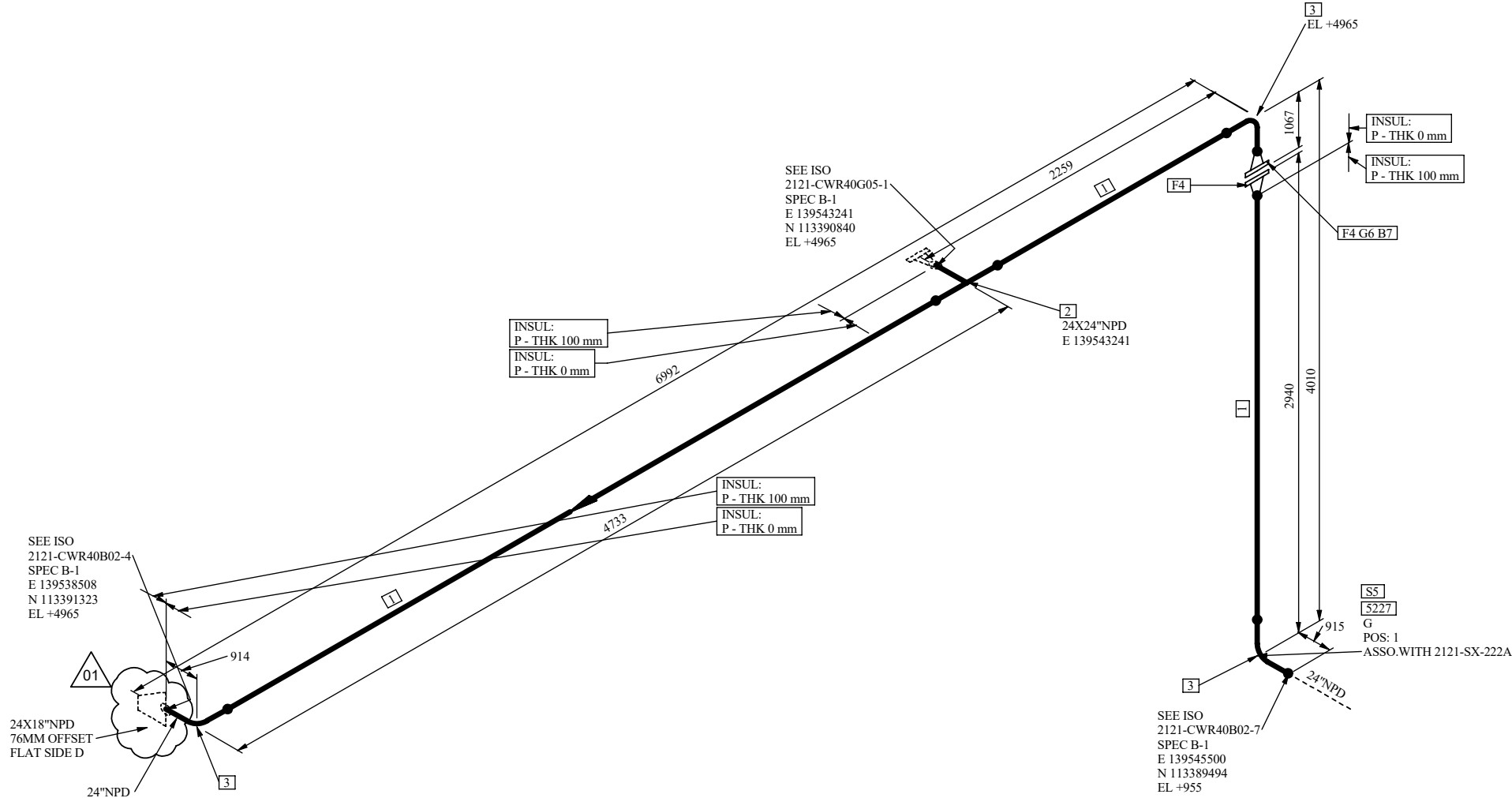


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EXTR. DATE: 13-06-2023 17:23:56




STREAM NO.:4105

REV. CAUSE ID: 19



REMARKS FOR MECHANICAL SUBCONTRACTOR:

- 1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED.
- 2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION.
- 3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL , ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT
- 4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603.
- 5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.
- 6) CROSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.
- 7) IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.
- 8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF.TO 4274-LZ-PC-00000603).
- 9) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902/ 4274 -NN-DW-00000002 AND ASSEMBLY NO FEA005 AND FE019.

| | | | | | | | | | |
|-------------------------|--|---|--|---|---------|--------------|----------|----------|--------------|
| SUPPORTS LEGEND: | |  DENOTES PARTS LIST NO | PIPE SUPPORT  | A=RESTING SUPPORT WHERE  WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE. | G=GUIDE | F=AXIAL STOP | B=ANCHOR | M=SPRING | S=TEFLON PAD |
|-------------------------|--|---|--|---|---------|--------------|----------|----------|--------------|

| | | | | | | | |
|------|-------------------------|-----------|----------|----------|------------|--------------|--|
| | | | | | | | STRESS CALC. N° REP-PE-008 |
| 01 | ISSUED FOR CONSTRUCTION | 13-JUN-23 | U.CHAVAN | P.VAZE | G.PAGANONI | | P & ID 19-A-19-000-1-01-00001 sheet 37 |
| 00 | ISSUED FOR CONSTRUCTION | 13-JAN-23 | U.CHAVAN | P.VAZE | G.PAGANONI | | LINE LIST N° 19-L-19-000-2-00-80602 |
| REV. | DESCRIPTION | DATE | DRW. BY | CHECK BY | APPR. BY | APPR. CLIENT | PIPE LAYOUT N° 19-L-19-000-2-00-86198 sheet 1 |

APPROVED FOR
CONSTRUCTION

Signature for construction is shown
on Iso list of relevant CWA

ISOMETRIC DRAWING
LINE

24"-CWR-40B02-B-1 (P)

BILL OF MATERIAL

| PT NO | COMPONENT DESCRIPTION | N.S. (IN) | ITEM CODE | QTY | HOLD STATUS |
|---------------|--|-----------|-----------|-------|-------------|
| PIPE | | | | | |
| 1 | PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B124STD> (L-7806) | 24 | I117907 | 6.2 M | |
| FITTINGS | | | | | |
| 2 | STRAIGHT TEE ASME B16.9 A234-WPB BE SMLS C31DC04V01 S-STD <TEBA200F326152615> (L-6955) | 24X24 | I129150 | 1 | |
| 3 | 90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F324STD> (L-7955) | 24 | I128581 | 3 | |
| FLANGES | | | | | |
| 4 | WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-STD <WNFA300R1524STD> (L-149) | 24 | I4067800 | 2 | |
| PIPE SUPPORTS | | | | | |
| 5 | WELDED BASE -BW01 DN2 = 20 L = 450 | 24 | 5227 | 1 | |
| GASKETS | | | | | |
| 6 | FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC24> (L-NMG11) | 24 | I1169044 | 1 | |
| BOLTS | | | | | |
| 7 | STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G11/463/4> - 2 NUTS PER BOLT - 175 mm Length | 1.1/4 | I53438258 | 20 | |

PIPE MATERIAL

CS

HEAT TREATMENT (PWHT)

N

PAINTING SCHEME (3)

1

PIPING CLASS

B-1

WELDING CLASS (4)

E

PED CATEGORY

III

INSULATION CODE / THK. (mm)

P

100

- NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.
2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102.
3. WELDING ACCORDING TO 45-L-45-000-2-00-80021.
4. PAINTING ACCORDING TO 45-A-45-000-1-00-20160.
5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "~N/A~" MEANS UNICODE IS "NOT AVAILABLE".



LOW LINEAL DENSITY POLYETHYLENE (PEL)
AND POLYPROPYLENE (PP) PLANTS
FOR PROJECT - ALBA PROJECT

CLIENT / COMPLEX
REPSOL POLYMERS/
SINES INDUSTRIAL COMPLEX

ANNEX
19

SPEC.
L

DRAWING NUMBER
19-000-2-02-00001 sheet 2121CWR40B02-3

REV.
01