INDIAN POINT UNIT NO. 2 — A200169

NOTE - ANCHOR BOLT LOCATIONS NOT NOTED C.L. ARE MEASURED PERPENDICULAR TO ℄

SYM. ABT. N.S. ℄ EXCEPT AS SHOWN

4 EQ. SPC'S 15'-0 1/16 C.L. RAD.

3"x2" WEB RS CENTD ON EA. SUPPORT AS SHOWN

OUTLET SUPPORT SEE DET 10

SHEAR KEYS SEE PLAN THIS SHEET

8 EQ. SPC'S 11'-9 3/16 C.L. RAD.

8 EQ. SPC'S 11'-9 3/16 C.L. RAD.

4 STM. GEN. #24

4 STM. GEN. #23

4 STM. GEN. #22

4 STM. GEN. #21

NOTE: OFFSET THIS AB HOLE AS SHOWN AT SPLICES (2 PLACES)

72-2 5/16 ϕ HOLES FOR 2" ϕ A.B.'S.

SYM. ABT. E-W ℄ EXCEPT AS SHOWN

10'-7 3/8" RAD. A.B.'S

8'-11 3/32" RAD. A.B.'S

8'-6 3/8" RAD. A.B.'S

10'-3 3/4" RAD. A.B.'S

℄ INTAKE FROM PUMP

INLET SUPPORT SEE DET 10

NEUTRON DETECTOR OPG'S.

2" WEB R. @ ℄ STM. GEN. #21 & #24

8-HOLES FOR LEVELING SCREWS (3.75-8UN-2B THD) MILL COOLG. R. (TYP. EA. SUPPORT)

4 SUPPTS. - 1 R. WITH 2 HOLES

EA. SUPPT. ℄ LOCA. OF COOLING RS. ± 1/32 FROM TRUE ℄ LOCA. OF 8 HOLES ± 1/32 FROM TRUE

INLET SUPPORT SEE DET 10

SPLICE CONN. MILL CONTACT SURFS. & PRE-ASSEMBLE.

COOLING R. SEE DET. THIS SHEET

OUTLET SUPPORT SEE DET 10

HALF PLAN BOT. & WEB RS.
SCALE 1/2"=1'-0"

HALF TOP PLAN
SCALE 1/2"=1'-0"

@ 1 1/4"ϕ LEVELING SCREWS WELD NUTS TO BOT. R.

KEY ACCMT. SYM. ABT. ℄

SPLICE

HALF PLAN OF SHEAR KEYS.
SCALE 1/2"=1'-0"

COOLING RS DRILLED FOR COOLING AFTER STRESS RELEIVING & FIT-UP. ALL 4 RS. SHALL BE LEVEL & MUST BE IN SAME PLANE FOR 0.030", 0.010" WHEN ASSEMBLED.

EL. 59'-3" + 0.000, - 0.010

DIMENSIONS VARY TO PROVIDE ± 1/2" TO 3/4". HOWEVER EXACT LOCATION OF INCREASE NOT KNOWN

2" R.L. @ STM. GEN'S PUMP NOZZLES & SUPPORTS (SEE PLAN)

AS BUILT GIRDER VARIES FROM 2'-0" TO 2'-2"

AS BUILT GROUT VARIES FROM 3" TO 4"

2 1/16" ϕ HOLES FOR A.B.'S

℄ 3.75" ϕ HOLES IN TOP R. OF GIRDER & IN COOLING RS TO BE DRILLED & TAPPED IN FIELD BY OTHERS. WELD COOLING RS. TO GIRDER IN SHOP

NOTE: MACHINE CONTACT AREAS BETWEEN COOLG. RS & TOP OF GIRDER FOR FULL BEARING. (FIN. 125 RMS)

1" ϕ ACCESS HOLE FOR GROUTING

SECTION 1-1
SCALE 1"=1'-0"

MILL CONTACT SURFACES TO 125 RMS & DRILL AFTER STRESS RELIEVING RS. BOLTS SHALL BE TIGHTENED BY CALIBRATED WRENCHES AS SPECIFIED IN "AISC SPEC. FOR STRUCTURAL JOINTS USING A-325 BOLTS"

1 1/4" H.S. BOLTS (2.16 SQ. IN. MIN. TEN. 31,700 # PER BOLT) NEW BOLTS MUST BE USED FOR EA. ASSEMBLY & FOR FINAL INSTALLATION

SECT. 3-3 (4-4 OPP. HAND)
SCALE 1"=1'-0"

1'-6" 8'-6 3/8" RAD.

1'-6" 8'-6 3/8" RAD.

E NEUTRON DET. OPGS. 8 1/2" DIA. 10'-0 1/32" RAD.

SECTION 2-2
SCALE 1"=1'-0"
WELDING IS CONT. & TYP.

SOCKET FOR 3/4" ϕ PIPE MILL SIDE

SCRIBED ℄

MILL TOP & SIDE

1'-45° WELD GROOVE

3/4" ϕ DRILLED HOLES (4 REQ'D) 4 AA, 2 AC, 2 AD THIS SIDE

SOCKET FOR 3/4" ϕ PIPE SEE DET 8

VIEW X-X
SCALE 1"=1'-0"

VIEW Y-Y
SCALE 1"=1'-0"

1/32" DEEP V SCRIBED ℄S TOP & SIDES

HOLES FOR LEVEL'G. SCREWS (3/16-8UN-2B THD). DRILL & TAP 5 SETS HOLES IN FIELD AFTER FITTING AS BUILT TEMPLATE OF REACTOR VESSEL & REACTOR VESSEL GUIDES FROM WESTINGHOUSE.

