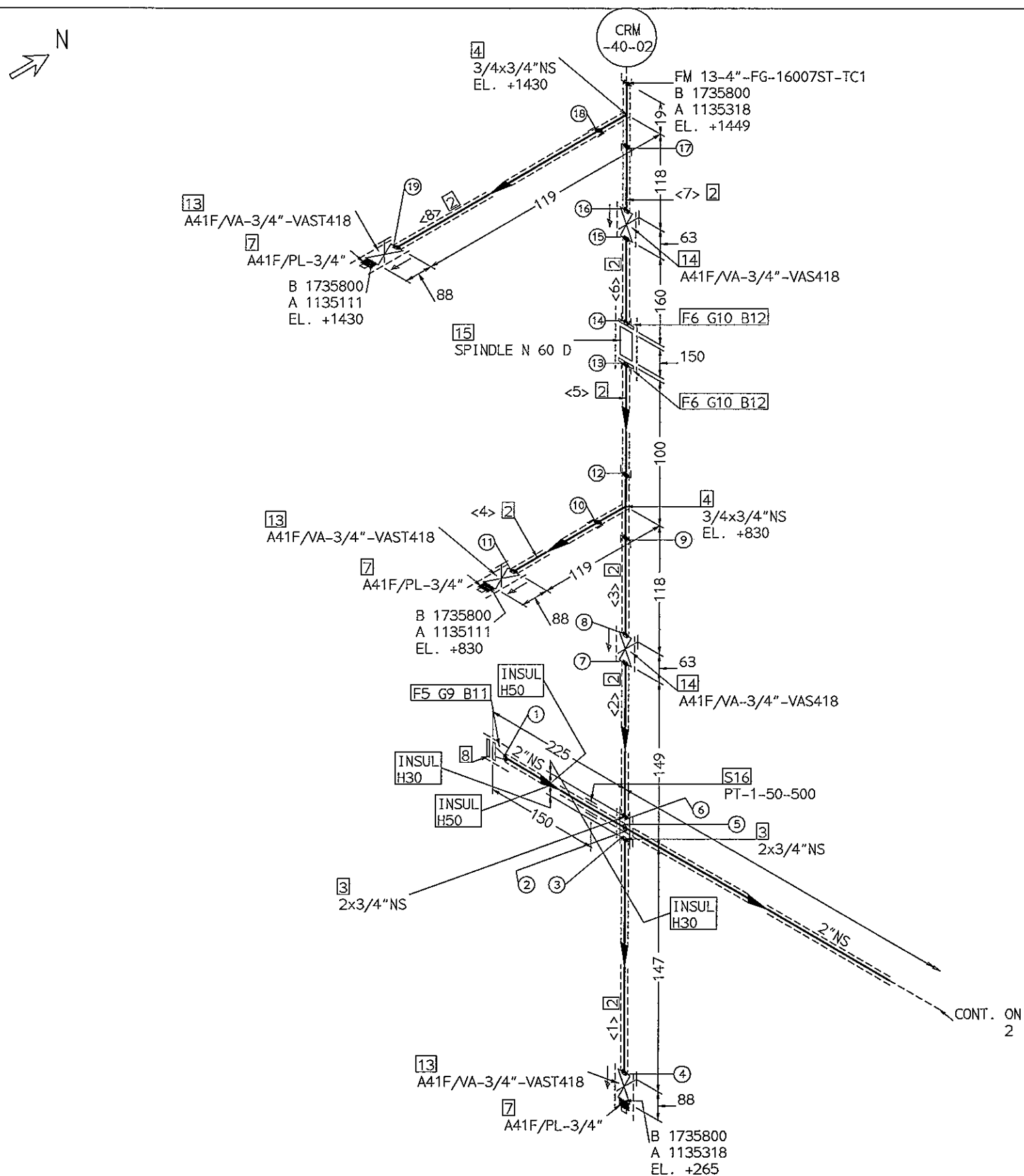


FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	2	A41F/P-2"-40	0.4M
2	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	3/4	A41F/P-3/4"-80	0.9M
FITTINGS				
3	HALF COUPLING CL3000 SW A105 ASME B16.11	2 x 3/4	A41F/CHS-2"x3/4"	2
4	TEE CL3000 SW A105 ASME B16.11	3/4 x 3/4	A41F/TS-3/4"	2
FLANGES				
5	FLANGE CL150 RF WN A105 SCH40 BORE ASME B16.5	2	A41F/WFR-2"	1
6	FLANGE CL150 RF SW A105 SCH80 BORE ASME B16.5	3/4	A41F/FR-3/4"	2
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
FITTINGS				
7	PLUG A105 HEXAGONAL TYPE SCRD(M-NPT) ASME B16.11	3/4	A41F/PL-3/4"	3
FLANGES				
8	BLIND FLANGE CL150 RF A105 ASME B16.5	2	A41F/FBR-2"	1
GASKETS				
9	GASKET CL150 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	2	A41F/GR-2"-G214ACM	1
10	GASKET CL150 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	3/4	A41F/GR-3/4"-G214ACM	2
BOLTS				
11	100 MM LONG STUD BOLT . M16 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A41F/BSF-2"-100	4
12	70 MM LONG STUD BOLT . M12 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A41F/BSF-3/4"-70	8
COMPONENTS				
13	GATE VALVE CL800 SW/SCRD(NPT) A105 BODY #8 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAST418)	3/4	A41F/VA-3/4"-VAST418	3
14	GATE VALVE CL800 SW A105 BODY #8 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAS418)	3/4	A41F/VA-3/4"-VAS418	2
INSTRUMENTS				
15	TRAP CL150 RF	3/4	A41F/TRAP-3/4"	1
SUPPORTS				
16	PIPE SUPPORT (PT-1-50-500)	2	SUP/PT-1-2"	1

CUT PIPE LENGTH							
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<1>	100	3/4		<2>	102	3/4	
<3>	99	3/4		<4>	100	3/4	
<5>	76	3/4		<6>	155	3/4	
<7>	99	3/4		<8>	100	3/4	

