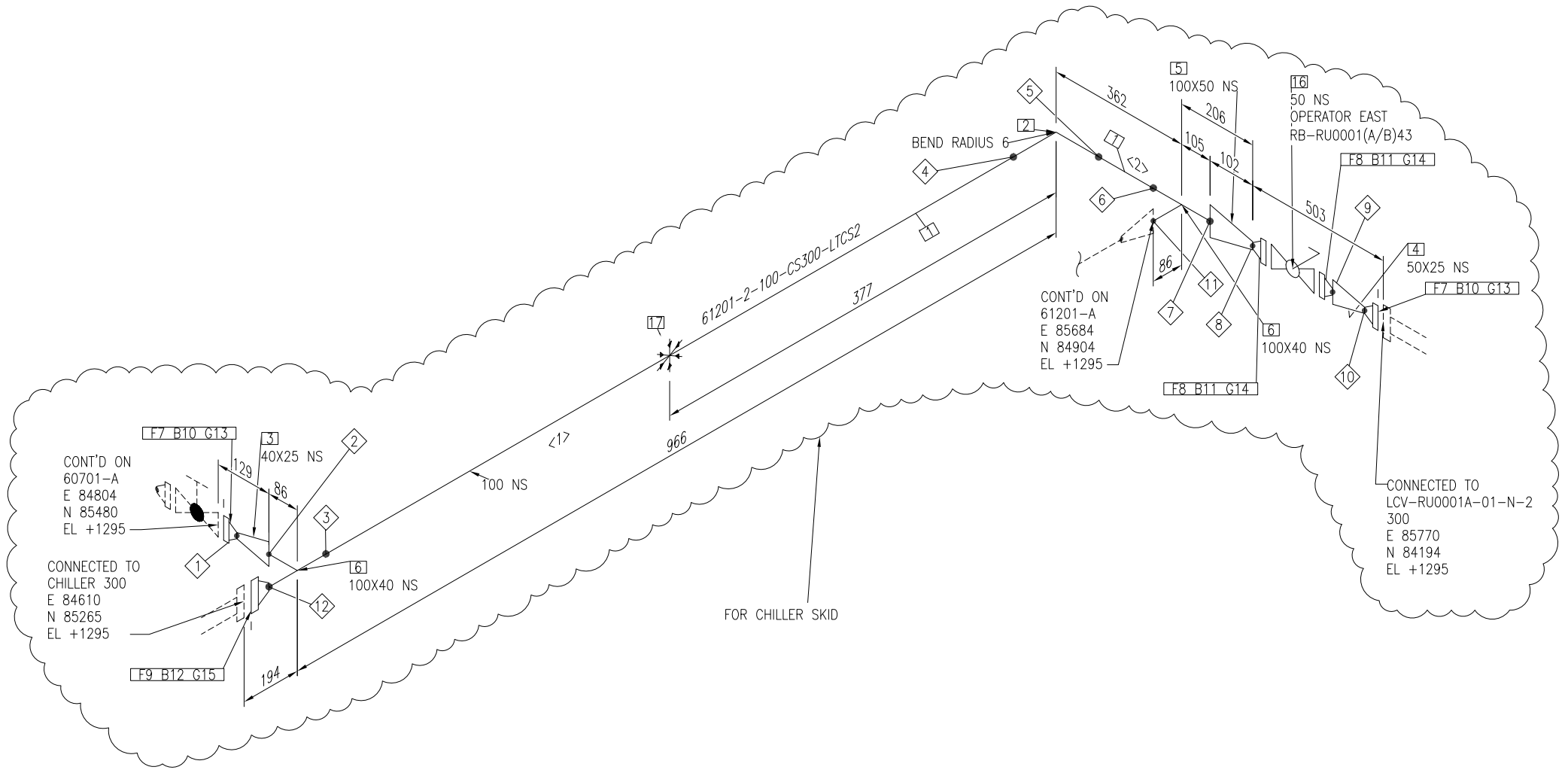

BILL OF MATERIALS				
ID	QTY	ND	SCH/CLASS	DESCRIPTION
PIPE				
1	0.9M	100	80	PIPE, SEAMLESS, SCH80, PE, ASME B36.10, ASTM A333 GR 6
FITTINGS				
2	1	100	80	ELBOW 90 LR, SCH 80, BW, ASME B16.9
3	1	40X25	80	REDUCER (CONC), SCH 80, BW, ASME B16.9, ASTM A420 GR WPL6
4	1	50X25	80	REDUCER (CONC), SCH 80, BW, ASME B16.9, ASTM A420 GR WPL6
5	1	100X50	80	REDUCER (CONC), SCH 80, BW, ASME B16.9, ASTM A420 GR WPL6
6	2	100X40	80	TEE (RED), SCH 80, BW, ASME B16.9, AST, ASTM A420 GR WPL6
FLANGES				
7	2	25	80	FLANGE WN, SCH 80, 300 LB, RF, ASME B16.5, ASTM A350 GR LF2
8	2	50	80	FLANGE WN, SCH 80, 300 LB, RF, ASME B16.5, ASTM A350 GR LF2
9	1	100	80	FLANGE WN, SCH 80, 300 LB, RF, ASME B16.5, ASTM A350 GR LF2
FASTENERS				
10	8	16X77	300	BOLT SET, RF, 300 LB, STUD BOLT
11	16	16X89	300	BOLT SET, RF, 300 LB, STUD BOLT
12	8	20X115	300	BOLT SET, RF, 300 LB, STUD BOLT
13	2	25	300	GASKET, SWG, 1/8" THK, RF, 300 LB, ASME B16.20, CS/GRAPHITE
14	2	50	300	GASKET, SWG, 1/8" THK, RF, 300 LB, ASME B16.20, CS/GRAPHITE
15	1	100	300	GASKET, SWG, 1/8" THK, RF, 300 LB, ASME B16.20, CS/GRAPHITE
VALVES				
16	1	50	300	BALL VALVE, LONG PATTERN, 300 LB, RF, ASME B16.10, ASTM A350 GRLF2
PIPE SUPPORTS				
17	1	100		U-CLAMP

CUT PIECE LIST				
ID	LENGTH	ND	END1	END2