DETAILS OPP. HAND

DETAIL 9

PLAN
SCALE 1"=1'-0"

COOLING R. DETAILS
4 REQUIRED

SCRIBED ℄

MILL 2 SIDES & TOP TO 125 RMS AFTER STRESS RELEIVING

VIEW Z-Z

SECT. 4
SCALE F.S.

SECT. 5-5
SCALE F.S.

SECT. 6-6
SCALE F.S.

SECT. 7
SCALE F.S.

DET. 8
SCALE F.S.

SEE TABLE

DRILL FOR WELDING 3/4" I.P.S. PIPE

COOLING R. END PLATES

	℄ TO ℄	OVERALL LENGTH	QUANTITY
2A	1/4	3'	9
2B	1/4	2'2"	2
2C	3/8	4'8"	2
2D	1/4	5'10"	2

REFERENCE DRAWINGS
IPP REACTOR VESSEL SUPPORT & VESSEL SETTING PROCEDURE
F.P. 9321-2424 WESTINGHOUSE NO. ED. SK 328832-F

DETAIL 10
SCALE 1"=1'-0"

Top of Cooling R. El. 59'-3

El. 59'-8

El. 59'-10

VESSEL SUPPORTING SURFACE

SUPPORT SHOE (FURN. BY W)

PERM. SHIMS BY W

COOLING R.

LEVELING SCREWS (FURN. BY W)

AT INLET SUPPORT

AT OUTLET SUPPORT

RING GIRDER

1'-3

LEGEND

ABC - ANCHOR BOLT CIRCLE
CH - CHORD LENGTH
A.L. - ARC LENGTH

NOTES

1. STEEL PLATE SHALL CONFORM TO ASTM SPEC'S FOR A-36 STEEL LATEST EDITION
2. WELDING SHALL CONFORM TO A.W.S. CODE LATEST EDITION FOR E-70XX ELECTRODES
3. SPECIAL PAINTING FOR SURFACES NOT MACHINE FINISHED - STRUCTURAL STEEL SHALL BE CLEANED OF ALL OIL & GREASE WITH CLEAN RAGS & CARBOLINE CLEANER NO 2 BLAST STEELWORK IN ACCORDANCE WITH SSPC SPEC. SPC-6 FOR 1/2 MIL PROFILE. REMOVE DIRT & DUST. PAINT WITH ONE PRIME SHOP COAT OF CARBOZINC NO 11 TO A 3 MIL DRY THICKNESS
4. SPLICE CONNECTIONS SHALL BE MILLED AT CONTACT SURFACES PRE-ASSEMBLE & MILLED FOR ACCURACY BEFORE DELIVERY.
5. DIMENSIONS ± 1/16 UNLESS OTHERWISE NOTED
6. STRESS RELEIVE ENTIRE RING GIRDER BEFORE FINAL MACHINING & WELDING OF COOLING PLS.

DETAIL 9
SCALE 1"=3"

REFERENCE DRAWINGS

IPP 9321-2424 - IPP REACTOR VESSEL SUPPORTS.
9321-2311 - PROCS. VESSEL-FINAL MACHINING.
9321-F-1327 - ANCHOR BOLT SETTING PLAN.

PRC APERTURE CARD

POOR ORIGINAL

TERA APERTURE CARD

NO.	DATE	DESCRIPTION	ENGR	SUPERVR
8	9/20/71	FINAL ISSUE	RBB	
7	8/16/71	GIRDER DEPTH REV. IN SECT 11 & DET 8 WITH F.O.I. AS BUILT	RBB	
6	7/19/71	ADDED DETAIL 10 & CORRECTED PLATES	RBB	
5	7/14/71	ADDED DETAIL NO.	RBB	
4	7/14/71	REV. COOLING R. DETAILS	RBB	
3	7/7/71	REVISIONS NOTED THUS (3) AS PER CHANGE NOTICE NO. 3 DATED 7/6/71	RBB	
2	6/7/71	REVISIONS NOTED THUS (2) AS PER CHANGE NOTICE A.D. DWG. A CORRECTED DIMENSIONS	RBB	
1	2/24/71	REVISIONS NOTED THUS (1) AS PER CHANGE NOTICE NO. 1 DATED 2/23/71	RBB	
0	10/2/70	FIRST ISSUE	RBB	

ENGINEER
STATE REG. NO.
UNITED ENGINEERS & CONSTRUCTORS INC.

WESTINGHOUSE ELECTRIC CORPORATION

CONTAINMENT
REACTOR VESSEL SUPPORT STEEL

FOR
CONSOLIDATED EDISON COMPANY
INDIAN POINT GENERATING STATION
UNIT NO. 2

U.S. A.C. DWG. NO. 9321-F-1284-8
CON. ED. CO. DWG. NO. A200169

INCHES 0

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