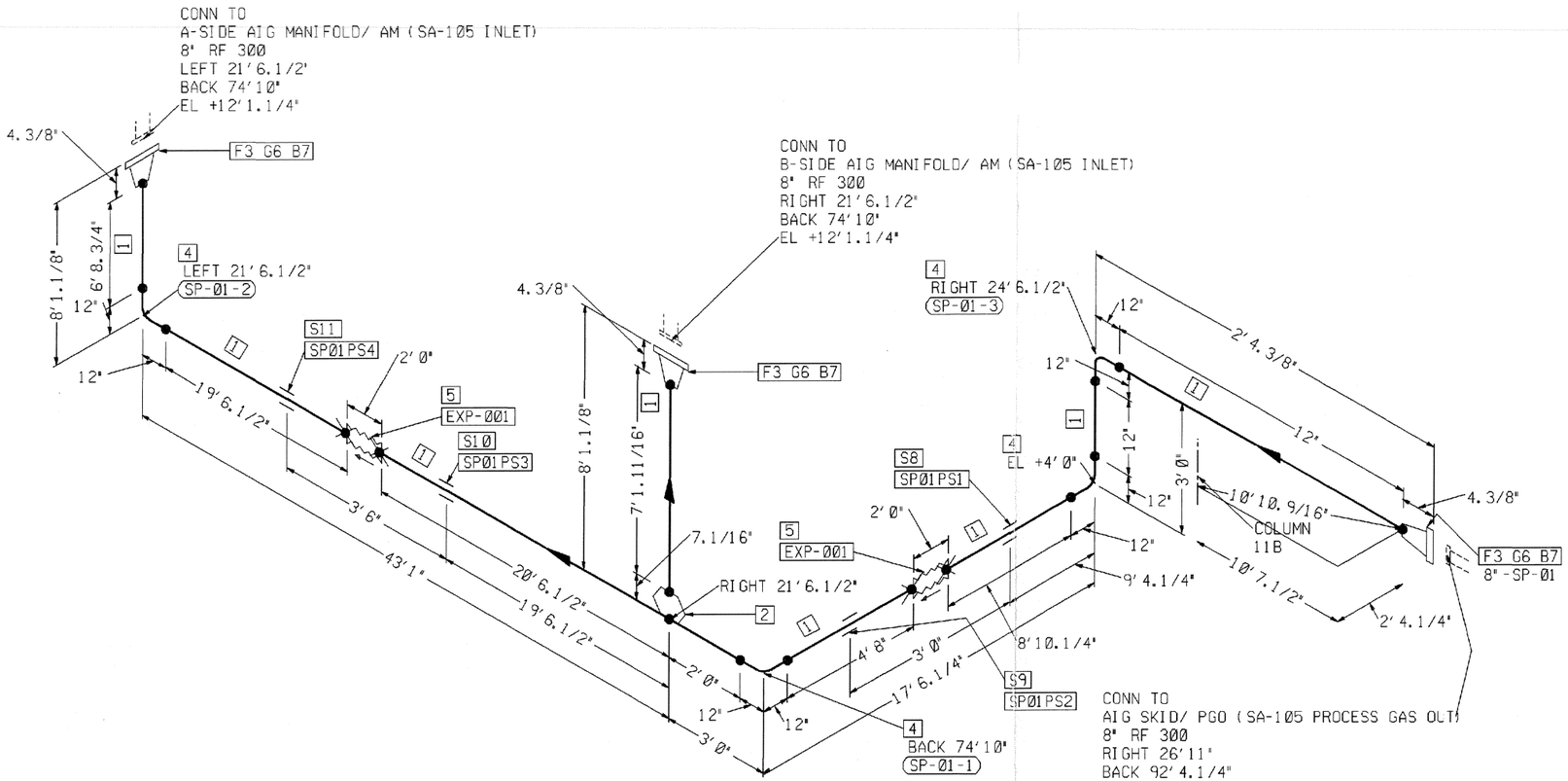
| PROJECT: | DRAWING NUMBER |
|---|---|
| JEA BRANDY | 014148-SP-01-1 |