1	709MM	100	BEVEL	BEVEL
2	105MM	100	BEVEL	BEVEL

NOTES:
1. ALL TAPPED BRANCHES TO INCLUDE TWO (2) GUSSETS LOCATED 90 DEGREES APART.
2. ALL SUPPORT WELDS SHALL BE CONTINUOUSLY WELDED.
3. MATERIAL TEST REPORTS ARE REQUIRED.
4. CHARPY IMPACT TESTS FOR LOW TEMP. MATERIALS ARE REQUIRED FROM EITHER THE MANUFACTURER OR FABRICATOR.
5. 5% RADIOGRAPHIC EXAMINATION IS REQUIRED FOR EACH WELDER.
6. WELDER LOG SHALL BE PROVIDED FOR INSPECTION.
7. SQUARENESS OF ALL JOINTS SHALL FOLLOW TOLERANCE ALLOWABLE LIMITS.

WELD LIST			
ID	ND	TYPE	CATEGORY
12	100	BUTTWELD	FABRICATION-ITEM
11	40	BUTTWELD	FABRICATION-ITEM
10	25	BUTTWELD	FABRICATION-ITEM
9	50	BUTTWELD	FABRICATION-ITEM
8	50	BUTTWELD	FABRICATION-ITEM
7	100	BUTTWELD	FABRICATION-ITEM
6	100	BUTTWELD	FABRICATION-ITEM
5	100	BUTTWELD	FABRICATION-ITEM
4	100	BUTTWELD	FABRICATION-ITEM
3	100	BUTTWELD	FABRICATION-ITEM
2	40	BUTTWELD	FABRICATION-ITEM
1	25	BUTTWELD	FABRICATION-ITEM

REV.	DESCRIPTION	DATE	DRAWN	CHKD	APPD
0		08/13/24			
1		10/30/24			

SERVICE	
PIPE SPEC	
MAX PRESSURE	
MAX TEMPERATURE	
P&ID DWG	
INSULATION SPEC	
INSULATION THK	

PROJECT NAME: MPE007

TITLE:

DRAWING NUMBER: 61201-4

LINE NO:	AREA:	UNIT:	TYPE:
61201			

JOB NUMBER:	SCALE:	SHEET:	REV.
	N.T.S.	4 OF 5	1

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