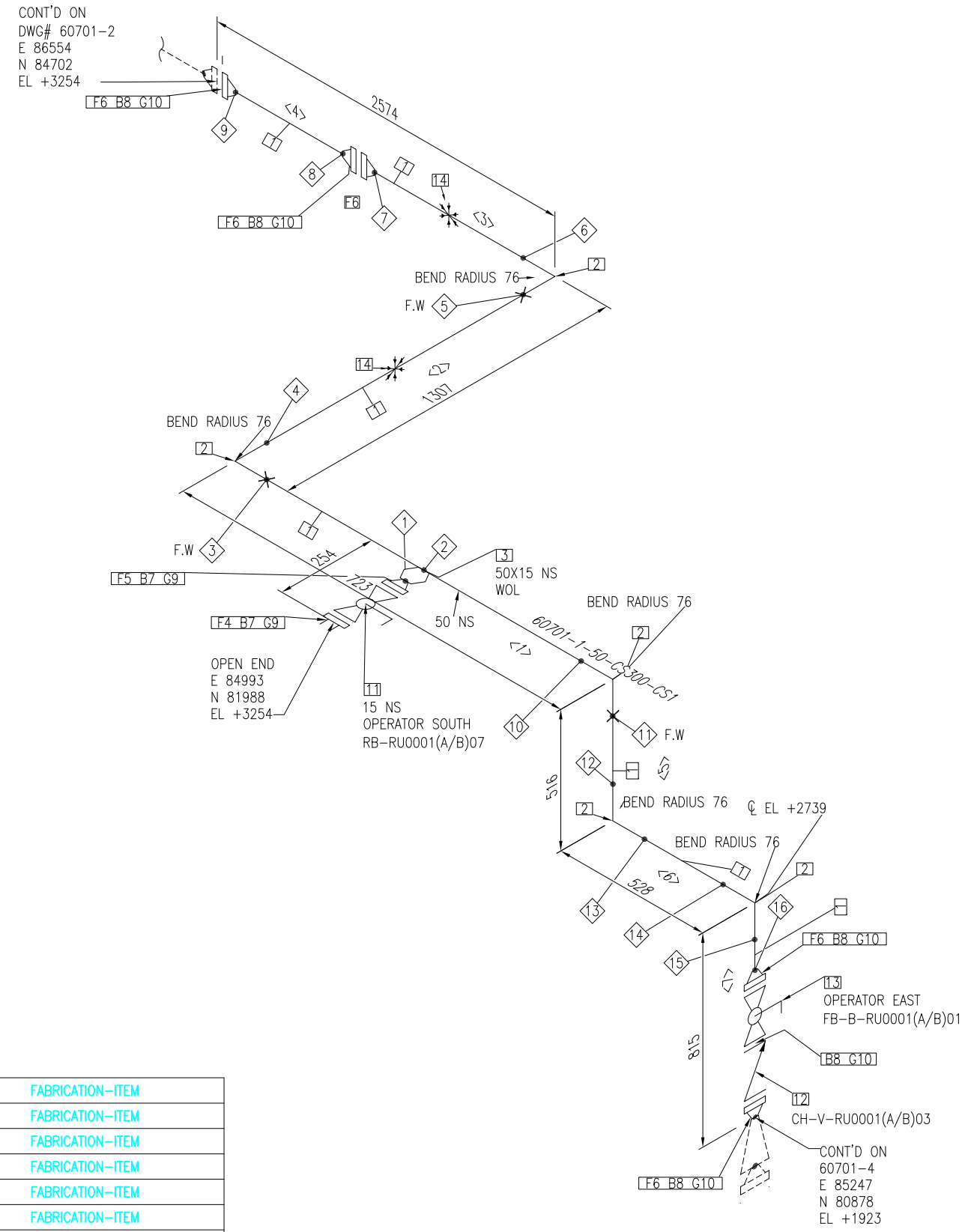

BILL OF MATERIALS				
ID	QTY	ND	SCH/CLASS	DESCRIPTION
PIPE				
1	4.9M	50	80	PIPE, SEAMLESS, SCH80, PE, ASME B36.10, ASTM A106 GR B
FITTINGS				
2	5	50	80	ELBOW 90 LR, SCH 80, BW, ASME B16.9, ASTM A234 GR WPB
OLETS				
3	1	50X15	80	WELDOLET, BW, 80, MSS-SP-97, ASTM A-105N
FLANGES				
4	1	15	300	FLANGE THD, 300 LB, RF, ASME B16.5, ASTM A105
5	1	15	80	FLANGE WN, 300 LB, RF, ASME B16.5-SCH 80, ASTM A105
6	5	50	300	FLANGE WN, 300 LB, RF, ASME B16.5, ASTM A105
FASTENERS				
7	8	14X64	300	BOLT SET, RF, 300 LB, STUD BOLT
8	40	16X89	300	BOLT SET, RF, 300 LB, STUD BOLT
9	2	15	300	GASKET, SWG, 1/8" THK, RF, 300 LB, ASME B16.20, CS/GRAPHITE
10	5	50	300	GASKET, SWG, 1/8" THK, RF, 300 LB, ASME B16.20, CS/GRAPHITE
VALVES				
11	1	15	300	BALL VALVE, LONG PATTERN, 300 LB, RF, ASME B16.10, ASTM A216 GR WPB, HAND LEVER
12	1	50	300	CHECK VALVE, SWING, 300 LB, RF, ASME B16.10, ASTM A216 GR WPB
13	1	50	300	BALL VALVE, LONG PATTERN, 300 LB, RF, ASME B16.10, ASTM A216 GR WPB, HAND LEVER
PIPE SUPPORTS				
14	2	50		U-CLAMP

CUT PIECE LIST				
ID	LENGTH	ND	END1	END2
1	571MM+200MM=771MM	50	BEVEL	BEVEL
2	1155MM+200MM=1355MM	50	BEVEL	BEVEL
3	275MM	50	BEVEL	BEVEL
4	2008MM	50	BEVEL	BEVEL
5	364MM+200MM=564MM	50	BEVEL	BEVEL
6	376MM	50	BEVEL	BEVEL
7	108MM	50	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.
8. F.W= FIELD WELD

WELD LIST			
ID	ND	TYPE	CATEGORY
15	50	BUTTWELD	FABRICATION-ITEM
14	50	BUTTWELD	FABRICATION-ITEM
13	50	BUTTWELD	FABRICATION-ITEM
12	50	BUTTWELD	FABRICATION-ITEM
11	50	BUTTWELD	FABRICATION-ITEM
10	50	BUTTWELD	FABRICATION-ITEM
9	50	BUTTWELD	FABRICATION-ITEM
8	50	BUTTWELD	FABRICATION-ITEM
7	50	BUTTWELD	FABRICATION-ITEM
6	50	BUTTWELD	FABRICATION-ITEM
5	50	BUTTWELD	FABRICATION-ITEM
4	50	BUTTWELD	FABRICATION-ITEM
3	50	BUTTWELD	FABRICATION-ITEM
2	50	TAPWELD	FABRICATION-ITEM
1	15	BUTTWELD	FABRICATION-ITEM

REV.	DESCRIPTION	DATE	DRAWN	CHKD	APPD
0		08/22/24			
1		09/04/24			
2		10/30/24			

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

PROJECT NAME: MPE007

TITLE:

DRAWING NUMBER: 60701-3

LINE NO:	AREA:	UNIT:	TYPE:
60701			

JOB NUMBER:	SCALE:	SHEET:	REV.
	N.T.S.	3 OF 4	2

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