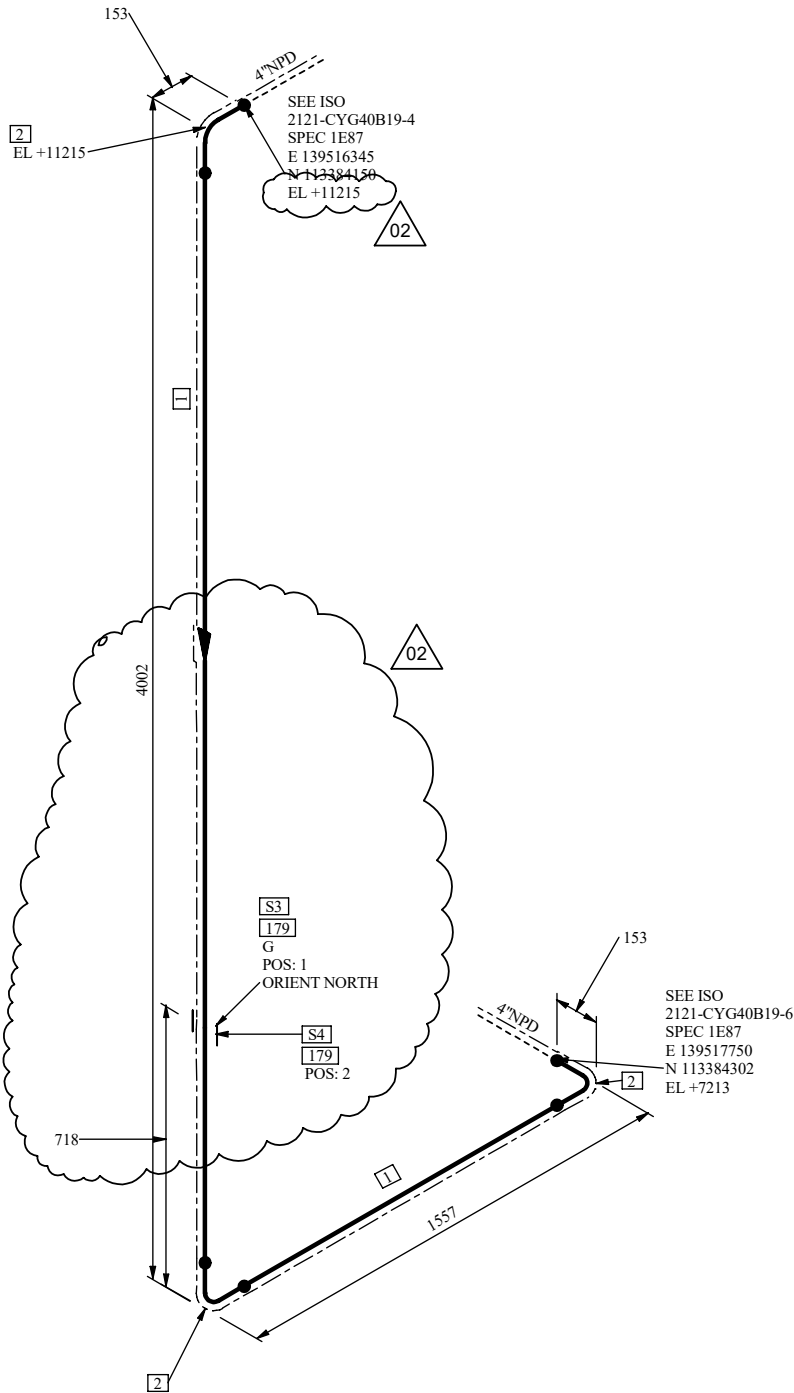


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
EXTR. DATE: 07-12-2023 11:37:08

STREAM NO.:4513    STREAM REV. NO. : 10    REV. CAUSE ID: 23



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.

|      |                         |           |          |          |            |              |                                                  |
|------|-------------------------|-----------|----------|----------|------------|--------------|--------------------------------------------------|
| 02   | ISSUED FOR CONSTRUCTION | 08-DEC-23 | U.CHAVAN | P.VAZE   | G.PAGANONI |              | STRESS CALC. N°<br>-                             |
| 01   | ISSUED FOR CONSTRUCTION | 24-AUG-23 | U.CHAVAN | P.VAZE   | G.PAGANONI |              | P & ID<br>19-A-19-000-1-01-00001 sheet 29        |
| 00   | ISSUED FOR CONSTRUCTION | 11-NOV-22 | 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-19-000-2-00-86196 sheet 2 |



APPROVED FOR  
CONSTRUCTION

Signature for construction is shown  
on Iso list of relevant CWA

TITLE  
**ISOMETRIC DRAWING  
LINE**  
4"-CYG-40B19-1E87 (SS)

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 <PIPA010B14STD> (L-7806)                   | 4         | I117953   | 5.0 M |             |
| FITTINGS      |                                                                                   |           |           |       |             |
| 2             | 90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F34STD> (L-7955) | 4         | I128635   | 3     |             |
| PIPE SUPPORTS |                                                                                   |           |           |       |             |
| 3             | WELDED GUIDE-C1G2 H = 100 L = 300                                                 | 4         | 179       | 1     |             |
| 4             | WELDED BRACKET TO STRUCT. SB02 L100X100X10                                        | 4         | 179       | 1     |             |

|                             |  |                                                                                                                                                                                                                                                                                                                                                      |                                                             |                         |                                                                       |            |
|-----------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------|------------|
| 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)         |  |                                                                                                                                                                                                                                                                 | CONTRACTOR DRAWING NUMBER:<br><br>4274-XH-DL-2121CYG40B19-5 | PROJECT:<br><br>4001008 |                                                                       |            |
| 20                          |  |                                                                                                                                                                                                                                                                                                                                                      |                                                             |                         |                                                                       |            |
| PIPING CLASS                |  |                                                                                                                                                                                                                                                                                                                                                      |                                                             |                         |                                                                       |            |
| 1E87                        |  |                                                                                                                                                                                                                                                                                                                                                      |                                                             |                         |                                                                       |            |
| WELDING CLASS (4)           |  | LOW LINEAL DENSITY POLYETHYLENE (PEL)<br>AND POLYPROPYLENE (PP) PLANTS<br>FOR PROJECT - ALBA PROJECT                                                                                                                                                                                                                                                 |                                                             |                         | CLIENT / COMPLEX<br><br>REPSOL POLYMEROS/<br>SINES INDUSTRIAL COMPLEX |            |
| A-1                         |  |                                                                                                                                                                                                                                                                                                                                                      |                                                             |                         |                                                                       |            |
| PED CATEGORY                |  |                                                                                                                                                                                                                                                                                                                                                      |                                                             |                         |                                                                       |            |
| II                          |  |                                                                                                                                                                                                                                                                                                                                                      |                                                             |                         |                                                                       |            |
| INSULATION CODE / THK. (mm) |  |                                                                                                                                                                                                                                                                 | ANNEX<br>19                                                 | SPEC.<br>L              | DRAWING NUMBER<br>19-000-2-02-00001 sheet 2121CYG40B19-5              | REV.<br>02 |
| SS                          |  |                                                                                                                                                                                                                                                                                                                                                      |                                                             |                         |                                                                       |            |