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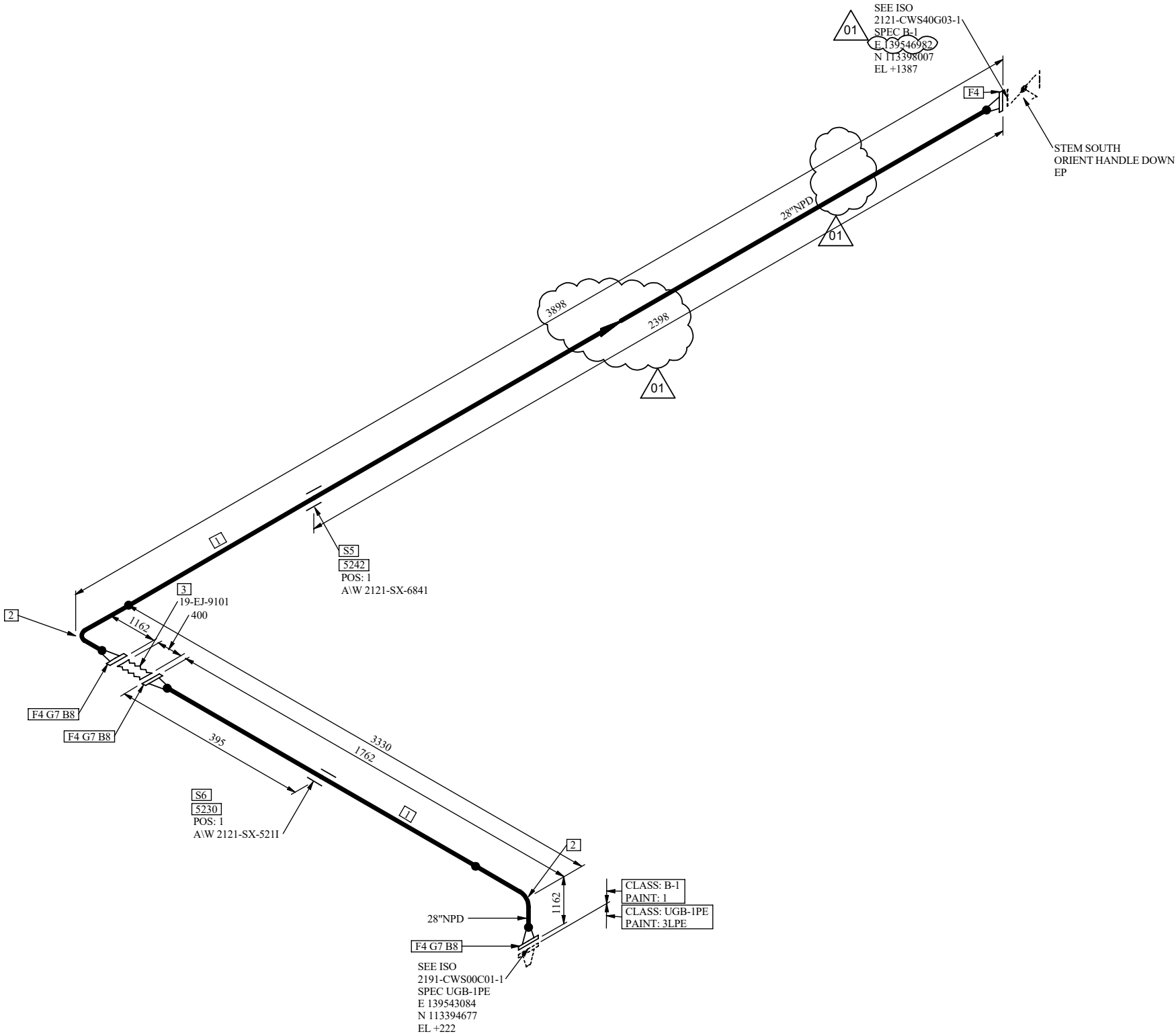
EXTR. DATE: 07-06-2023 18:59:17

STREAM NO.:12

REV. CAUSE ID: 9

STREAM REV. NO. : 9


13







BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	PIPE - A672-C60 BE EFW CL.22 T01AC24V44 S-STD <PIPA0C0B128STD> (L-9633)	28	I2210449	3.4 M	
FITTINGS					
2	90 LR ELBOW ASME B16.9 A234-WPB BE WELD C01DC04V02 S-STD <90LA20WF328STD> (L-7955-W)	28	I202347	2	
3	SPECIALTY COMPONENT	28	19-EJ-9101	1	
FLANGES					
4	WN FLANGE ASME B16.47-B 150# A105N RFFE BE 125 - 250 AARH F01MDC44BV05 S-STD <WNFA300R1628STD> (L-8517)	28	I7846328	4	
PIPE SUPPORTS					
5	RESTING SHOE WELDED -C4A1 H = 150 L = 300	28	5242	1	
6	RESTING SHOE WELDED -C4A1 H = 150 L = 300	28	5230	1	
GASKETS					
7	FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.47-B G02HDP2QR05 <NMGQ009R1FC28> (L-NMG11)	28	I1676991	3	
BOLTS					
8	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/453/4> - 2 NUTS PER BOLT - 145 mm Length	3/4	I53437472	120	

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.



REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	STRESS CALC. N° REP-PE-008 P & ID 19-A-19-000-1-01-00001 sheet 107 LINE LIST N° 19-L-19-000-2-00-80602 PIPE LAYOUT N° 19-L-19-000-2-00-86199 sheet 1
01	ISSUED FOR CONSTRUCTION	02-JUN-23	U.CHAVAN	P.VAZE	G.PAGANONI		
00	ISSUED FOR CONSTRUCTION	13-JAN-23	U.CHAVAN	P.VAZE	G.PAGANONI		

APPROVED FOR
CONSTRUCTION

Signature for construction is shown
on Iso list of relevant CWA

TITLE
**ISOMETRIC DRAWING
LINE**

28"-CWS-91J11-B-1

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					
HEAT TREATMENT (PWHIT) N					
PAINTING SCHEME (3) 1		CONTRACTOR:	CONTRACTOR DRAWING NUMBER:		PROJECT: 4001008
PIPING CLASS B-1			4274-XH-DL-2121CWS91J11-1		
WELDING CLASS (4) E		<div>LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT</div> <div></div>			
PED CATEGORY Art 4.3					
INSULATION CODE / THK. (mm) N 0		ANNEX 19	SPEC. L	DRAWING NUMBER 19-000-2-02-00001 sheet 2121CWS91J11-1	REV. 01