

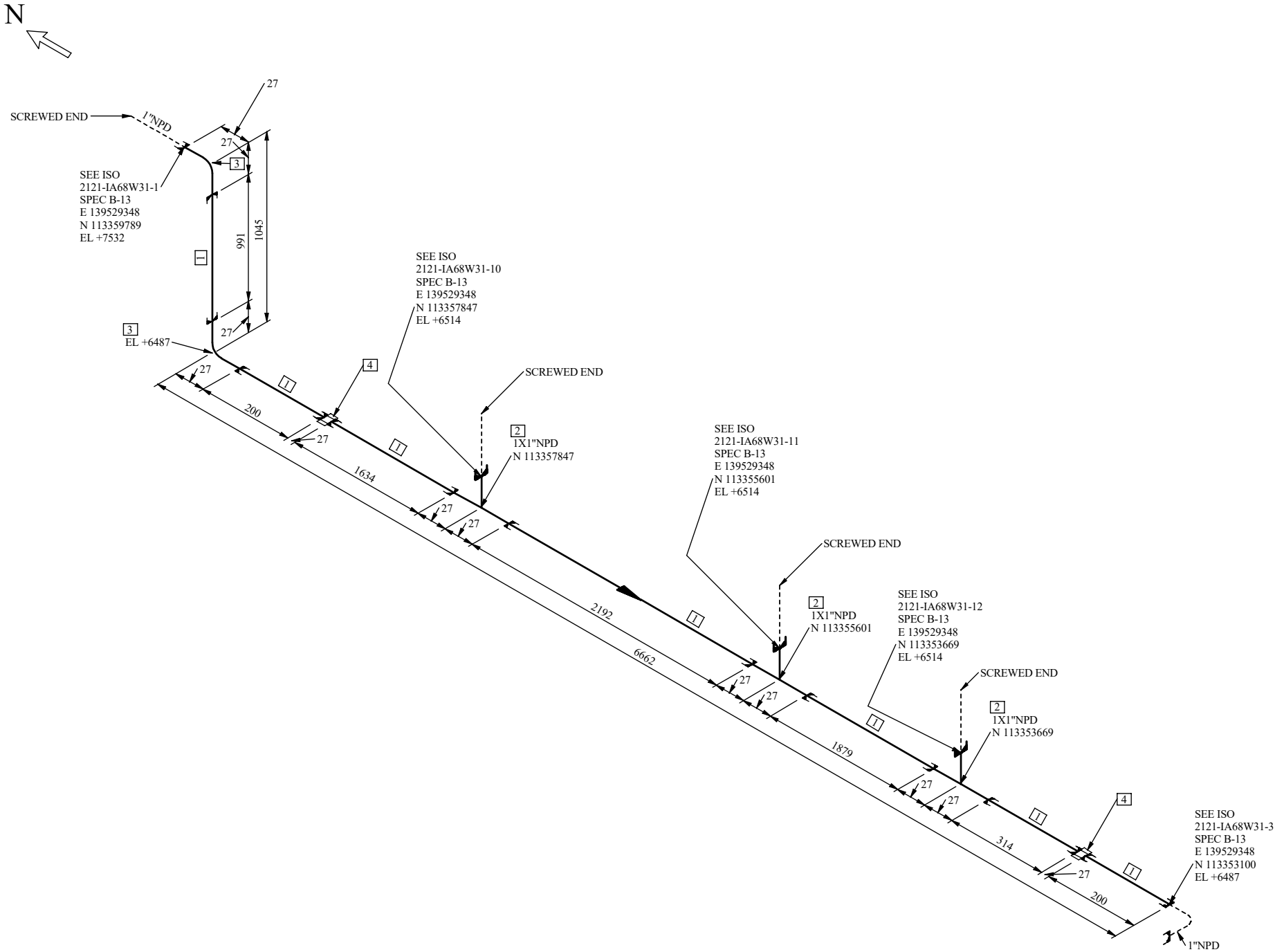
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EXTR. DATE: 19-05-2023 12:45:11


STREAM NO.:200





REV. CAUSE ID:

REV. NO. : 9



| BILL OF MATERIAL | | | | | |
|------------------|--|-----------|-----------|-------|-------------|
| PT NO | COMPONENT DESCRIPTION | N.S. (IN) | ITEM CODE | QTY | HOLD STATUS |
| PIPE | | | | | |
| 1 | PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C11XS> (N/A) | 1 | I145594 | 7.5 M | |
| FITTINGS | | | | | |
| 2 | TEE ASME B16.11 3000# A105 GALV FTE FTE - R11FNC022201 NREQD <TETG300KBK1> (L-8911) | 1X1 | I214944 | 3 | |
| 3 | 90 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R31FNC022203 NREQD <90TG300KBK1> (L-8907) | 1 | I214920 | 2 | |
| 4 | UNION ASME B16.11 3000# A105 GALV FTE FTE - R43FNC022201 NREQD <N/A> (N/A) | 1 | I45867360 | 2 | |

| 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° - |
| | | | | | | | P & ID 19-A-19-000-1-01-00001 sheet 124 |
| | | | | | | | LINE LIST N° 19-L-19-000-2-00-80602 |
| 00 | ISSUED FOR REFERENCE | 19-MAY-23 | U.CHAVAN | P.VAZE | G.PAGANONI | | PIPE LAYOUT N° 19-L-19-000-2-00-86192 sheet 2 |
| REV. | DESCRIPTION | DATE | DRW. BY | CHECK BY | APPR. BY | APPR. CLIENT | |

ISSUED FOR REFERENCE

Signature for construction is shown on Iso list of relevant CWA

ISOMETRIC DRAWING LINE

1"-IA-68W31-B-13

| | | | | | |
|-----------------------------|--|--|-------------|---|----------|
| PIPE MATERIAL | | 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". | | | |
| CS, Galvanized | | | | | |
| HEAT TREATMENT (PWHIT) | | | | | |
| - | | | | | |
| PAINTING SCHEME (3) | |  | CONTRACTOR: | CONTRACTOR DRAWING NUMBER: | PROJECT: |
| 4 | | | | 4274-XH-DL-2121IA68W31-2 | 4001008 |
| PIPING CLASS | | | | | |
| B-13 | | | | | |
| WELDING CLASS (4) | | LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT | | | |
| - | | | | | |
| PED CATEGORY | |  | | CLIENT / COMPLEX | |
| Art 4.3 | | | | REPSOL POLYMEROSES/ SINES INDUSTRIAL COMPLEX | |
| INSULATION CODE / THK. (mm) | | ANNEX | SPEC. | DRAWING NUMBER | REV. |
| N 0 | | 19 | L | 19-000-2-02-00001 sheet 2121IA68W31-2 | 00 |