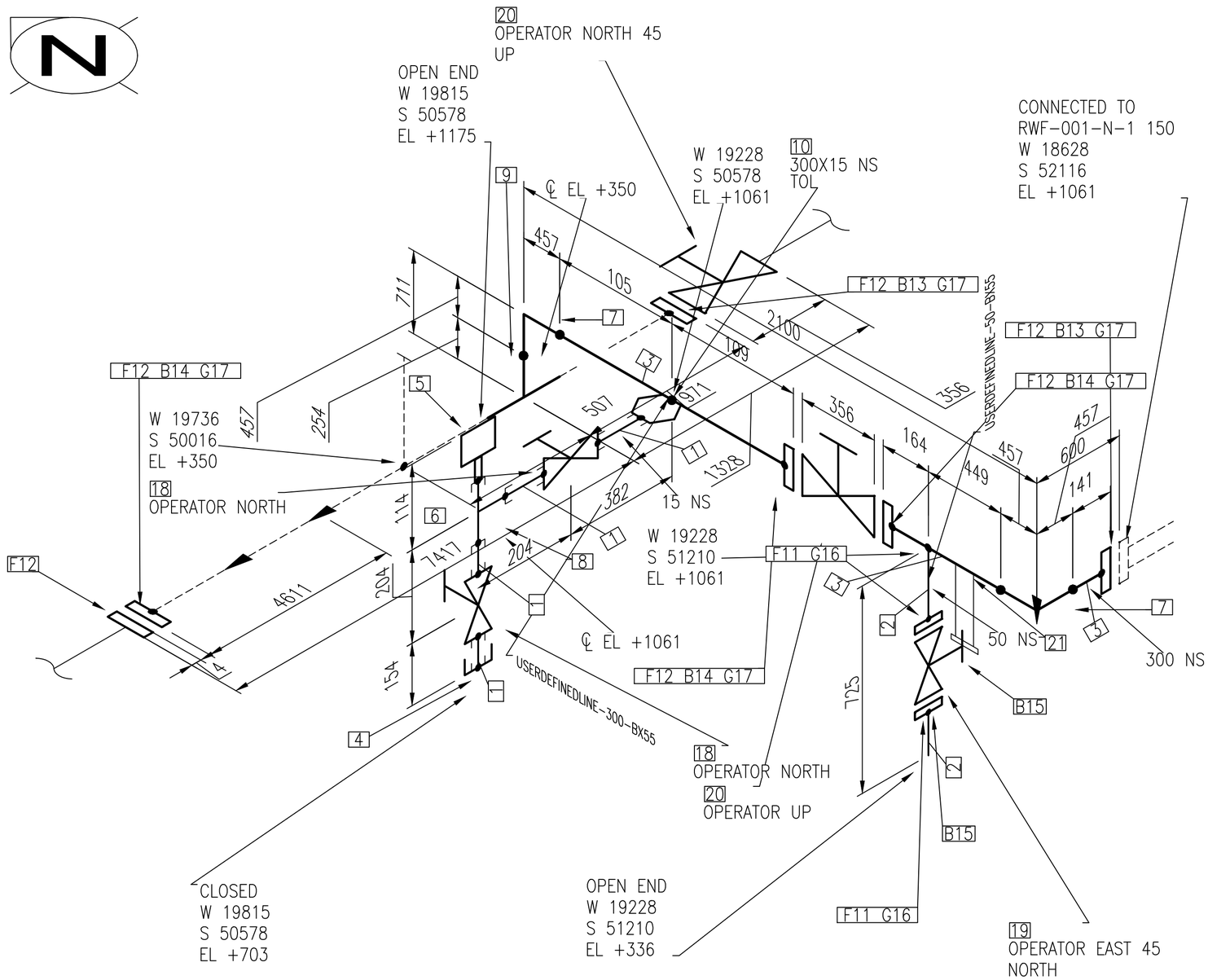

BILL OF MATERIALS

ID	QTY	ND	DESCRIPTION
1	0.6M	15	PIPE, CS WELDED TO IS 1239
2	0.6M	50	PIPE, CS WELDED TO IS 1239
3	1.0M	300	PIPE, CS WELDED TO IS 3589
4	1	15	CAP, 3000 LB, SW, ASME B16.11
5	1	15	COUPLING, 3000 LB, FPT, ASME B16.11
6	1	15	NIPPLE,PL MPT, ASME B36.11-COPY
7	2	300	CS 90 DEG ELB LR TO ASTM A 234 GR WPB, BW, ASME B16.9
8	1	15	TEE, 3000 LB, SW, ASME B16.11, ASTM A105
9	1	300	TEE, BW, ASME B16.9, ASTM A234 GR WPB SMLS, SCH 40
10	1	300X15	HALF COUPLING, CS TO ASTM A 105, SW ENDS
11	2	50	FLANGE SO, 150 LB, RF, ASME B16.5
12	6	300	FLANGE SO, 150 LB, RF, ASME B16.5
13	24	24X130	BOLT SET, RF, 150 LB, STUD BOLT
14	36	24X121	BOLT SET, RF, 150 LB, STUD BOLT
15	8	16X83	BOLT SET, RF, 150 LB, STUD BOLT
16	2	50	GASKET, FLAT, 1/16" THK, RF, 150 LB, ASME B16.21
17	5	300	GASKET, FLAT, 1/16" THK, RF, 150 LB, ASME B16.21
18	2	15	GATE VALVE, SOLID WEDGE, 150 LB, SW, ASME B16.10, ASTM A216 GR WPB, HAND WHEEL
19	1	50	GATE VALVE, DOUBLE DISC, 150 LB, RF, ASME B16.10, ASTM A216 GR WPB, HAND WHEEL
20	2	300	GATE VALVE, DOUBLE DISC, 150 LB, RF, ASME B16.10, ASTM A216 GR WPB, HAND WHEEL
21	1	300	CLAMPED STANCHION

REV.	DESCRIPTION	DATE	DRAWN	CHKD	APPD
		10/21/13			

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

PROJECT NAME: FERT-2195

TITLE:

DRAWING NUMBER: UserDefinedLine

LINE NO:	AREA:	UNIT:	TYPE:
JOB NUMBER:	SCALE: N.T.S.	SHEET: 1 OF 1	REV. 0