

FABRICATION MATERIALS

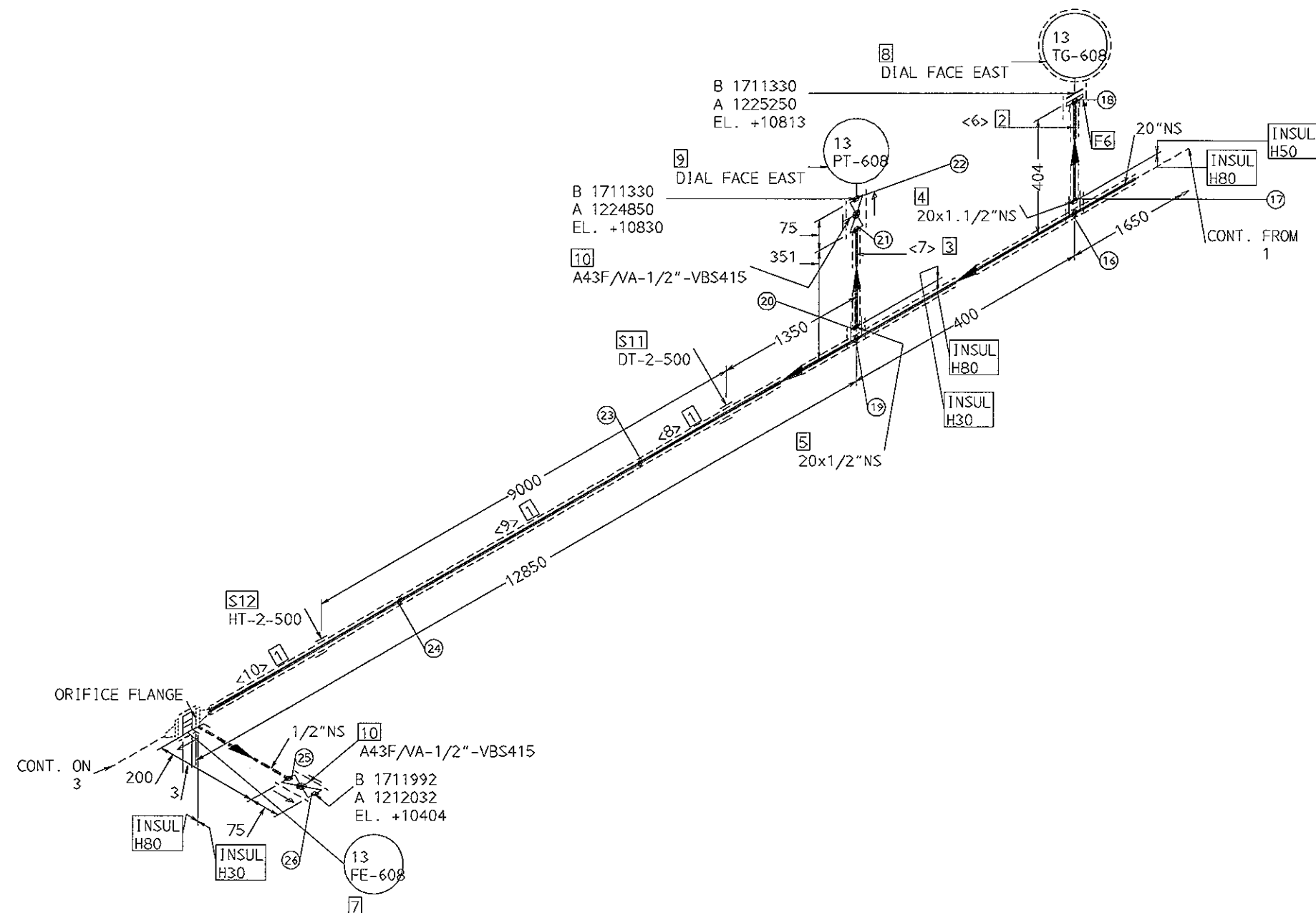
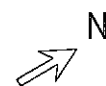
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	20	A43F/P-20"-30	13.1M
2	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	1.1/2	A43F/P-1.1/2"-80	0.2M
3	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	1/2	A43F/P-1/2"-80	0.1M
FITTINGS				
4	HALF COUPLING CL3000 SW A105 ASME B16.11	20 x 1.1/2	A43F/CHS-20"x1.1/2"	1
5	HALF COUPLING CL3000 SW A105 ASME B16.11	20 x 1/2	A43F/CHS-20"x1/2"	1
FLANGES				
6	FLANGE CL300 RF SW A105 SCH80 BORE ASME B16.5	1.1/2	A43F/FR-1.1/2"	1
INSTRUMENTS				
7	ORIFICE CL300 13 FE-608	20		1
8	INSTRUMENT CL300 RF 13 TG-608	1.1/2		1
9	INSTRUMENT SW 13 PT-608	1/2		1

ERECTION MATERIALS

PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
COMPONENTS				
10	GLOBE VALVE CL800 SW A105 BODY #5 TRIM LOOSE DISC OS&Y BB AP1602 BY MFR (VBS415)	1/2	A43F/VA-1/2"-VBS415	2
SUPPORTS				
11	PIPE SUPPORT (DT-2-500)	20	SUP/DT-2-20"	1
12	PIPE SUPPORT (HT-2-500)	20	SUP/HT-2-20"	1

CUT PIPE LENGTH

PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
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<8>	6000	20		<9>	6000	20	
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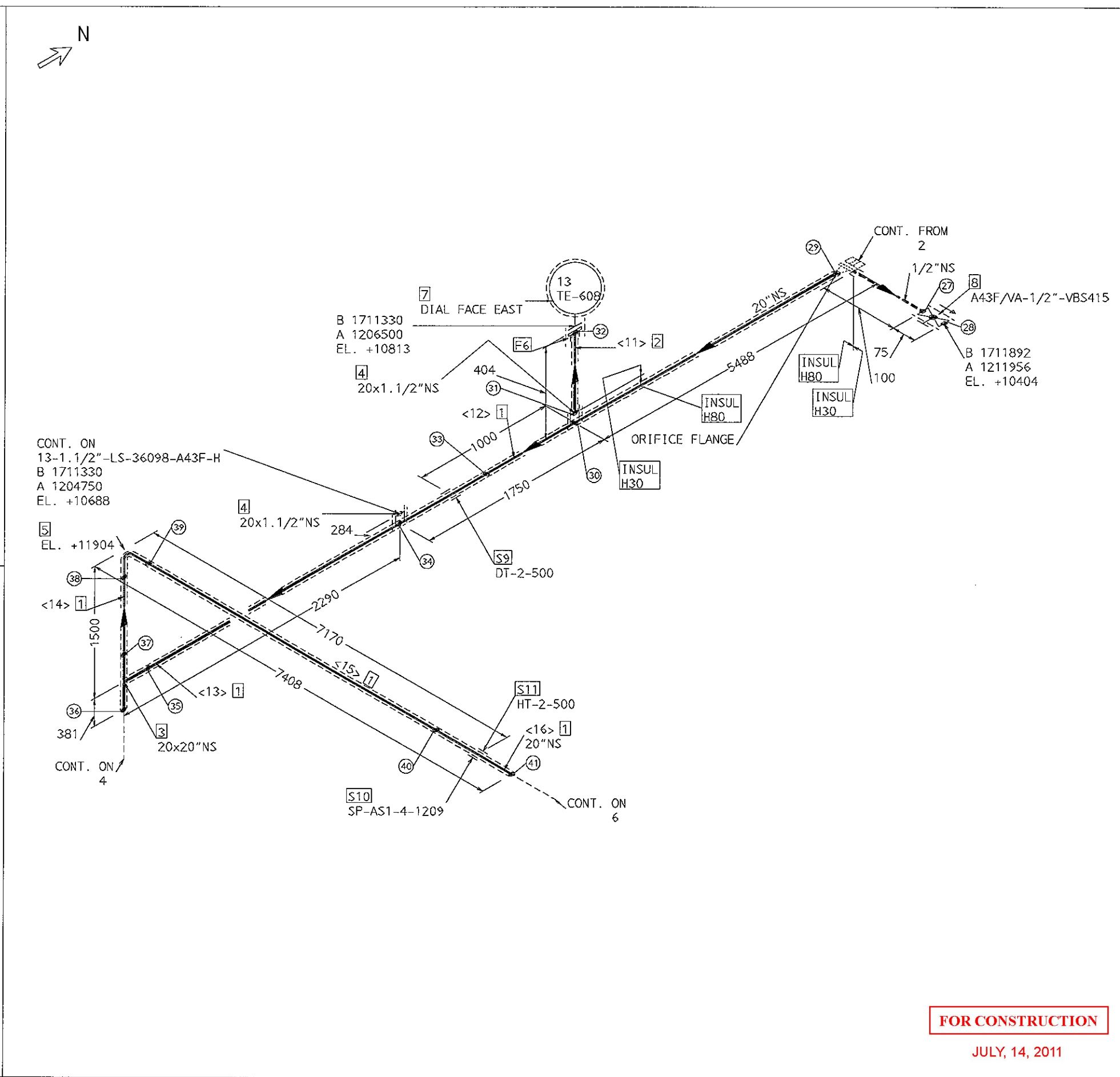
FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DES. D.H.LEE	06/01/2011					
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011					
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10	APPR. A.F.WU	06/01/2011					
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION 			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO.:	SHT.	ISSUE	
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-2	13-20"-LS-36001-A43F-H		2 OF 20	0

FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	20	A43F/P-20"-30	16.0M
2	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	1.1/2	A43F/P-1.1/2"-80	0.2M
FITTINGS				
3	TEE A234 GR.WPB SCH30 WELD BW ASME B16.9	20 x 20	A43F/TB-20"	1
4	HALF COUPLING CL3000 SW A105 ASME B16.11	20 x 1.1/2	A43F/CHS-20"x1.1/2"	2
5	90 DEG. ELBOW LR A234 GR.WPB SCH30 WELD BW ASME B16.9	20	A43F/EB-20"x90	1
FLANGES				
6	FLANGE CL300 RF SW A105 SCH80 BORE ASME B16.5	1.1/2	A43F/FR-1.1/2"	1
INSTRUMENTS				
7	INSTRUMENT CL300 RF 13 TE-608	1.1/2		1
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
COMPONENTS				
8	GLOBE VALVE CL800 SW A105 BODY #5 TRIM LOOSE DISC OS&Y BB API602 BY MFR (VBS415)	1/2	A43F/VA-1/2"-VBS415	1
SUPPORTS				
9	PIPE SUPPORT (DT-2-500)	20	SUP/DT-2-20"	1
10	SPECIAL SUPPORT (SP-AS1-4-1209)	20	SUP/AS1-4-20"	1
11	PIPE SUPPORT (HT-2-500)	20	SUP/HT-2-20"	1

CUT PIPE LENGTH						
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)
<11>	106	1.1/2		<12>	6000	20
<13>	2985	20		<14>	357	20
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△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DES.N. D.H.LEE	06/01/2011				
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011				
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10	APPR. A.F.WU	06/01/2011				
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-3	13-20"-LS-36001-A43F-H 3 OF 20 0		

FABRICATION MATERIALS

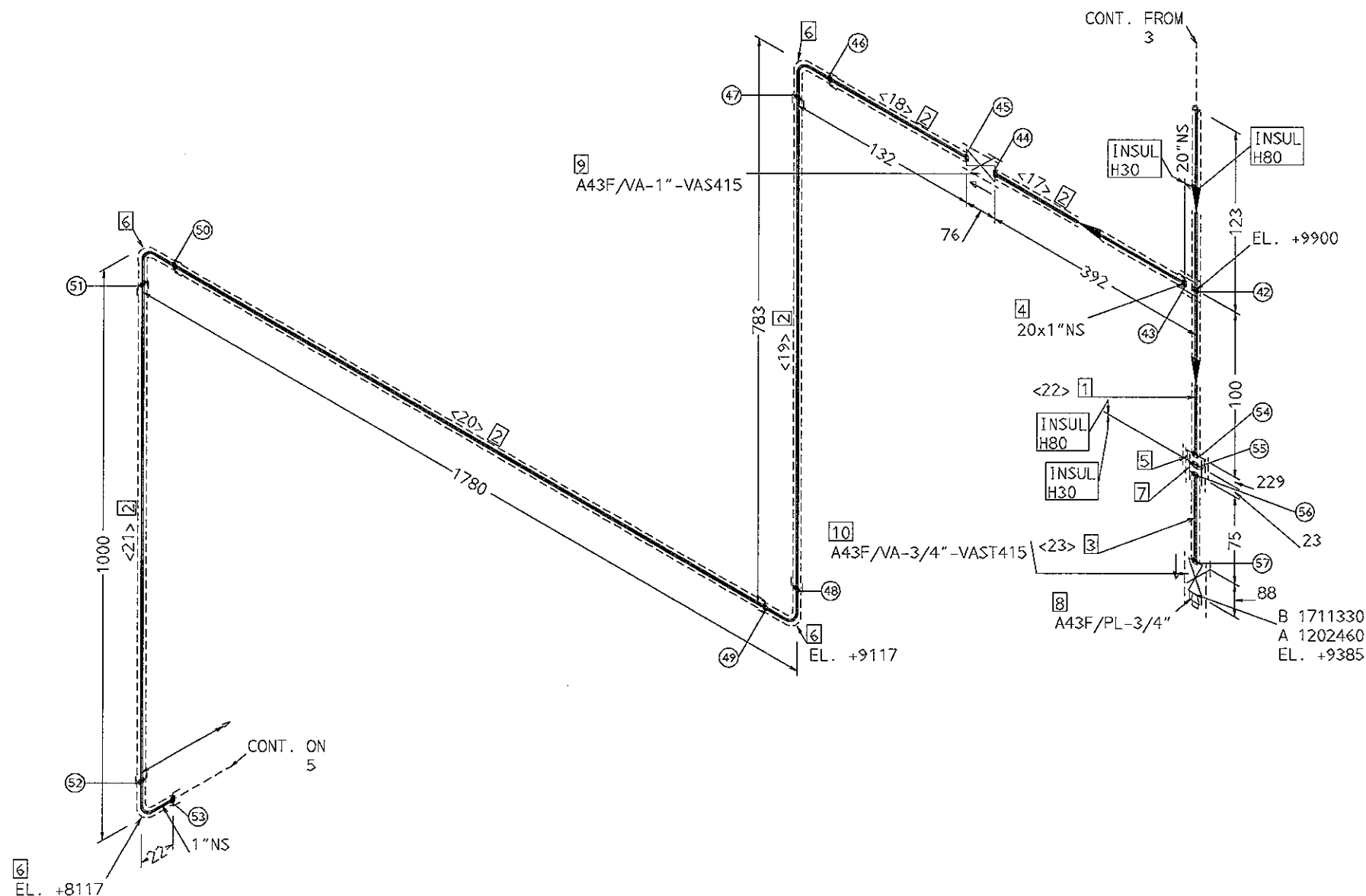
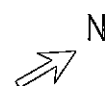
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	20	A43F/P-20"-30	0.3M
2	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	1	A43F/P-1"-80	3.7M
3	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	3/4	A43F/P-3/4"-80	0.1M
FITTINGS				
4	HALF COUPLING CL3000 SW A105 ASME B16.11	20 x 1	A43F/CHS-20"x1"	1
5	CAP A234 GR.WPB SCH30 SMLS BW ASME B16.9	20	A43F/CB-20"	1
6	90 DEG. ELBOW CL3000 SW A105 ASME B16.11	1	A43F/ES-1"x90	4
7	HALF COUPLING CL3000 SW A105 ASME B16.11	3/4	A43F/CHS-3/4"	1

ERECTION MATERIALS

PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
FITTINGS				
8	PLUG A105 HEXAGONAL TYPE SCRD(M-NPT) ASME B16.11	3/4	A43F/PL-3/4"	1
COMPONENTS				
9	GATE VALVE CL800 SW A105 BODY #5 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAS415)	1	A43F/VA-1"-VAS415	1
10	GATE VALVE CL800 SW/SCRD(NPT) A105 BODY #5 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAST415)	3/4	A43F/VA-3/4"-VAST415	1

CUT PIPE LENGTH

PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<17>	110	1		<18>	110	1	
<19>	739	1		<20>	1736	1	
<21>	956	1		<22>	223	20	
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FOR CONSTRUCTION

