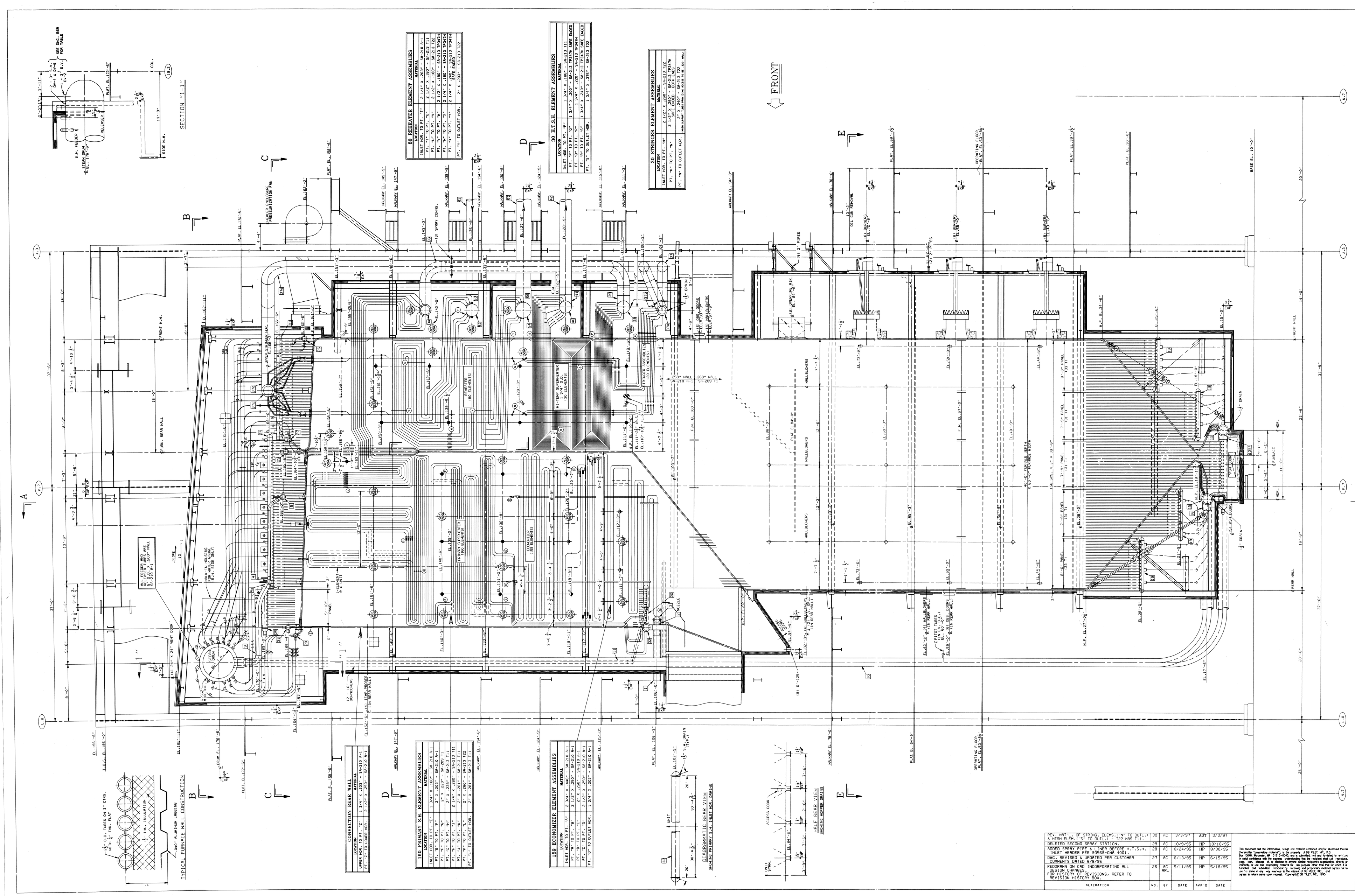

LEGEND

- 16" DIA. ACCESS DOOR
- LONG RETRACT 36'-3" ℄ WALL TO END OF BLOWER
- HALF TRACT 20'-0" ℄ WALL TO END OF BLOWER
- WALLBLOWER 4'-6" ℄ WALL TO END OF BLOWER
- TEMP. PROBE 20'-0" ℄ WALL TO END OF BLOWER
- OBSERVATION DOOR
- 18" SQ. PLATE ACCESS DOOR

