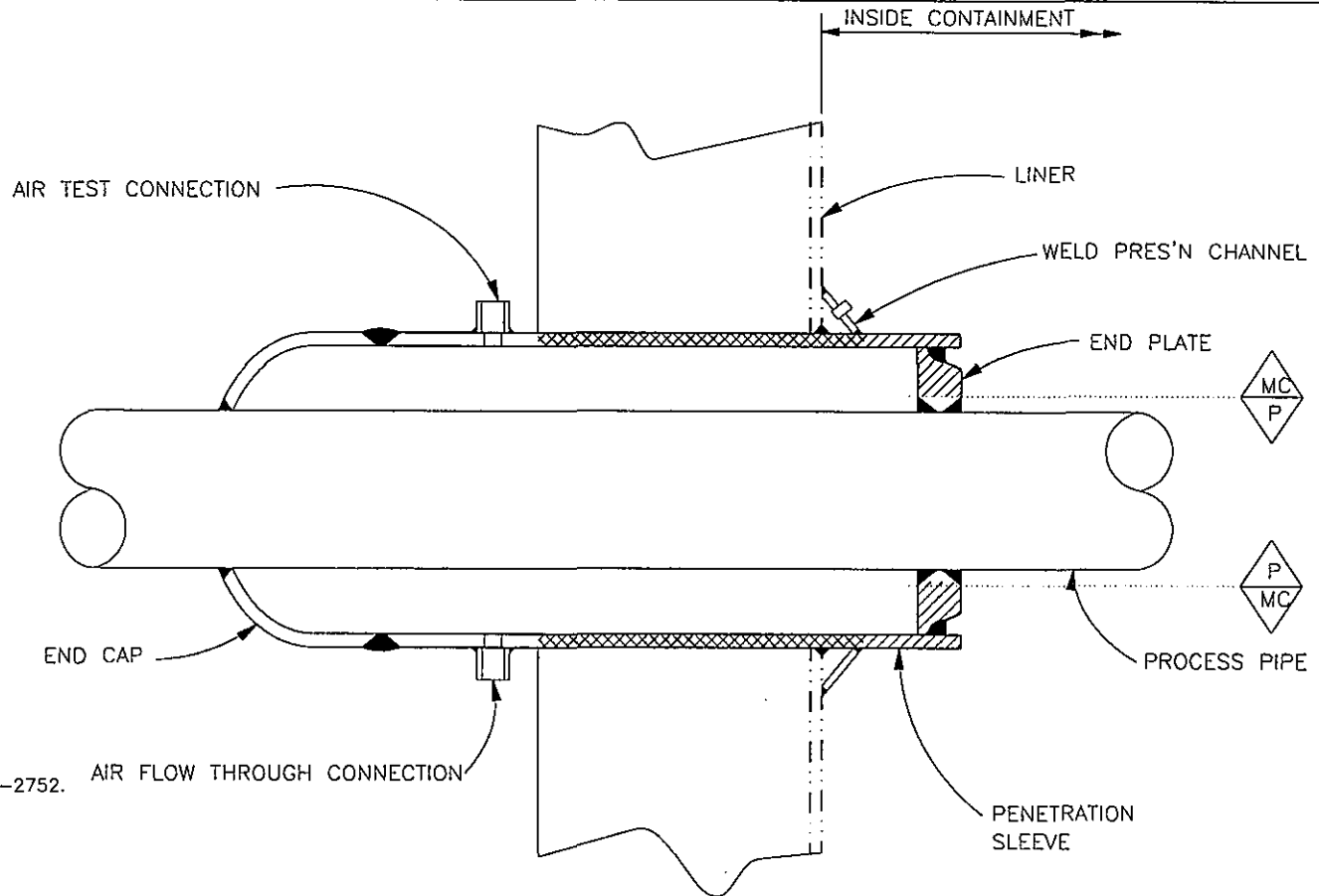
IWE-DET-010
MECHANICAL PENETRATION - COLD PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320894-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-010					

320894-00

320895-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS
9321-F-2714, 9321-F-2718 & 9321-F-2752.
 2. REFERENCE CB&I DRAWING NUMBER 14
(36C824).

LEGEND:

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SURF)

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

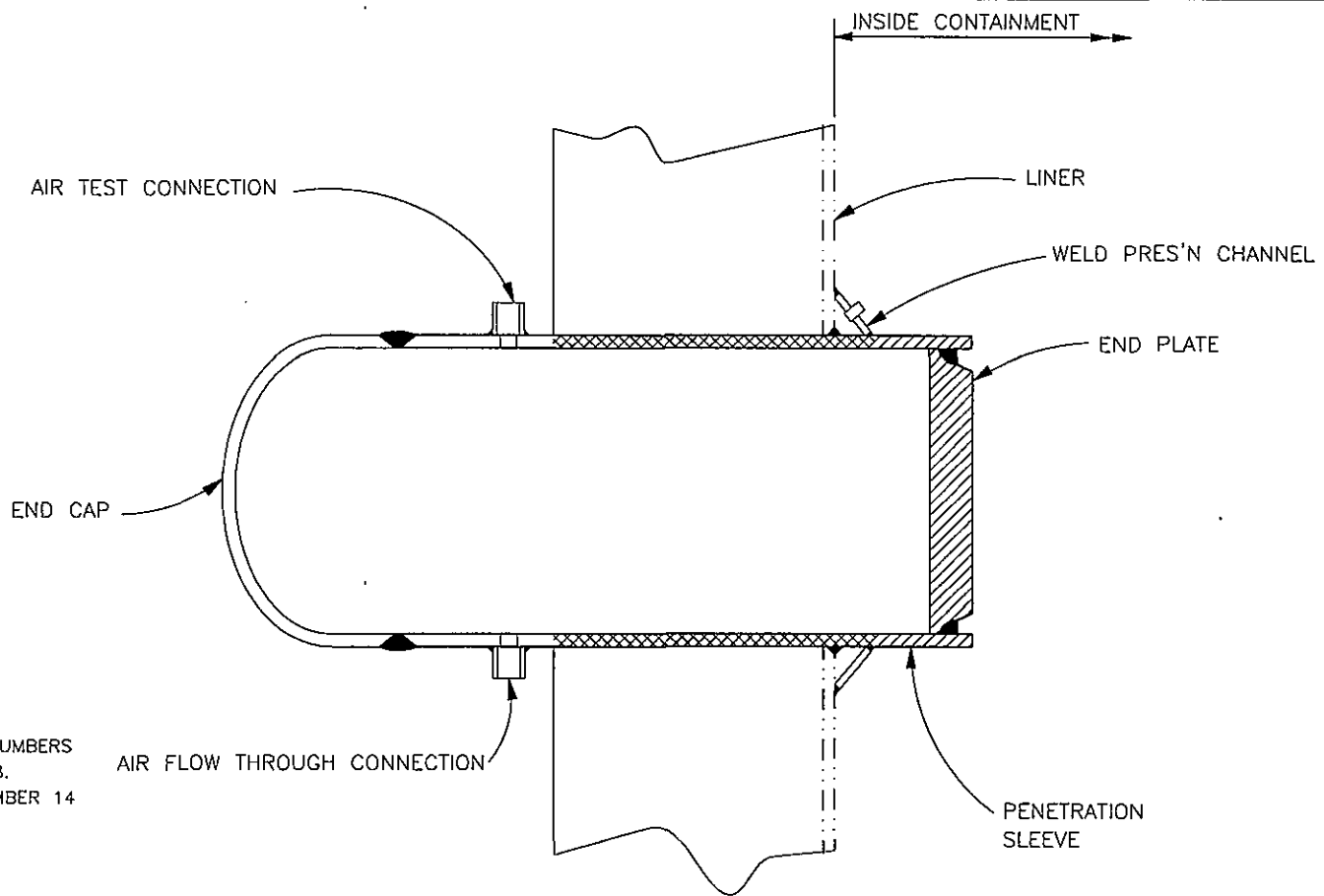
IWE-DET-011
MECHANICAL PENETRATION - COLD PIPING

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320895-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
IWE-DET-011						

320895-00

320896-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-2714 & 9321-F-2718.
 2. REFERENCE CB&I DRAWING NUMBER 14 (36C824).

- LEGEND:
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 - COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION
 - CODE BOUNDARY: P= PIPING (CLASS A, B OR E), MC= CONTAINMENT LINER

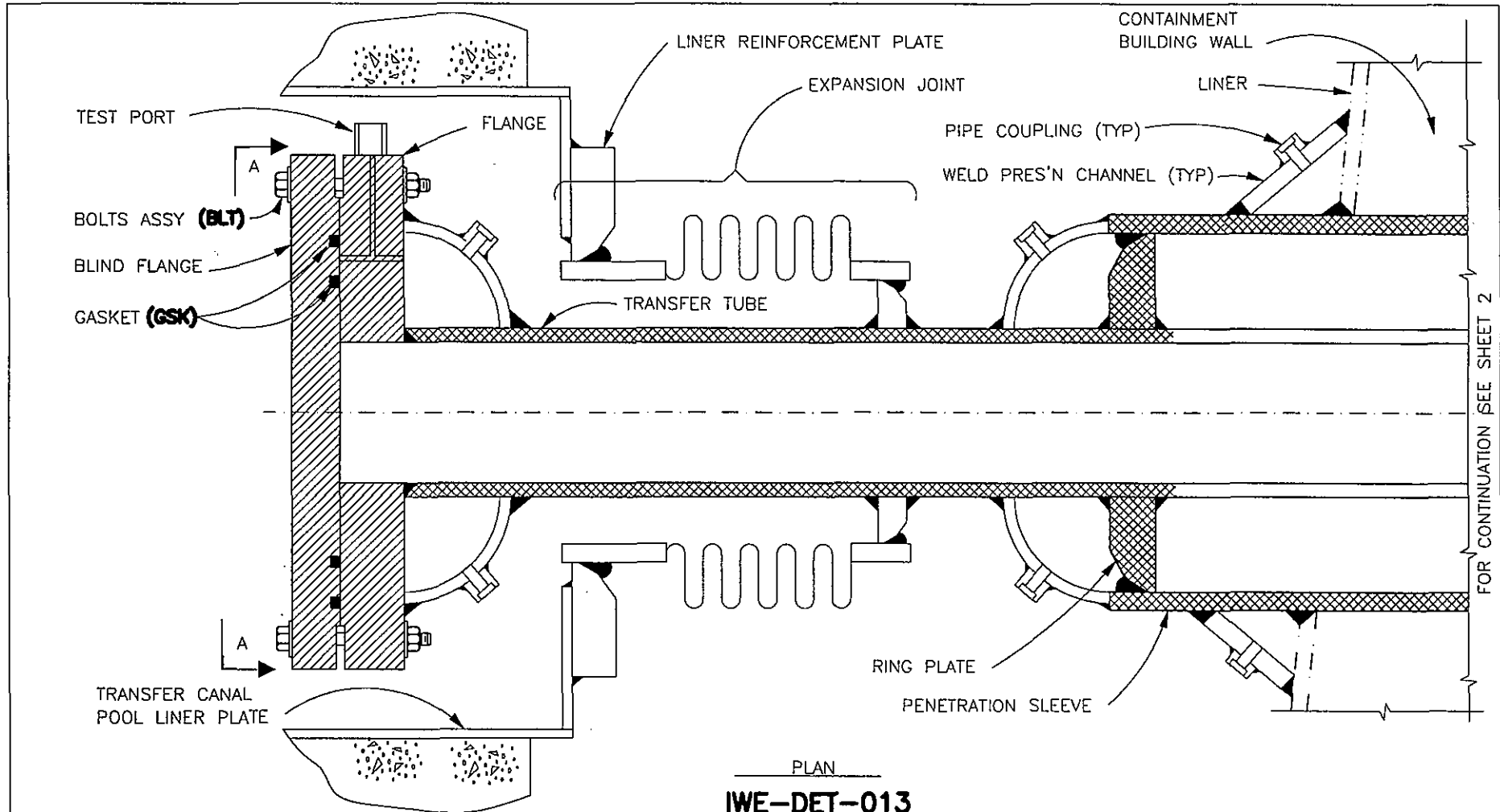
IWE-DET-012
MECHANICAL PENETRATION - SPARE

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320896-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-012						

