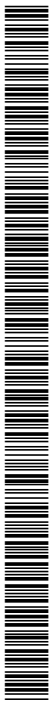


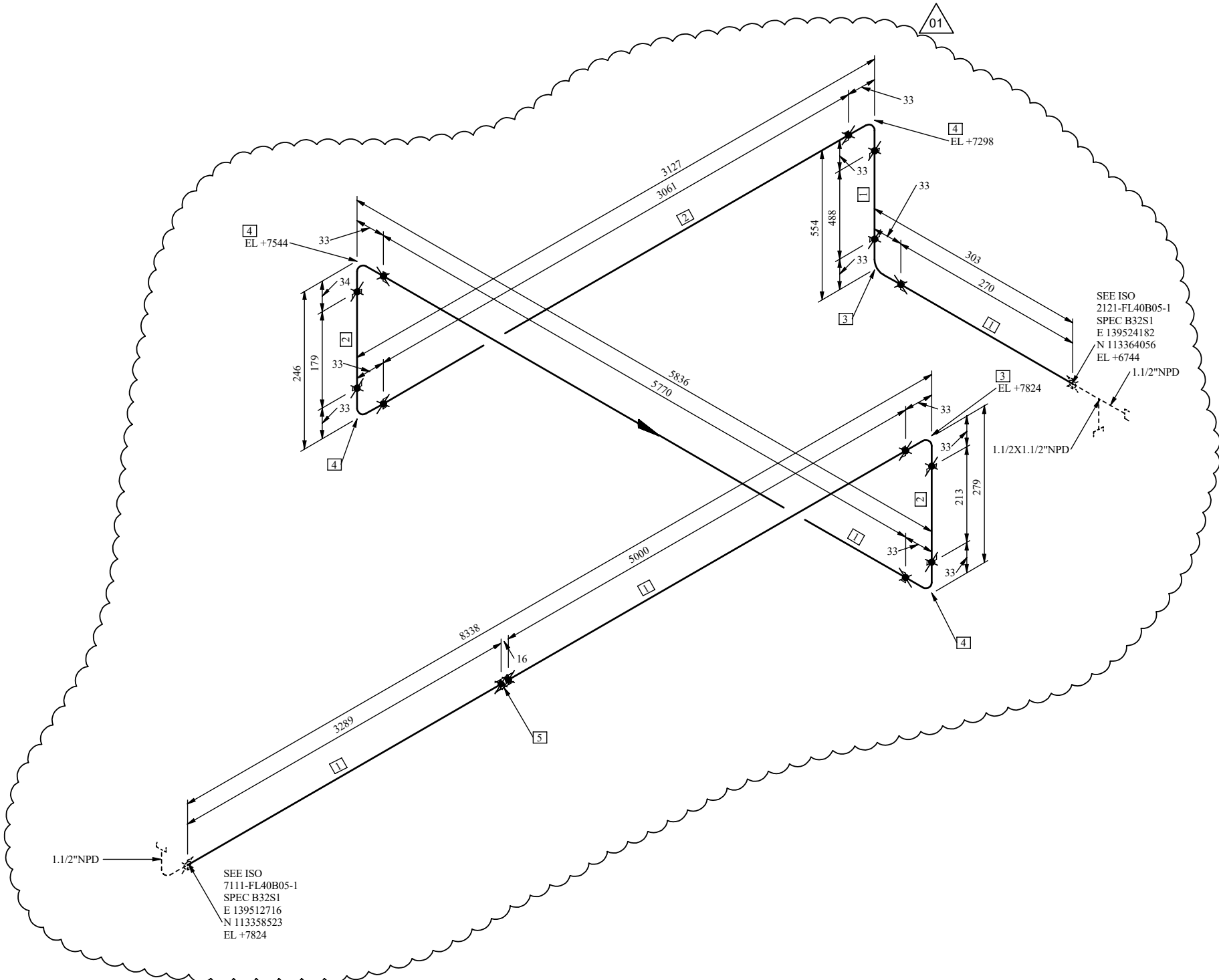
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

BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	PIPE - A333-6 PE SMLS T01AC22Z02 S-XS <PIPL020A111/2XS> (L-PIP01)	1.1/2	I146408	14.9 M	
2	PIPE - A333-6 PE SMLS T01AC22Z02 S-XS <PIPL020A111/2XS> (L-PIP01).	1.1/2	I146408	3.5 M	
FITTINGS					
3	90 ELBOW ASME B16.11 3000# A350-LF2 Class 1 SWE SWE - R31FNC071103 NREQD <90FL300LBK11/2> (L-7900)	1.1/2	I213765	2	
4	90 ELBOW ASME B16.11 3000# A350-LF2 Class 1 SWE SWE - R31FNC071103 NREQD <90FL300LBK11/2> (L-7900).	1.1/2	I213765	4	
5	COUPLING ASME B16.11 3000# A350-LF2 Class 1 SWE SWE - R01FNC071101 NREQD <FCPL300LBK11/2> (L-6599)	1.1/2	I213069	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
 WHERE  WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.
A=RESTING SUPPORT G=GUIDE F=AXIAL STOP B=ANCHOR M=SPRING S=TEFLON PAD

ISSUED FOR
REFERENCE

Signature for construction is shown
on Iso list of relevant CWA

ISOMETRIC DRAWING
LINE

1-1/2"-FL-40B05-B32S1

PIPE MATERIAL		<div>NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST.</div> <div>2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102.</div> <div>3. WELDING ACCORDING TO 45-L-45-000-2-00-80021.</div> <div>4. PAINTING ACCORDING TO 45-A-45-000-1-00-20160.</div> <div>5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE".</div>			
CS, low temperature					
HEAT TREATMENT (PWHIT)					
N					
PAINTING SCHEME (3)		<div>CONTRACTOR:</div> <div></div>	<div>CONTRACTOR DRAWING NUMBER:</div> <div>4274-XH-DL-2121FL40B05-2</div>	<div>PROJECT:</div> <div>4001008</div>	
I					
PIPING CLASS					
B32S1					
WELDING CLASS (4)		<div>LOW LINEAL DENSITY POLYETHYLENE (PEL)</div> <div>AND POLYPROPYLENE (PP) PLANTS</div> <div>FOR PROJECT - ALBA PROJECT</div> <div></div>			
M					
PED CATEGORY					
I		<div>CLIENT / COMPLEX</div> <div>REPSOL POLYMEROS/</div> <div>SINES INDUSTRIAL COMPLEX</div>			
INSULATION CODE / THK. (mm)		ANNEX 19	SPEC. L	DRAWING NUMBER 19-000-2-02-00001 sheet 2121FL40B05-2	REV. 02
N 0					