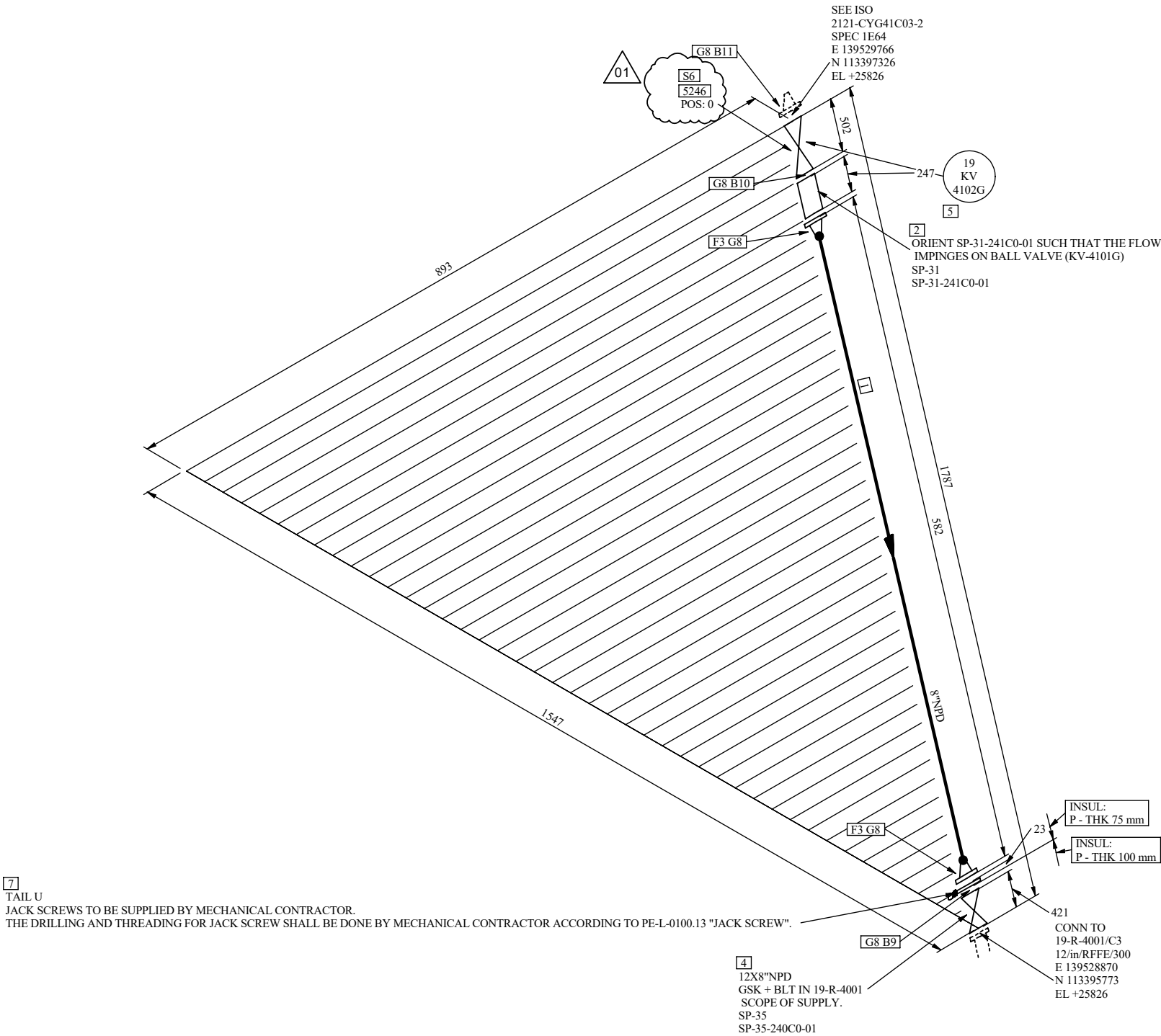



THIS DOCUMENT BELONGS TO REPSOL. IT CAN NOT BE COPIED, REPRODUCED AND/OR USED WITHOUT PREVIOUS AUTHORIZATION OF REPSOL. COMPUTERIZED DRAWING (HANDWRITING STRICTLY FORBIDDEN).