320896-00

320897-00



FOR CONTINUATION SEE SHEET 2

PLAN
IWE-DET-013
FUEL TRANSFER TUBE

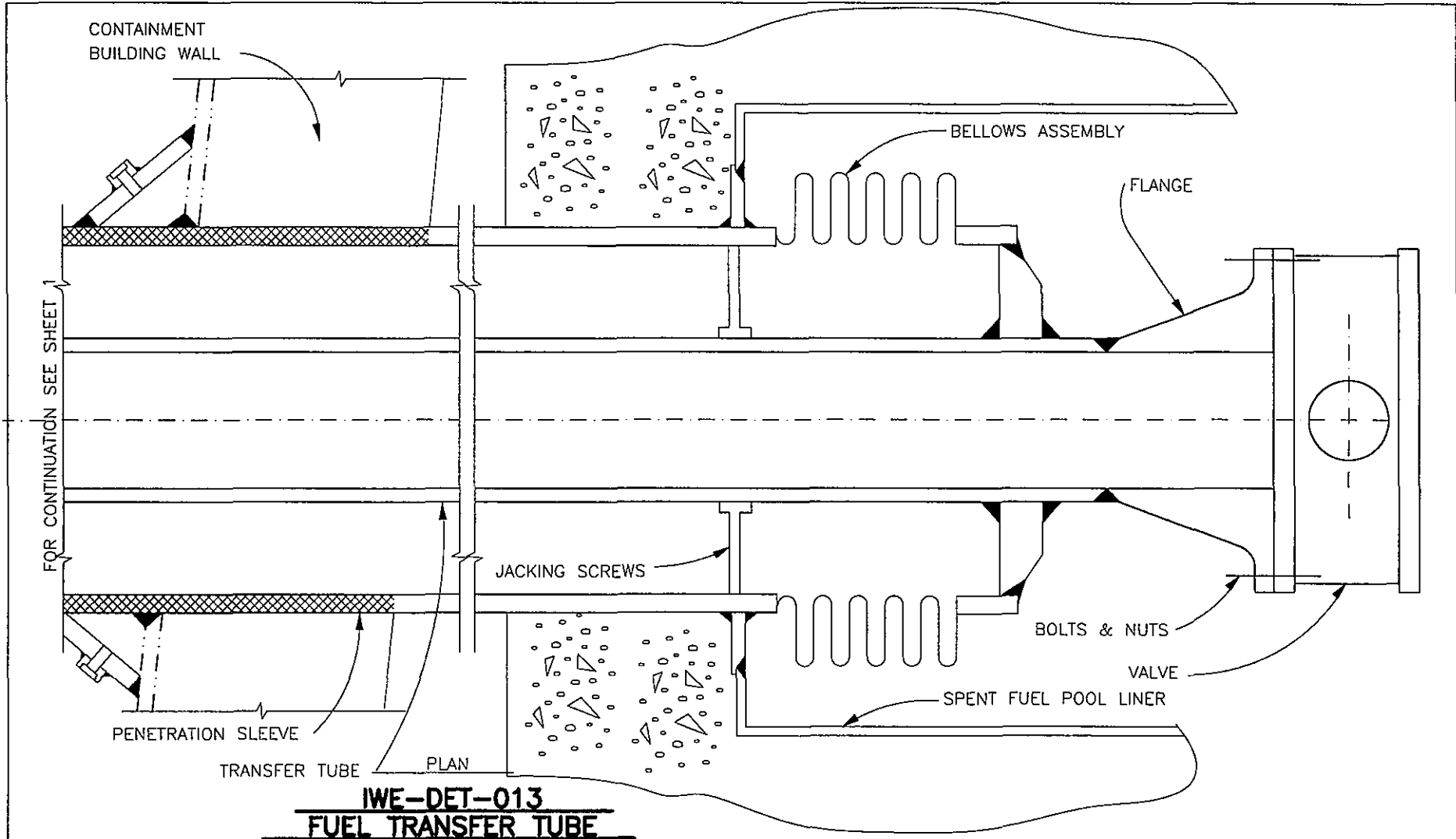
FOR NOTES & LEGEND SEE SHEET 3.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320897-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-013, SHEET 1						

320897-00

320898-00



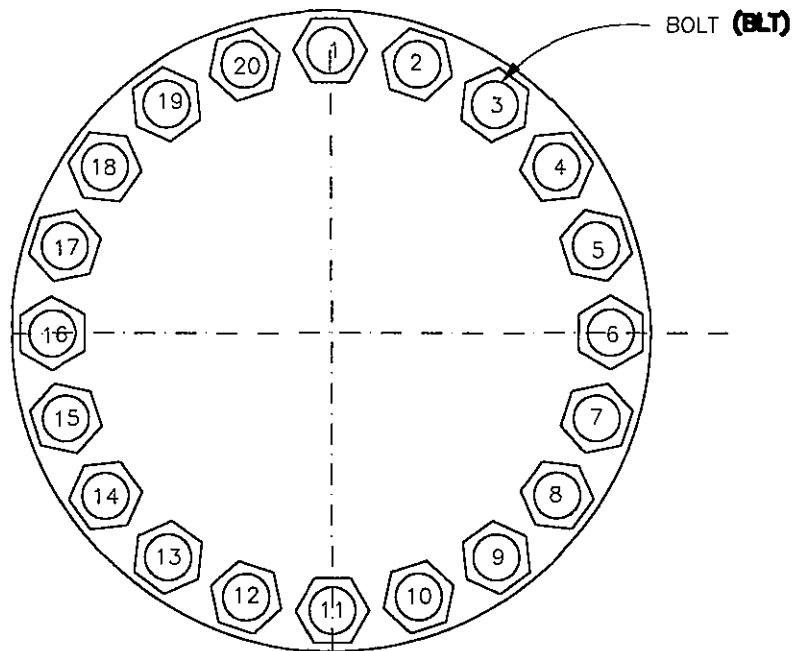
FOR NOTES & LEGEND SEE SHEET 3

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320898-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL IWE-DET-013, SHEET 2			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:

320898-00

320899-00



SECTION A

IWE-DET-013
MECHANICAL PENETRATION - FUEL TRANSFER TUBE

NOTES:

1. REFERENCE DESIGN DRAWING NUMBER 9321-F-2715.
2. REFERENCE CB&I DRAWING NUMBER 14 (36C824).

LEGEND:

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION **(BLI)**

COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION



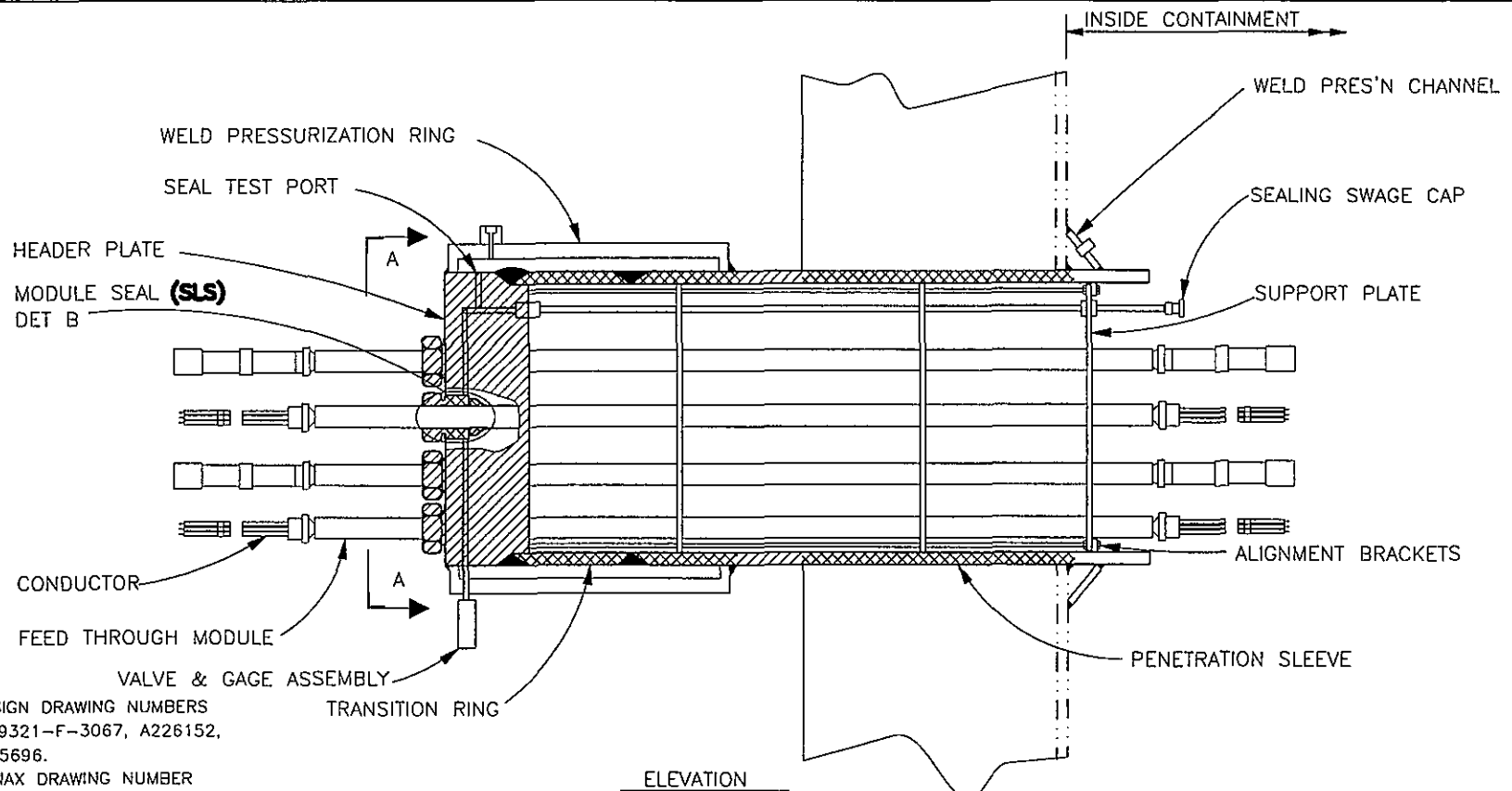
CODE BOUNDARY: P= PIPING (CLASS A, B OR E),
 MC= CONTAINMENT LINER

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320899-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:	PROJECT ENGINEER:		
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-013, SHEET 3					

320899-00

32000-00



ELEVATION

IWE-DET-014
ELECTRICAL PENETRATION - CONAX

NOTES:

1. REFERENCE DESIGN DRAWING NUMBERS
9321-F-1359, 9321-F-3067, A226152,
A226154 & A225696.
2. REFERENCE CONAX DRAWING NUMBER
7799-10001 (1982M2005).
3. REFERENCE CB&I DRAWING NUMBER
14 (36C824).

LEGEND:

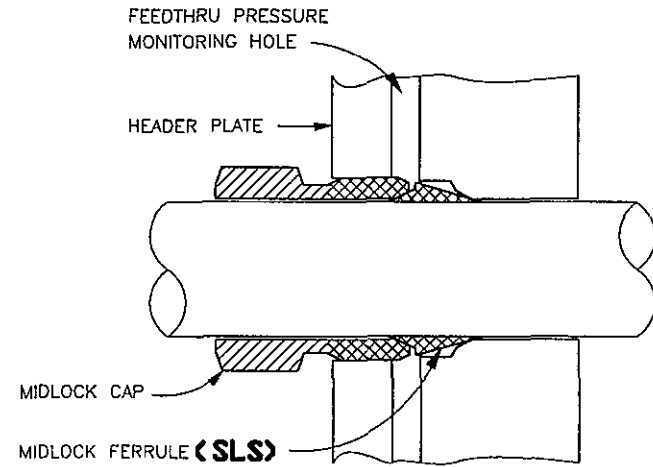
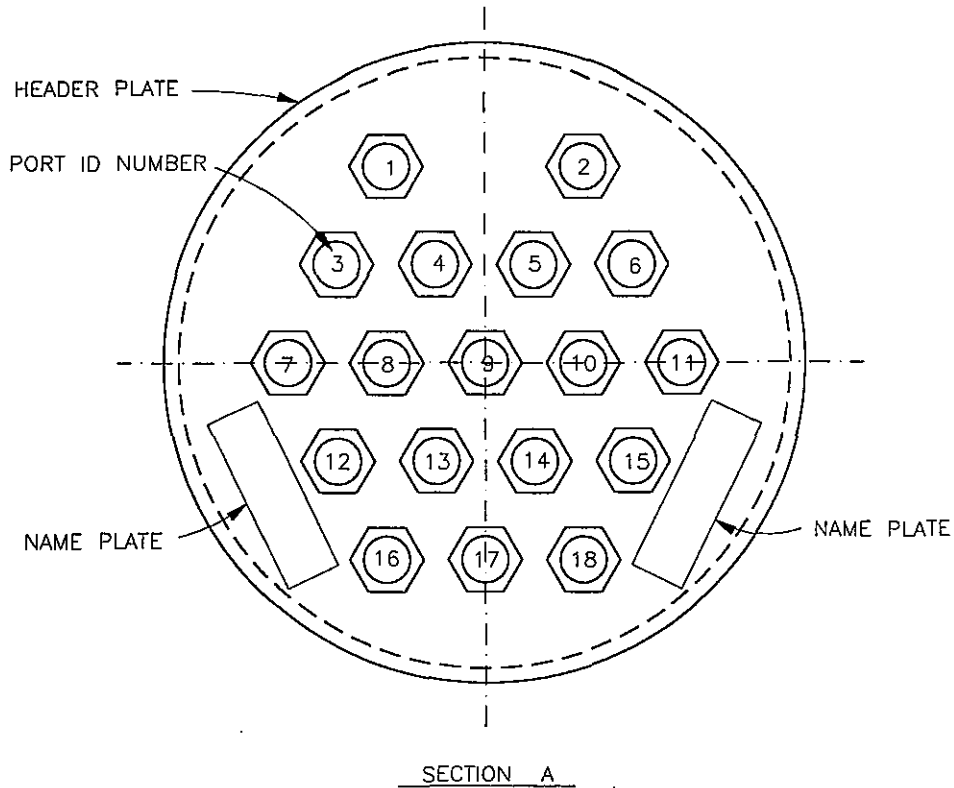
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320900-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL.						
IWE-DET-014, SHEET 1						