PIPING AND HEADER LIST

LOCATION NO.	DRAWING NO.	O.D.	DESCRIPTION
1	71016-2-1802-10	12 3/4"	ECONOMIZER INLET PIPE
2		14"	NOZZLES
3	71016-2-1601-10	14"	ECONOMIZER INLET HEADER
4	71016-2-1603-10	10 3/4"	ECONOMIZER OUTLET HEADER (REAR)
4a		10 3/4"	NOZZLES
5	71016-2-1603-20	10 3/4"	ECONOMIZER OUTLET HEADER (FRONT)
9	71016-2-1803-10	10 3/4"	ECONOMIZER TO DRUM PIPE
10	71016-5-1821-10	16"	DOWNCOMER - TO HOPPER HEADER
11	71016-5-1823-10	6 5/8"	DOWNCOMER - TO CONV. LWR. SIDE HDR.
12	71016-5-1641-10	21 1/2"	FRONT HOPPER HEADER
13		18"	NOZZLE
14		16"	NOZZLE
15	71016-5-1642-10	21 1/2"	REAR HOPPER HEADER
16		18"	NOZZLE
18	71016-5-1639-10	16"	SIDE HOPPER HEADER
19	71016-5-1643-10	8 5/8"	LOWER SIDE W.W. HEADER
20	71016-5-1654-10	8 5/8"	CONVECTION LOWER SIDE HEADER
21		8 5/8"	NOZZLE
23	71016-5-1646-10	10 3/4"	FRONT UPPER SIDE W.W. HEADER
24	71016-5-1646-20	10 3/4"	REAR UPPER SIDE W.W. HEADER
25	71016-5-1655-10	10 3/4"	CONVECTION UPPER SIDE HEADER
26	71016-5-1644-10	10 3/4"	UPPER FRONT W.W. HEADER
27	71016-5-1634-10	8 5/8"	FURNACE ROOF RELEASER HEADER
28	71016-5-1649-10	8 5/8"	CONVECTION ROOF RELEASER HEADER
29	71016-5-1645-10	10 3/4"	UPPER REAR W.W. HEADER
31	71016-3-1663-10	10 3/4"	S.H. CONV. REAR UPPER HEADER
32	71016-3-1605-10	16"	PRIMARY SUPERHEATER INLET HEADER
34	71016-3-1606-10	20 3/4"	PRIMARY SUPERHEATER OUTLET HEADER
36	71016-3-1814-10	20"	SUPERHEATER SPRAY PIPE & LINER
37	93569-3-1811-10	20"	PRIMARY SUPERHEATER CROSSOVER PIPE
37a	93569-3-1611-10	20"	LOWER STRINGER (INLET) HEADER
37b	93569-3-1828-10		"T" FORGING
37c	93569-3-1611-20	24"	UPPER STRINGER (OUTLET) HEADER
37d	93569-3-1828-20		"T" FORGING
37e	93569-3-1818-10	24"	CROSSOVER PIPE - UPPER STRINGER HDR. TO H.T.S.H. INLET HEADER
38	93569-3-1609-10	24"	H.T.S.H. INLET HEADER
39	71016-3-1828-20		"T" FORGING
40	71016-3-1610-10	23 1/4"	H.T.S.H. OUTLET HEADER
41	71016-3-1828-30		"T" FORGING
42	71016-3-1812-10	22 3/4"	SUPERHEATER BRANCH PIPE
43	71016-3-1828-40		"T" FORGING
44	71016-3-1828-50		REDUCER FORGING (S.H.)
51	71016-4-1601-20	24"	REHEAT. INLET HEADER EXTENSION
52	71016-4-1601-10	24"	REHEAT. INLET HEADER
53		24"	NOZZLE
54	71016-4-1603-10	30"	REHEAT. OUTLET HEADER
55		31 3/4"	PIPE
56		31 3/4"	NOZZLE
57	71016-4-1812-10	29 1/4"	REHEAT. BRANCH PIPE
58	71016-4-1828-10		FORGING
59		30"	90° L.R. ELBOW (R.H.)

GENERAL NOTES:

1. SOOT BLOWERS ON BOTH SIDES OF UNIT. ACCESS DOORS & OBSERVATION DOORS ON BOTH SIDES.
2. LAGGING MANUFACTURED BY REYNOLDS METAL CO. COLOR - DURANAR 200 BLUE (ML90141).
3. EXTERNAL BLOWDOWN PIPING CONNECTED TO BOILER & WATER WALL BLOWDOWN VALVES SHALL BE SUSPENDED TO MOVE FREELY WITH EXPANSION MOVEMENT OF BOILER PRESSURE PARTS PLACING NO STRAIN ON BLOWDOWN VALVE.
4. CUSTOMER ARRANGE PIPE & VALVE CONNECTIONS TO BOILER & PARTS SO THAT NO EXCESSIVE EXPANSION STRAINS, PIPE LOADS OR OTHER STRESSES COME AGAINST BOILER CONNECTION; CONSULT WITH DB RILEY ENGINEERING DEPARTMENT ON PERMISSIBLE AMOUNT OF LOADS OR STRESSES.
5. BAFFLE ARRANGEMENT & OPENINGS SHOWN MUST NOT BE CHANGED WITHOUT CONSULTING THE ENGINEERING DEPARTMENT OF DB RILEY, INC.

