



| BILL OF MATERIAL | | | | |
|--------------------------|-----------|---|---------|--------|
| MARK | SIZE | DESCRIPTION | QTY | WEIGHT |
| 1 | 4 | PIPE, S/80 SMLS, SA-106-B | 6770 MM | 108.8 |
| 2 | 4X1 | THREDDLET, 3000LB, SA-105N | 1 | 0.6 |
| 3 | 4 | ELL, 90 LR S/80, SA-234-WPB | 2 | 7.9 |
| 4 | 1 | PLUG HEX HEAD, THRD 3000LB, SA-105N | 1 | 0.4 |
| 5 | 4 | FLG, RFWN 600LB S/80 BORE, SA-105N | 2 | 38.1 |
| 6 | 4 | GASKET, RF 600LB, 1/8" FLEXICARB FLEXIBLE GRAPHITE, 316SS | 1 | 1.0 |
| 7 | 7/8X5 3/4 | STUD BOLTS W/ 2 NUTS, 193-B7M/194-2HM | 8 | 1.0 |
| TOTAL FABRICATION WEIGHT | | | | 157.6 |

| CUT PIPE LENGTH | | |
|-----------------|-------------|-------------|
| PIECE NUM | LENGTH (MM) | SIZE (INCH) |
| <A> | 838 | 4 |
| | 5932 | 4 |

NOTES:

- REGISTERED QUALITY CONTROL PROGRAM AQP 1084 FOR FACILITY AT 7550-114 AVE SE CALGARY AB.
REGISTERED QUALITY CONTROL PROGRAM AQP 1316 FOR FACILITY AT 1020-40 AVE NE CALGARY AB.
REGISTERED QUALITY CONTROL PROGRAM AQP 21830 FOR FACILITY AT 502 MITCHELL STREET NORTH REDCLIFF AB.
- EXTERIOR & INTERIOR OF PIPE TO BE FREE OF WELD SLAG, SPATTER, GREASE, MOISTURE, ETC.
- ALL DIMENSIONS ARE IN MILIMETERS, UNLESS OTHERWISE NOTED.
- ALL PIPING CUT LENGTHS ARE CALCULATED WITH A (3 mm) WELD GAP.
- FOR TACK WELDS USE PES-WPS-02
- DESIGN PRESSURE EQUALS MAWP.

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| LINE NUMBER | | 4" -600_M_S-600-GAS OUTLET | | SPEC | 600# | FLUID SERVICE | NORMAL FLUID SERVICE | PIPE CODE | ASME B31.3 (LATEST EDITION & ADENDA) | WPS | PES-WPS-02/04 | CLIENT | STOCK | | | | | | | | | |
| FITTING TO PIPE | SOL/TOL/WOL | TRANSITION WELD | PIG BAR WELD | RFSO FLANGE | SOCKET WELD | | | DES. PRESS. | 9928 kPa (1440 PSI) | CA | 3.2mm (0.125") | | PROJECT | | | | | | | | | |
| | | | | | | | DES. TEMP. | 38°C (100°F) | SANDBLAST | SSPC-SP6 | | | 24" OD X 28'-0" S/S 1440 PSI AB SOUR DEHY. PACKAGE PIPING ISOMETRIC | | | | | | | | | |
| | | | | | | | MMDT | -29°C (-20°F) | PRIME | (1) COAT OF FAST PRIMER | | | FROM | | | | | | | | | |
| | | | | | | | TEST PRESS. | 14892 kPa (2160 PSI) | PAINT | (1) COAT OF FINSH DTM F34 WARM GRAY | | | TO | | | | | | | | | |
| 1.) PES-WPS-04 | 2.) PES-WPS-02 | 3.) PES-WPS-16A | 4.) PES-WPS-02 | 5.) PES-WPS-02 | 6.) PES-WPS-02 | REV. | REVISION DESCRIPTION | DATE | BY | CHK'D | APP'D | DESIGN DATA | APP'D BY | DG | 15-11-09 | 30086 | DWG. NO. | 30086-ISO-02 | SHT | 1 OF 1 | REV. | 1 |