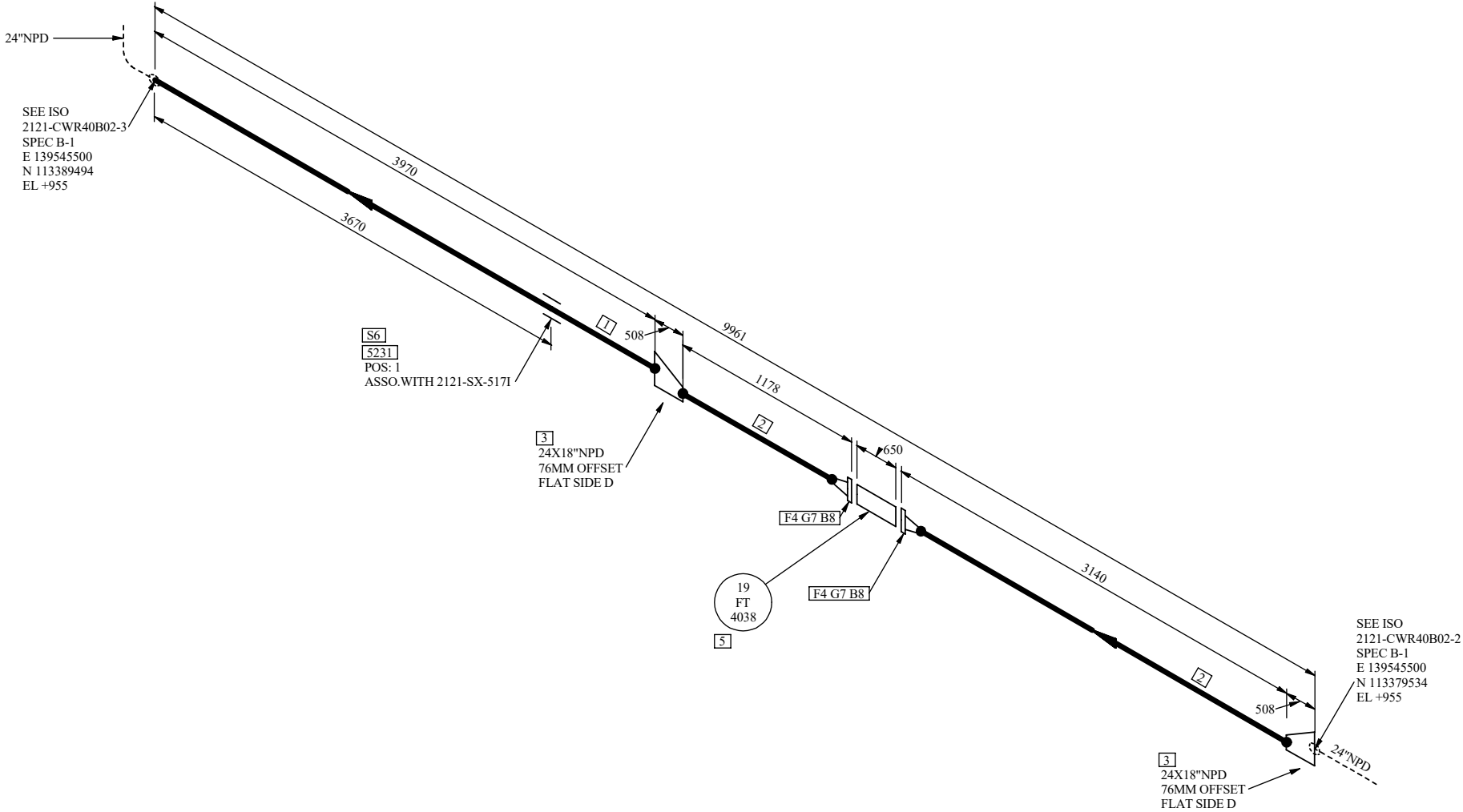


THIS DOCUMENT BELONGS TO REPSOL. IT CAN NOT BE COPIED, REPRODUCED AND/OR USED WITHOUT PREVIOUS AUTHORIZATION OF REPSOL. COMPUTERIZED DRAWING (HANDWRITING STRICTLY FORBIDDEN).