320900-00

320901-00



IWE-DET-014
ELECTRICAL PENETRATION - CONAX

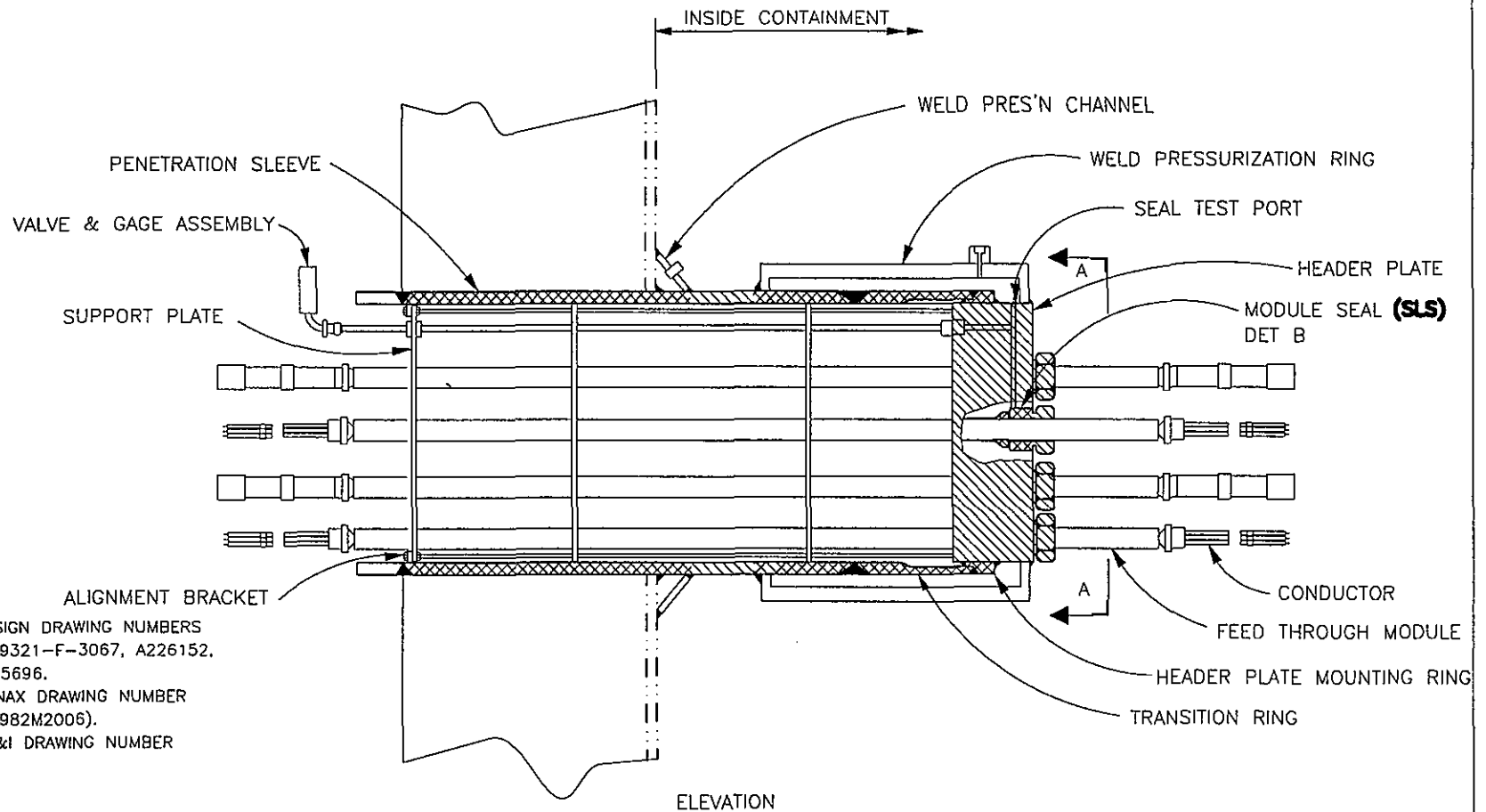
FOR NOTES & LEGEND SEE SHEET 1

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320901-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI	DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:	
	LINER INSPECTION DETAIL				
	IWE-DET-014, SHEET 2				

320901-00

320902-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS
9321-F-1359, 9321-F-3067, A226152,
A226154 & A225696.
 2. REFERENCE CONAX DRAWING NUMBER
7799-10002 (1982M2006).
 3. REFERENCE CB&I DRAWING NUMBER
14 (36C824).

- LEGEND:
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 - COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

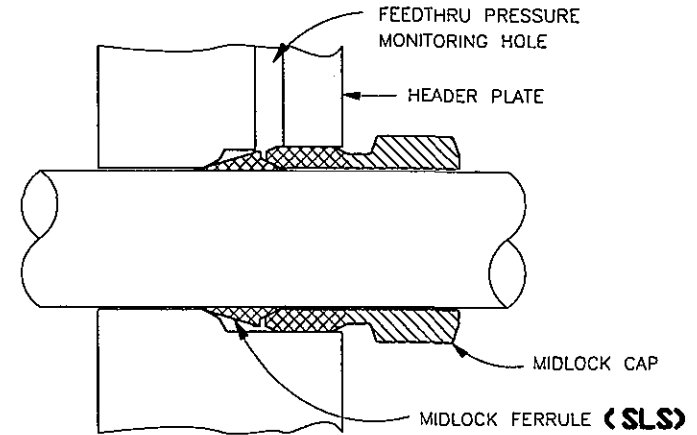
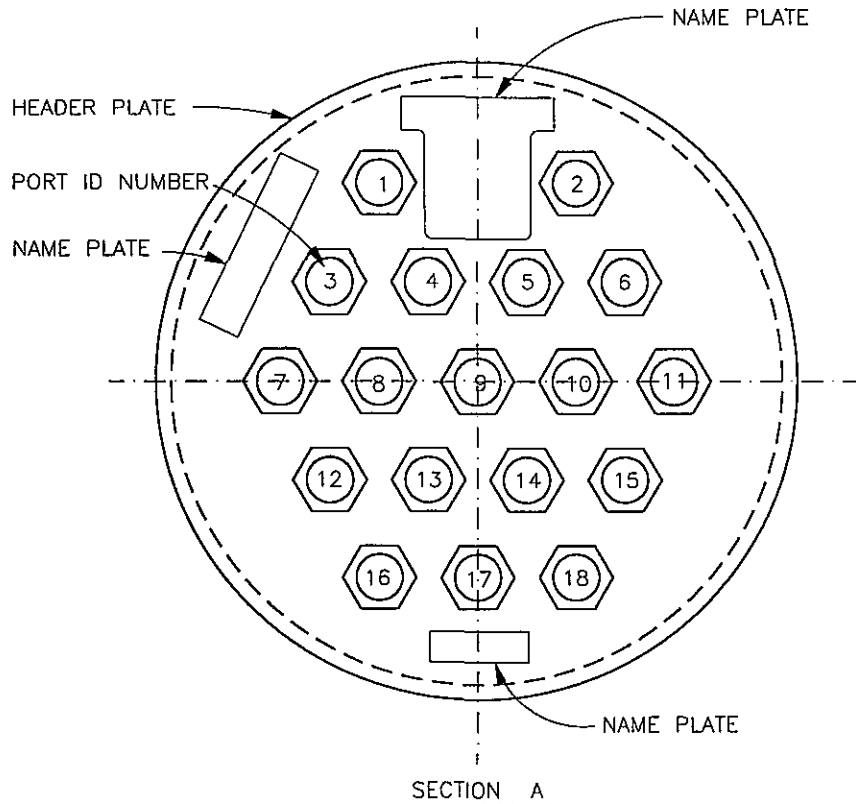
ELEVATION
IWE-DET-015
ELECTRICAL PENETRATION - CONAX

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320902-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY		PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL IWE-DET-015, SHEET 1			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:

320902-00

320903-00



DETAIL B
FEED THRU MODULE SEAL

IWE-DET-015
ELECTRICAL PENETRATION - CONAX

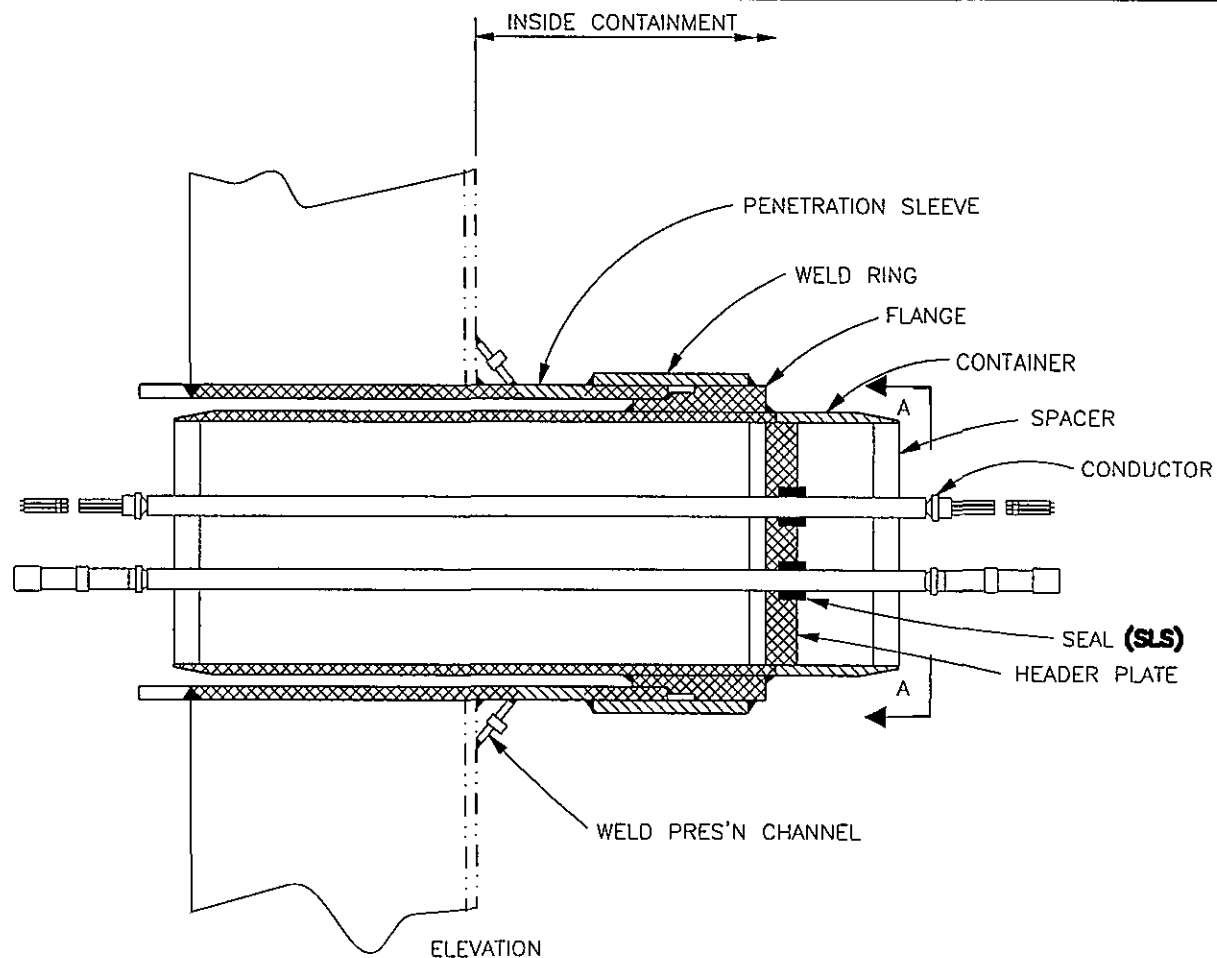
FOR NOTES & LEGEND SEE SHEET 1

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320903-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI	DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:	
	LINER INSPECTION DETAIL				
	IWE-DET-015, SHEET 2				

320903-00

320904-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-1359 & 9321-F-3067.
 2. REFERENCE CROUSE-HINDS DRAWING NUMBER
 3. REFERENCE CB&I DRAWING NUMBER 14 (36C824).

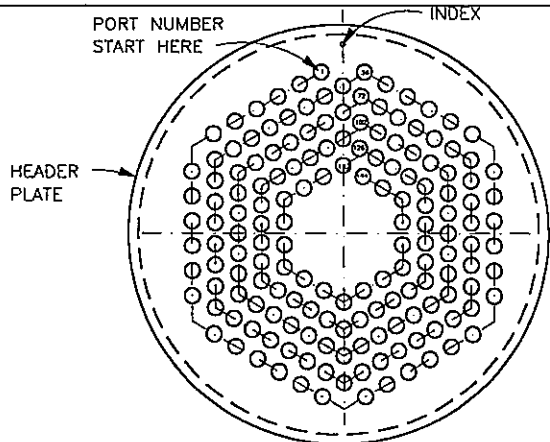
- LEGEND:
- ▨ COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUI)
 - ▩ COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

IWE-DET-016
ELECTRICAL PENETRATION - CROUSE-HINDS

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

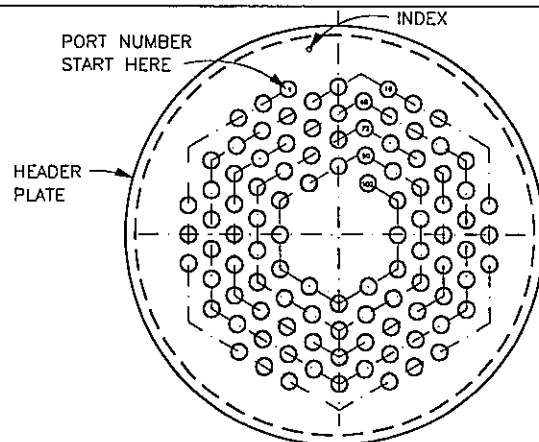
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	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-016, SHEET 1						

320904-00



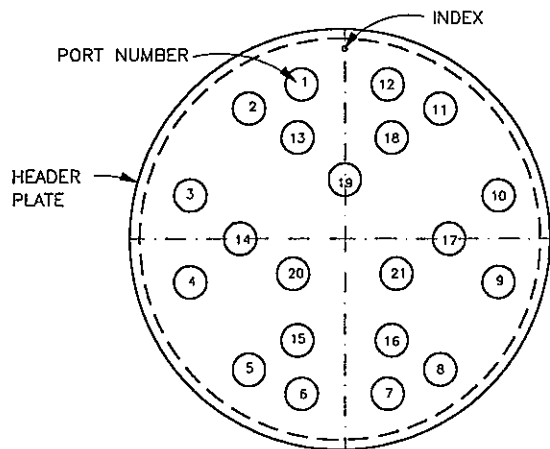
SECTION A

THE PORT NUMBER START FROM UPPER LEFT HAND AND RUNS COUNTERCLOCKWISE INWARD. FOR PENETRATIONS EP-H31, H37, H38, H42, H43, H44, H48, H49, H50, H55 & H56.