JULY, 14, 2011

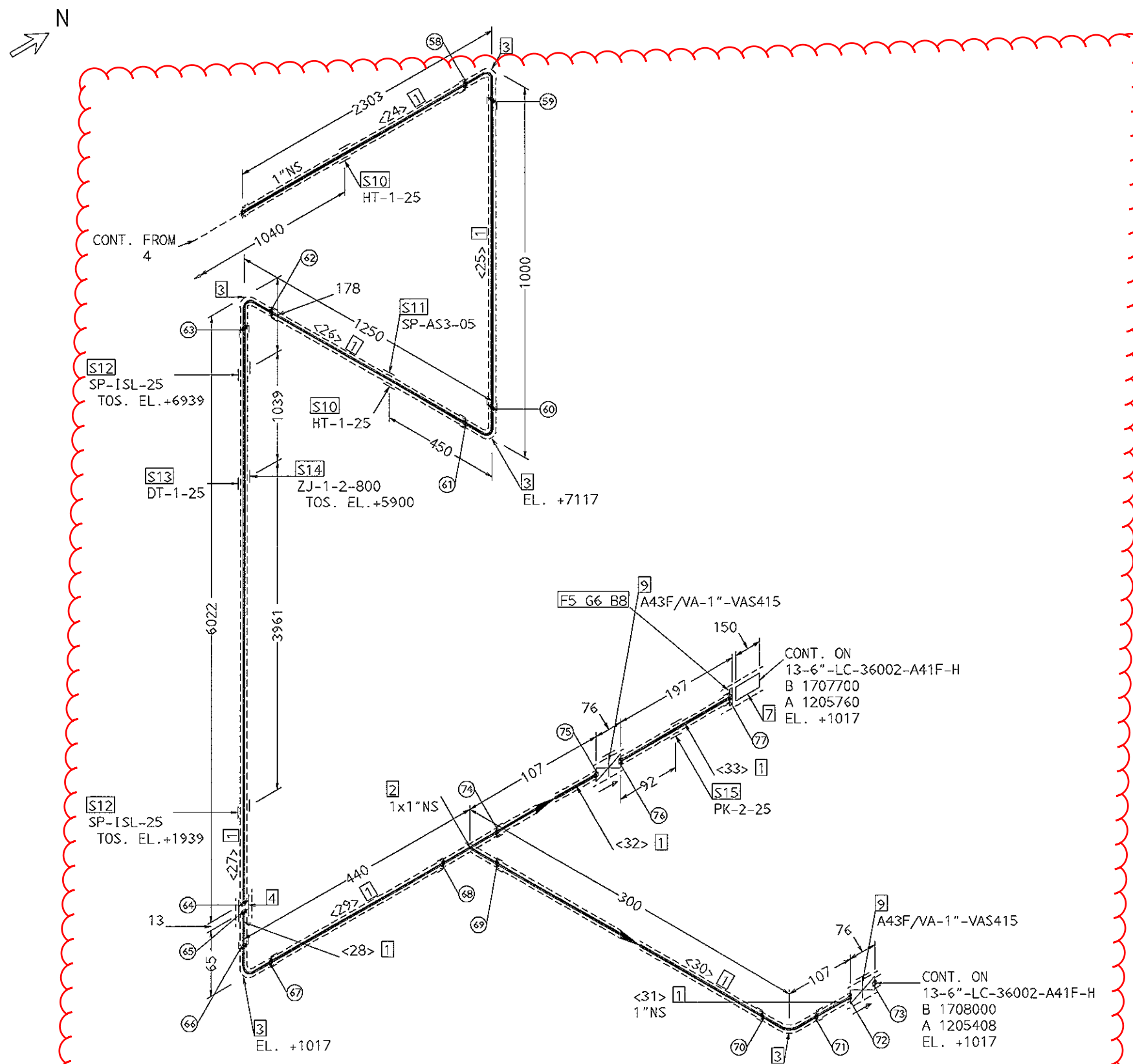
△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	REVIEWED	富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD. 腾龙芳烃(漳州)80万吨/年对二甲苯工程 CSU/VDU 装置		
△						DES. PRESS.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN. D.H.LEE	06/01/2011				
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011				
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10 %	APPR. A.F.WU	06/01/2011				
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION 			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-4	13-20"-LS-36001-A43F-H	4 OF 20	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	A43F/P-1"-80	11.5M
FITTINGS				
2	TEE CL3000 SW A105 ASME B16.11	1 x 1	A43F/TS-1"	1
3	90 DEG. ELBOW CL3000 SW A105 ASME B16.11	1	A43F/ES-1"x90	5
4	FULL COUPLING CL3000 SW A105 ASME B16.11	1	A43F/CFS-1"	1
FLANGES				
5	FLANGE CL300 RF SW A105 SCH80 BORE ASME B16.5	1	A43F/FR-1"	1
GASKETS				
6	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	1	A43F/GR-1"-G214ACM	1
INSTRUMENTS				
7	TRAP CL300 RF	1	A43F/TRAP-1"	1
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
BOLTS				
8	80 MM LONG STUD BOLT . M16 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A43F/BSF-1"-80	4
COMPONENTS				
9	GATE VALVE CL800 SW A105 BODY #5 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAS415)	1	A43F/VA-1"-VAS415	2
SUPPORTS				
10	PIPE SUPPORT (HT-1-25)	1	SUP/HT-1-1"	2
11	SPECIAL SUPPORT (SP-AS3-05)	1	SUP/AS3-1"	1
12	SPECIAL SUPPORT (SP-ISL-25)	1	SUP/ISL-1"	2
13	PIPE SUPPORT (DT-1-25)	1	SUP/DT-1-1"	1
14	PIPE SUPPORT (ZJ-1-2-800)	1	SUP/ZJ-1-2-1"	1
15	PIPE SUPPORT (PK-2-25)	1	SUP/PK-2-1"	1

CUT PIPE LENGTH

PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<24>	2281	1		<25>	956	1	
<26>	1204	1		<27>	6000	1	
<28>	43	1		<29>	396	1	
<30>	256	1		<31>	85	1	
<32>	85	1		<33>	183	1	



FOR CONSTRUCTION

JULY, 14, 2011

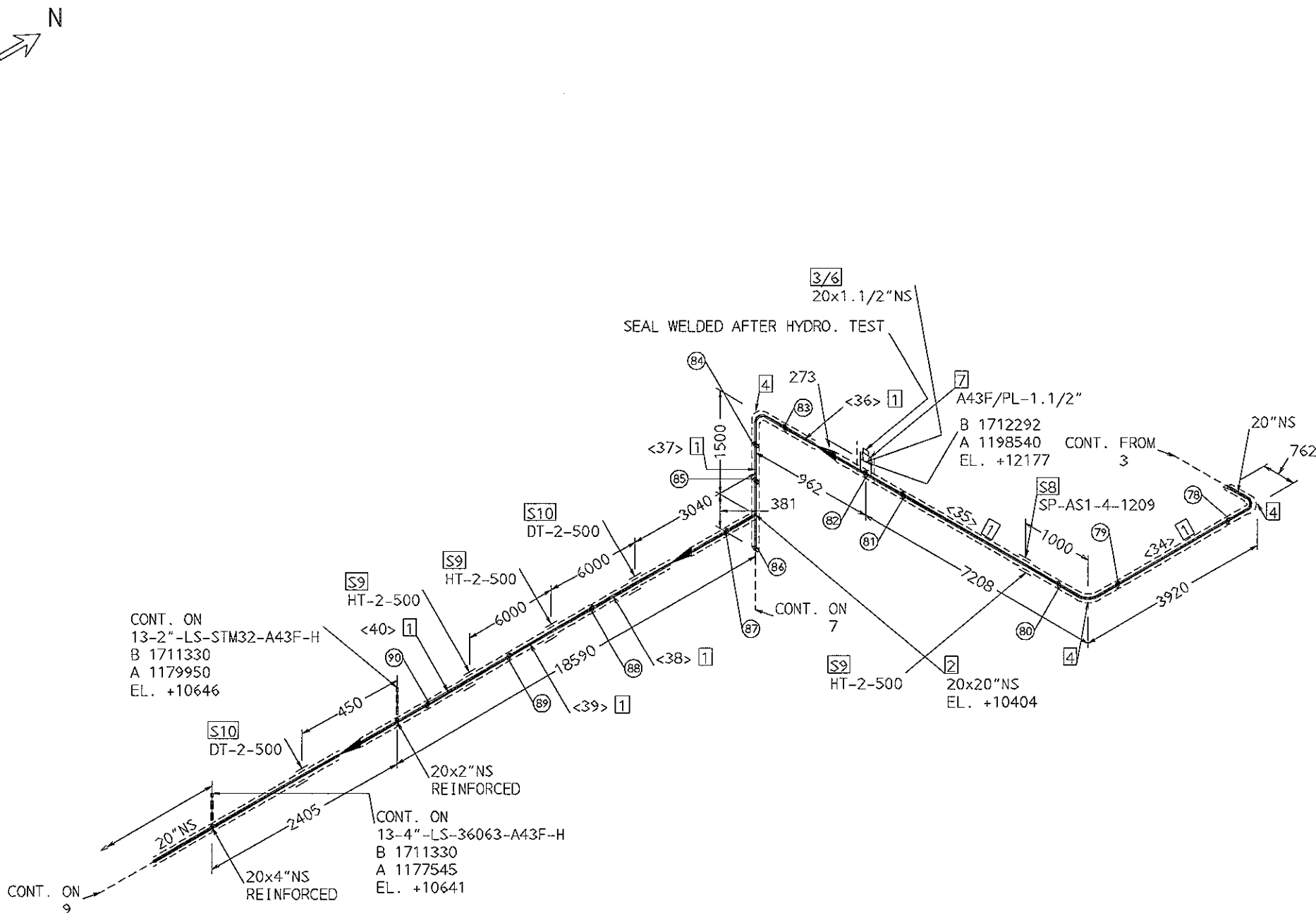
△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	REVIEWED	富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD. 腾龙芳烃(漳州)80万吨/年对二甲苯工程 CSU/VDU装置
△						DES. PRESS.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION: H80	DESN. D.H.LEE	06/01/2011		
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT: NO	TRACING: ---	CHK. Y.C.CHOU	06/01/2011		
△	07/08/2011	FOR CONSTRUCTION		Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING: PER SPEC.	STEAM OUT: NO	APPR. A.F.WU	06/01/2011		
△	06/01/2011	FOR APPROVAL		Y.M.LU	Y.C.CHOU	A.F.WU						
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION			DWG NO.: 314C, 315C, 316C	CONTRACT: C192502	LINE NO.:	SHT. ISSUE
									DIA. NO.: 1208-036/3390-020	FILE NO.: 13-LS36001-5	13-20"-LS-36001-A43F-H	5 OF 20 0

FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	20	A43F/P-20"-30	30.1M
FITTINGS				
2	TEE A234 GR.WPB SCH30 WELD BW ASME B16.9	20 x 20	A43F/TB-20"	1
3	HALF COUPLING CL3000 SCRD(NPT) A105 ASME B16.11	20 x 1.1/2	A43F/CHT-20"x1.1/2"	1
4	90 DEG. ELBOW LR A234 GR.WPB SCH30 WELD BW ASME B16.9	20	A43F/EB-20"x90	3
MISCELLANEOUS COMPONENTS				
5	REINFORCING PAD A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	4	A43F/PAD-20"x4"	1
6	REINFORCING PAD A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	2	A43F/PAD-20"x2"	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	1.1/2	A43F/PL-1.1/2"	1
SUPPORTS				
8	SPECIAL SUPPORT (SP-AS1-4-1209)	20	SUP/AS1-4-20"	1
9	PIPE SUPPORT (HT-2-500)	20	SUP/HT-2-20"	3
10	PIPE SUPPORT (DT-2-500)	20	SUP/DT-2-20"	2

