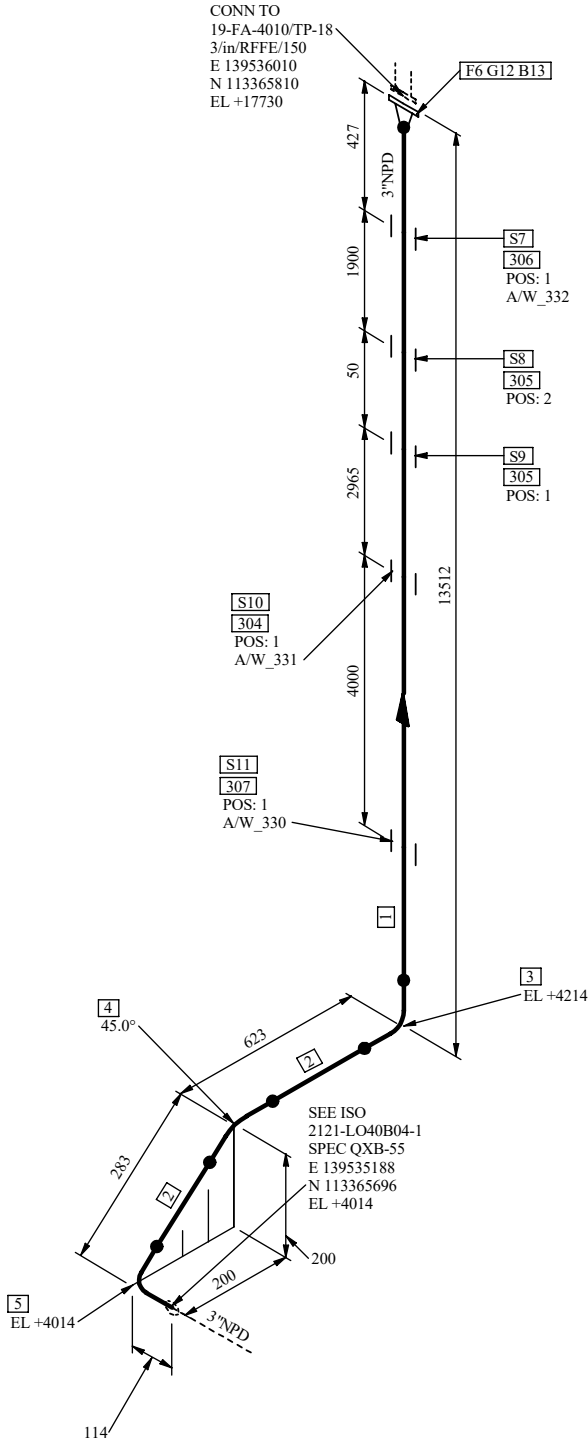


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PREVIOUS AUTHORIZATION OF REPSOL. COMPUTERIZED DRAWING (HANDWRITING STRICTLY FORBIDDEN).


EXTR. DATE: 09-11-2023 10:45:48






STREAM NO. : 10      REV. CAUSE ID: 1

01



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	10-NOV-23	M.YADAV	P.VAZE	G.PAGANONI		P & ID 19-A-19-000-1-01-00001 sheet 29B
00	ISSUED FOR CONSTRUCTION	19-MAY-23	U.CHAVAN	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-19-000-2-00-86192 sheet 4

APPROVED FOR  
CONSTRUCTION

Signature for construction is shown  
on Iso list of relevant CWA

ISOMETRIC DRAWING  
LINE

3"-LO-40B04-QXB-55 (P)

BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	PIPE - A312-TP304/304L DUAL GR BE SMLS T01AL2CV02 S-10S <PIPB04DB2310S> (L-PIP113).	3	13364303	13.4 M	
2	PIPE - A312-TP304/304L DUAL GR BE SMLS T01AL2CV02 S-10S <PIPB04DB2310S> (L-PIP113)	3	13364303	0.6 M	
FITTINGS					
3	90 LR ELBOW ASME B16.9 A403-WP304/304L DG BE SMLS C01DL2FV01 S-10S <90LB23DF3310S> (L-8052)	3	12259134	1	
4	45 LR ELBOW ASME B16.9 A403-WP304/304L DG BE SMLS C02DL2FV01 S-10S <45LB23DF3310S> (L-45L28)	3	12259146	1	
5	90 LR ELBOW ASME B16.9 A403-WP304/304L DG BE SMLS C01DL2FV01 S-10S <90LB23DF3310S> (L-8052).	3	12259134	1	
FLANGES					
6	WN FLANGE ASME B16.5 150# A182-F304/304L DUAL GR RF BE 125 - 250 AARH F01CDL2ABV05 S-10S <WNFB450R15310S> (L-WNF55).	3	12260689	1	
PIPE SUPPORTS					
7	U BOLT (FOR GUIDE)-P02D	3	306	1	
8	WELDED BRACKET TO STRUCT. SB30 L100X100X10	3	305	1	
9	U BOLT (FOR GUIDE)-P02D	3	305	1	
10	U BOLT (FOR GUIDE)-P02D	3	304	1	
11	U BOLT (FOR GUIDE)-P02D	3	307	1	
GASKETS					
12	SPIRAL WOUND GASKET ASME B16.20 150# RFTBE 316/GRAP SS 316 SS 316 ASME B16.5 G03GDP11A10 <N/A> (N/A)	3	11176462	1	
BOLTS					
13	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-B8 CL2/A194-8 INCH SIZE I01OB0901 <SB2R54G5/831/2> - 2 NUTS PER BOLT - 90 mm Length	5/8	163615920	4	

PIPE MATERIAL

304, dual grade

HEAT TREATMENT (PWHIT)

N

PAINTING SCHEME (3)

NR

PIPING CLASS

QXB-55

WELDING CLASS (4)

M

PED CATEGORY

Art 4.3

INSULATION CODE / THK. (mm)

P

50

NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.

2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-800102.

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".



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

ANNEX 19      SPEC. L      DRAWING NUMBER 19-000-2-02-00001 sheet 2121LO40B04-2

REV.

01