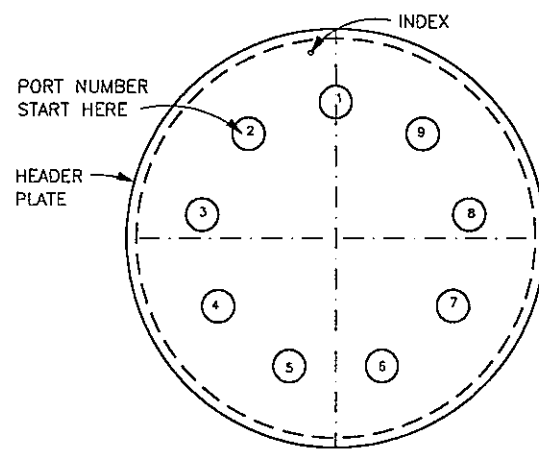
SECTION A

THE PORT NUMBER START FROM UPPER LEFT HAND AND RUNS COUNTERCLOCKWISE INWARD. FOR PENETRATIONS EP-H58, H59, H60 & H61.



SECTION A

FOR PENETRATIONS EP-H63, H64, H67, H68 & H70.



SECTION A

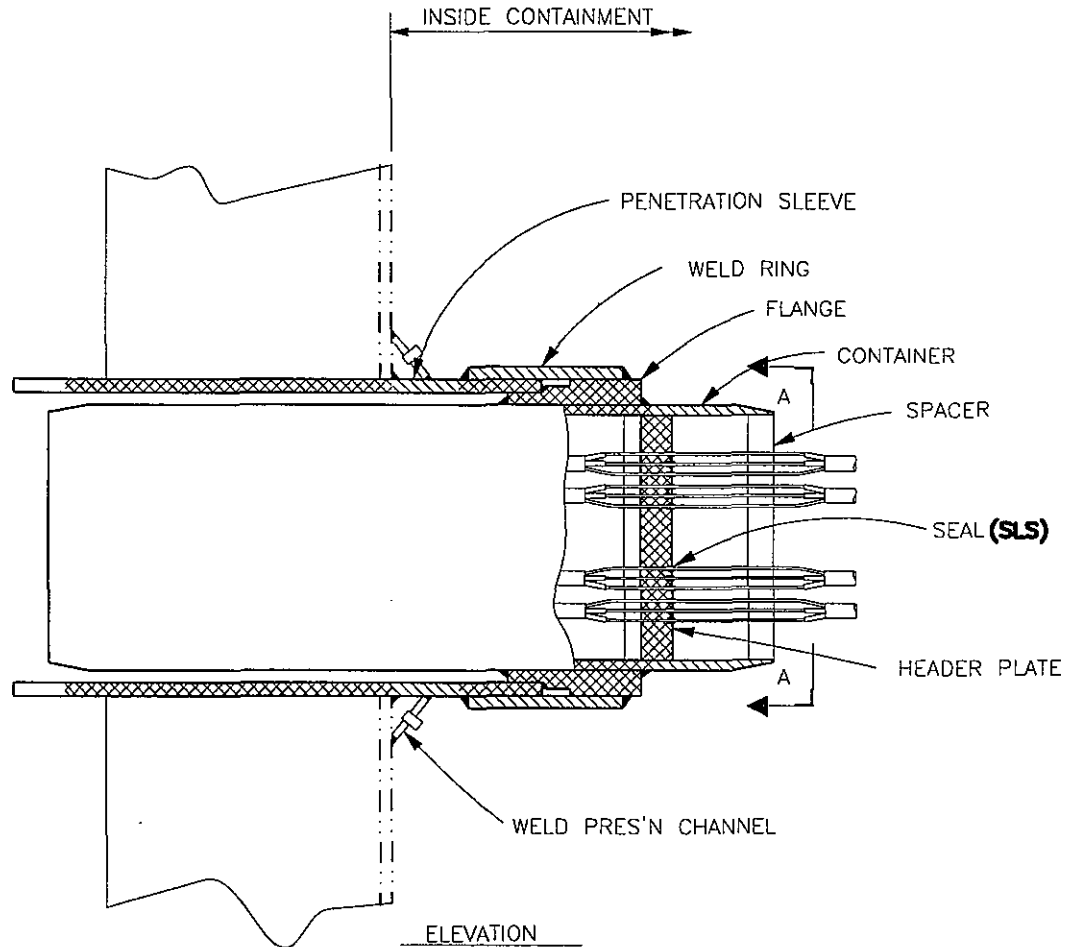
FOR PENETRATIONS EP-H45, H47, H51, H54, H57 & H69.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

IWE-DET-016
ELECTRICAL PENETRATION - CROUSE-HINDS

FOR NOTES & LEGEND SEE SHEET 1

CON EDISON	DWG NO. 320905-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-016, SHEET 2						



NOTES:

1. REFERENCE DESIGN DRAWING NUMBERS
9321-F-1359 & 9321-F-3067.
2. REFERENCE CROUSE-HINDS DRAWING NUMBER
3. REFERENCE CB&I DRAWING NUMBER
14 (36C824).

LEGEND:

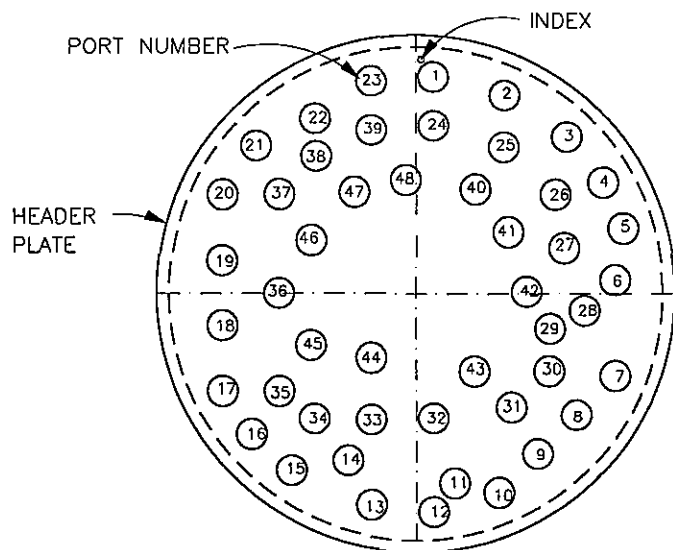
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

IWE-DET-017
ELECTRICAL PENETRATION - CROUSE-HINDS

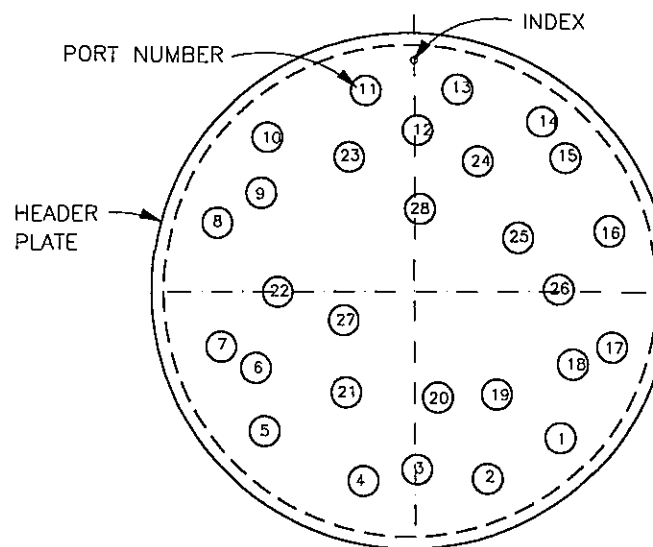
COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320906-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-017, SHEET 1					

320906-00



SECTION A
FOR PENETRATIONS EP-H33, H36, H39 & H41.



SECTION A
FOR PENETRATIONS EP-H19, H21, H22, H24, H26, H29, H34, H52 & H53.

IWE-DET-017
ELECTRICAL PENETRATION - GROUSE-HINDS

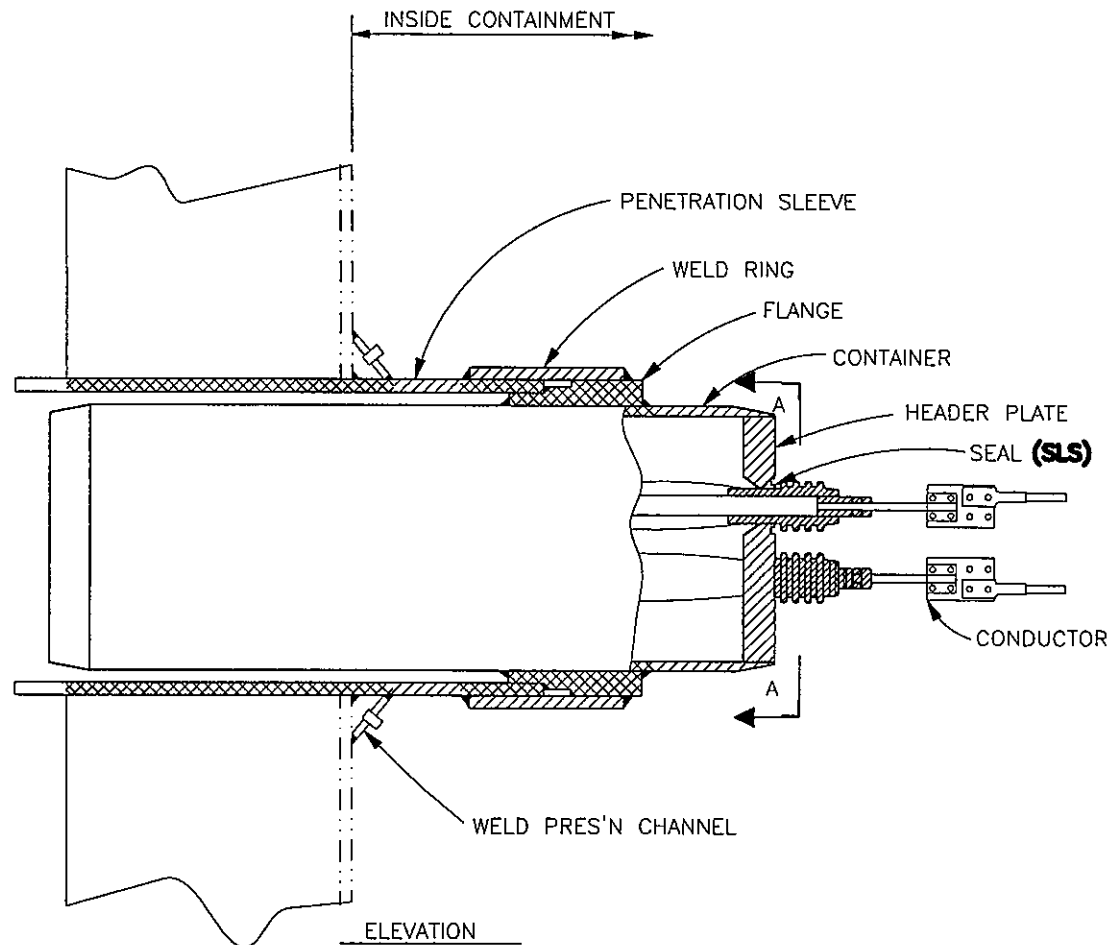
FOR NOTES & LEGEND SEE SHEET 1

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320907-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-017, SHEET 2						

320907-00

320908-00



- NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS 9321-F-1359 & 9321-F-3067.
 2. REFERENCE CROUSE-HINDS DRAWING NUMBER .
 3. REFERENCE CB&I DRAWING NUMBER 14 (36C824).

- LEGEND:
- COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 - COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

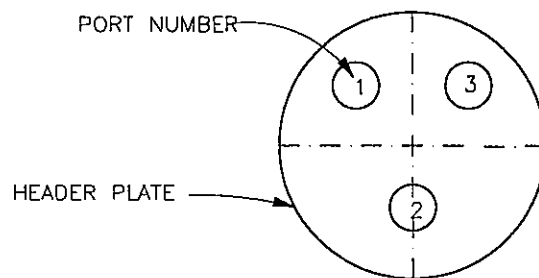
IWE-DET-018
ELECTRICAL PENETRATION - CROUSE-HINDS

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320908-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL IWE-DET-018, SHEET 1			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:

320908-00

320909-00



SECTION A

FOR PENETRATIONS EP-H11, H12, H13, H14, 15, H16, H17 & H18.