EXTR. DATE: 01-12-2023 16:40:58

STREAM NO.:3121 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.

							STRESS CALC. N° -
01	ISSUED FOR CONSTRUCTION	01-DEC-23	U.CHAVAN	P.VAZE	G.PAGANONI		P & ID 19-A-19-000-1-01-00001 sheet 54
00	ISSUED FOR CONSTRUCTION	26-MAY-2023	M.YADAV	P.VAZE	G.PAGANONI		LINE LIST N° 19-L-19-000-2-00-80602
REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	PIPE LAYOUT N° 19-L-19-000-2-00-86197 sheet 7

APPROVED FOR
CONSTRUCTION



Signature for construction is shown
on Iso list of relevant CWA

TITLE
**ISOMETRIC DRAWING
LINE**

12"-CYG-41C03-1E64 (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 <PIPA010B18STD> (L-7806)	8	I117995	0.4 M	
FITTINGS					
2	SPECIALTY COMPONENT	8	SP-31-241C0-01	1	
FLANGES					
3	WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-XS <WNFA300R358XS> (L-236).	8	I4275043	2	
VALVES / IN-LINE ITEMS					
4	SPECIALTY COMPONENT	12X8	SP-35-240C0-01	1	
INSTRUMENTS					
5	INSTRUMENT COMPONENT	8	19-KV-4102G	1	
PIPE SUPPORTS					
6	SPECIALITY SUPPORT - SP-008	8	5246	1	
FITTINGS					
7	SPECTACLE DISC ASME B16.48 300# A516-70 NORM. FFTBE 125 - 250 AARH SUPPL. REQ. S5 ASME B16.5 D0601FC65004 NREQD <FI8A510F3A18> (L-FI827)	8	I4295456	1	
GASKETS					
8	SPIRAL WOUND GASKET ASME B16.20 300# RFFE 304/PTFE CARBON STEEL SS 304 ASME B16.5 G03GFB11G12 <SPAQ505R3EA8> (L-SPA05)	8	I63598792	5	
BOLTS					
9	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G7/863/4> - 2 NUTS PER BOLT - 170 mm Length	7/8	I53437673	12	
10	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <- 2 NUTS PER BOLT - 390 mm Length	7/8	I65518092	12	
11	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G7/851/2> - 2 NUTS PER BOLT - 140 mm Length	7/8	I53437666	12	

PIPE MATERIAL		<div>NOTES:</div> <div>1. FOR TECHNICAL DETAILS SEE LINE LIST.</div> <div>2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102.</div> <div>3. WELDING ACCORDING TO 45-L-45-000-2-00-80021.</div> <div>4. PAINTING ACCORDING TO 45-A-45-000-1-00-20160.</div> <div>5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "~N/A~" MEANS UNICODE IS "NOT AVAILABLE".</div>							
CS									
HEAT TREATMENT (PWHIT)									
N									
PAINTING SCHEME (3)		<div>CONTRACTOR:</div> <div></div>		<div>CONTRACTOR DRAWING NUMBER:</div> <div>4274-XH-DL-2121CYG41C03-1</div>		<div>PROJECT:</div> <div>4001008</div>			
I									
PIPING CLASS									
1E64									
WELDING CLASS (4)		<div>LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT</div> <div></div>				<div>CLIENT / COMPLEX</div> <div>REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX</div>			
A-6									
PED CATEGORY									
III									
INSULATION CODE / THK. (mm)		<div>ANNEX</div> <div>19</div>		<div>SPEC.</div> <div>L</div>		<div>DRAWING NUMBER</div> <div>19-000-2-02-00001 sheet 2121CYG41C03-1</div>		<div>REV.</div> <div>01</div>	
P 100									