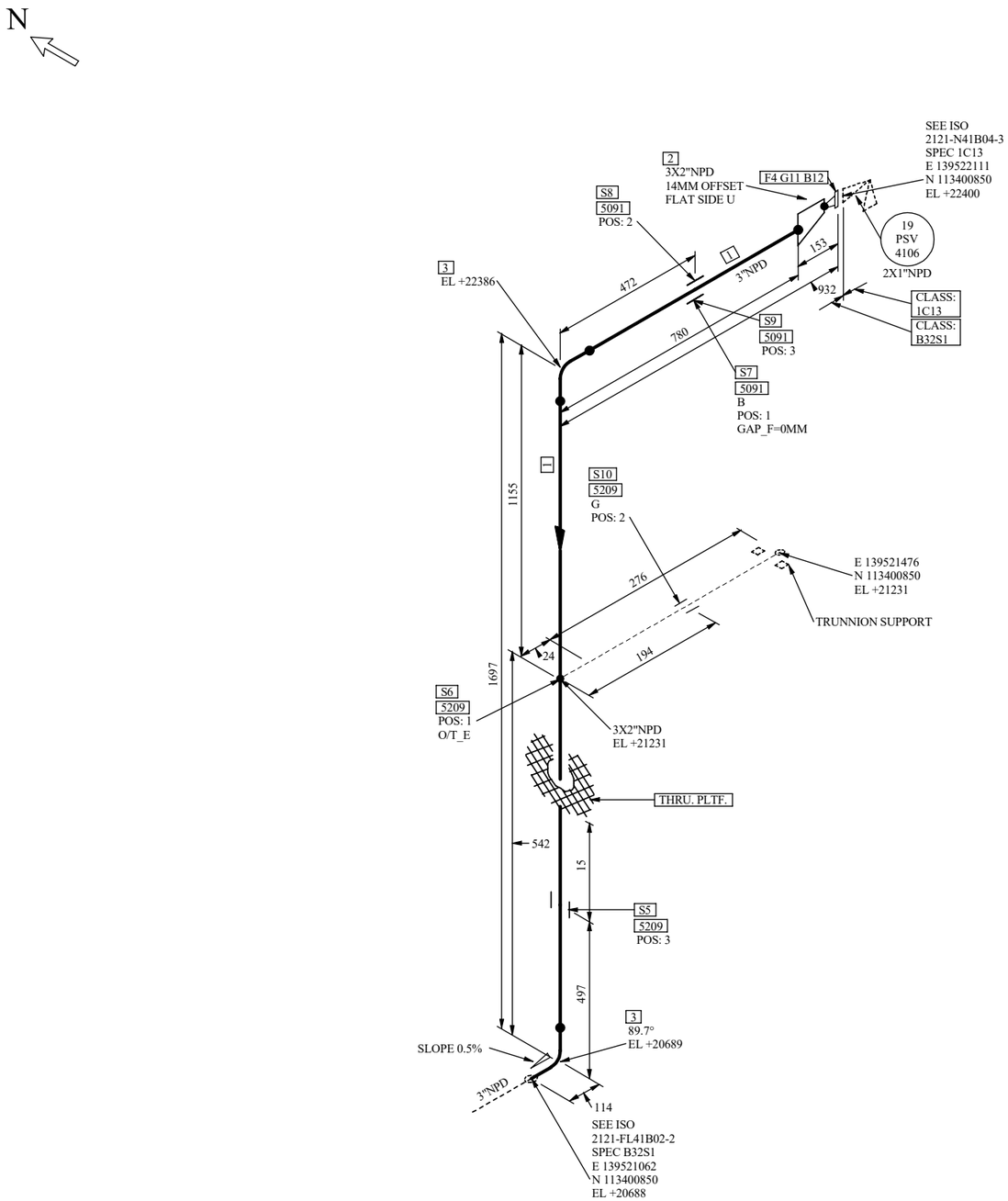
EXTR. DATE: 29-12-2022 12:39:38 STREAM NO.:3351 STREAM REV. NO. : 7 REV. CAUSE ID:



BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
	PIPE				
1	PIPE - A333-6 BE SMLS T01AC22V02 S-STD <PIPL020B13STD> (L-8199).	3	I146278	2.2 M	
	FITTINGS				
2	ECCENTRIC REDUCER ASME B16.9 A420-WPL6 BE SMLS C22DC09V01 S-STD S-STD <EREL210F315151415> (L-8238)	3X2	I213207	1	
3	90 LR ELBOW ASME B16.9 A420-WPL6 BE SMLS C01DC09V01 S-STD <90LL210F33STD> (L-7966).	3	I213645	2	
	FLANGES				
4	WN FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE BE 125 - 250 AARH F01CDC07BV05 S-STD <WNFL300R152STD> (L-7971)	2	I140779	1	
	PIPE SUPPORTS				
5	PIPING SUPPORT - BEAMS- BE03 HEA100	3	5209	1	
6	WELDED EXTENSIONS-EW05 DN2 = 2 L = 300	3	5209	1	
7	WELDED ANCHOR -C1B1 H = 100 L = 120	3	5091	1	
8	STAKES SUPPORTS ST05 HEA120	3	5091	1	
9	PIPING SUPPORT - BEAMS- BE03 HEA120	3	5091	1	
10	STANDARD GUIDE FOR NOT INS. PIPING-N1G1	2	5209	1	
	GASKETS				
11	FLAT RING GASKET ASME B16.21 150# RFTBE NA/CARBON/NBR ASME B16.5 G02HDP2QS01 <NMGQ102R1F2> (L-NMG17)	2	I1169081	1	
	BOLTS				
12	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/A194-7 INCH SIZE I01OB5301 <SB2R55G5/831/2> - 2 NUTS PER BOLT - 85 mm Length	5/8	I55705048	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: [1] DENOTES PARTS LIST NO — PIPE SUPPORT

A = RESTING SUPPORT G = GUIDE F = AXIAL STOP B = ANCHOR M = SPRING S = TEFLON PAD

WHERE [A] WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.

REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT
00	ISSUED FOR CONSTRUCTION	30-DEC-22	U.CHAVAN	P.VAZE	G.PAGANONI	

APPROVED FOR CONSTRUCTION

Signature for construction is shown on Iso list of relevant CWA

TITLE

ISOMETRIC DRAWING LINE

3"-FL-41B02-B32S1

STRESS CALC. Nº	REP-PE-047
P & ID	19-A-19-000-1-01-00001 sheet 53
LINE LIST Nº	19-L-19-000-2-00-80602
PIPE LAYOUT Nº	19-L-19-000-2-00-86197 sheet 6

PIPE MATERIAL	CS, low temperature
HEAT TREATMENT (PWHT)	N
PAINTING SCHEME (3)	1
PIPING CLASS	B32S1
WELDING CLASS (4)	M
PED CATEGORY	I
INSULATION CODE / THK. (mm)	N 0

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".

CONTRACTOR:	CONTRACTOR DRAWING NUMBER:	PROJECT:
Tecnimont	4274-XH-DL-2121FL41B02-1	4001008

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

CLIENT / COMPLEX: REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

ANNEX	SPEC.	DRAWING NUMBER	REV.
19	L	19-000-2-02-00001 sheet 2121FL41B02-1	00

FILENAME: 19-000-2-02-00001 sheet 2121FL41B02-1.dwg