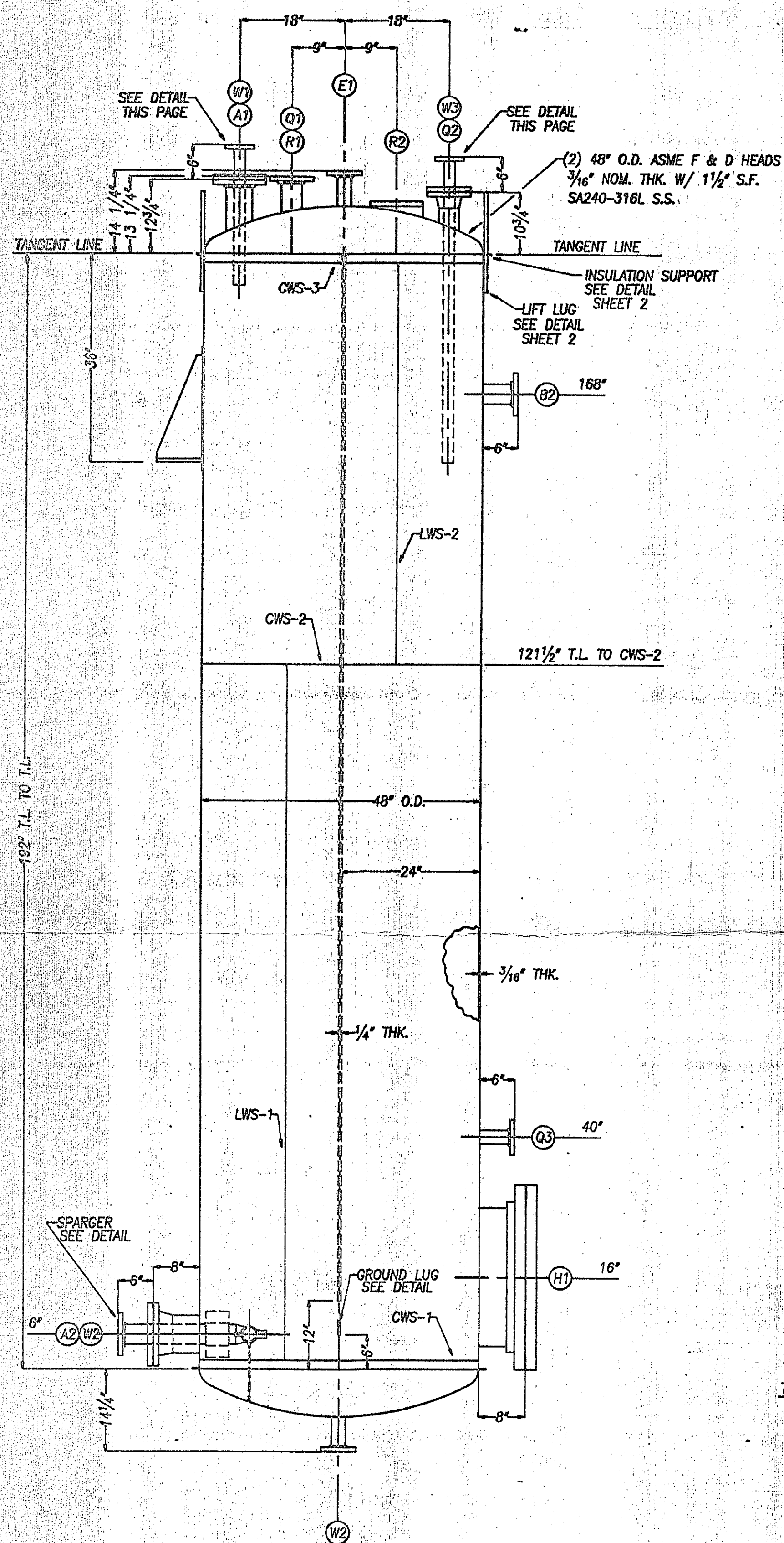
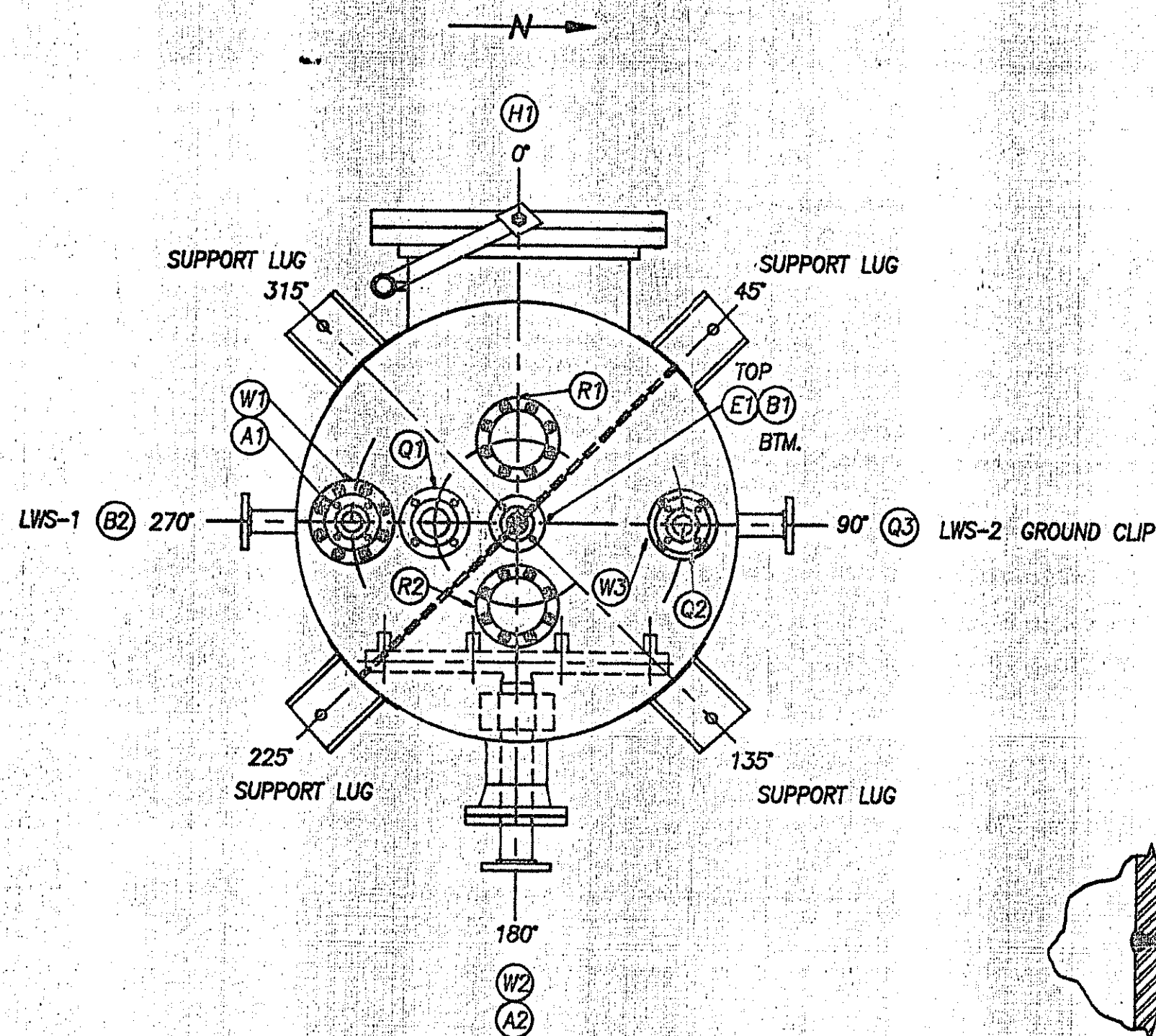