IWE-DET-018
ELECTRICAL PENETRATION - CROUSE-HINDS

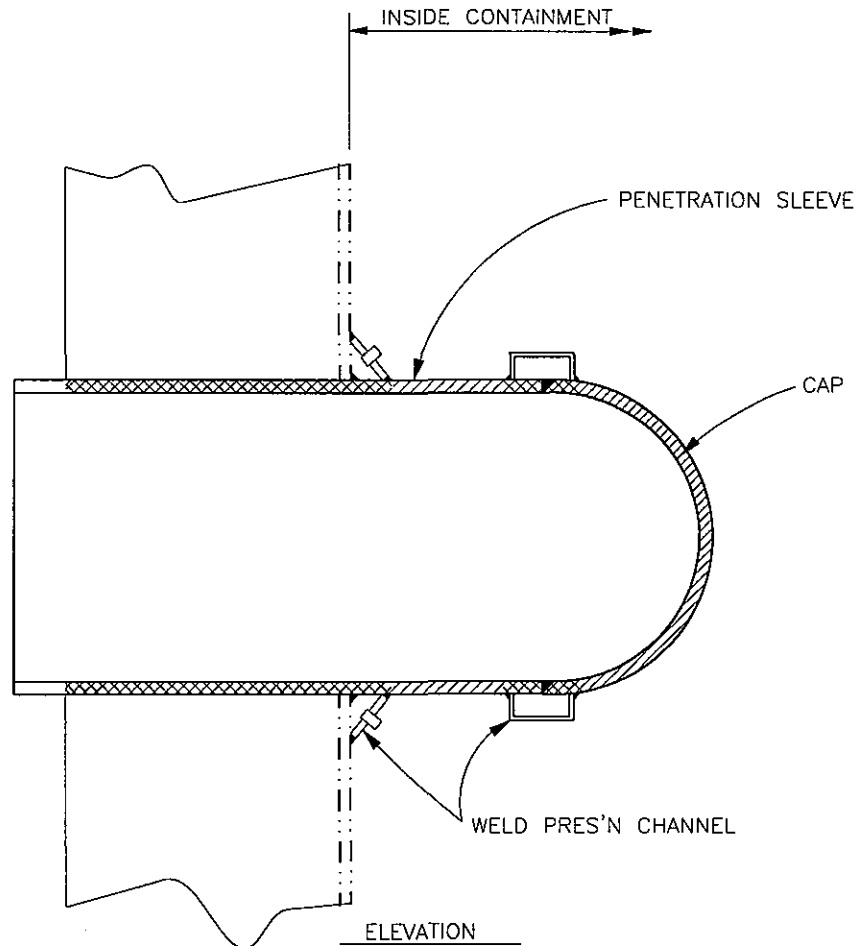
FOR NOTES & LEGEND SEE SHEET 1

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED



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	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI	DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:	
	LINER INSPECTION DETAIL				
	IWE-DET-018, SHEET 2				

320909-00

320910-00



NOTES:
1. REFERENCE DESIGN DRAWING NUMBERS
9321-F-1359 & 9321-F-3067.

LEGEND:
 COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

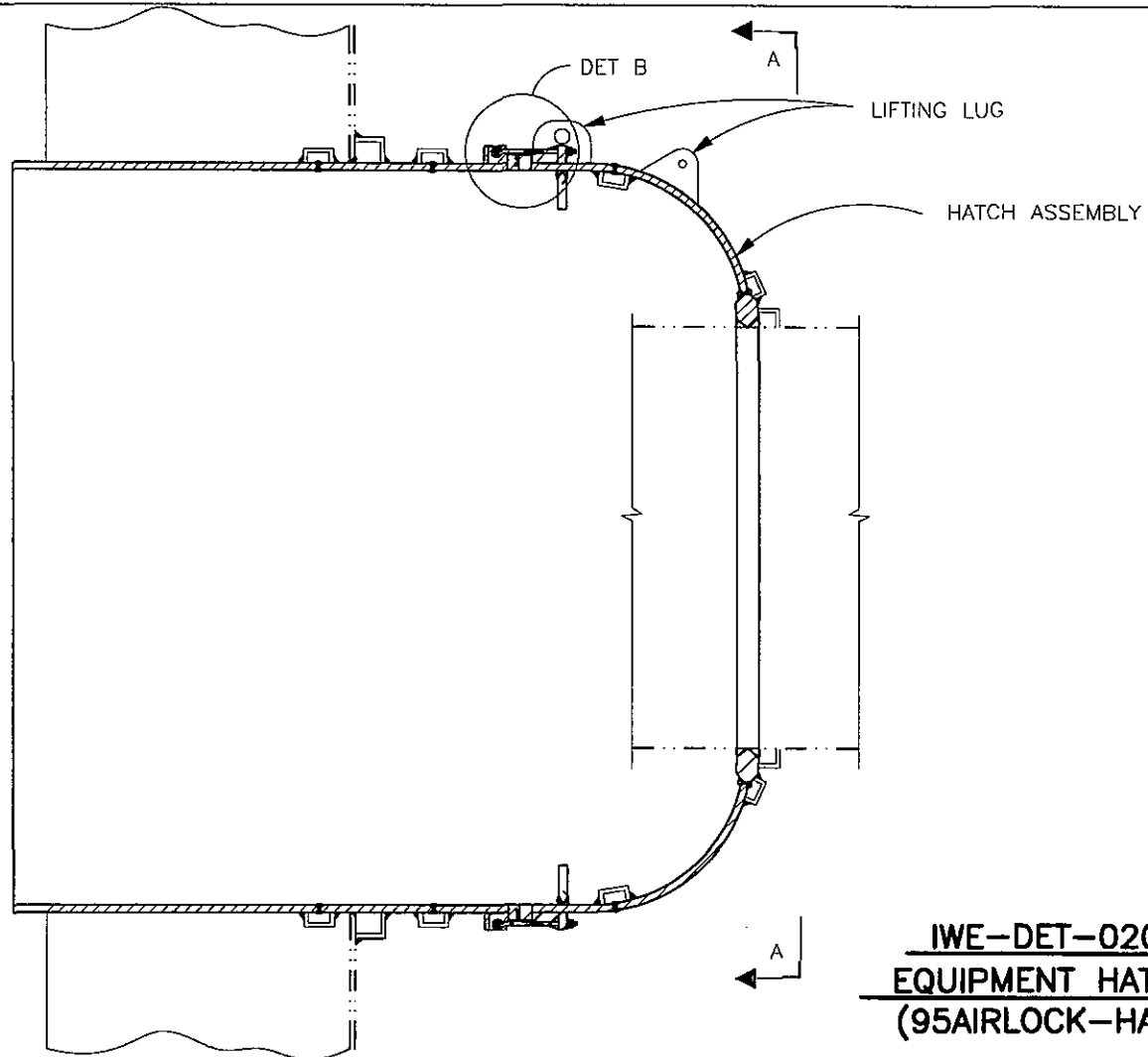
IWE-DET-019
ELECTRICAL PENETRATION - SPARE

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320910-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL IWE-DET-019			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:

320910-00

320912-00



NOTES:
 1. REFERENCE CB&I DRAWING NUMBERS
 180 (1974M6922) & 181 (1974M6920).

LEGEND:
 COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

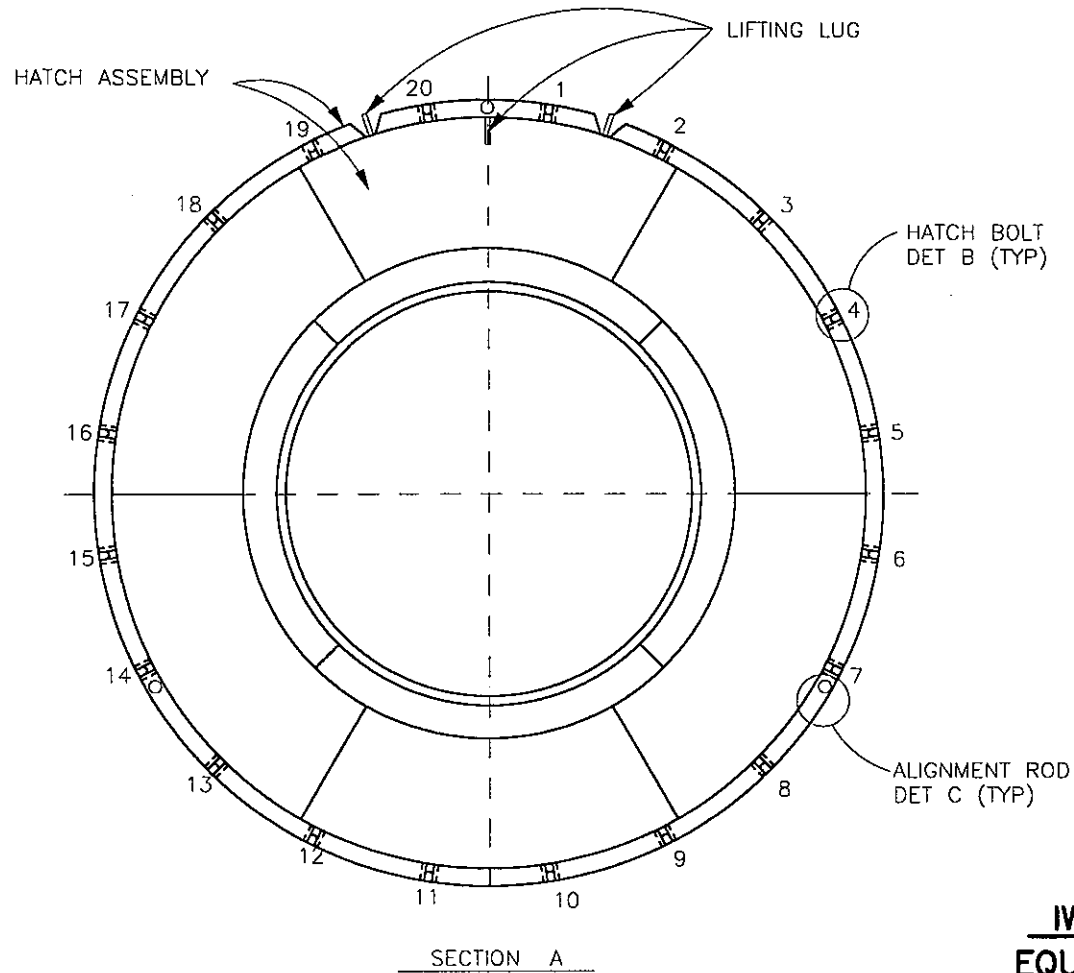
IWE-DET-020
EQUIPMENT HATCH
(95AIRLOCK-HAT)

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320912-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-020, SHEET 1						

320912-00

320913-00



IWE-DET-020
EQUIPMENT HATCH
(95AIRLOCK-HAT)

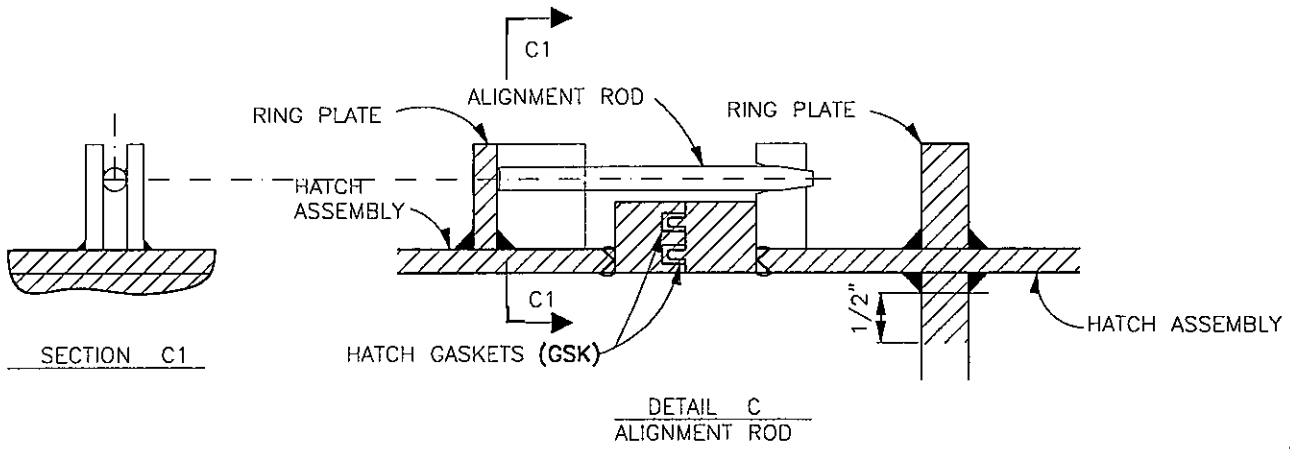
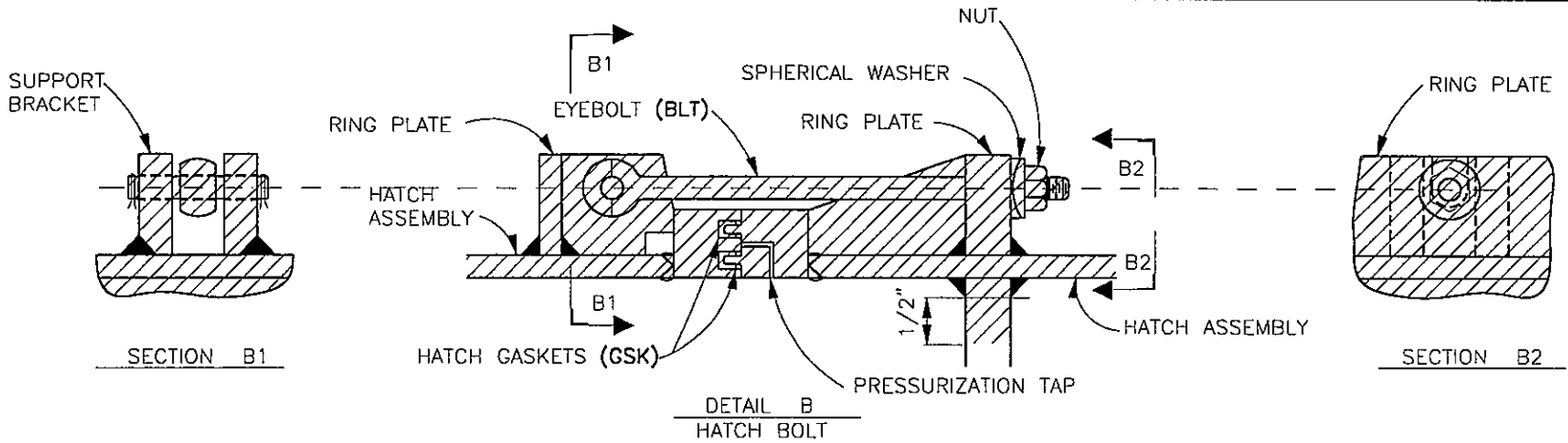
FOR NOTES & LEGEND SEE SHEET 1.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320913-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
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TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-020, SHEET 2					