CUT PIPE LENGTH					
PIECE NO	CUT LENGTH (INS)	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH (INS)
<34>	2396	20		<35>	6000
<36>	646	20		<37>	357
<38>	6000	20		<39>	6000
<40>	6000	20			

PIECE NO	CUT LENGTH (INS)	N.S. (INS)	REMARKS
<34>	2396	20	
<36>	646	20	
<38>	6000	20	
<40>	6000	20	

△						QPR. PRESS.: 1.2 MPa(G)	QPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN. D.H.LEE	06/01/2011				
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011				
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10 %	APPR. A.F.WU	06/01/2011				
△	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION 			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-6	13-20"-LS-36001-A43F-H	6 OF 20	0

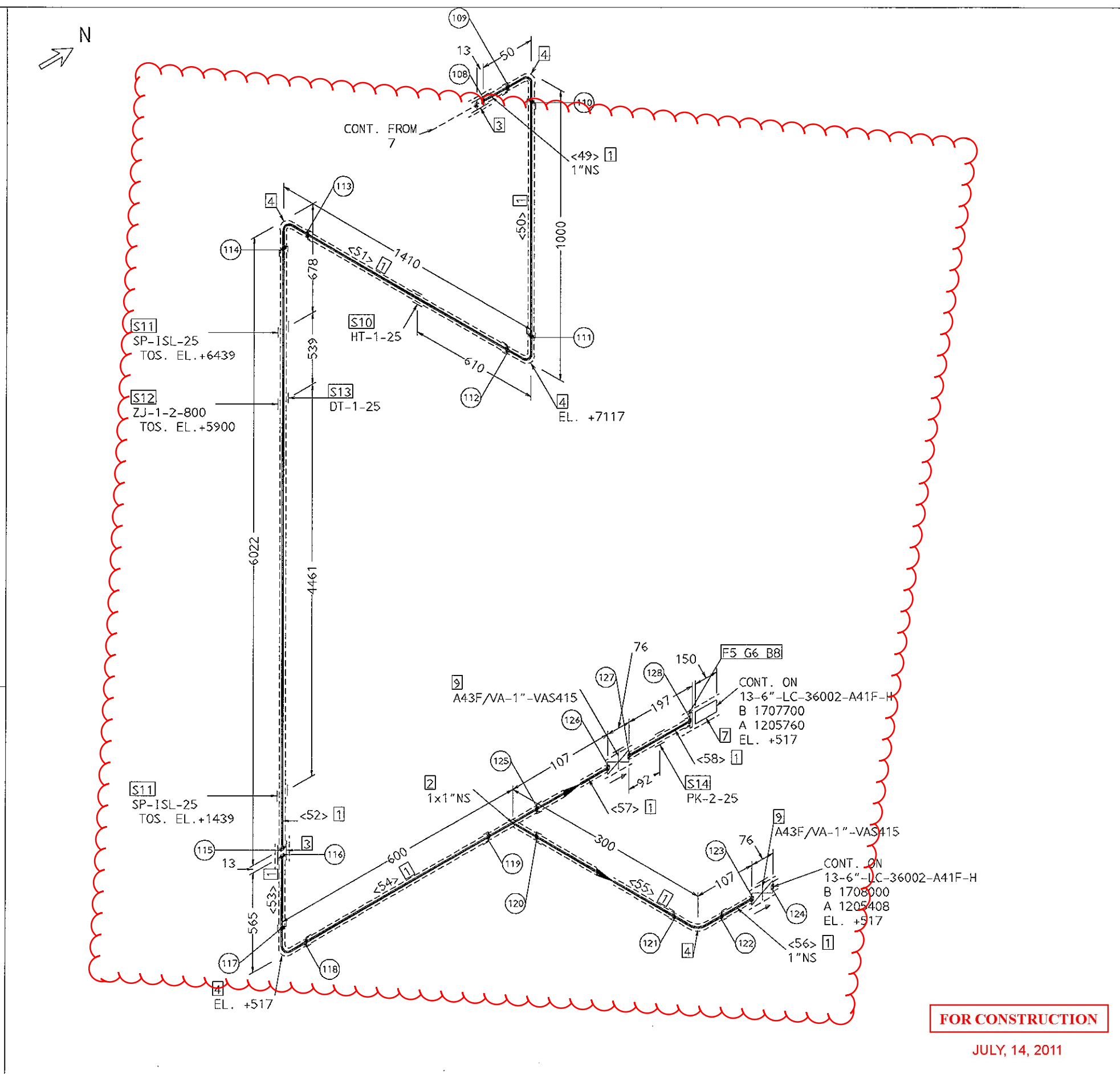


FOR CONSTRUCTION

JULY, 14, 2011

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	A43F/P-1"-80	10.1M
FITTINGS				
2	TEE CL3000 SW A105 ASME B16.11	1 x 1	A43F/TS-1"	1
3	FULL COUPLING CL3000 SW A105 ASME B16.11	1	A43F/CFS-1"	2
4	90 DEG. ELBOW CL3000 SW A105 ASME B16.11	1	A43F/ES-1"x90	5
FLANGES				
5	FLANGE CL300 RF SW A105 SCH80 BORE ASME B16.5	1	A43F/FR-1"	1
GASKETS				
6	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	1	A43F/GR-1"-G214ACM	1
INSTRUMENTS				
7	TRAP CL300 RF	1	A43F/TRAP-1"	1
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
BOLTS				
8	80 MM LONG STUD BOLT M16 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A43F/BSF-1"-80	4
COMPONENTS				
9	GATE VALVE CL800 SW A105 BODY #5 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAS415)	1	A43F/VA-1"-VAS415	2
SUPPORTS				
10	PIPE SUPPORT (HT-1-25)	1	SUP/HT-1-1"	1
11	SPECIAL SUPPORT (SP-ISL-25)	1	SUP/ISL-1"	2
12	PIPE SUPPORT (ZJ-1-2-800)	1	SUP/ZJ-1-2-1"	1
13	PIPE SUPPORT (DT-1-25)	1	SUP/DT-1-1"	1
14	PIPE SUPPORT (PK-2-25)	1	SUP/PK-2-1"	1

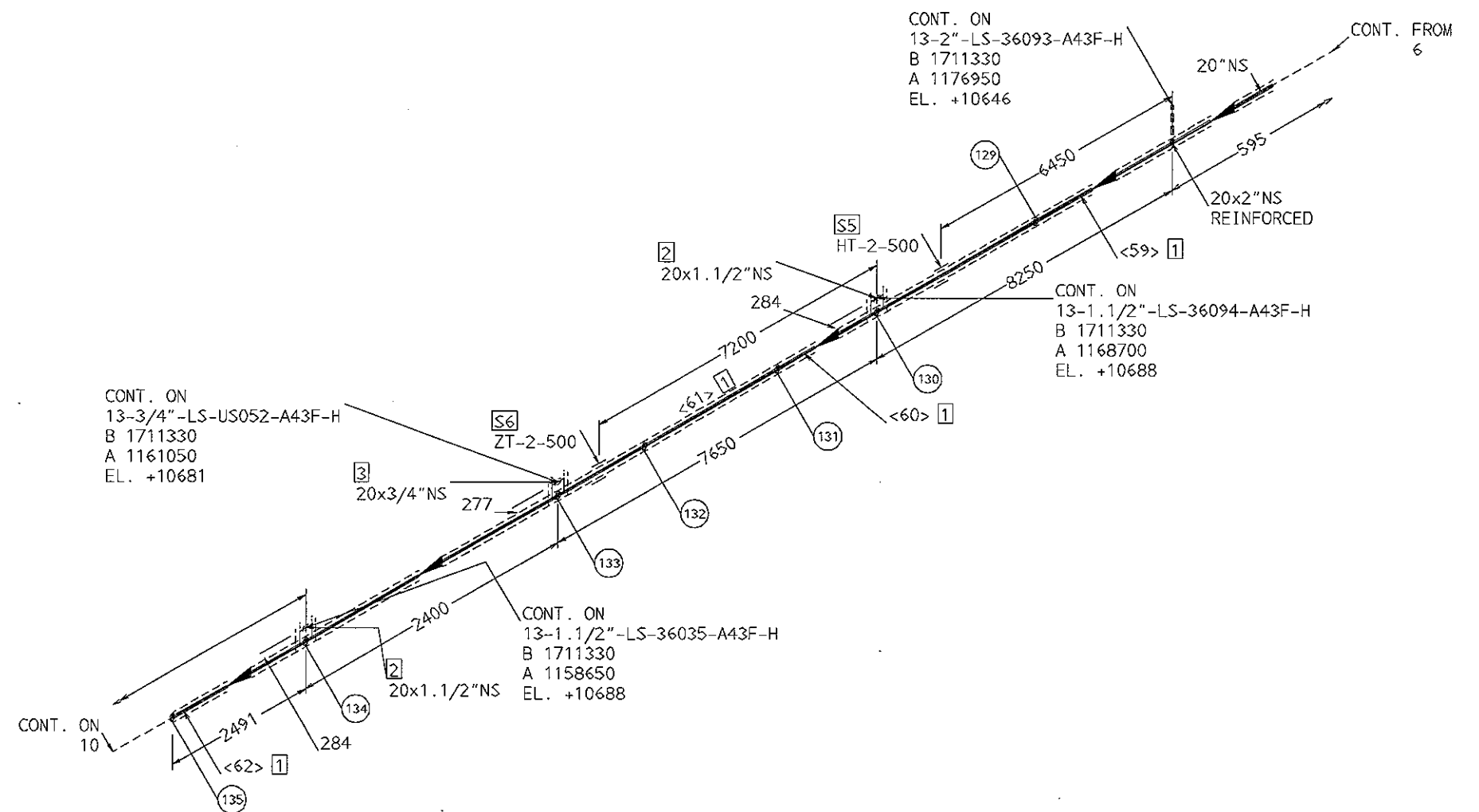
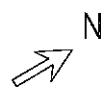
CUT PIPE LENGTH					
PIECE NO	CUT LENGTH (INS)	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH (INS)
<49>	28	1		<50>	956
<51>	1366	1		<52>	6000
<53>	543	1		<54>	556
<55>	256	1		<56>	85
<57>	85	1		<58>	183



