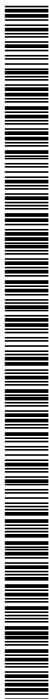


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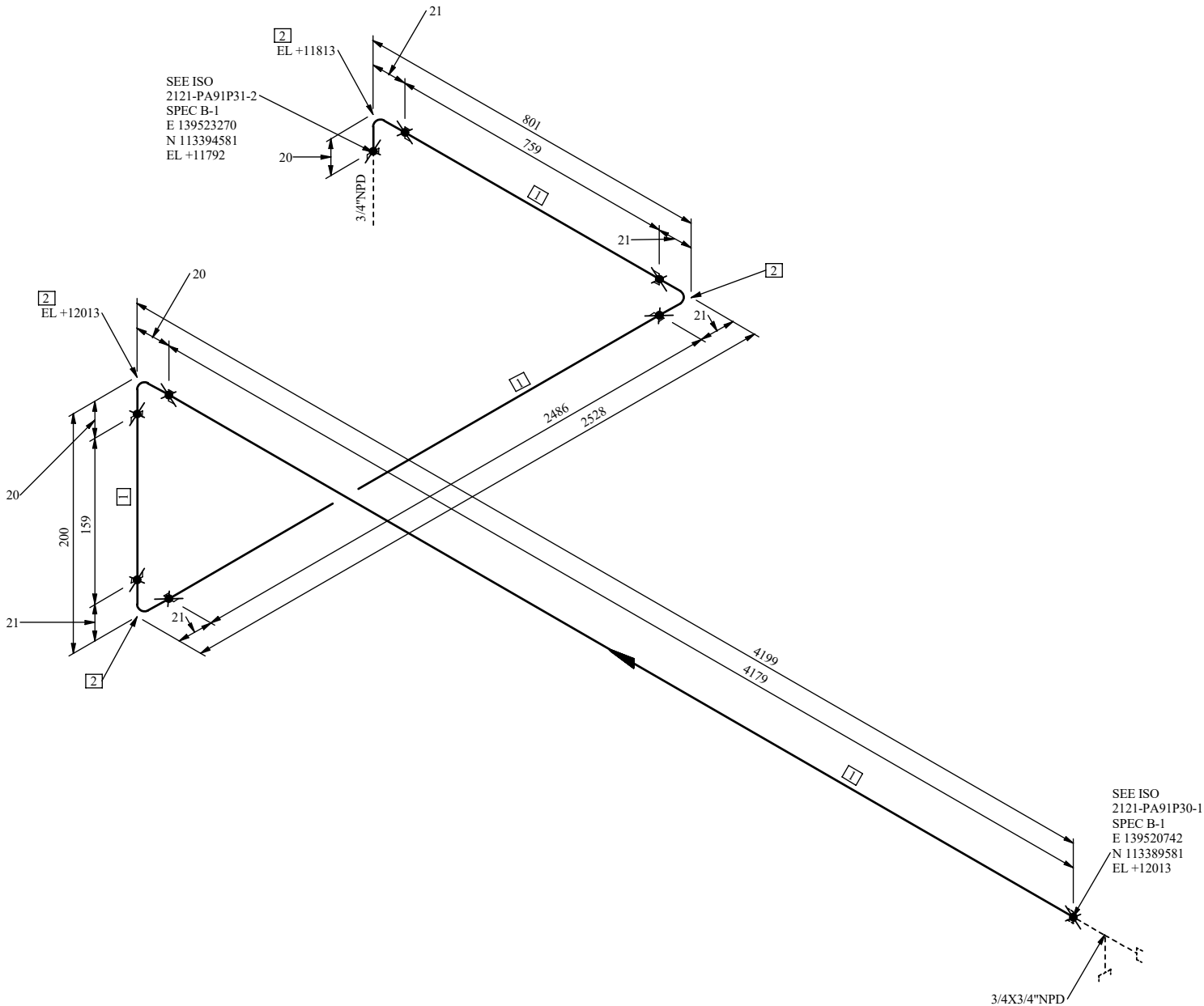


EXTR. DATE: 09-06-2023 07:47:47

STREAM NO.:190

REV. CAUSE ID:

REV. NO. : 9



BILL OF MATERIAL

| PT NO    | COMPONENT DESCRIPTION   | N.S. (IN) | ITEM CODE | QTY   | HOLD STATUS |
|----------|---|-----------|-----------|-------|-------------|
| PIPE     |   |           |           |       |             |
| 1        | PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A13/4XS> (L-6679)                       | 3/4       | I132785   | 7.6 M |             |
| FITTINGS |   |           |           |       |             |
| 2        | 90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREQD <90FA300LBK3/4> (L-178) | 3/4       | I1651298  | 4     |             |

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



|      |                      |           |          |          |            |              |  |
|------|----------------------|-----------|----------|----------|------------|--------------|--|
|      |                      |           |          |          |            |              | STRESS CALC. N°                                  |
|      |                      |           |          |          |            |              | -  |
|      |                      |           |          |          |            |              | P & ID<br>19-A-19-000-1-01-00001 sheet 112       |
| 00   | ISSUED FOR REFERENCE | 09-JUN-23 | U.CHAVAN | 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-19-000-2-00-86197 sheet 3 |

ISSUED FOR REFERENCE

Signature for construction is shown on Iso list of relevant CWA

ISOMETRIC DRAWING LINE

3/4"-PA-91P31-B-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-2121PA91P31-1 | PROJECT:<br><br>4001008                                 |  |            |
| 1                           |  |  |  |   |  |            |
| PIPING CLASS                |  |  |  |   |  |            |
| B-1                         |  |  |  |   |  |            |
| WELDING CLASS (4)           |  | <div><div>LOW LINEAL DENSITY POLYETHYLENE (PEL)<br/>AND POLYPROPYLENE (PP) PLANTS<br/>FOR PROJECT - ALBA PROJECT</div></div> <div>CLIENT / COMPLEX<br/>REPSOL POLYMEROS/<br/>SINES INDUSTRIAL COMPLEX</div>   |  |   |  |            |
| PED CATEGORY                |  |  |  |   |  |            |
| Art 4.3                     |  |  |  |   |  |            |
| INSULATION CODE / THK. (mm) |  | ANNEX<br>19  | SPEC.<br>L   | DRAWING NUMBER<br>19-000-2-02-00001 sheet 2121PA91P31-1 |  | REV.<br>00 |
| N 0                         |  |  |  |   |  |            |