320913-00

320914-00



**IWE-DET-020
EQUIPMENT HATCH
(95AIRLOCK-HAT)**

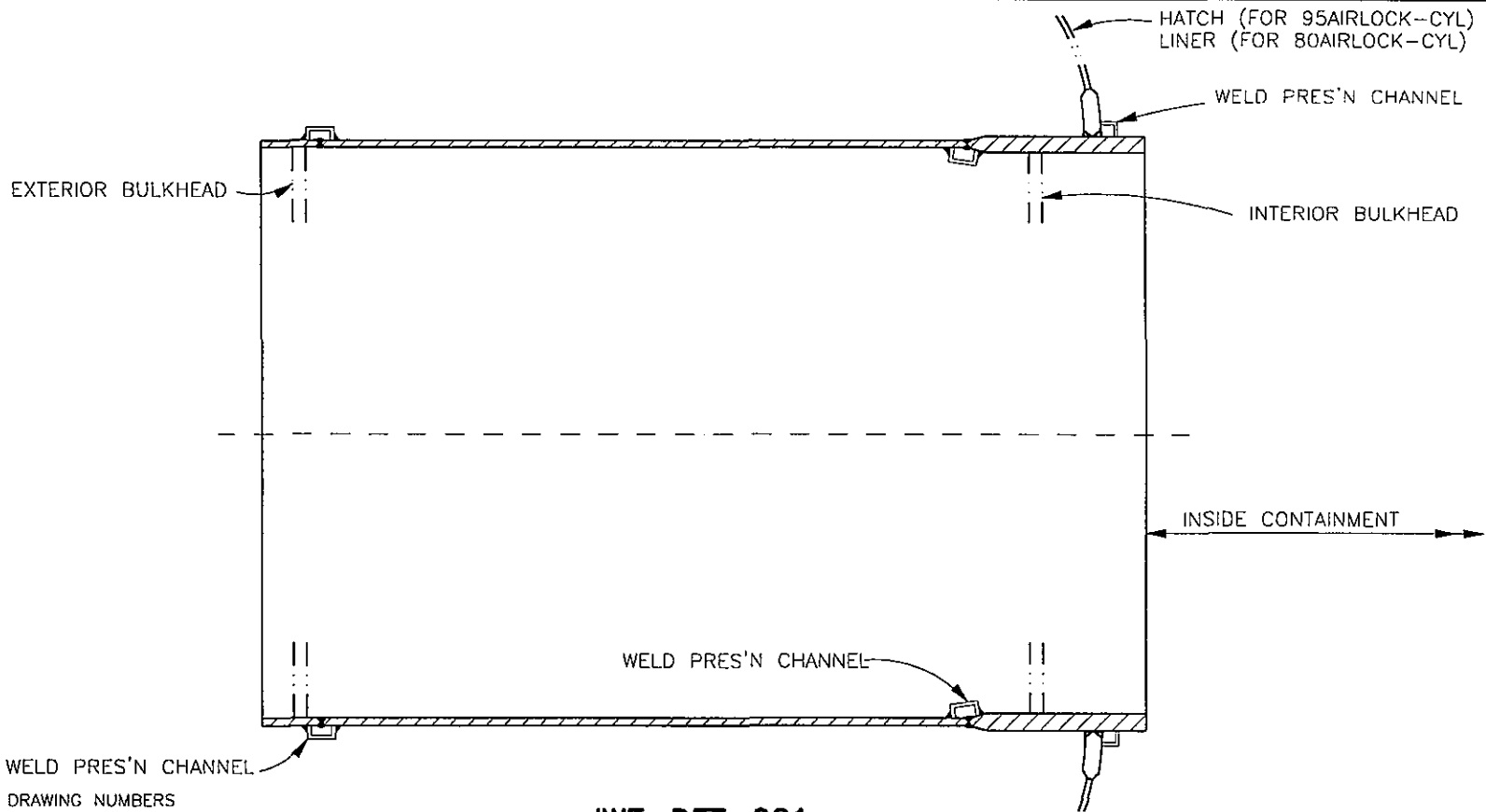
FOR NOTES & LEGEND SEE SHEET 1.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320914-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-020, SHEET 3					

320914-00

320915-00



NOTES:
 1. REFERENCE CB&I DRAWING NUMBERS
 100 (1974M6958), 101 (1974M6937),
 160 (CON ED 301925) & 161 (1974M6952)

LEGEND:
 [Hatched pattern] COMPONENT/SURFACE, WITHIN IWE
 BOUNDARY, REQUIRING INSPECTION (SUR)
 [Cross-hatched pattern] COMPONENT/SURFACE, WITHIN IWE
 BOUNDARY, INACCESSIBLE FOR INSPECTION

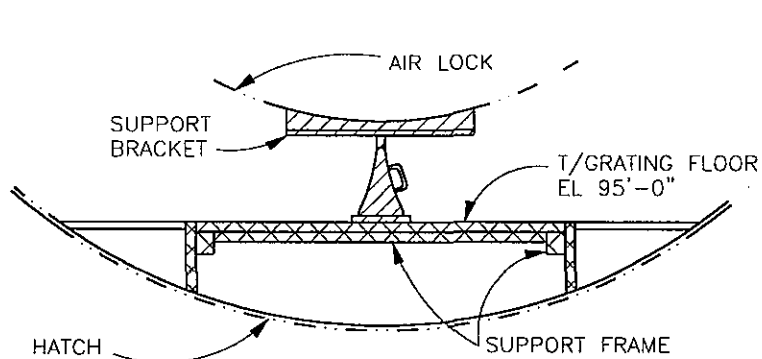
IWE-DET-021
AIR LOCK CYLINDER
(95AIRLOCK-CYL)
(80AIRLOCK-CYL)

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

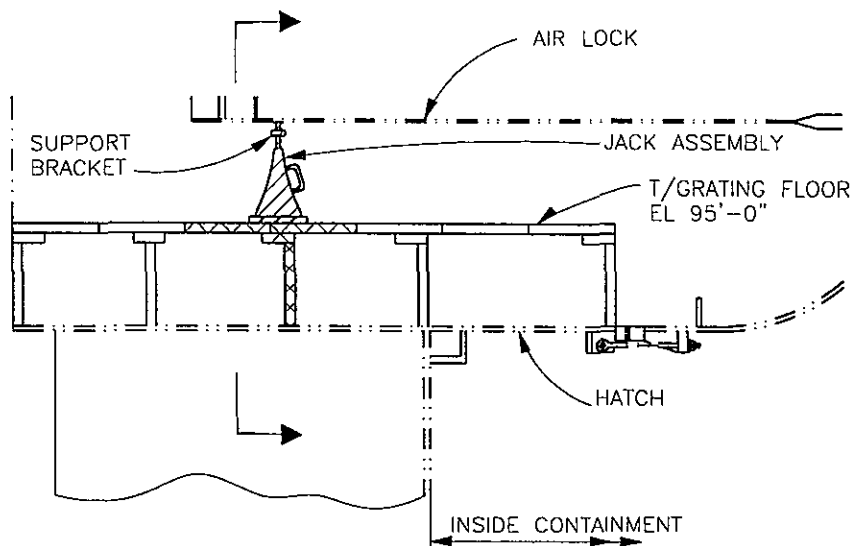
CON EDISON	DWG NO. 320915-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-021						

320915-00

320916-00



SECTION



ELEVATION

IWE-DET-022
AIR LOCK SUPPORT
(95AIRLOCK-SPT)

- NOTES:
 1. REFERENCE CB&I DRAWING NUMBERS
 100 (1974M6958), 101 (1974M6937),
 160 (CON ED 301925) & 161 (1974M6952)

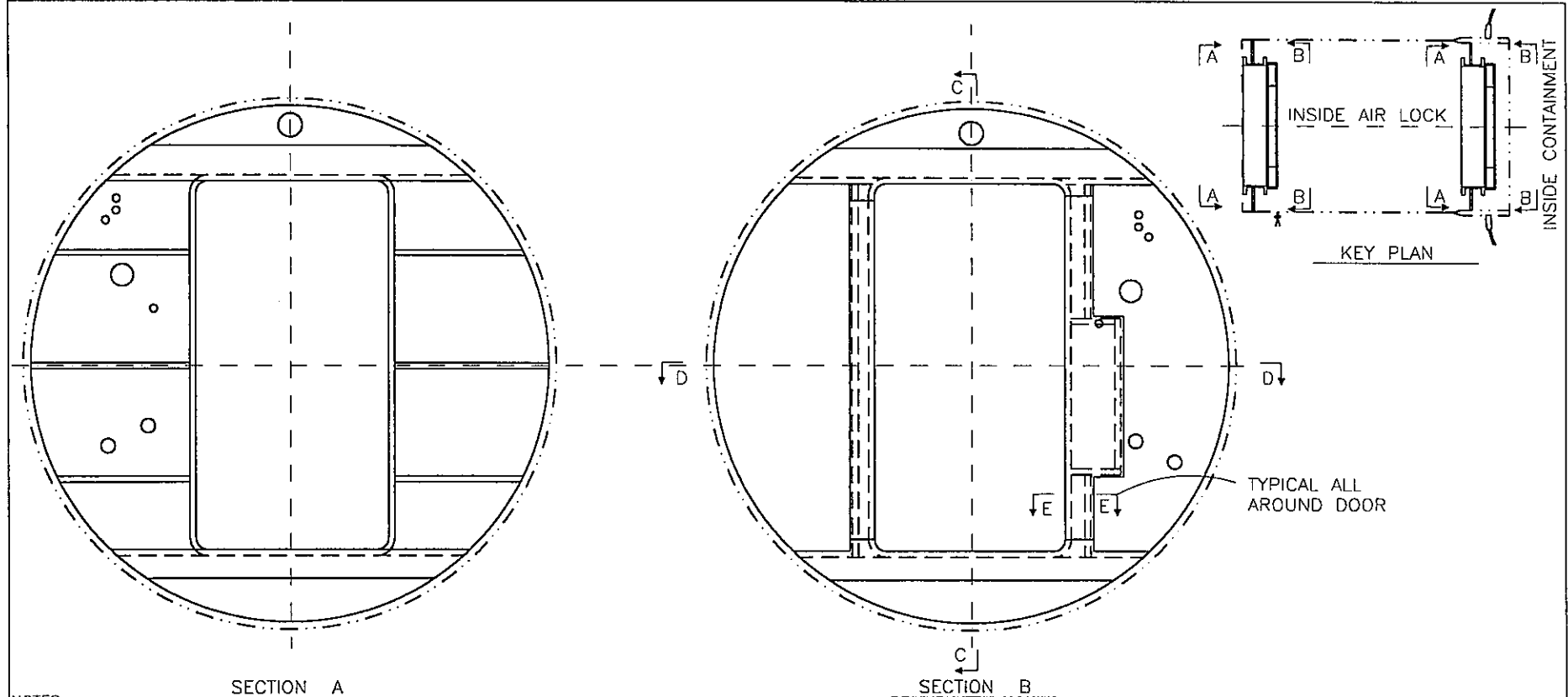
- LEGEND:
 [Hatched pattern] COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 [Cross-hatched pattern] COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320916-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-022						

320916-00

320917-00



NOTES:
 1. REFERENCE CB&I DRAWING NUMBERS
 101 (1974M6937), 103 (1974M6936),
 142 (1974M6917), 148 (1974M6916),
 161 (1974M6952) & 162 (1974M6959).