△						DPR. PRESS.: 1.2 MPa(G)	DPR. TEMP.: 210 °C	CLASS: A43F	DWN.	Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN.	D.H.LEE	06/01/2011			
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK.	Y.C.CHOU	06/01/2011			
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10	APPR.	A.F.WU	06/01/2011			
△	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION 			DWG NO.: 314C, 315C, 316C		CONTRACT: C192502	LINE NO. :	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-H	13-20"-LS-36001-A43F-H	8 OF 20	0

FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	20	A43F/P-20"-30	21.4M
FITTINGS				
2	HALF COUPLING CL3000 SW A105 ASME B16.11	20 x 1.1/2	A43F/CHS-20"x1.1/2"	2
3	HALF COUPLING CL3000 SW A105 ASME B16.11	20 x 3/4	A43F/CHS-20"x3/4"	1
MISCELLANEOUS COMPONENTS				
4	REINFORCING PAD A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	2	A43F/PAD-20"x2"	1
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
SUPPORTS				
5	PIPE SUPPORT (HT-2-500)	20	SUP/HT-2-20"	1
6	PIPE SUPPORT (ZT-2-500)	20	SUP/ZT-2-20"	1

CUT PIPE LENGTH							
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<59>	6000	20		<60>	6000	20	
<61>	6000	20		<62>	6000	20	



FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN. D.H.LEE	06/01/2011				
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011				
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10 %	APPR. A.F.WU	06/01/2011				
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-9	13-20"-LS-36001-A43F-H	9 OF 20	0

FABRICATION MATERIALS

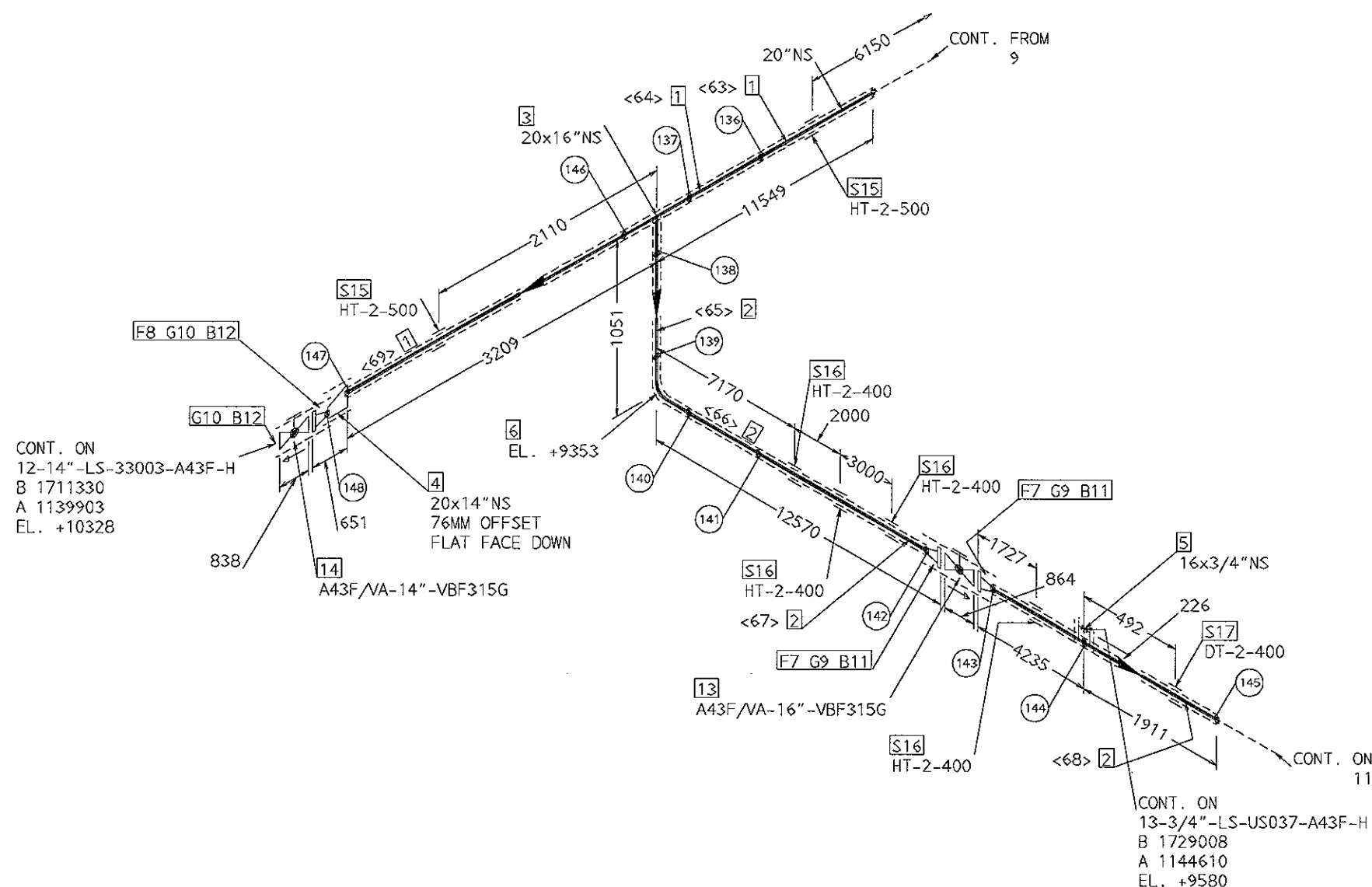
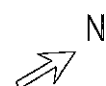
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A672 GR.B65 CL.22 SCH30 EFW BE ASME B36.10M	20	A43F/P-20"-30	14.0M
2	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	16	A43F/P-16"-40	17.9M
FITTINGS				
3	REDU TEE A234 GR.WPB SCH30/SCH40 WELD BW ASME B16.9	20 x 16	A43F/TB-20"x16"	1
4	REDUCER ECC A234 GR.WPB SCH30/SCH40 WELD BW ASME B16.9	20 x 14	A43F/RE-20"x14"	1
5	HALF COUPLING CL3000 SW A105 ASME B16.11	16 x 3/4	A43F/CHS-16"x3/4"	1
6	90 DEG. ELBOW LR A234 GR.WPB SCH40 SMLS BW ASME B16.9	16	A43F/EB-16"x90	1
FLANGES				
7	FLANGE CL300 RF WN A105 SCH40 BORE ASME B16.5	16	A43F/WFR-16"	2
8	FLANGE CL300 RF WN A105 SCH40 BORE ASME B16.5	14	A43F/WFR-14"	1
GASKETS				
9	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	16	A43F/GR-16"-G214ACM	2
10	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	14	A43F/GR-14"-G214ACM	2

ERECTION MATERIALS

PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
BOLTS				
11	200 MM LONG STUD BOLT . M33 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A43F/BSF-16"-200	40
12	190 MM LONG STUD BOLT . M30 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A43F/BSF-14"-190	40
COMPONENTS				
13	GLOBE VALVE CL300 RF A216 GR.WCB BODY #5 TRIM LOOSE DISC OS&Y BB ASME B16.10 API600 GEAR OP. (VBF315G)	16	A43F/VA-16"-VBF315G	1
14	GLOBE VALVE CL300 RF A216 GR.WCB BODY #5 TRIM LOOSE DISC OS&Y BB ASME B16.10 API600 GEAR OP. (VBF315G)	14	A43F/VA-14"-VBF315G	1
SUPPORTS				
15	PIPE SUPPORT (HT-2-500)	20	SUP/HT-2-20"	2
16	PIPE SUPPORT (HT-2-400)	16	SUP/HT-2-16"	4
17	PIPE SUPPORT (DT-2-400)	16	SUP/DT-2-16"	1

CUT PIPE LENGTH

PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<63>	6000	20		<64>	5168	20	
<65>	85	16		<66>	6000	16	
<67>	5814	16		<68>	6000	16	
<69>	2828	20					