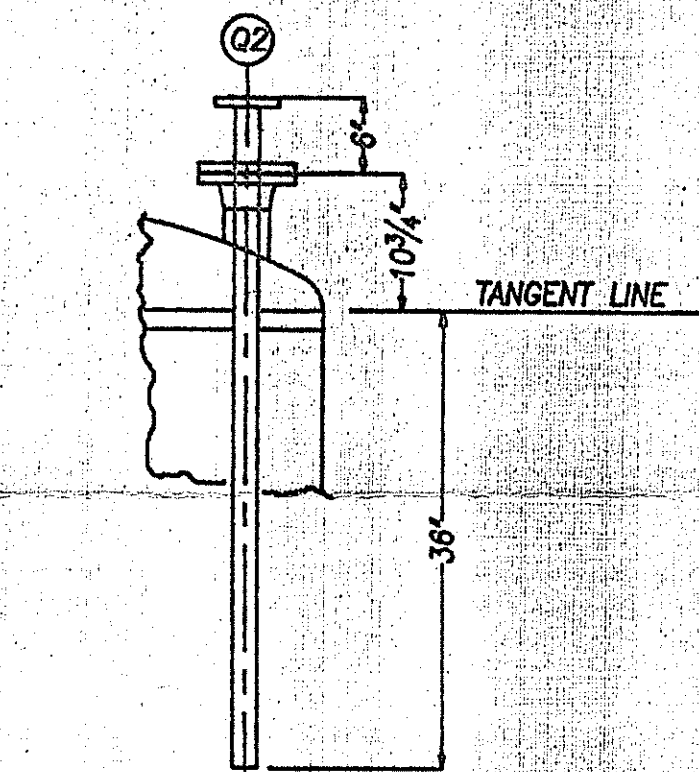