LEGEND:
 [Hatched pattern] COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 [Dotted pattern] COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

IWE-DET-023
AIR LOCK BULKHEAD & DOOR
 (95AIRLOCK-BH1 & BH2)
 (80AIRLOCK-BH1 & BH2)

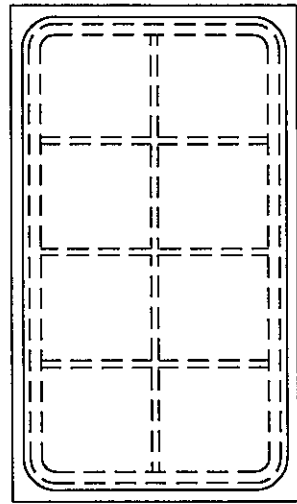
(DOOR REMOVED FOR CLARITY.
 FOR DOOR DETAIL SEE 320918)

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

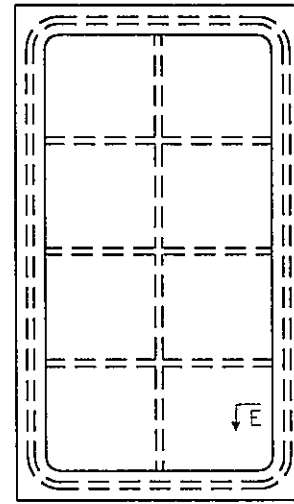
CON EDISON	DWG NO. 320917-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-023, SHEET 1					

320917-00

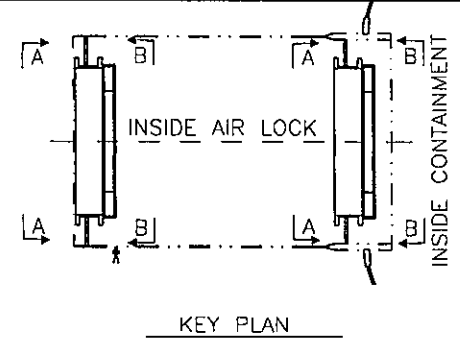
320918-00



SECTION A



SECTION B



KEY PLAN

IWE-DET-023
AIR LOCK BULKHEAD & DOOR
(95AIRLOCK-BH1 & BH2)
(80AIRLOCK-BH1 & BH2)

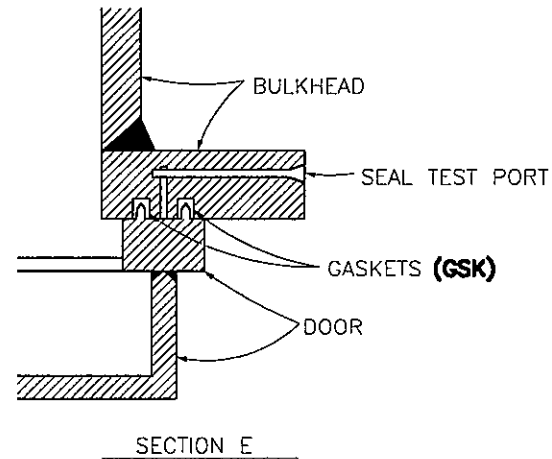
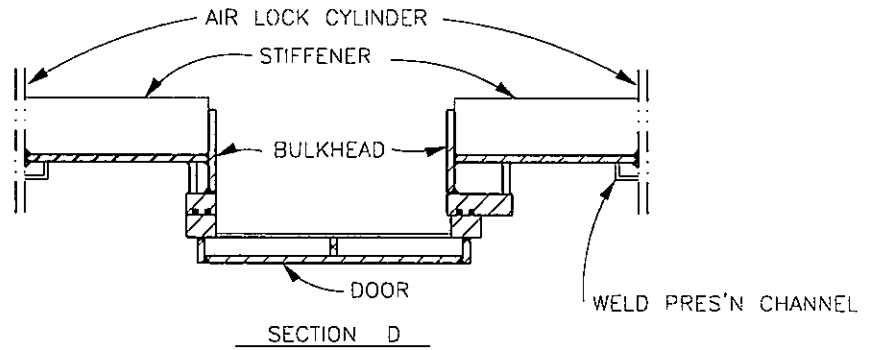
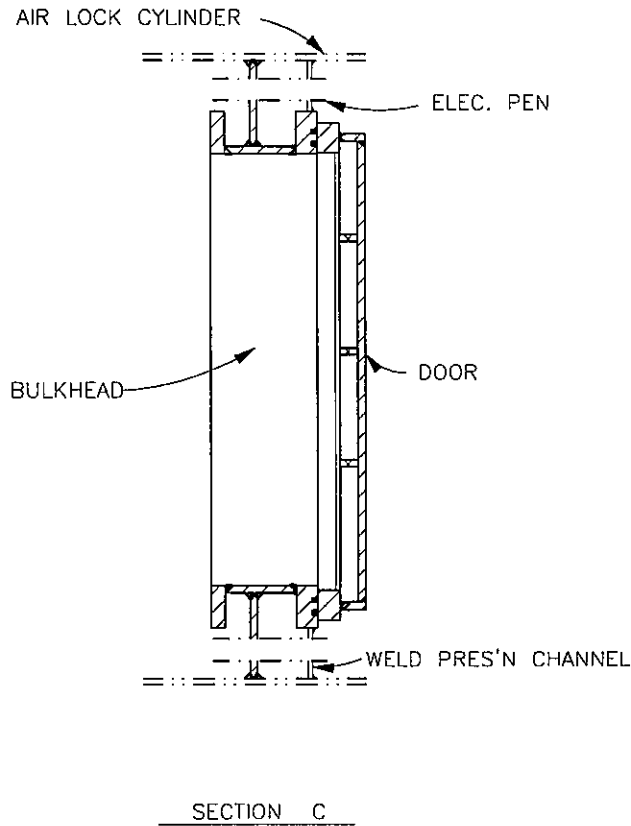
FOR NOTES & LEGEND SEE SHEET 1.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320918-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI	DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:	
LINER INSPECTION DETAIL					
IWE-DET-023, SHEET 2					

320918-00

320919-00



IWE-DET-023
AIR LOCK BULKHEAD & DOOR
(95AIRLOCK-BH1 & BH2)
(80AIRLOCK-BH1 & BH2)

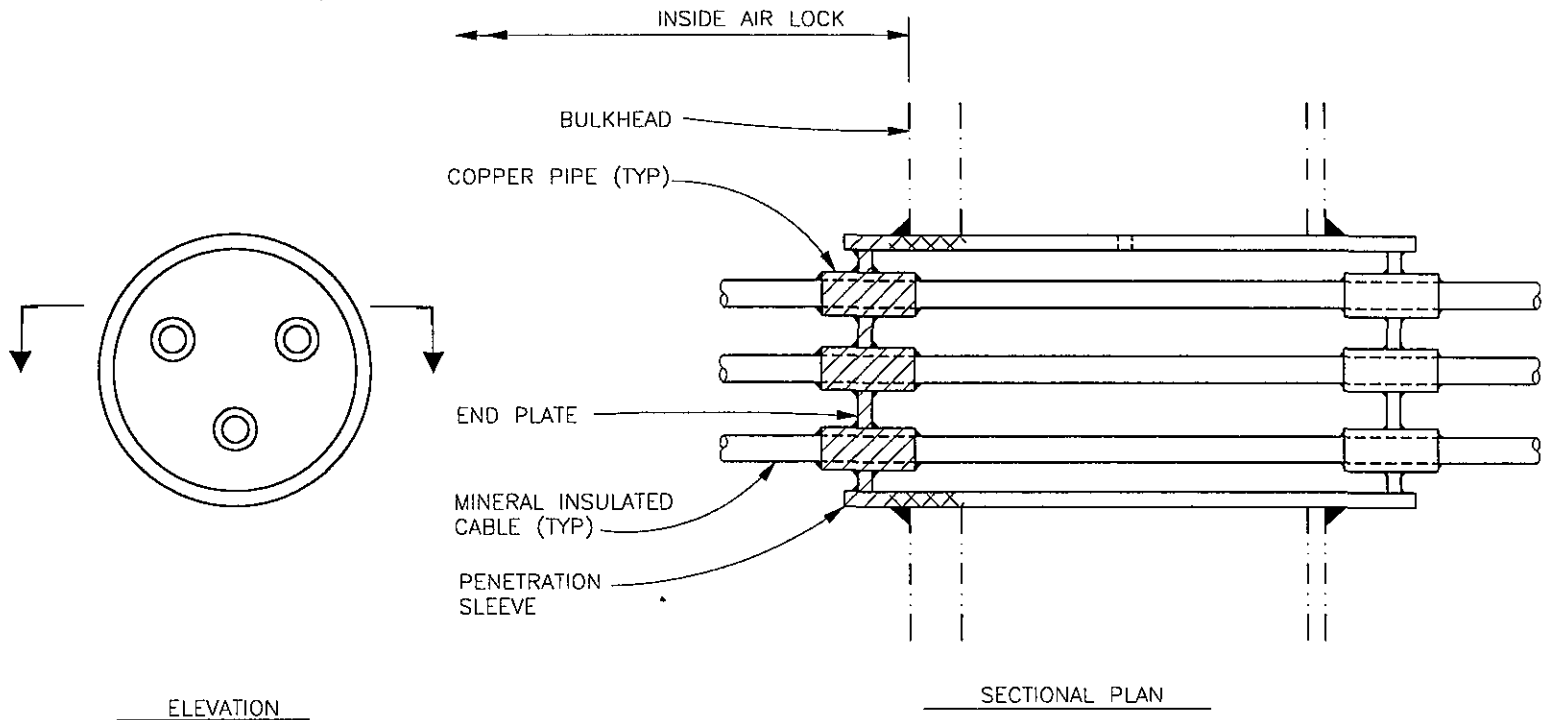
FOR NOTES & LEGEND SEE SHEET 1.

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320919-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:	PROJECT ENGINEER:		
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:			
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-023, SHEET 3					

320919-00

320920-00



IWE-DET-024
AIR LOCK ELECTRICAL PENETRATION
 (95AIRLOCK-EP1)
 (80AIRLOCK-EP1)

NOTES:
 1. REFERENCE CB&I DRAWING NUMBERS
 100 (1974M6958), 160 (CON ED 301925)
 & 171 (1974M6929).

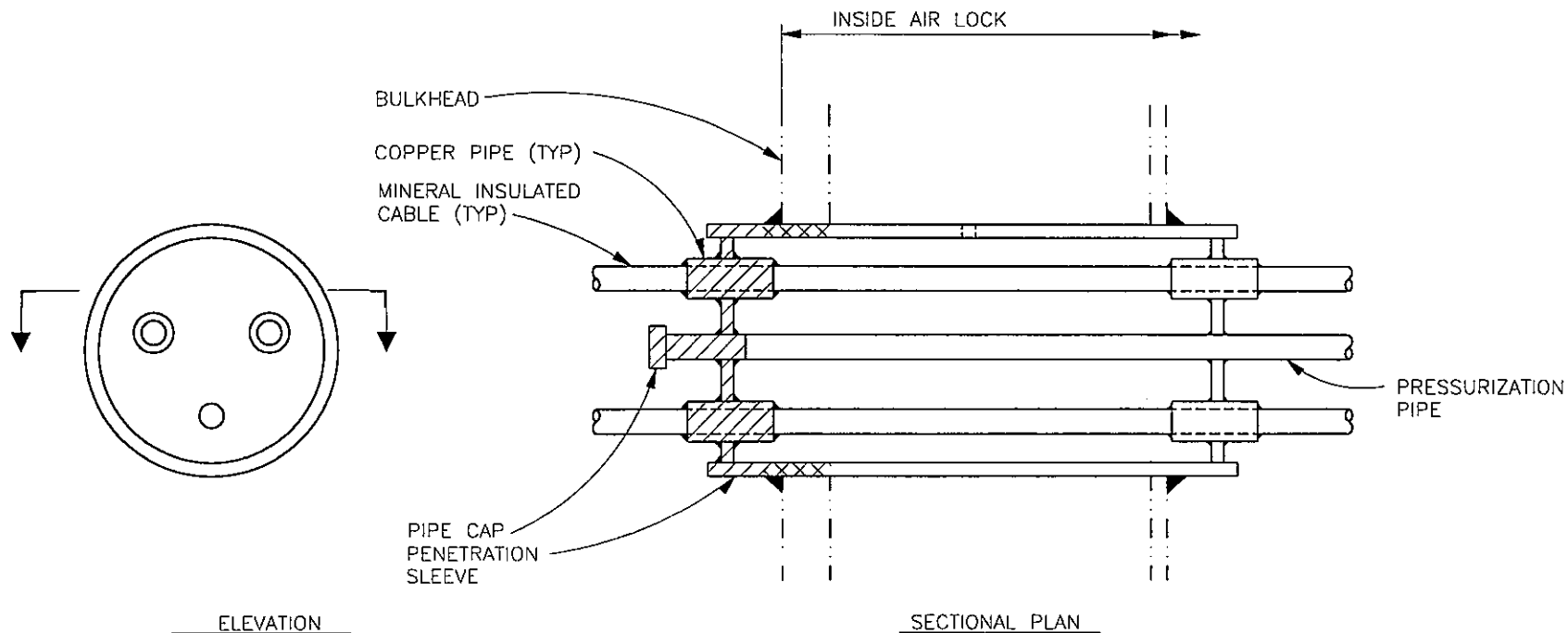
LEGEND:
 [Hatched pattern] COMPONENT/SURFACE, WITHIN IWE
 BOUNDARY, REQUIRING INSPECTION (SUR)
 [Cross-hatched pattern] COMPONENT/SURFACE, WITHIN IWE
 BOUNDARY, INACCESSIBLE FOR INSPECTION

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320920-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL IWE-DET-024			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:

320920-00

320921-00



IWE-DET-025
AIR LOCK ELECTRICAL PENETRATION
(95AIRLOCK-EP2)
(80AIRLOCK-EP2)

NOTES:
 1. REFERENCE CB&I DRAWING NUMBERS
 100 (1974M6958), 160 (CON ED 301925)
 & 171 (1974M6929).