| JOB NO | CODE | LINE | SHT | REV | FE |
|---|---|---|---|---|---|
| 014148 | SP | 01- 1 | G | X | |




## BILL-OF-MATERIAL

| ITEM NO. | QTY | SIZE (INS) | DESCRIPTION | WEIGHT |
|---|---|---|---|---|
| 1 | 71'6" | 8 | S-40 PIPE SA-106-B | |
| 2 | 1 | 8X8 | S-40 X S-40 WELD-O-LET, SA-105 | |
| 3 | 3 | 8 | CL300 WN FLANGE RF,(S-40 BORE),SA-105 | |
| 4 | 4 | 8 | S-40 90 DEG LR ELBOW BE, SA-234-WPB | |
| 5 | 2 | 8 | STAINLESS STEEL METAL BELLOWS EXPANSION JOINT DESIGNED FOR 3/8" COMPRESSION AND +/- 3/8" LATERAL OFFSET, END CONNECTIONS TO BE BW, SUPPLIED BY PIPE FABRICATOR | |
| 6 | 3 | 8 | GASKETS BY OTHERS | |
| 7 | 36 | 7/8 | BOLTS BY OTHERS, 5.5" BOLT LENGTH | |
| | | | PIPE SUPPORTS (PIPE SUPTS BY OTHERS) | |
| 8 | 1 | 8 | SP01PS1 FOR DETAIL SEE SHEET 014149-SP-01-A | |
| 9 | 1 | 8 | SP01PS2 FOR DETAIL SEE SHEET 014149-SP-01-B | |
| 10 | 1 | 8 | SP01PS3 FOR DETAIL SEE SHEET 014149-SP-01-C | |
| 11 | 1 | 8 | SP01PS4 FOR DETAIL SEE SHEET 014149-SP-01-D | |

**M010322-201P207 RG**
**JEA BRANDY BRANCH** **11/23/2004**

Review does not relieve contractor from responsibility for errors or deviations from contract requirements

**UTILITY ENGINEERING**

- [x] NO EXCEPTIONS NOTED — Release for manufacture
- [ ] EXCEPTIONS NOTED — Release for manufacture; Revise and resubmit for distribution
- [ ] RETURNED FOR CORRECTION — Do not proceed; Revise and resubmit for authorization

**QUANTITIES SHOWN FOR (1) HRSG**
**TOTAL OF (2) HRSG's REQUIRED**

| SPOOL NO | SPOOL WT | SPOOL NO | SPOOL WT |
|---|---|---|---|
| SP-01-2 | | | |
| SP-01-1 | | | |
| SP-01-3 | | | |

SHOP FABRICATED SPOOL LIST

| NO | DATE | REVISION | BY | CHK |
|---|---|---|---|---|
| B | 04-NOV-2004 | REVISED TEMP AND INSULATION PER EWO 04-328 | MNR | RKE |
| F | 20-FEB-2003 | UPDATED PIPE SUPPORTS | MNR | DHS |
| A | 01-JUL-2002 | RELEASE FOR STRESS ANALYSIS 0 | SRJ | DHS |
| B | 15-AUG-2002 | INITIAL RELEASE | SRJ | DHS |

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**NOOTER/ERIKSEN**

| | | |
|---|---|---|
| DWN | MNR | INTERCONNECTING PIPING: SP-01-AIG MANIFOLD CONNECTING PIPING |
| CHK | DHS | |
| PM | MWK | |
| PE | JLK | OWNER: JACKSONVILLE ELECTRIC AUTHORITY (JEA) |
| SE | JLK | PURCHASER: BEAK / UTILITY ENGINEERING |
| TE | BCS | PROJECT: BRANDY BRANCH |
| | | PLANT SITE: BALDWIN, FL |

PROJECT: JEA BRANDY — RELEASE DATE: SEE LATEST REVISION

DRAWING NUMBER: 014148-SP-01-1 — JOB NO | CODE | LINE | SHT | REV | FE: G | X

SHEET 1 OF 1

## DRAWING LEGEND

- DENOTES CUSTOMER INTERFACE
- DENOTES SPOOL TAG NUMBER
- V- DENOTES VALVES CALLED OUT ON THE TRIM & INSTRUMENT LIST
- DENOTES INSTRUMENTS CALLED OUT ON THE TRIM & INSTRUMENT LIST

BACK

FRONT

HRSG GAS FLOW

## GENERAL NOTES

1. FOR PAINTING REQUIREMENTS AND STANDARD DETAILS SEE STANDARD DETAILS SHEET 014148-GA-004.
2. PIPING SHOWN ON THIS DRAWING IS FOR ONE (1) UNIT. (2) UNITS ARE REQUIRED.
3. BLIND FLANGES, BOLTS, AND GASKETS SHOWN IN THE BILL-OF-MATERIAL ARE FURNISHED BY NOOTER/ERIKSEN.
4. DESUPERHEATER FLOW TO BE IN THE SAME DIRECTION AS FLOW THRU LARGE BORE PIPING.

SHOP WELD — FIELD WELD — FW-FT FIELD WELD (3" FIELD TRIM) — SOCKETWELD — THREADED — HEAT TRACE — PIPE SUPPORT

| LINE NO | SERVICE | CODE (SEE GA-004) | DESIGN PRESS | DESIGN TEMP | INSULATION | COATING | HEAT TRACE |
|---|---|---|---|---|---|---|---|
| 8"-SP-01 | AMMONIA/AIR | ANSI/ASME B31.1 | 5 PSIG | 650 DEGF | 3.0 | | |

DEF:DRAFTING_SVR:D:#FDS#2001#JEABRANDY1#1SD#DATA#E_B_PIPE_C.DEF

4A-SP-01-