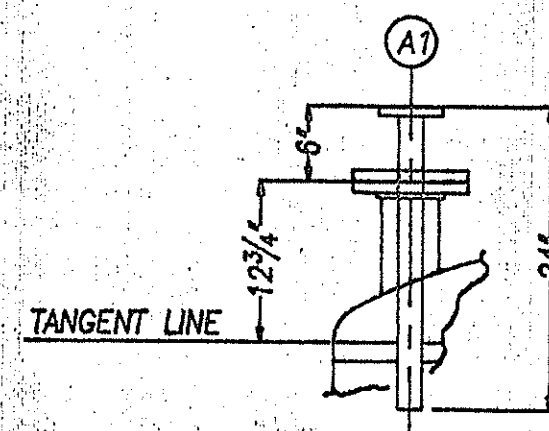
ELEVATION



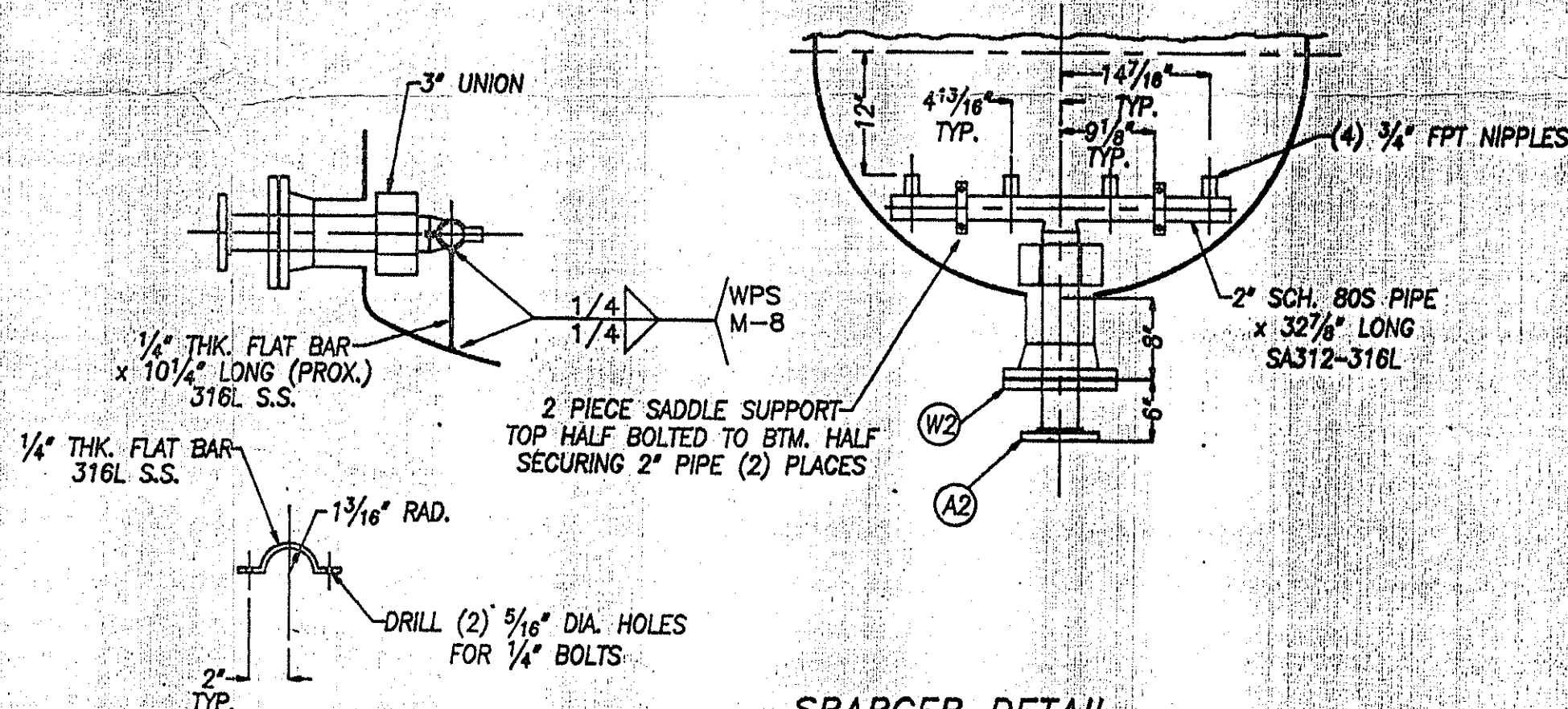
ORIENTATION



NOZZLE "Q2" DETAIL



