

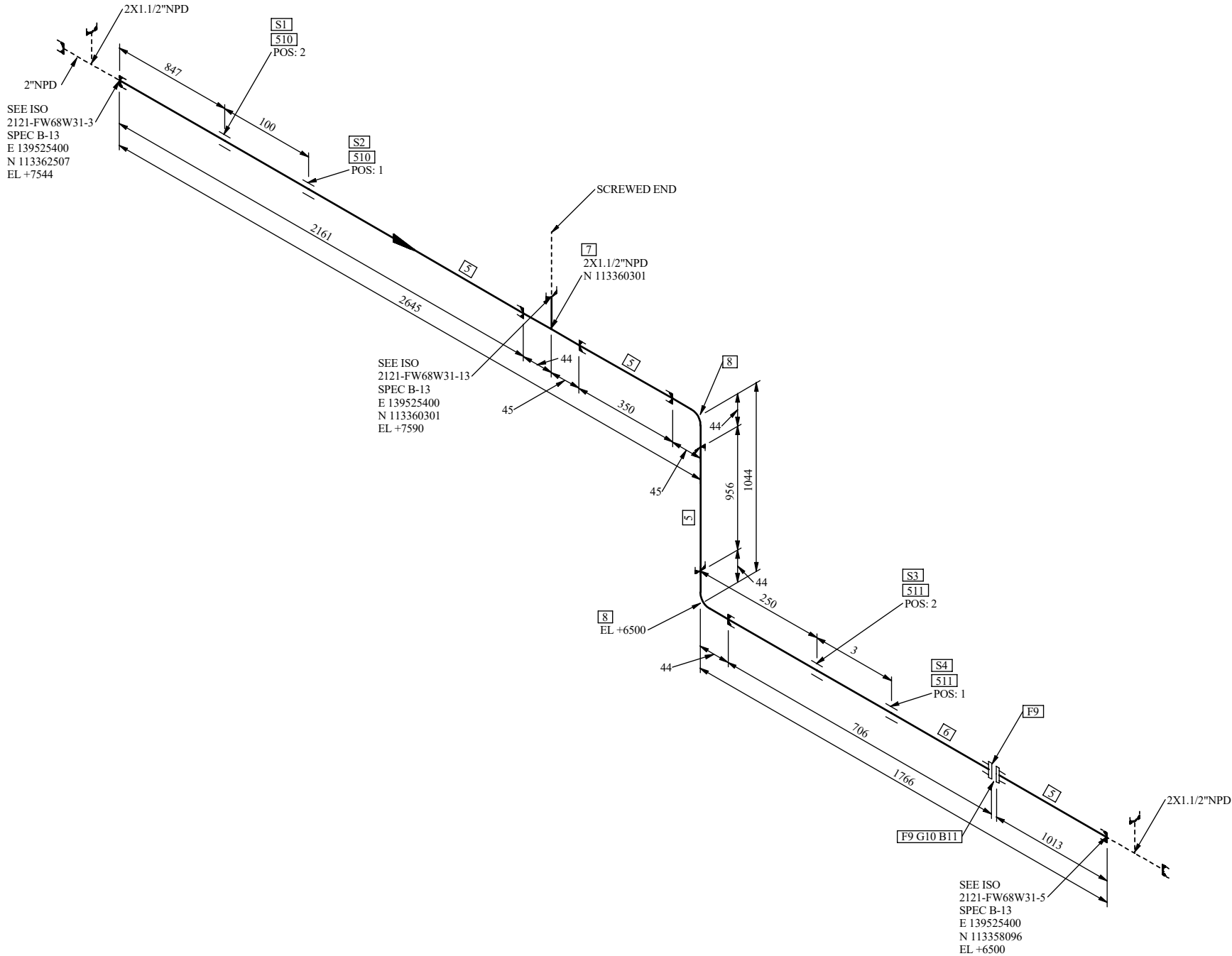
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EXTR. DATE: 28-01-2023 07:32:56

STREAM NO.: 74

STREAM REV. NO. : 7


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




BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE SUPPORTS					
1	VERTICAL STAKES WELDED TO STR. ST42 L100X100X10	2	510	1	
2	U BOLT (FOR GUIDE)-P02D	2	510	1	
3	STAKES SUPPORTS ST02 HEA120	2	511	1	
4	U BOLT (FOR GUIDE)-P02D	2	511	1	
PIPE					
5	PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C12XS> (N/A).	2	1145688	4.5 M	
6	PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C12XS> (N/A)	2	1145688	0.7 M	
FITTINGS					
7	REDUCING TEE ASME B16.11 3000# A105 GALV FTE FTE - R12FNC022201 NREQD <RTEG300KBK211/2> (L-RTE01).	2X1.1/2	1225444	1	
8	90 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R31FNC022203 NREQD <90TG300KBK2> (L-8907).	2	1214923	2	
FLANGES					
9	THD FLANGE ASME B16.5 150# A105 GALV RFFE FTE 125 - 250 AARH F03CDC02B205 <THFG300R152> (L-8918)	2	1215065	2	
GASKETS					
10	FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC2> (L-NMG11)	2	11169030	1	
BOLTS					
11	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H GALV. INCH SIZE I01OB6001 <SB2R6G5/831/2> - 2 NUTS PER BOLT - 85 mm Length	5/8	149881360	4	

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.

APPROVED FOR CONSTRUCTION

Signature for construction is shown on Iso list of relevant CWA

ISOMETRIC DRAWING LINE

2"-FW-68W31-B-13

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".		
CS, Galvanized			
HEAT TREATMENT (P/WHIT)			
-			
PAINTING SCHEME (3)	4	CONTRACTOR:	CONTRACTOR DRAWING NUMBER:
PIPING CLASS	B-13		4274-XH-DL-2121FW68W31-4
WELDING CLASS (4)	-	 LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX	
PED CATEGORY	Art 4.3		
INSULATION CODE / THK. (mm)	N 0	ANNEX 19	SPEC. L
DRAWING NUMBER 19-000-2-02-00001 sheet 2121FW68W31-4			REV. 00