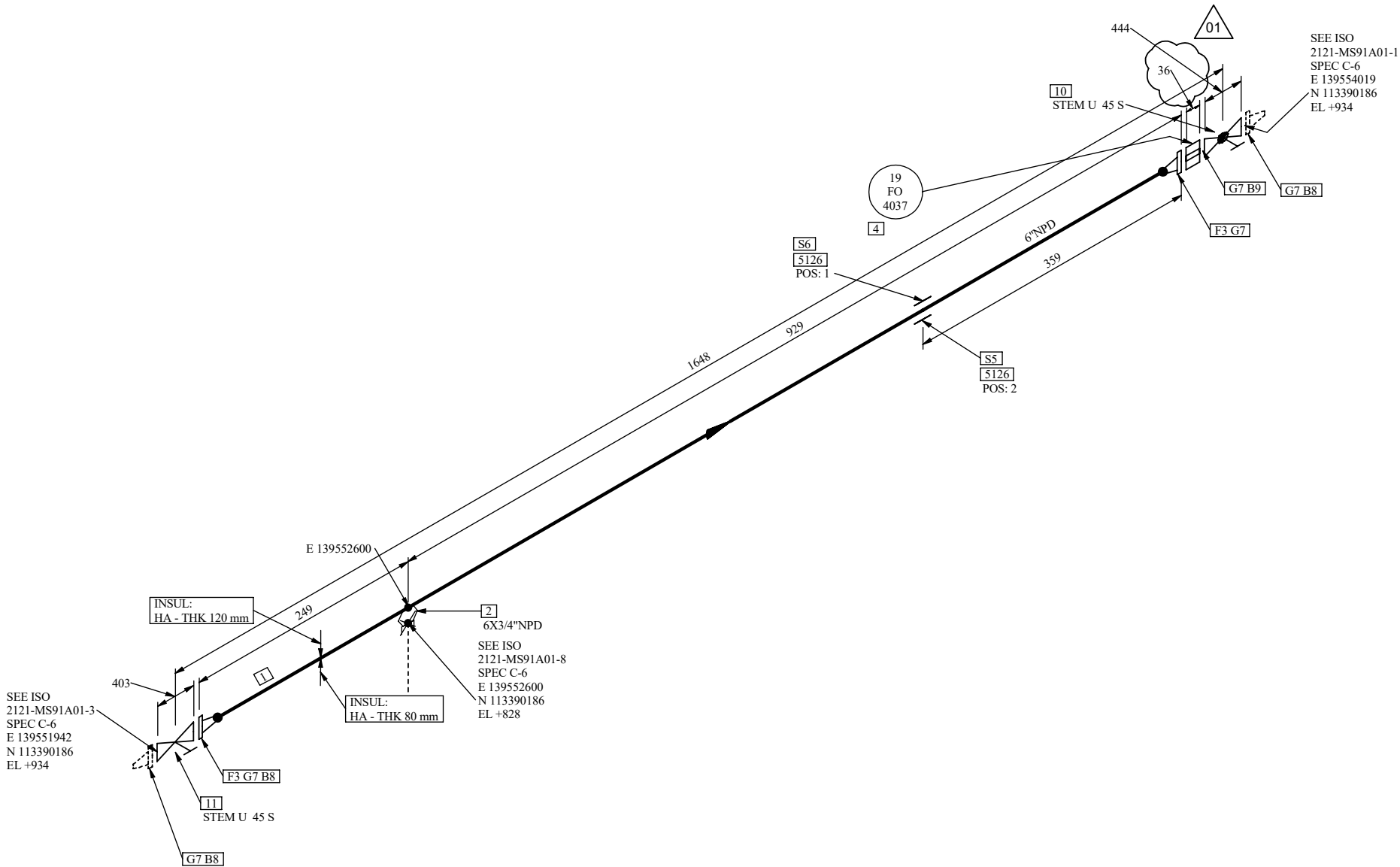
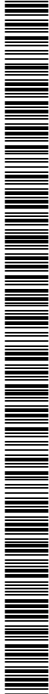


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EXTR. DATE: 15-03-2024 19:34:16

STREAM NO.:3140

REV. CAUSE ID: 3



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  WHERE  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	STRESS CALC. N° REP-PE-020
01	ISSUED FOR CONSTRUCTION	15-MAR-24	M.YADAV	P.VAZE	G.PAGANONI		P & ID 19-A-19-000-1-01-00001 sheet 117
00	ISSUED FOR CONSTRUCTION	06-JAN-23	M.YADAV	P.VAZE	G.PAGANONI		LINE LIST N° 19-L-19-000-2-00-80602
							PIPE LAYOUT N° 19-L-19-000-2-00-86198 sheet 1

APPROVED FOR
CONSTRUCTION

Signature for construction is shown
on Iso list of relevant CWA

ISOMETRIC DRAWING
LINE

6"-MS-91A01-C-6 (HA)

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 <PIPA010B16STD> (L-7806)	6	I117981	1.0 M	
FITTINGS					
2	REDUCING SOCKOLET MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01711> (L-343)	6X3/4	I1651371	1	
FLANGES					
3	WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R356STD> (L-236)	6	I4274965	2	
INSTRUMENTS					
4	INSTRUMENT COMPONENT	6	19-FO-4037	1	
PIPE SUPPORTS					
5	STAKES SUPPORTS ST09 L100X100X10	6	5126	1	
6	RESTING SHOE WELDED -C1A1 H = 150 L = 300	6	5126	1	
GASKETS					
7	SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 316/GRAP CARBON STEEL SS 316 ASME B16.5 G03GFP1IA01 <SPWQ400R36> (L-1528)	6	I1256132	5	
BOLTS					
8	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/45> - 2 NUTS PER BOLT - 125 mm Length	3/4	I53437468	36	
9	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/461/4> - 2 NUTS PER BOLT - 160 mm Length	3/4	I53437475	12	
VALVES / IN-LINE ITEMS					
10	GLOBE VALVE BS 1873 300# A216-WCB RFFE 5-HARDFACED BS 1873 B7/2H 125 - 250 AARH BB-OS&Y BS 1873 HW ASME B16.5 V02BFC29B3G NREQD <A46L-1743> (L-1743)	6	I2252363	1	
11	GATE VALVE API 600 300# A216-WCB RFFE 5-HARDFACED API 600 B7/2H 125 - 250 AARH BB-OS&Y FLXW API 600 HW ASME B16.5 V01FFC29B14 NREQD <G46L-1741> (L-1741)	6	I214364	1	

PIPE MATERIAL

CS

HEAT TREATMENT (PWHT)

N

PAINTING SCHEME (3)

NR

PIPING CLASS

C-6

WELDING CLASS (4)

E

PED CATEGORY

I

INSULATION CODE / THK. (mm)

HA

120

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".



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

CLIENT / COMPLEX
REPSOL POLYMEROS/
SINES INDUSTRIAL COMPLEX

ANNEX
19

SPEC.
L

DRAWING NUMBER
19-000-2-02-00001 sheet 2121MS91A01-2

REV.
01