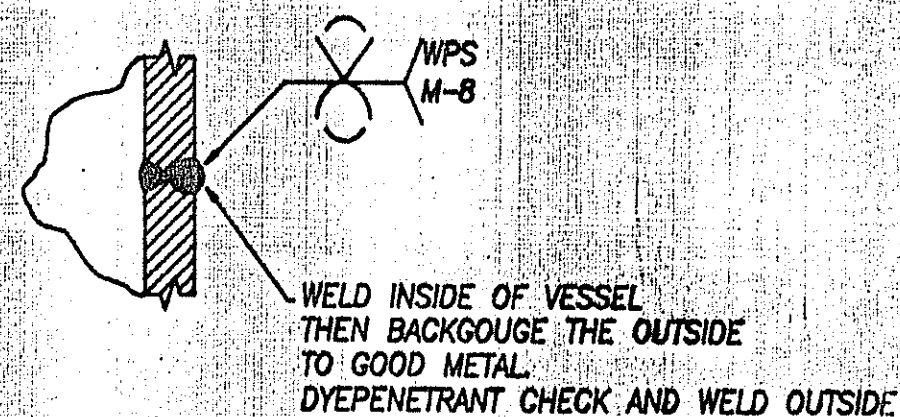
NOZZLE "A1" DETAIL



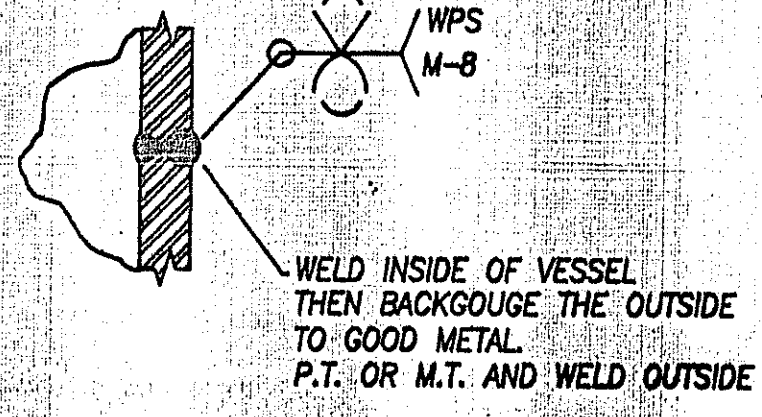
SPARGER DETAIL

NOTES:

- ALL NOZZLE BOLT HOLES TO STRADDLE NATURAL CENTERLINES OF THE VESSEL.
- GRIND AND RADIUS ALL SHARP CORNERS PER ASME CODE.
- NO SPLATTER OR ARC STRIKES ARE PERMITTED ON THE VESSEL.
- CLEAN AND DRAIN BEFORE SHIPMENT AND PROTECT ALL OPENINGS W/ COVERS.
- NOZZLES "R1" AND "R2" CONSIST OF (1) 4" CLASS 150 STUDDING OUTLET AND (1) CYCLOPS 4" FGD 461 SIGHT GLASS EACH.
- ALL LAP JOINT FLANGES HAVE GUSSETS. SEE DETAIL SHEET 2.



LONG WELD SEAM DETAIL



CIRC. WELD SEAM DETAIL

NOZZLE SCHEDULE

| NO. | SIZE   | RATING | FACING | NECK    | REIN. PAD SIZE | COMMENTS                    |
|-----|--------|--------|--------|---------|----------------|-----------------------------|
| A1  | 2"     | N/A    | LW     | SCH 80S |                | PRODUCT INLET DIP-PIPE      |
| A1  | 3"     | 150#   | LW     | SCH 40S |                | SPARGER                     |
| B1  | 1 1/2" | 150#   | LW     | SCH 80S |                | DRAIN                       |
| B2  | 3"     | 150#   | LW     | SCH 40S |                | PRODUCT OUTLET              |
| E1  | 1 1/2" | 150#   | LW     | SCH 80S |                | VENT                        |
| H1  | 24"    | EQ-35A | EQ-35A |         |                | MANWAY W/ DAVIT             |
| Q1  | 3"     | 150#   | LW     | SCH 40S |                | VACUUM RELIEF VALVE         |
| Q2  | 1 1/2" | 150#   | LW     | SCH 80S |                | BUBBLER DIP TUBE            |
| Q3  | 1 1/2" | 150#   | LW     | SCH 80S |                | TEMPERATURE INDICATOR PROBE |
| R1  | 4"     | 150#   | NOTE 5 | SCH 40S |                | COMB. SIGHT/LIGHT GLASS     |
| R2  | 4"     | 150#   | NOTE 5 | SCH 40S |                | COMB. SIGHT/LIGHT GLASS     |
| W1  | 4"     | 150#   | LW     | SCH 40S |                | SUPPORT OF A1               |
| W2  | 6"     | 150#   | RFWN   | SCH 40S |                | SPARGE RING MOUNTING NOZZLE |
| W3  | 3"     | 150#   | RFWN   | SCH 40S |                | BUBBLER MOUNTING NOZZLE     |

SISTERSVILLE TANK WORKS, INC.  
SISTERSVILLE, W.V.

| SHELL SIDE                      | BACKSIDE                        |
|---------------------------------|---------------------------------|
| -0.3125 TO 6 PSI AT 259 °F      | PSI AT °F                       |
| MAX. ALLOWABLE WORKING PRESSURE | MAX. ALLOWABLE WORKING PRESSURE |
| -1 °F AT -0.3125 TO 6 PSI       | °F AT PSI                       |
| MIN. DESIGN METAL TEMP.         | MIN. DESIGN METAL TEMP.         |
| SER. NO. 92-293                 | YEAR BUILT 1992                 |