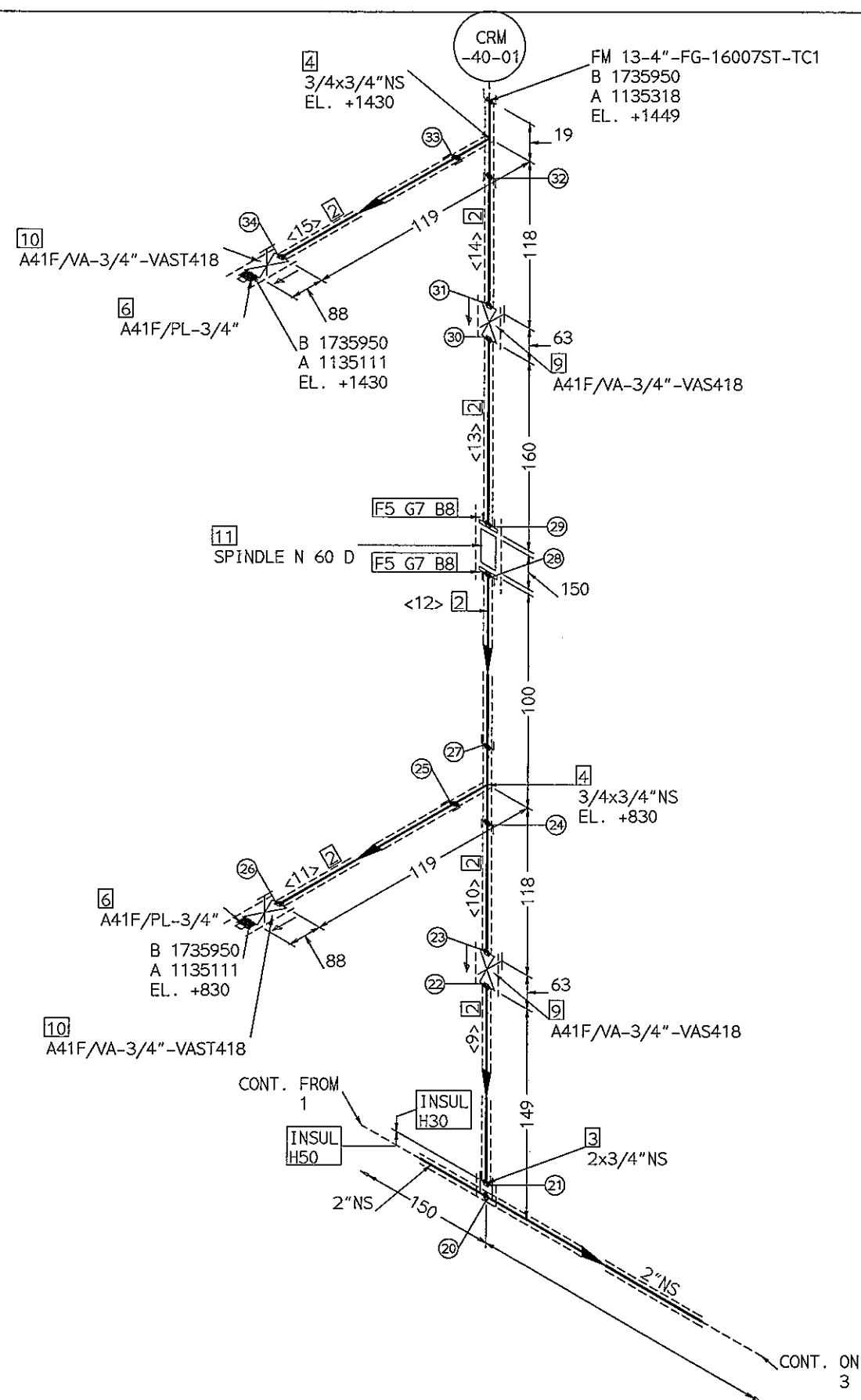
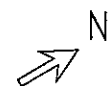
						DPR. PRESS.: 0.17 MPa(G)	DPR. TEMP.: 130 °C	CLASS: A41F	DWN.	C.T.LEE	08/31/2011	REVIEWED		富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD. 腾龙芳烃(漳州)80万吨/年对二甲苯工程 CSU/VDU 装置
						DES. PRESS.: 0.35/FV MPa(G)	DES. TEMP.: 148 °C	INSULATION : H30	DESN.	K.W.CHANG	08/31/2011			
						HYDRO TEST: WATER 0.525 MPa(G)	PWHT : NO	TRACING : ---	CHK.	Y.C.CHOU	08/31/2011			
						PAINTING : PER SPEC.	STEAM OUT: NO	RT : 1	APPR.	A.F.WU	08/31/2011			
	08/31/2011	FOR CONSTRUCTION	C.T.LEE	Y.C.CHOU	A.F.WU					DWG NO.: 135A,136A/B	CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.					DIA. NO.: 1208-036	FILE NO.: 13-LLCCRM40-1	13-1"-LLC-CRM40-A41F-H	1 OF 4	0



FOR CONSTRUCTION
September, 05 2011

FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	2	A41F/P-2"-40	0.2M
2	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	3/4	A41F/P-3/4"-80	0.8M
FITTINGS				
3	HALF COUPLING CL3000 SW A105 ASME B16.11	2 x 3/4	A41F/CHS-2"x3/4"	1
4	TEE CL3000 SW A105 ASME B16.11	3/4 x 3/4	A41F/TS-3/4"	2
FLANGES				
5	FLANGE CL150 RF SW A105 SCH80 BORE ASME B16.5	3/4	A41F/FR-3/4"	2
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
FITTINGS				
6	PLUG A105 HEXAGONAL TYPE SCRD(M-NPT) ASME B16.11	3/4	A41F/PL-3/4"	2
GASKETS				
7	GASKET CL150 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	3/4	A41F/GR-3/4"-G214ACM	2
BOLTS				
8	70 MM LONG STUD BOLT . M12 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A41F/BSF-3/4"-70	8
COMPONENTS				
9	GATE VALVE CL800 SW A105 BODY #8 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAS418)	3/4	A41F/VA-3/4"-VAS418	2
10	GATE VALVE CL800 SW/SCRD(NPT) A105 BODY #8 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAST418)	3/4	A41F/VA-3/4"-VAST418	2
INSTRUMENTS				
11	TRAP CL150 RF	3/4	A41F/TRAP-3/4"	1