EXTR. DATE: 25-03-2023 09:38:42






STREAM NO.:4105

REV. CAUSE ID:



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  G=GUIDE  F=AXIAL STOP  B=ANCHOR  M=SPRING  S=TEFLON PAD WHERE  WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.

|      |                         |           |         |          |            |              |  |
|------|-------------------------|-----------|---------|----------|------------|--------------|--|
|      |                         |           |         |          |            |              | STRESS CALC. N°<br>REP-PE-008                    |
|      |                         |           |         |          |            |              | P & ID<br>19-A-19-000-1-01-00001 sheet 37        |
| 00   | ISSUED FOR CONSTRUCTION | 24-MAR-23 | M.YADAV | P.VAZE   | G.PAGANONI |              | LINE LIST N°<br>19-L-19-000-2-00-80602           |
| REV. | DESCRIPTION             | DATE      | DRW. BY | CHECK BY | APPR. BY   | APPR. CLIENT | PIPE LAYOUT N°<br>19-L-19-000-2-00-86198 sheet 1 |



APPROVED FOR  
CONSTRUCTION

Signature for construction is shown  
on Iso list of relevant CWA

TITLE  
**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        | 1117907    | 4.0 M |             |
| 2             | PIPE - A106-B BE SMLS T01AC03V02 S-20 <PIPA010B11820> (L-8210)   | 18        | 1117849    | 4.1 M |             |
| FITTINGS      |  |           |            |       |             |
| 3             | ECCENTRIC REDUCER ASME B16.9 A234-WPB BE SMLS C22DC04V01 S-STD S-20 <EREA200F326152310> (L-8276)                               | 24X18     | 1425582    | 2     |             |
| FLANGES       |  |           |            |       |             |
| 4             | WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-20 <WNFA300R151820> (L-149)                              | 18        | 1818482    | 2     |             |
| INSTRUMENTS   |  |           |            |       |             |
| 5             | INSTRUMENT COMPONENT   | 18        | 19-FT-4038 | 1     |             |
| PIPE SUPPORTS |  |           |            |       |             |
| 6             | RESTING SHOE WELDED -C4A1 H = 150 L = 300  | 24        | 5231       | 1     |             |
| GASKETS       |  |           |            |       |             |
| 7             | FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC18> (L-NMG11)                       | 18        | 11169041   | 2     |             |
| BOLTS         |  |           |            |       |             |
| 8             | STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G11/853/4> - 2 NUTS PER BOLT - 150 mm Length | 1.1/8     | 153438059  | 32    |             |

|   |  |                            |          |
|---|--|----------------------------|----------|
| PIPE MATERIAL   | NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.<br>2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102.<br>3. WELDING ACCORDING TO 45-L-45-000-2-00-80021.<br>4. PAINTING ACCORDING TO 45-A-45-000-1-00-20160.<br>5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE". |                            |          |
| CS  |  |                            |          |
| HEAT TREATMENT (PWHT)                                 |  |                            |          |
| N   |  |                            |          |
| PAINTING SCHEME (3)                                   |  |                            |          |
| 1   | CONTRACTOR:  | CONTRACTOR DRAWING NUMBER: | PROJECT: |
| PIPING CLASS  |   | 4274-XH-DL-2121CWR40B02-7  | 4001008  |
| B-1   |  |                            |          |
| WELDING CLASS (4)                                     |  LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX   |                            |          |
| E   |  |                            |          |
| PED CATEGORY  | III  |                            |          |
| INSULATION CODE / THK. (mm)                           | P 100  | ANNEX 19                   | SPEC. L  |
| DRAWING NUMBER 19-000-2-02-00001 sheet 2121CWR40B02-7 |  |                            | REV. 00  |