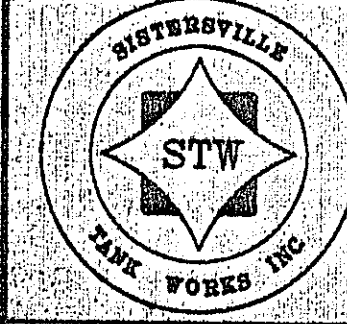
SISTERSVILLE TANK WORKS, INC.  
NAME PLATE DETAIL

| MATERIALS OF CONSTRUCTION |                                                             |
|---------------------------|-------------------------------------------------------------|
| SHELL                     | SA240-316L                                                  |
| HEADS                     | SA240-316L                                                  |
| FLANGES                   | SA105/SA516-70/SA182-F316L                                  |
| NOZZLE NECKS              | SA312-TP316L/SA240-316L                                     |
| VESSEL SUPPORTS           | SA516-70                                                    |
| EXT. BOLTS & NUTS         | SA193-B7 & SA194-2H Xylan COATED PER MOC-615                |
| INT. BOLTS & NUTS         |                                                             |
| GASKETS                   | SPRIL WOUND 316 SS W/ PTFE FILLER 1/16" THK. GRAFOIL GR GHR |
| DIRECT ATTACH.            | SA240-316L                                                  |

| DESIGN CONDITIONS |                                                      |
|-------------------|------------------------------------------------------|
| DESIGN PRESS.     | 6 PSIG -0.3125 VAC                                   |
| DESIGN TEMP.      | 259 °F -1 MIN °F                                     |
| OPERATING PRESS.  | PSIG VAC                                             |
| OPERATING TEMP.   | °F °C                                                |
| CORR. ALLOW.      | NONE                                                 |
| CODE              | DESIGNED & FAB. PER 1989 ED. ASME SECT. VIII DIV. 1. |
| CODE STAMP        | NOT REQUIRED                                         |
| NAT'L. BD. REG.   | NOT REQUIRED                                         |
| STRESS RELIEF     | NOT REQUIRED                                         |
| RADIOGRAPH        | SPOT PER UW-52                                       |
| JOINT EFF.        | 85%                                                  |
| HYDRO TEST        | 23 PSI HOR. @ TOP                                    |
| SPECIAL SERVICE   | 1.0                                                  |

| CAPACITIES AND WEIGHTS |       |                            |         |
|------------------------|-------|----------------------------|---------|
| OPERATING CAP.         | GAL   |                            | CU. FT. |
| FULL CAPACITY          | 1,581 | GAL                        | 212     |
| EMPTY WEIGHT           | 3,844 | LBS./FULL H <sub>2</sub> O | 17,073  |
| OPERATING WT.          |       | LBS./FULL PROD.            |         |

SUBFACE PREPARATION  
NOT REQUIRED  
PAINTING PER UCC PAINT SPEC. PCM-212  
MANUFACTURER: WISCONSIN PRIMER/FINISH: PLASITE 7122-H (GREEN)



SISTERSVILLE TANK WORKS, INC.  
ENGINEERING DEPARTMENT  
1942 MCCOY STREET  
SISTERSVILLE, W.VA 26175

|                                    |               |                    |             |                         |          |
|------------------------------------|---------------|--------------------|-------------|-------------------------|----------|
| CUSTOMER                           | LIFE SCIENCES | PURCHASE ORDER NO. | 8549-490028 | DATE OF P.O.            | 08/14/92 |
| OZONE CONTACTOR<br>ITEM NO. D-8170 |               |                    |             |                         |          |
| DRAWN BY                           | M.P.S.        | DATE DRAWN         | 10/02/92    | SHEET                   | 1 OF 2   |
| DWG. NO. 92-293                    |               |                    |             | PLOT: 11/23/92 09:17:14 |          |

| REVISIONS |          |                          | REVISIONS |     |      | REVISIONS   |    |     | REVISIONS |             |    |
|-----------|----------|--------------------------|-----------|-----|------|-------------|----|-----|-----------|-------------|----|
| NO.       | DATE     | DESCRIPTION              | BY        | NO. | DATE | DESCRIPTION | BY | NO. | DATE      | DESCRIPTION | BY |
| 0         | 11/23/92 | RELEASED FOR FABRICATION | M.P.S.    |     |      |             |    |     |           |             |    |