CUT PIPE LENGTH							
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<9>	102	3/4		<10>	99	3/4	
<11>	100	3/4		<12>	76	3/4	
<13>	155	3/4		<14>	99	3/4	
<15>	100	3/4					



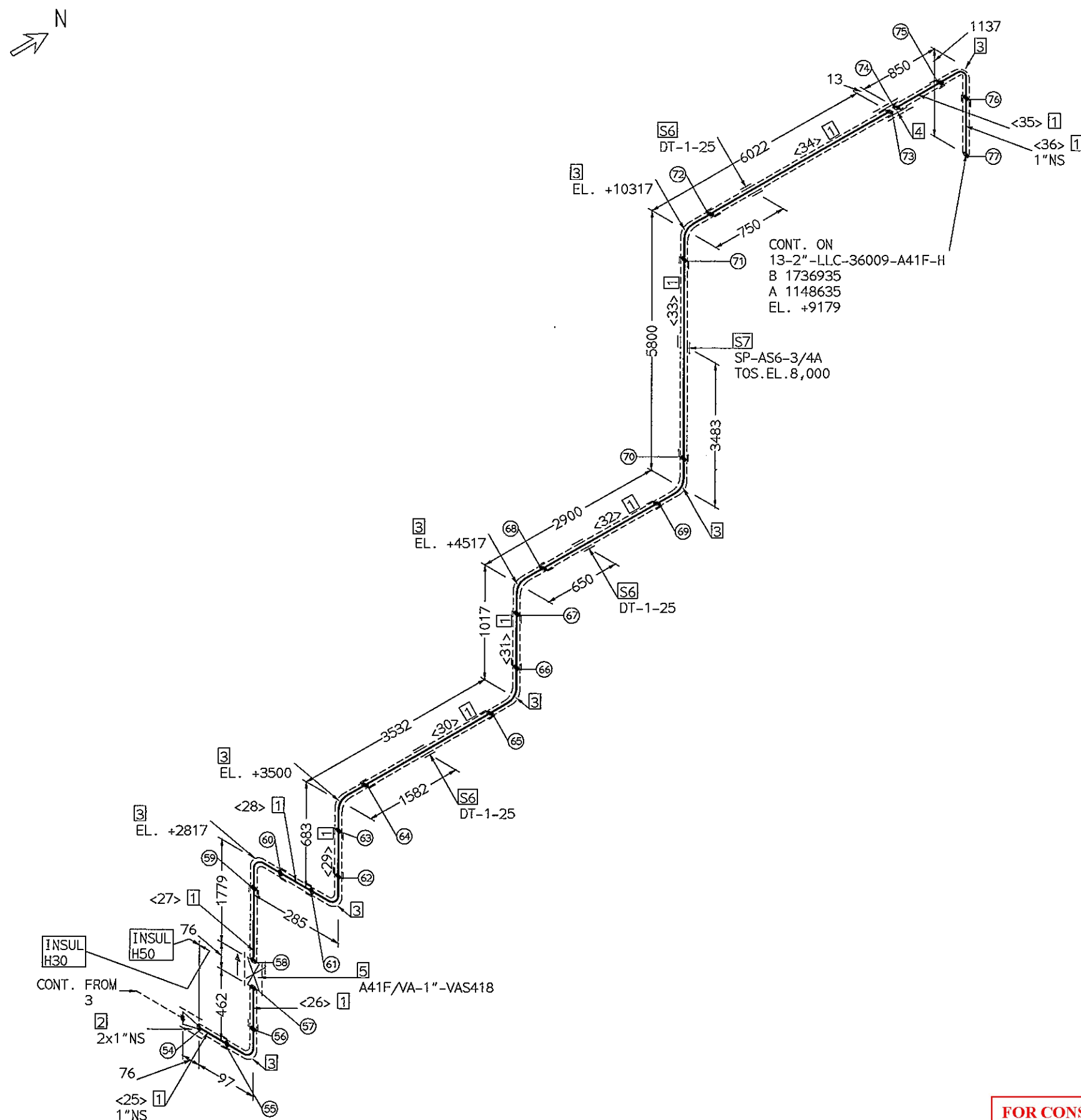
FOR CONSTRUCTION

September,05 2011

△						DPR. PRESS.: 0.17 MPa(G)	DPR. TEMP.: 130 °C	CLASS: A41F	DWN.	C.T.LEE	08/31/2011	R E V I E W E D	 富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD. 腾龙芳烃(漳州)80万吨/年对二甲苯工程 CSU/VDU 装置				
△						DES. PRESS.: 0.35/FV MPa(G)	DES. TEMP.: 148 °C	INSULATION : H30	DESN.	K.W.CHIANG	08/31/2011						
△						HYDRO TEST: WATER 0.525 MPa(G)	PWHT : NO	TRACING : ---	CHK.	Y.C.CHOU	08/31/2011						
△						PAINTING : PER SPEC.	STEAM OUT: NO	RT : /	APPR.	A.F.WU	08/31/2011						
△	08/31/2011	FOR CONSTRUCTION	C.T.LEE	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION 				DWG NO.: 135A,136A/B		CONTRACT: C192502		LINE NO. :		SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.					DIA. NO.: 1208-036		FILE NO.: 13-LLCCRM40-2		13-1"-LLC-CRM40-A41F-H		2 OF 4	0

FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	1	A41F/P-1"-80	24.2M
FITTINGS				
2	REDUCER CONC A234 GR.WP8 SCH40/SCH80 SMLS BW ASME B16.9	2 x 1	A41F/RC-2"x1"	1
3	90 DEG. ELBOW CL3000 SW A105 ASME B16.11	1	A41F/ES-1"x90	9
4	FULL COUPLING CL3000 SW A105 ASME B16.11	1	A41F/CFS-1"	1