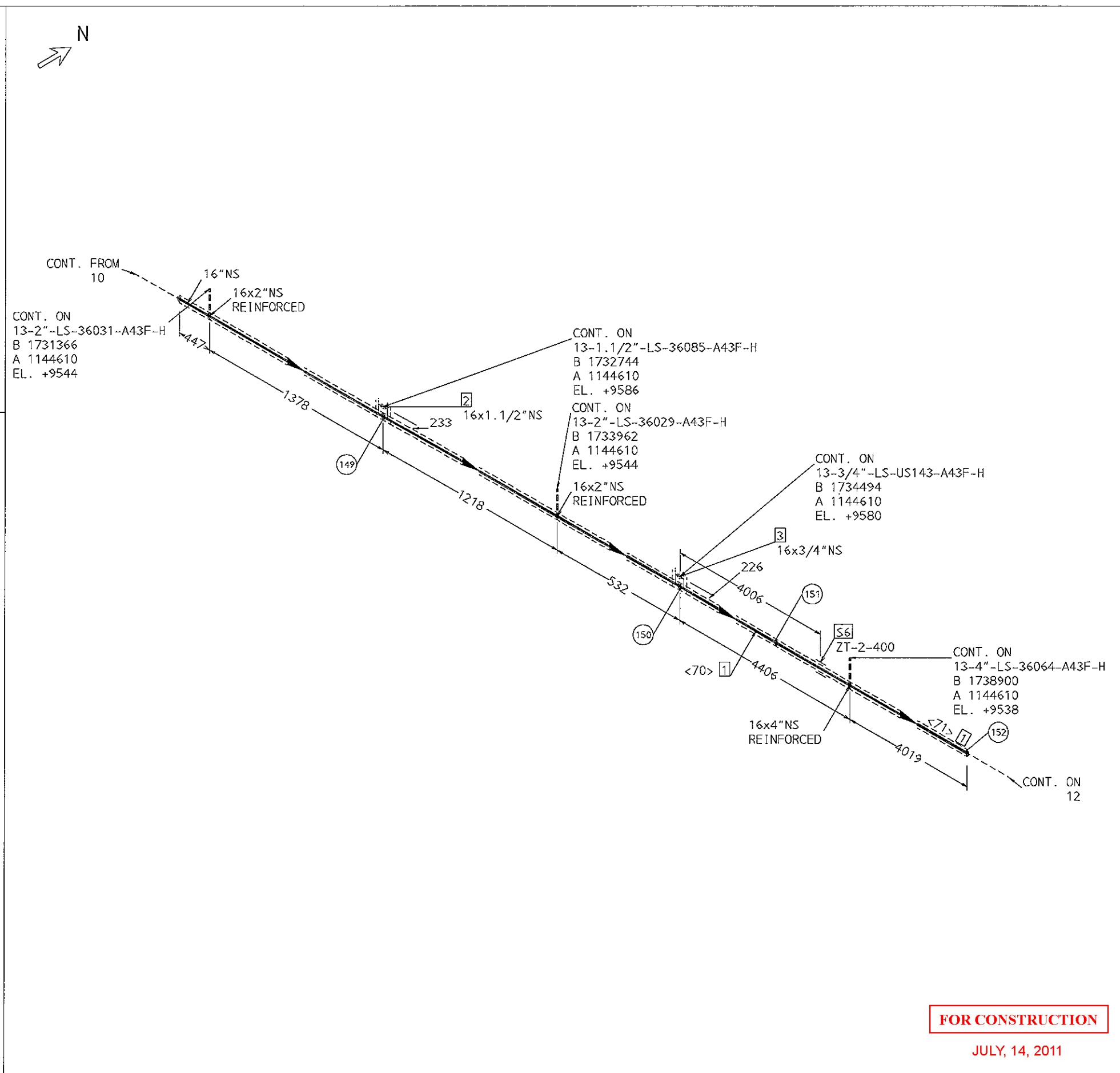
FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	REVIEWED	富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD.		
△						DES. PRESS.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN. D.H.LEE	06/01/2011				
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011				
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10 %	APPR. A.F.WU	06/01/2011				
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION 			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-10	13-20"-LS-36001-A43F-H	10 OF 20	0

FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	16	A43F/P-16"-40	12.0M
FITTINGS				
2	HALF COUPLING CL3000 SW A105 ASME B16.11	16 x 1.1/2	A43F/CHS-16"x1.1/2"	1
3	HALF COUPLING CL3000 SW A105 ASME B16.11	16 x 3/4	A43F/CHS-16"x3/4"	1
MISCELLANEOUS COMPONENTS				
4	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	4	A43F/PAD-16"x4"	1
5	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	2	A43F/PAD-16"x2"	2
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
SUPPORTS				
6	PIPE SUPPORT (ZT-2-400)	16	SUP/ZT-2-16"	1

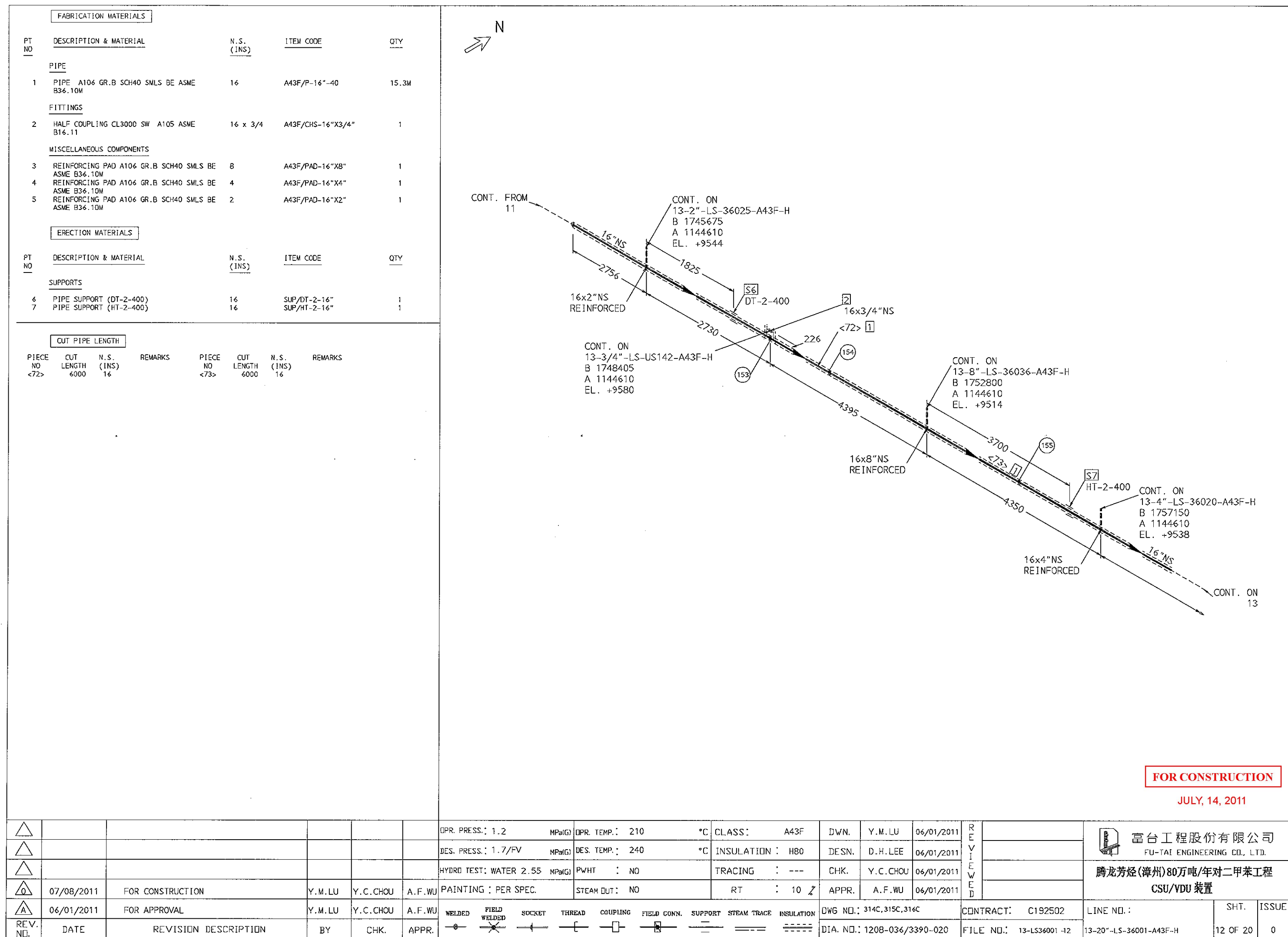
CUT PIPE LENGTH						
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)
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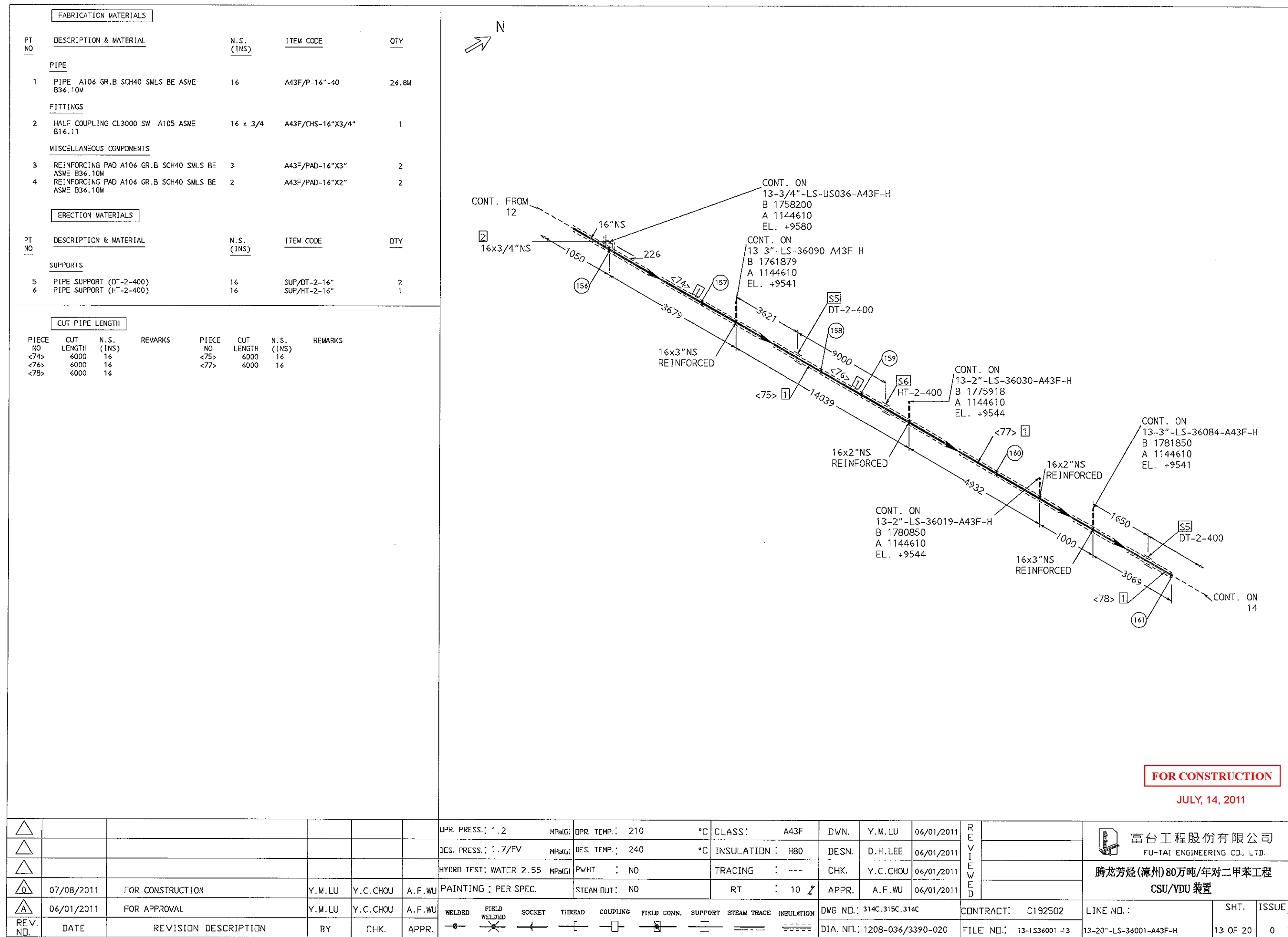


FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION: H80	DESN. D.H.LEE	06/01/2011				
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT: NO	TRACING: ---	CHK. Y.C.CHOU	06/01/2011				
△	07/08/2011	FOR CONSTRUCTION		Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING: PER SPEC.	STEAM OUT: NO	RT: 10	APPR. A.F.WU	06/01/2011			
△	06/01/2011	FOR APPROVAL		Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION			DWG NO.: 314C, 315C, 316C	CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION		BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020	FILE NO.: 13-LS36001-11	13-20"-LS-36001-A43F-H	11 OF 20	0

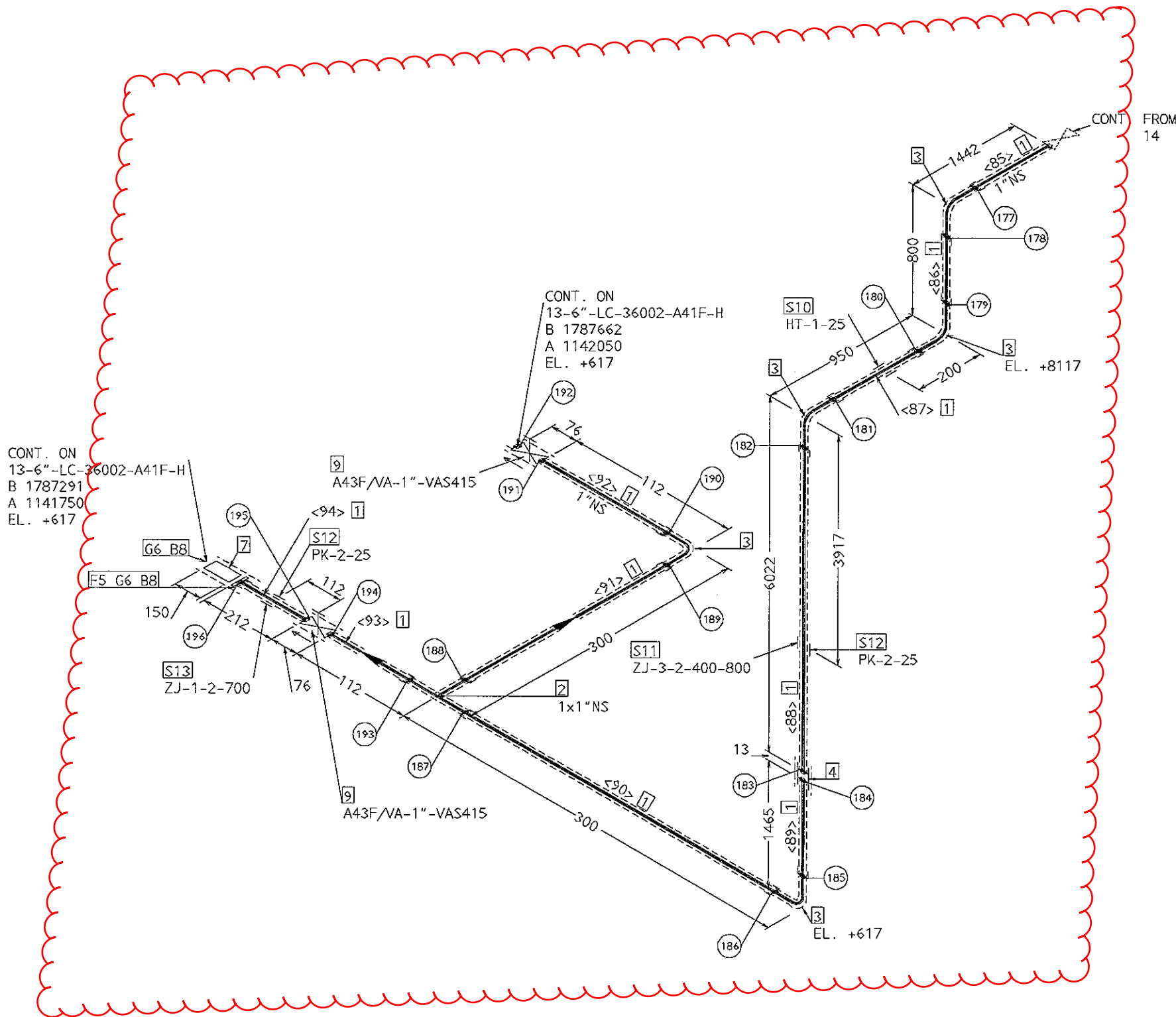
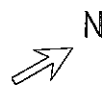




FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	1	A43F/P-1"-80	11.5M
FITTINGS				
2	TEE CL3000 SW A105 ASME B16.11	1 x 1	A43F/TS-1"	1
3	90 DEG. ELBOW CL3000 SW A105 ASME B16.11	1	A43F/ES-1"X90	5
4	FULL COUPLING CL3000 SW A105 ASME B16.11	1	A43F/CFS-1"	1
FLANGES				
5	FLANGE CL300 RF SW A105 SCH80 BORE ASME B16.5	1	A43F/FR-1"	1
GASKETS				
6	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	1	A43F/GR-1"-G214ACM	2
INSTRUMENTS				
7	TRAP CL300 RF	1	A43F/TRAP-1"	1
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
BOLTS				
8	80 MM LONG STUD BOLT . M16 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A43F/BSF-1"-80	8
COMPONENTS				
9	GATE VALVE CL800 SW A105 BODY #5 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAS415)	1	A43F/VA-1"-VAS415	2
SUPPORTS				
10	PIPE SUPPORT (HT-1-25)	1	SUP/HT-1-1"	1
11	PIPE SUPPORT (ZJ-3-2-400-800)	1	SUP/ZJ-3-2-1"	1
12	PIPE SUPPORT (PK-2-25)	1	SUP/PK-2-1"	2
13	PIPE SUPPORT (ZJ-1-2-700)	1	SUP/ZJ-1-2-1"	1

CUT PIPE LENGTH							
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<85>	1420	1		<86>	756	1	
<87>	906	1		<88>	6000	1	
<89>	1443	1		<90>	256	1	
<91>	256	1		<92>	90	1	
<93>	90	1		<94>	198	1	

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DES. D.H.LEE	06/01/2011			
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011			
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10 %	APPR. A.F.WU	06/01/2011			
△	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION 			DWG NO.: 314C, 315C, 316C	CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020	FILE NO.: 13-LS36001-15	13-20"-LS-36001-A43F-H	15 OF 20	0

