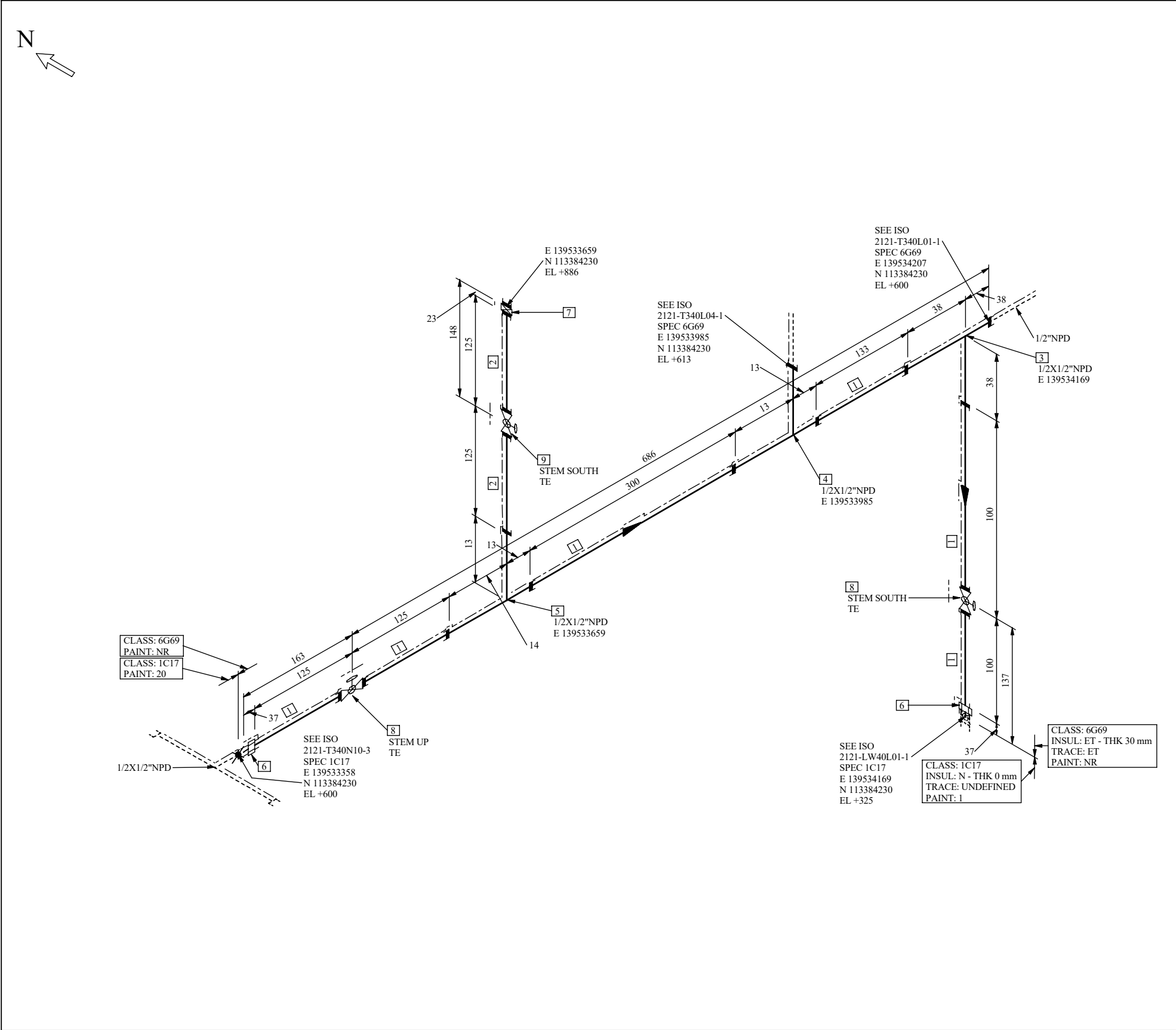


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EXTR. DATE: 27-11-2023 10:18:55

STREAM NO.:4524 STREAM REV. NO. : 10 REV. CAUSE ID: 23




BILL OF MATERIAL					
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	TUBE - A269-TP316/316L-DUAL GRADE PE SMLS T02ALK7Z01 0.065" tubing <N/A> (N/A)	1/2	I7062245	0.8 M	
2	TUBE - A269-TP316/316L-DUAL GRADE PE SMLS T02ALK7Z01 0.065" tubing <N/A> (N/A).	1/2	I7062245	0.2 M	
FITTINGS					
3	COMPR TEE STRAINER MFTR 6000psi A182-F316/316L DUAL GR FFRE FFRE Replaceable Strainer Element 140 µm nominal pore size Y07AALIM77Z3 NREQD <N/A> (N/A)	1/2X1/2	165640834	1	
4	COMPR UNION TEE MFTR - A182-F316/316L DUAL GR FFRE FFRE - R64AQLIM7708 NREQD <N/A> (N/A)	1/2X1/2	I7062366	1	
5	COMPR UNION TEE MFTR - A182-F316/316L DUAL GR FFRE FFRE - R64AQLIM7708 NREQD <N/A> (N/A).	1/2X1/2	I7062366	1	
6	COMPR MALE CONNECT MFTR - A182-F316/316L DUAL GR FFRE PE - R60AQLIM7Z10 NREQD <N/A> (N/A)	1/2	I7062335	2	
7	COMPR PLUG MFTR - A182-F316/316L DUAL GR FFRE NREQD - R68AQLIM7003 NREQD <N/A> (N/A).	1/2	I7062348	1	
VALVES / IN-LINE ITEMS					
8	COMPR BALL VALVE MFTR 6000# A182-F316/316L DUAL GR FFRE FFRE 316-CARBON/GLASS REINFORCED PTFE TRUNNION-MOUNTED OHW V70AOLIM7739 NREQD <N/A> (N/A)	1/2	165625050	2	
9	COMPR BALL VALVE MFTR 6000# A182-F316/316L DUAL GR FFRE FFRE 316-CARBON/GLASS REINFORCED PTFE TRUNNION-MOUNTED OHW V70AOLIM7739 NREQD <N/A> (N/A).	1/2	165625050	1	

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 REFERENCE	24-NOV-23	M.YADAV	P.VAZE	G.PAGANONI			P & ID 19-A-19-000-1-01-00001 sheet 42
00	ISSUED FOR REFERENCE	30-JUN-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-19-000-2-00-86196 sheet 1

ISSUED FOR REFERENCE	PIPE MATERIAL		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".			
	316, dual grade					
	HEAT TREATMENT (PWHT)					
	-					
Signature for construction is shown on Iso list of relevant CWA	PAINTING SCHEME (3)		CONTRACTOR: 	CONTRACTOR DRAWING NUMBER: 4274-XH-DL-2121T340L01-2	PROJECT: 4001008	
	NR					
	PIPING CLASS 6G69					
TITTLE ISOMETRIC DRAWING LINE 1/2"-T3-40L01-6G69 (ET)	WELDING CLASS (4)		LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT			CLIENT / COMPLEX REPSOL POLYMEROSES/ SINES INDUSTRIAL COMPLEX
	-					
	PED CATEGORY Art 4.3					
	INSULATION CODE / THK. (mm) ET 30			ANNEX 19	SPEC. L	DRAWING NUMBER 19-000-2-02-00001 sheet 2121T340L01-2