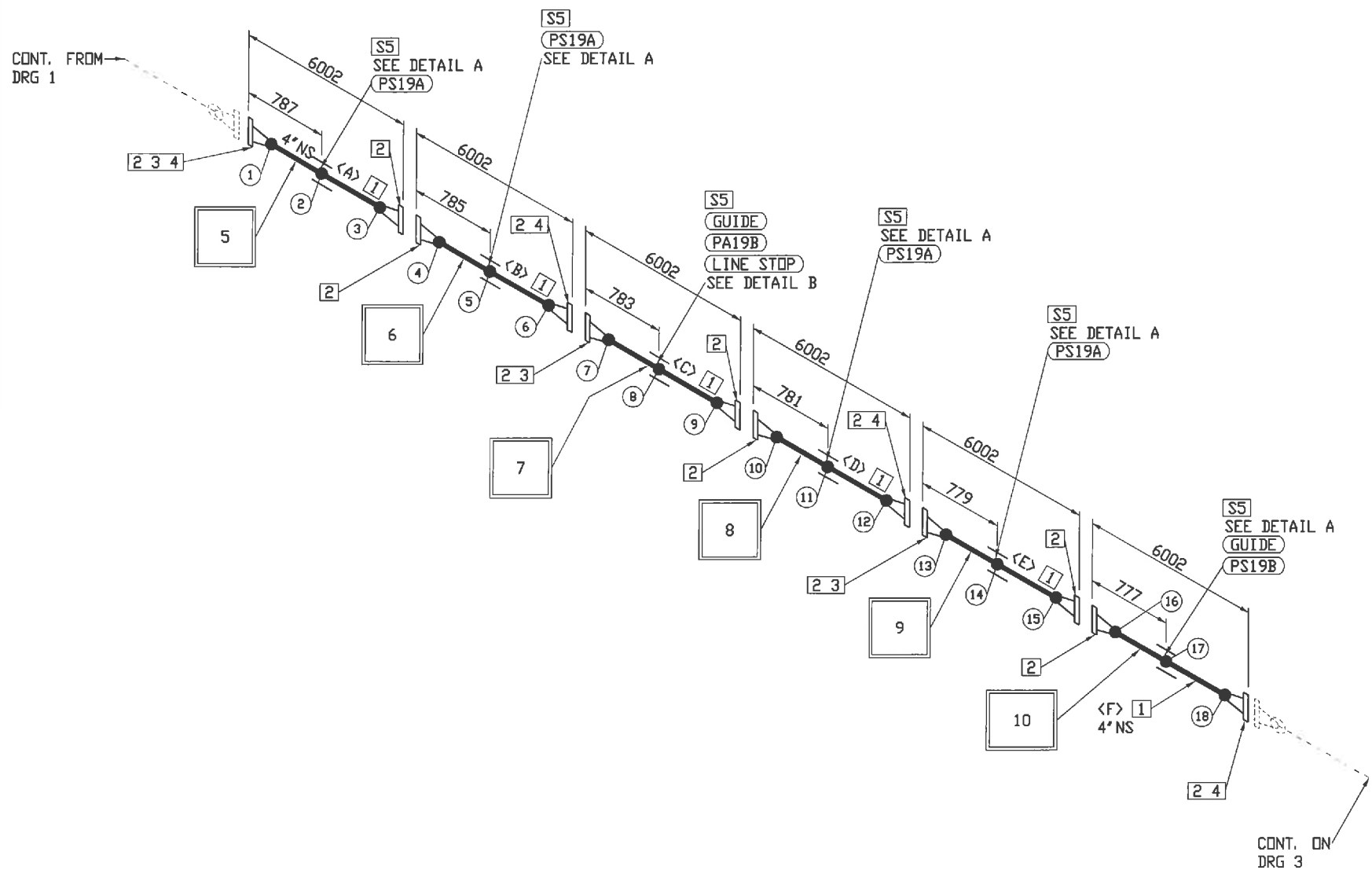


SEE PS21 VALERO
SUPPORT PACKAGE



FABRICATION – BILL OF MATERIALS			
PT.NO	SIZE	DESCRIPTION	QTY
1	4	PIPE, CS A106 SML, GRD B, STD WT	35.1
2	4	FLANGE, FRG CS A105N, 150LB, WN, RF, STD WT	12

ERECTION – BILL OF MATERIALS			
PT.NO	SIZE	DESCRIPTION	QTY
3	4	GASKET, 1.6mm THK, 150LB, COMPRESSED NON-ASBESTOS FIBRE TO BS 7531, TYPE KLINGERSIL C4430	6
4	5/8"xL90	5/8" STUD x 90mm LG ASTM A193 B7 (NUTS - ASTM A194 2H) HOT DIPPED GALV	56
5	4	PIPE SHOE	6

WELD LIST					CUT LIST				
No.	SIZE	TYPE	SPOOL	WELD ID	CUT NO.	SIZE	LENGTH	END ONE	END TWO
1	4"	BW			A	4"	5850	BEVEL	BEVEL
2	4"	FW			B	4"	5850	BEVEL	BEVEL
3	4"	BW			C	4"	5850	BEVEL	BEVEL
4	4"	BW			D	4"	5850	BEVEL	BEVEL
5	4"	FW			E	4"	5850	BEVEL	BEVEL
6	4"	BW			F	4"	5850	BEVEL	BEVEL
7	4"	BW							
8	4"	FW							
9	4"	BW							
10	4"	BW							
11	4"	FW							
12	4"	BW							
13	4"	BW							
14	4"	FW							
15	4"	BW							
16	4"	BW							
17	4"	FW							
18	4"	BW							

[1] DENOTES PIPE SPOOL NO
[2] DENOTES PARTS LIST NO

SHOP WELD FIELD WELD SOCKET WELD SCREWED JOINT COMPN JOINT PIPE SUPPORT LAGGED PIPE TRACED PIPE