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
COMPONENTS				
5	GATE VALVE CL800 SW A105 BODY #8 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAS418)	1	A41F/VA-1"-VAS418	1
SUPPORTS				
6	PIPE SUPPORT (DT-1-25)	1	SUP/DT-1-1"	3
7	SPECIAL SUPPORT (SP-AS6-3/4A TOS.EL.8,000)	1	SUP/AS6-1"	1

CUT PIPE LENGTH							
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<25>	75	1		<26>	440	1	
<27>	1756	1		<28>	240	1	
<29>	639	1		<30>	3488	1	
<31>	972	1		<32>	2856	1	
<33>	5755	1		<34>	6000	1	
<35>	828	1		<36>	1115	1	



FOR CONSTRUCTION

September,05 2011

△						OPR. PRESS.: 0.17 MPa(G)	OPR. TEMP.: 130 °C	CLASS: A41F	DWN. C.T.LEE	08/31/2011	REVIEWED	 富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD. 腾龙芳烃(漳州)80万吨/年对二甲苯工程 CSU/VDU 装置							
△						DES. PRESS.: 0.35/FV MPa(G)	DES. TEMP.: 148 °C	INSULATION : H30	DESN. K.W.CHIANG	08/31/2011									
△						HYDRO TEST: WATER 0.525 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	08/31/2011									
△						PAINTING : PER SPEC.	STEAM OUT: NO	RT : /	APPR. A.F.WU	08/31/2011									
△	08/31/2011	FOR CONSTRUCTION	C.T.LEE	Y.C.CHOU	A.F.WU	WELDED	FIELD WELDED	SOCKET	THREAD	COUPLING	FIELD CONN.	SUPPORT	STEAM TRACE	INSULATION	DWG NO.: 135A,136A/B	CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.										DIA. NO.: 1208-036	FILE NO.: 13-LLCCRM40-4	13-1"-LLC-CRM40-A41F-H	4 OF 4	0