BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
	PIPE SUPPORTS				
1	STAKES SUPPORTS ST02 HEA120	2	512	1	
2	U BOLT (FOR GUIDE)-P02D	2	512	1	
	PIPE				
3	PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C12XS> (N/A).	2	I145688	2.2 M	
4	PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C111/2XS> (N/A)	1.1/2	I145610	1.0 M	
5	PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C111/2XS> (N/A).	1.1/2	I145610	0.3 M	
	FITTINGS				
6	REDUCING TEE ASME B16.11 3000# A105 GALV FTE FTE - R12FNC022201 NREQD <RTEG300KBK211/2> (L-RTE01).	2X1.1/2	I225444	2	
7	CONCENTRIC SWAGE MSS SP-95 - A105 GALV MTE MTE SMLS SCH1-XS SCH2-XS R21FQC02WW01 <CSWG010DR13161016> (L-CSW28)	1.1/2X1/2	I64600712	2	
8	90 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R31FNC022203 NREQD <90TG300KBK11/2> (L-8907).	1.1/2	I214922	2	
9	45 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R32FNC022201 NREQD <45TG300KBK11/2> (L-8908).	1.1/2	I214934	2	
10	COUPLING ASME B16.11 3000# A105 GALV FTE FTE - R01FNC022201 NREQD <FCPG300KBK1/2> (L-8910)	1/2	I214895	2	
11	SPECIALTY COMPONENT	1/2	SPRAY NOZZLE	2	

SEE ISO
2121-FW68W31-4
SPEC B-13
E 139525400
N 113358096
EL +6500
SCREWED END
2"NPD

6
2X1.1/2"NPD
N 113358051

8 EL +7189

9 45.0°
7 1.1/2X1/2"NPD
E 139525741
N 113358051
EL +7067

1.1/2"NPD

11 SPRAY NOZZLE

S1 512 POS: 2
S2 512 POS: 1

8 EL +6989

9 45.0°
E 139525741
N 113355801
EL +6867

1.1/2"NPD

11 SPRAY NOZZLE

6
2X1.1/2"NPD
N 113355801

SEE ISO
2121-FW68W31-6
SPEC B-13
E 139525400
N 113355757
EL +6500

SCREWED END

STREAM REV. NO. : 7   REV. CAUSE ID:
STREAM NO.:74
EXTR. DATE: 28-01-2023 07:33:42
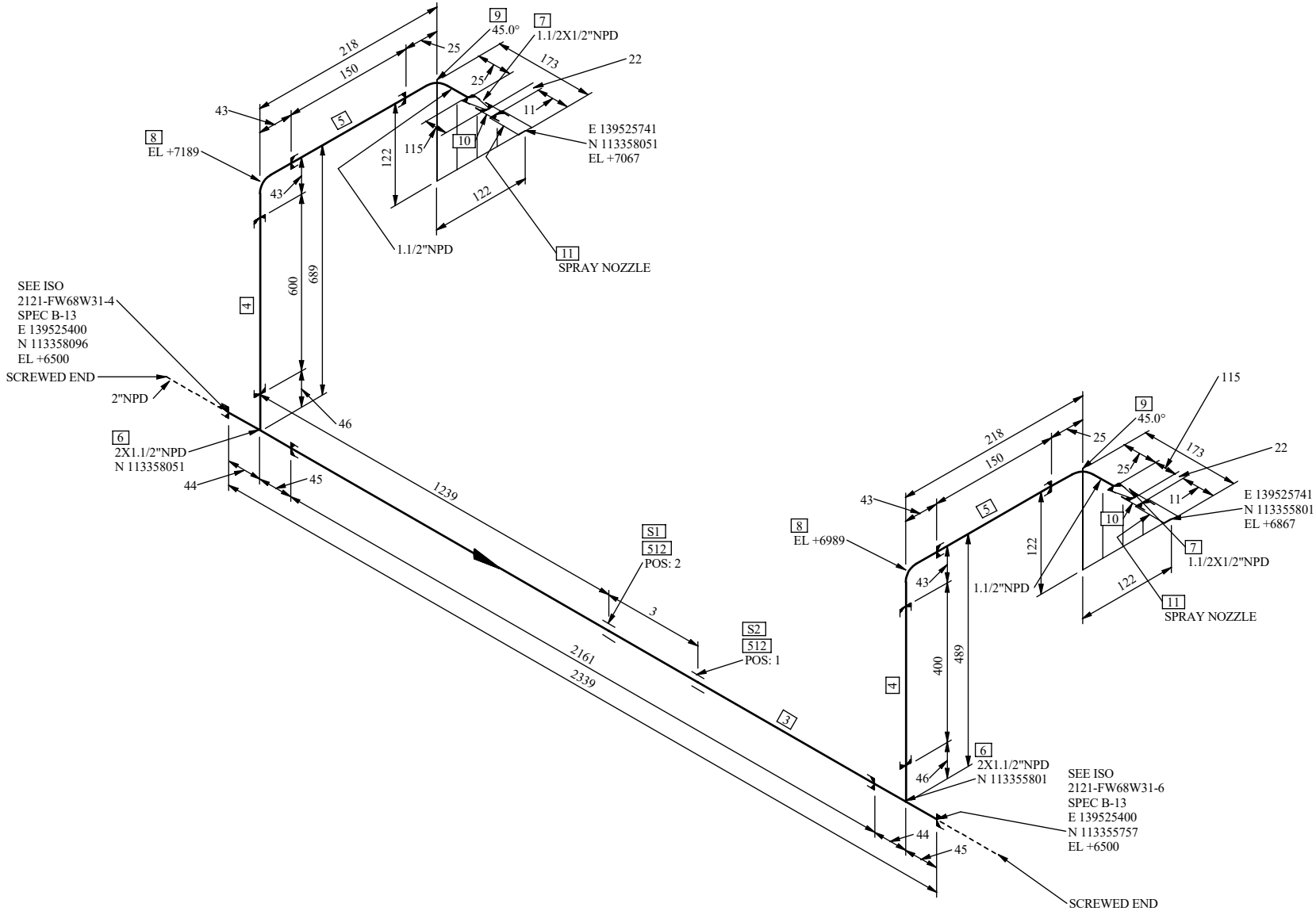
REMARKS FOR MECHANICAL SUBCONTRACTOR:
1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED.
2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION.
3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL ✖ , 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 A WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.

APPROVED FOR CONSTRUCTION

Signature for construction is shown on Iso list of relevant CWA

PIPE MATERIAL	
CS, Galvanized	
HEAT TREATMENT (PWHT)	
-	
PAINTING SCHEME (3)	4
PIPING CLASS	B-13
WELDING CLASS (4)	-
PED CATEGORY	Art 4.3
INSULATION CODE / THK. (mm)	N 0

CONTRACTOR: Tecnimont
CONTRACTOR DRAWING NUMBER: 4274-XH-DL-2121FW68W31-5
PROJECT: 4001008

TITLE
ISOMETRIC DRAWING LINE
2"-FW-68W31-B-13

REPSOL

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

CLIENT / COMPLEX
REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

STRESS CALC. Nº	-
P & ID	19-A-19-000-1-01-00001 sheet 124
LINE LIST Nº	19-L-19-000-2-00-80602
PIPE LAYOUT Nº	19-L-19-000-2-00-86192 sheet 2

REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT
00	ISSUED FOR CONSTRUCTION	27-JAN-23	U.CHAVAN	P.VAZE	G.PAGANONI	

ANNEX	SPEC.	DRAWING NUMBER	REV.
19	L	19-000-2-02-00001 sheet 2121FW68W31-5	00