CONTRACT REVISION HISTORY

CONTRACT	REVISION
77003	PRIMARY S.H. TUBES H.T.S.H. TUBES REHEATER TUBES S.H.M. MODIFICATION FRONT HEADER ENCLOSURE CASING ROOF TUBES
79512	STRUCTURAL STEEL IN DOWNCOMER ENCLOSURE, FRONT HEADER ENCLOSURE, FURNACE BOTTOM & BURNER HATCHBOX
86613	REAR ARCH DEFLECTION TUBES
86620	PENTHOUSE ROOF FRONT HEADER ENCLOSURE FURNACE & ECONOMIZER PRESSURIZATION SYSTEM BURNER THROAT ASH HOPPER BURNER ROOF DECK ECONOMIZER SUPPORT CLAMPS ECONOMIZER HOPPER TRANSITION ECONOMIZER DEFLECTION BAFFLES WINDBOX TIES ROOF & SIDE GUIDES EXPANSION JOINTS
88640	BURNER REPLACEMENT CLEANING & COOLING AIR OIL PIPING SUPPLY & RETURN COMMON DRAIN PIPING & VENT PIPING FLAME SCANNER PIPING GAS RECIRCULATION DUCTS P & I GAS CONVERSION
93569	H.T.S.H. ELEMENTS REHEATER ELEMENTS PRIMARY S.H. ELEMENTS STRINGER ELEMENTS & HEADERS ECONOMIZER ELEMENTS S.H. PIPING BEFORE SPRAY RELEASER TUBES ACCESS DOORS & SOOTBLOWERS SOOTBLOWER PIPING SCALE PIT, H.W., ROOF & <GR. ENCLOSURE THERMOCOUPLES PIPE & DUCT LAGGING PIPE SUPPORTS
93569 CWR 4001	REVISED SPRAY LINERS FROM 2-2 NOZZLES TO 2-3 NOZZLES

DRAWN	M-300
CHKD	ISR-40/60,5
WP	2875 DES.
1	
2	1006 1006 1-4
3	
4	
5	
6	
7	
8	
9	
10	3-548 3-139
11	
12	

CONSULTING ENGINEERS
REYNOLDS, SMITH & HILL

HORK THIS DHC. WITH DWGS. 71016-85A, B6 & B6A

REV.	MAT.	I. OF STRING. ELEMS. "N" TO OUTL.	I. MTSH ELEM.	S" TO OUTL.	722 MMS TIL.
DELETED SECOND SPRAY STATION.	29	AC	10/9/95	HP	10/10/95
ADDED SPRAY PIPE & LINER BEFORE H.T.S.H. INLET HEADER PER 93569-CWR 4001.	28	AC	8/24/95	HP	8/30/95
CHG. REVISED & UPDATED PER CUSTOMER COMMENTS DATED 6/8/95	27	AC	6/13/95	HP	6/16/95
REDRAWN ON CAD INCORPORATING ALL DESIGN CHANGES. FOR HISTORY OF REVISIONS. REFER TO REVISION HISTORY BOX.	26	AC ARL	5/11/95	HP	5/18/95
ALTERATION	NO.	BY	DATE	APP'D	DATE

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REVISED & APPROVED 12/30/71 DATE

FUNCTIONAL REVIEW / APPROVAL

REVIEWED BY: Adam D. Bentley Jr.	REVIEWED & APP'D / DATE	REVIEWED & APP'D / DATE	
DATE 5/11/95	REVIEWED & APP'D / DATE	REVIEWED & APP'D / DATE	
CHECKED 7/6	REVIEWED & APP'D / DATE	REVIEWED & APP'D / DATE	
DATE 7-6-72	REVIEWED & APP'D / DATE	REVIEWED & APP'D / DATE	
APP'D 5/9	REVIEWED & APP'D / DATE	REVIEWED & APP'D / DATE	
DATE 4/17/74	REVIEWED & APP'D / DATE	REVIEWED & APP'D / DATE	

DO NOT SCALE USE DIMENSIONS ONLY. SCALE 1 (IN. = 1 FT.) ES W F ER

013176

DEUTSCHE BABCOCK
DB RILEY, INC.
GENERAL ARRANGEMENT OF
RILEY STEAM GENERATING UNIT
SECTIONAL SIDE ELEVATION
JACKSONVILLE ELECTRIC AUTHORITY
JACKSONVILLE, FLORIDA
NORTHSIDE GEN. STATION - UNIT #3

DWG. NO. 71016-B5-30