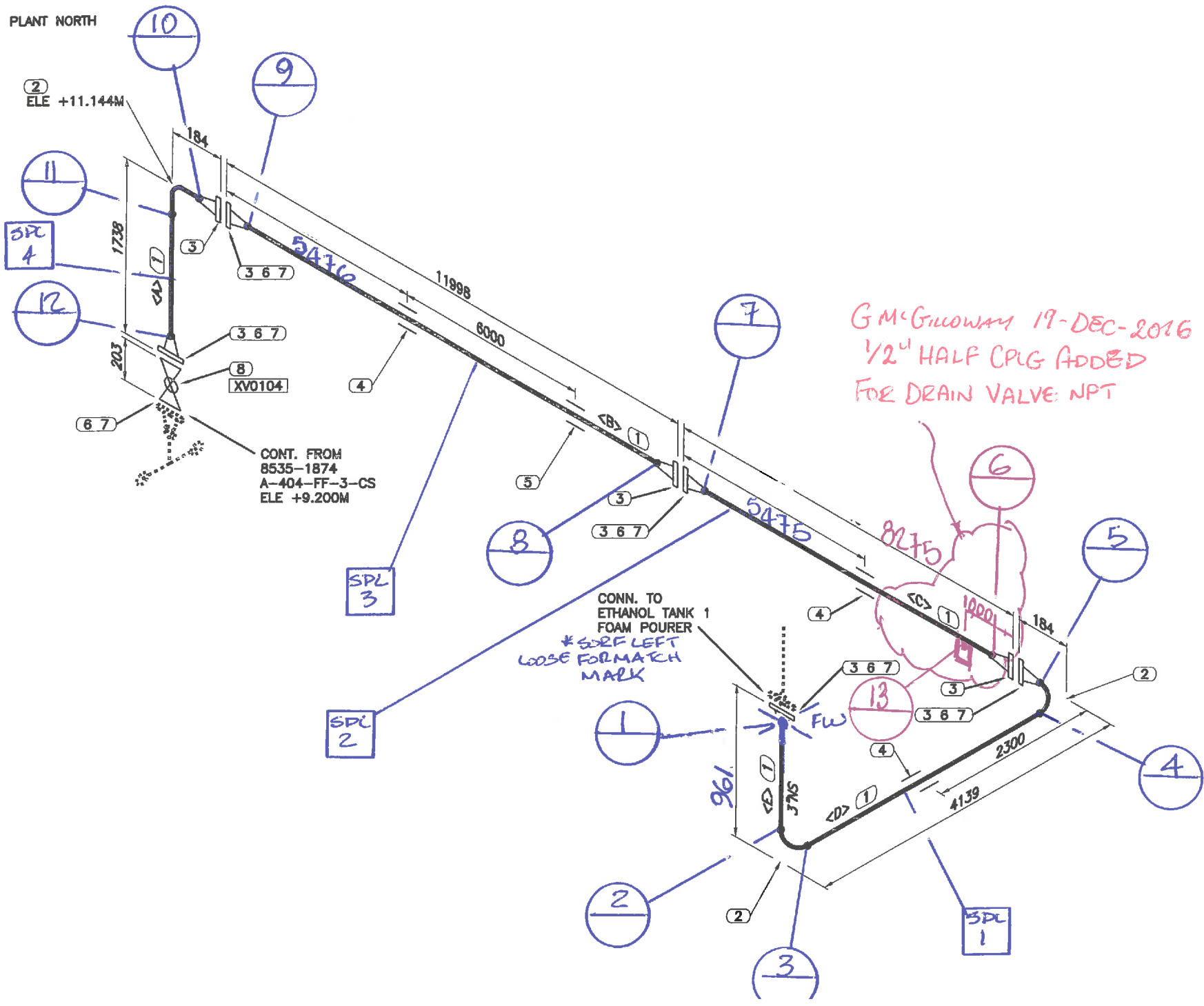


PLANT NORTH



MATERIAL LIST - FABRICATION

PT.NO	SIZE	DESCRIPTION	QTY	WEIGHT (KG)
1	3	PIPE, SMLS CS SCH.40 ASTM A108 B	25.9 M	292.2
2	3	90 DEG. LONG RADIUS ELBOW, BW, ASME B18.9 SCH.40 ASTM A234	3	6.1
3	3	FLANGE, WN, RF, 150 LB. ASME B16.5 ASTM A105	87	40.8
4	3	PIPE SHOE PS001	3	8.7
5	3	GUIDED PIPE SHOE PS002	1	3.1
9	3	FLANGE SORF 150LB	1	

MATERIAL LIST - ERECTION

PT.NO	SIZE	DESCRIPTION	QTY	WEIGHT (KG)
6	3	GASKET, 1.6mm, 150 LB. COMPRESSED NON ASBESTOS FIBRE BS 7531	6	6.0
7	5/8	(4) BOLT SET, 150LB ASTM A193 Gr.B7 BOLTS/ASTM A194 Gr.2H NUTS (90 MM LG)	6	4.7
8	3	BALL VALVE, FB, 150 LB. BS531, A350 CS, XV0104	1	25.0

CUTTING LIST

CUT PIECE	SIZE	LENGTH (MM)	END PREP-1	END-PREP-2
A	3"	1554	BEVEL	BEVEL
B	3"	11856	BEVEL	BEVEL
C	3"	7879	BEVEL	BEVEL
D	3"	3011	BEVEL	BEVEL
E	3"	696	BEVEL	BEVEL

C1	ISSUED FOR CONSTRUCTION	DS	03/05/16	LJP					
REV	DESCRIPTION	BY	DATE	CHK	REV	DESCRIPTION	BY	DATE	CHK