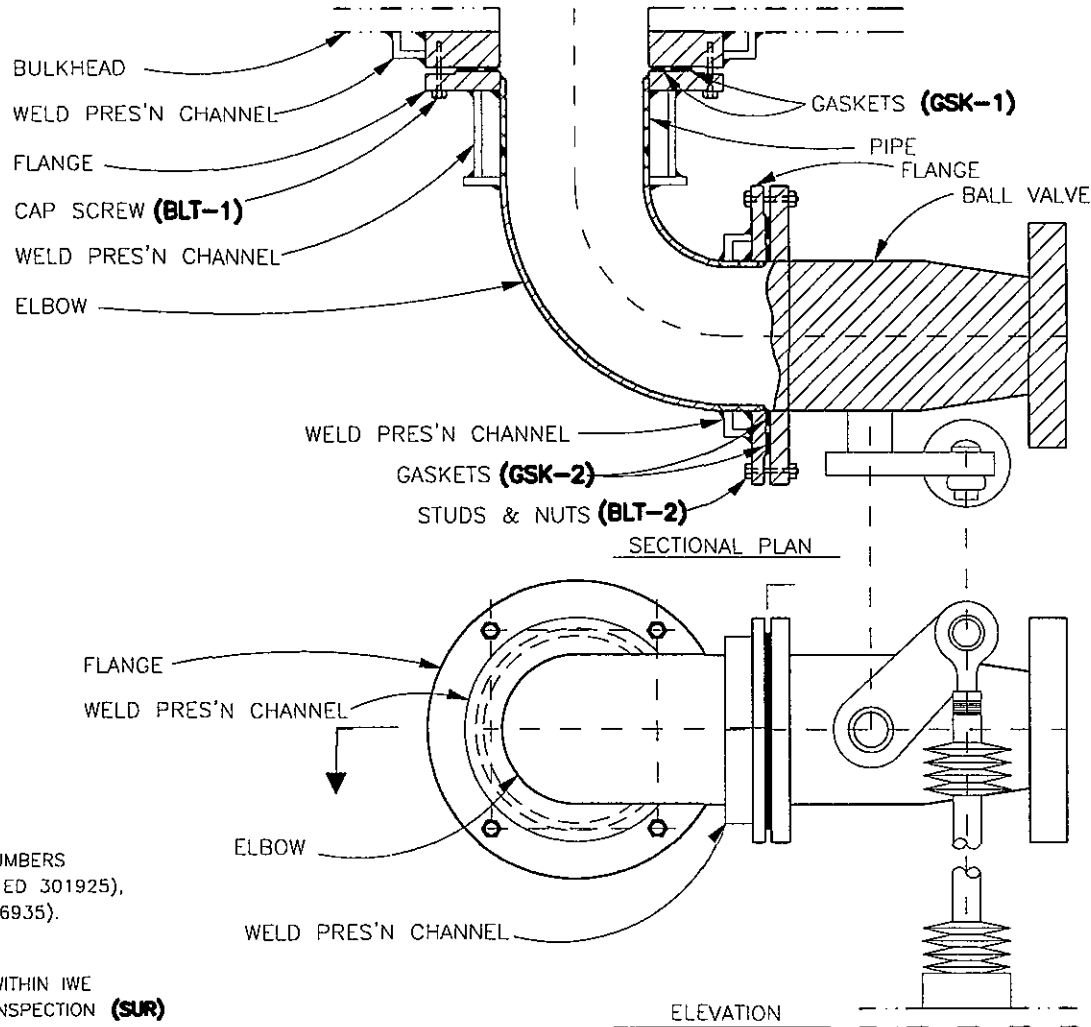
LEGEND:
 [Hatched Pattern] COMPONENT/SURFACE, WITHIN IWE
 BOUNDARY, REQUIRING INSPECTION **(SUR)**
 [Cross-hatched Pattern] COMPONENT/SURFACE, WITHIN IWE
 BOUNDARY, INACCESSIBLE FOR INSPECTION

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320921-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-025						

320921-00

320922-00



NOTES:
1. REFERENCE CB&I DRAWING NUMBERS
100 (1974M6958), 160 (CON ED 301925),
167 (34C683) & 168 (1974M6935).

LEGEND:
 COMPONENT/SURFACE, WITHIN IWE BOUNDARY, REQUIRING INSPECTION (SUR)
 COMPONENT/SURFACE, WITHIN IWE BOUNDARY, INACCESSIBLE FOR INSPECTION

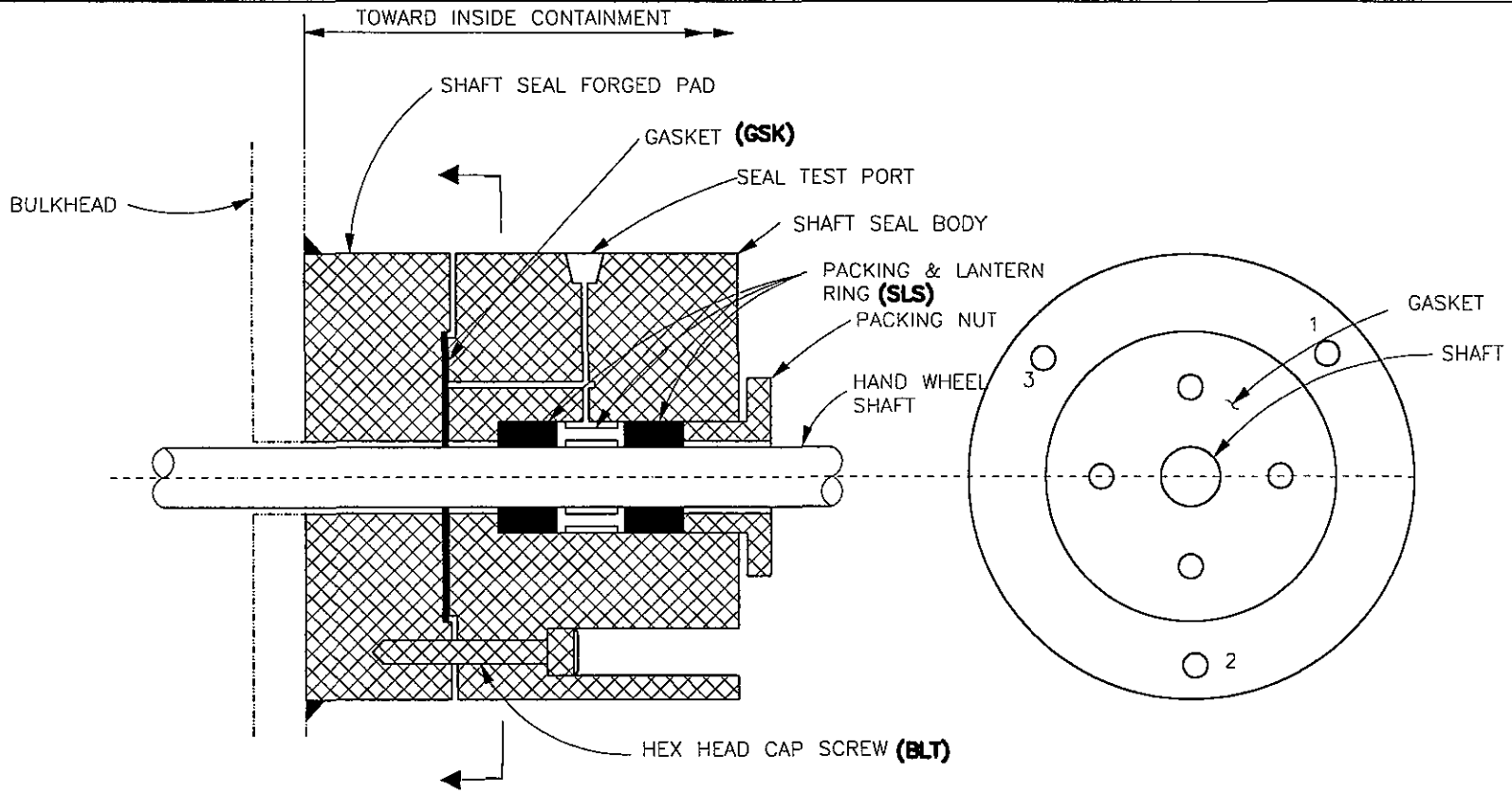
IWE-DET-026
 AIR LOCK EQUALIZING VALVE
 (95AIRLOCK-EV1 & 95AIRLOCK-EV2)
 (80AIRLOCK-EV1 & 80AIRLOCK-EV2)

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320922-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:	PROJECT ENGINEER:		
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:	DESIGNER:		
TITLE: CONTAINMENT ISI LINER INSPECTION DETAIL IWE-DET-026		DRAWN BY:	REVISION SIGNATURE	SCALE: NONE	DISC. CODE:

320922-00

320923-00



NOTES:
 1. REFERENCE CB&I DRAWING NUMBERS
 100 (1974M6958), 160 (CON ED 301925)
 & 169 (36CB12).

LEGEND:
 COMPONENT/SURFACE, WITHIN IWE
 BOUNDARY, REQUIRING INSPECTION (SUR)
 COMPONENT/SURFACE, WITHIN IWE
 BOUNDARY, INACCESSIBLE FOR INSPECTION

ELEVATION

SECTION

IWE-DET-027

AIR LOCK HAND WHEEL SHAFT PENETRATION

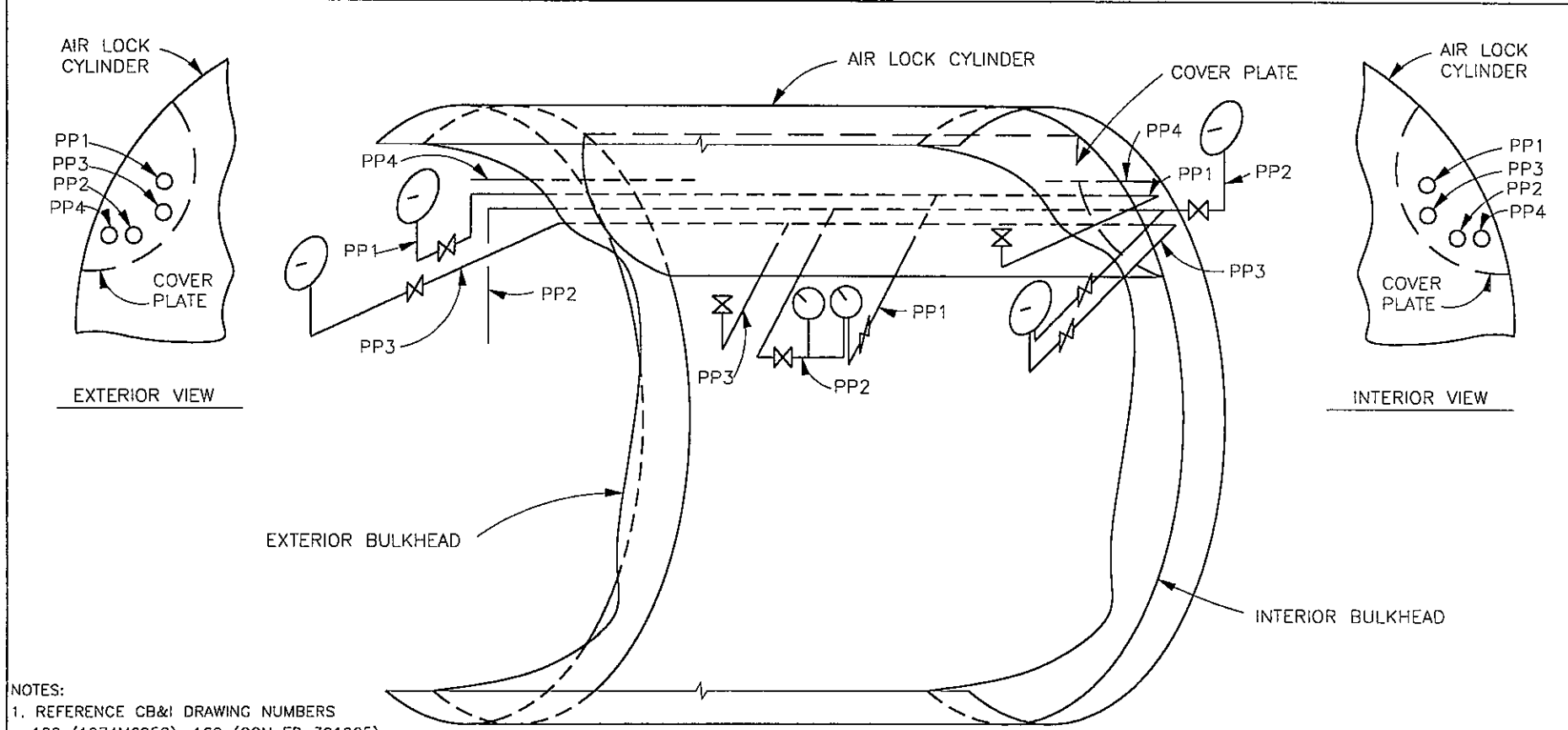
**(95AIRLOCK-HS1, HS2, HS3 & HS4)
 (80AIRLOCK-HS1, HS2, HS3 & HS4)**

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320923-00	ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E TYPE: COMPANY	PROJECT ENGINEER:	PROJECT ENGINEER:		
	LOCATION: INDAIN POINT UNIT 2	DESIGNER:	DESIGNER:		
TITLE: CONTAINMENT ISI		DRAWN BY:	REVISION SIGNATURE	SCALE:	DISC. CODE:
LINER INSPECTION DETAIL					
IWE-DET-027					

320923-00

320924-00



NOTES:
 1. REFERENCE CB&I DRAWING NUMBERS
 100 (1974M6958), 160 (CON ED 301925),
 164 (CON ED 228307), 165 (CON ED 227988),
 174 (1974M6940), 175 (CON ED B227989),
 176 (CON ED 227990).

IWE-DET-028
AIR LOCK PIPINGS
 (95AIRLOCK-PP1, PP2, PP3 & PP4)
 (80AIRLOCK-PP1, PP2, PP3 & PP4)

LEGEND:
 — COMPONENT/SURFACE, WITHIN IWE
 — BOUNDARY, REQUIRING INSPECTION (SUR)
 - - - COMPONENT/SURFACE, WITHIN IWE
 - - - BOUNDARY, INACCESSIBLE FOR INSPECTION

COMPUTER GENERATED DRAWING NOT TO BE HAND REVISED

CON EDISON	DWG NO. 320924-00		ENGINEERING MANAGER:	REV. 00	REVISION USE .1 SIZE TEXT ONLY	
	DWG SIZE: E	TYPE: COMPANY	PROJECT ENGINEER:			
	LOCATION: INDAIN POINT UNIT 2		DESIGNER:			
TITLE: CONTAINMENT ISI			DRAWN BY:	REVISION SIGNATURE	SCALE:	DISC. CODE:
LINER INSPECTION DETAIL						
IWE-DET-028						

320924-00