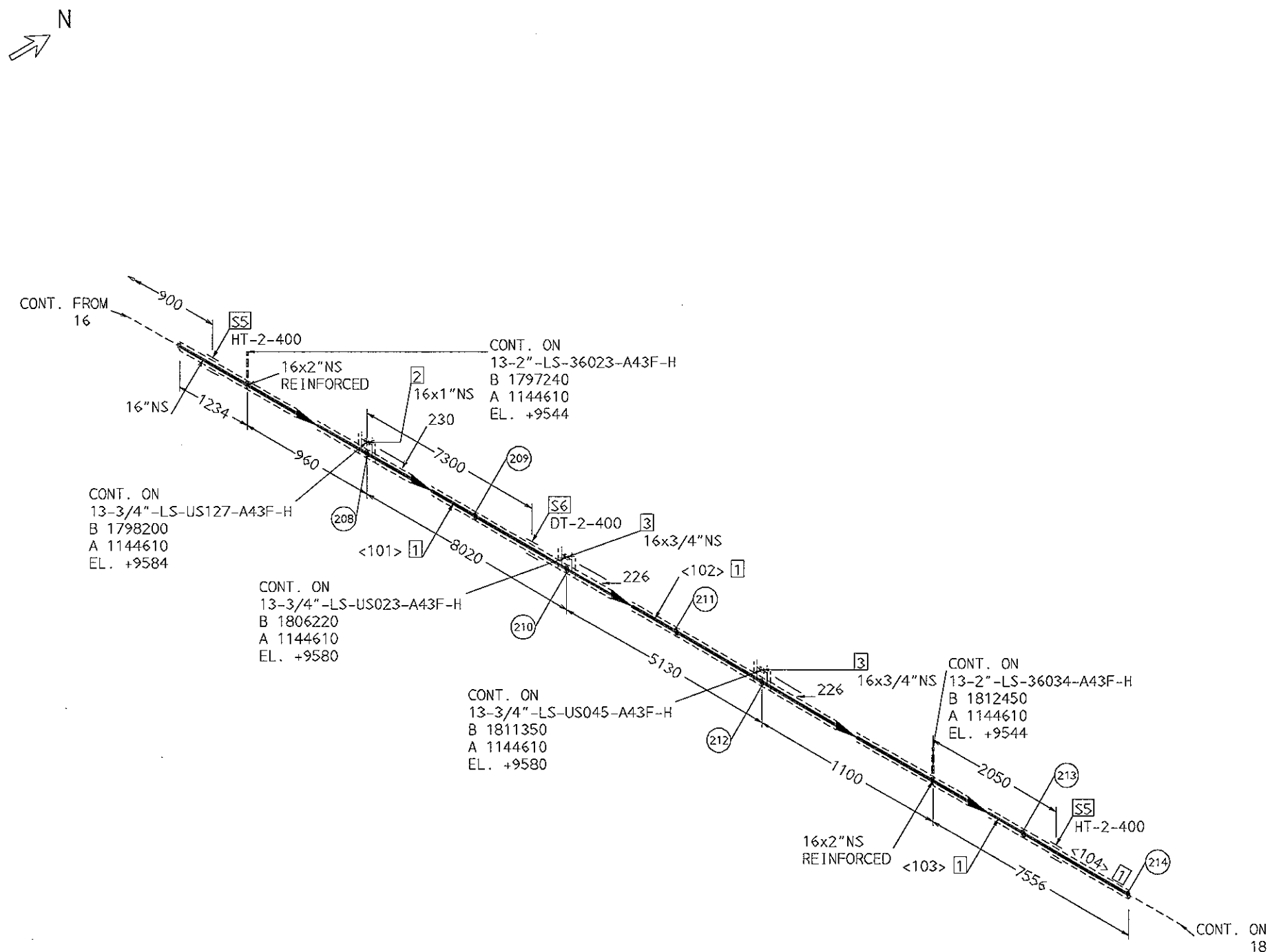


FOR CONSTRUCTION

JULY, 14, 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	16	A43F/P-16"-40	24.0M
FITTINGS				
2	HALF COUPLING CL3000 SW A105 ASME B16.11	16 x 1	A43F/CHS-16"x1"	1
3	HALF COUPLING CL3000 SW A105 ASME B16.11	16 x 3/4	A43F/CHS-16"x3/4"	2
MISCELLANEOUS COMPONENTS				
4	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	2	A43F/PAD-16"x2"	2
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
SUPPORTS				
5	PIPE SUPPORT (HT-2-400)	16	SUP/HT-2-16"	2
6	PIPE SUPPORT (DT-2-400)	16	SUP/DT-2-16"	1

CUT PIPE LENGTH						
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)
<101>	6000	16		<102>	6000	16
<103>	6000	16		<104>	6000	16



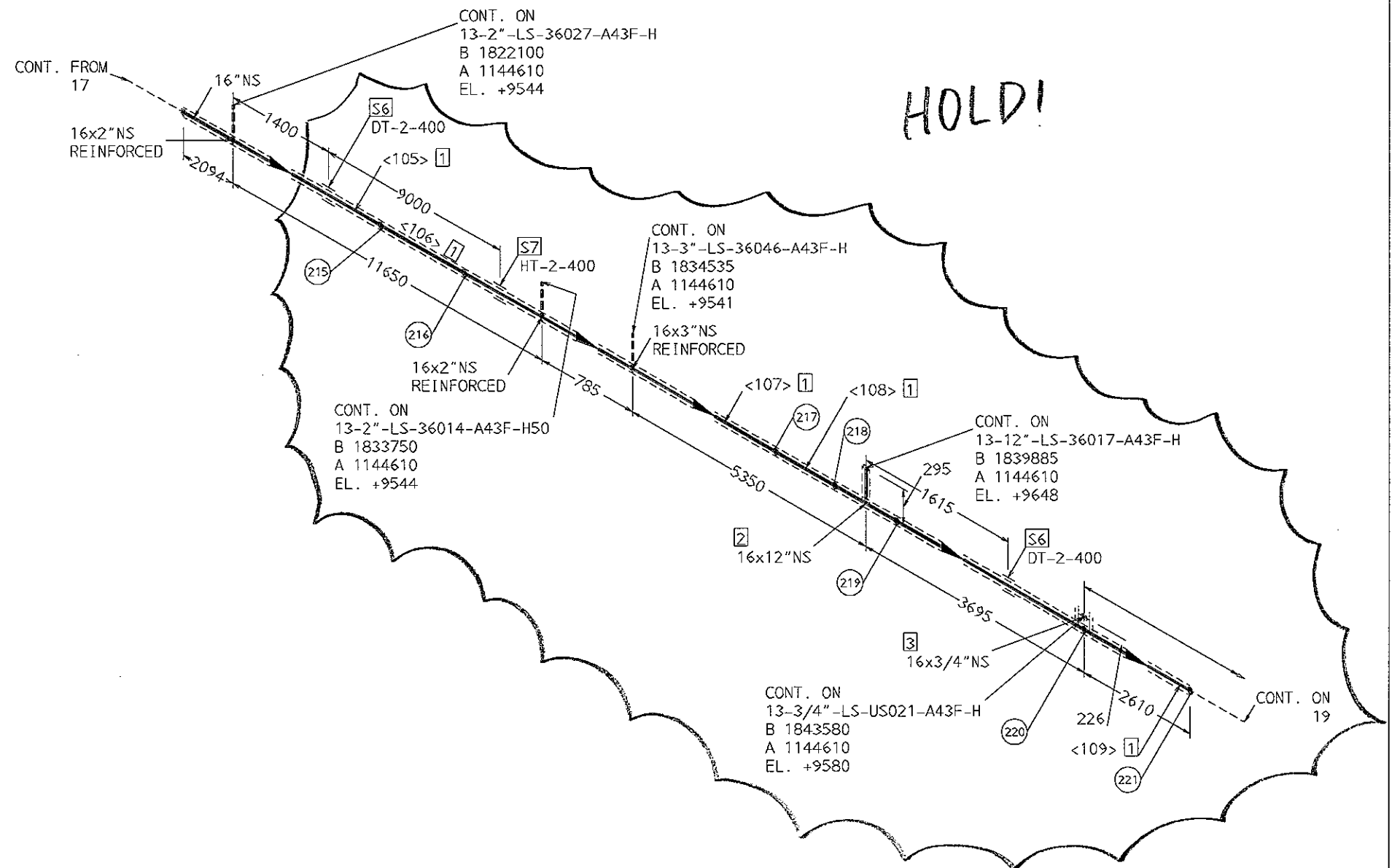
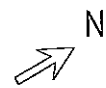
FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN. D.H.LEE	06/01/2011					
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011					
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10	APPR. A.F.WU	06/01/2011					
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO.:	SHT.	ISSUE	
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-17	13-20"-LS-36001-A43F-H		17 OF 20	0

FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	16	A43F/P-16"-40	25.6M
FITTINGS				
2	REDU TEE A234 GR.WPB SCH40 SMLS BW ASME B16.9	16 x 12	A43F/TB-16"x12"	1
3	HALF COUPLING CL3000 SW A105 ASME B16.11	16 x 3/4	A43F/CHS-16"x3/4"	1
MISCELLANEOUS COMPONENTS				
4	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	3	A43F/PAD-16"x3"	1
5	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	2	A43F/PAD-16"x2"	2
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
SUPPORTS				
6	PIPE SUPPORT (DT-2-400)	16	SUP/DT-2-16"	2
7	PIPE SUPPORT (HT-2-400)	16	SUP/HT-2-16"	1

CUT PIPE LENGTH							
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
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<109>	6000	16					



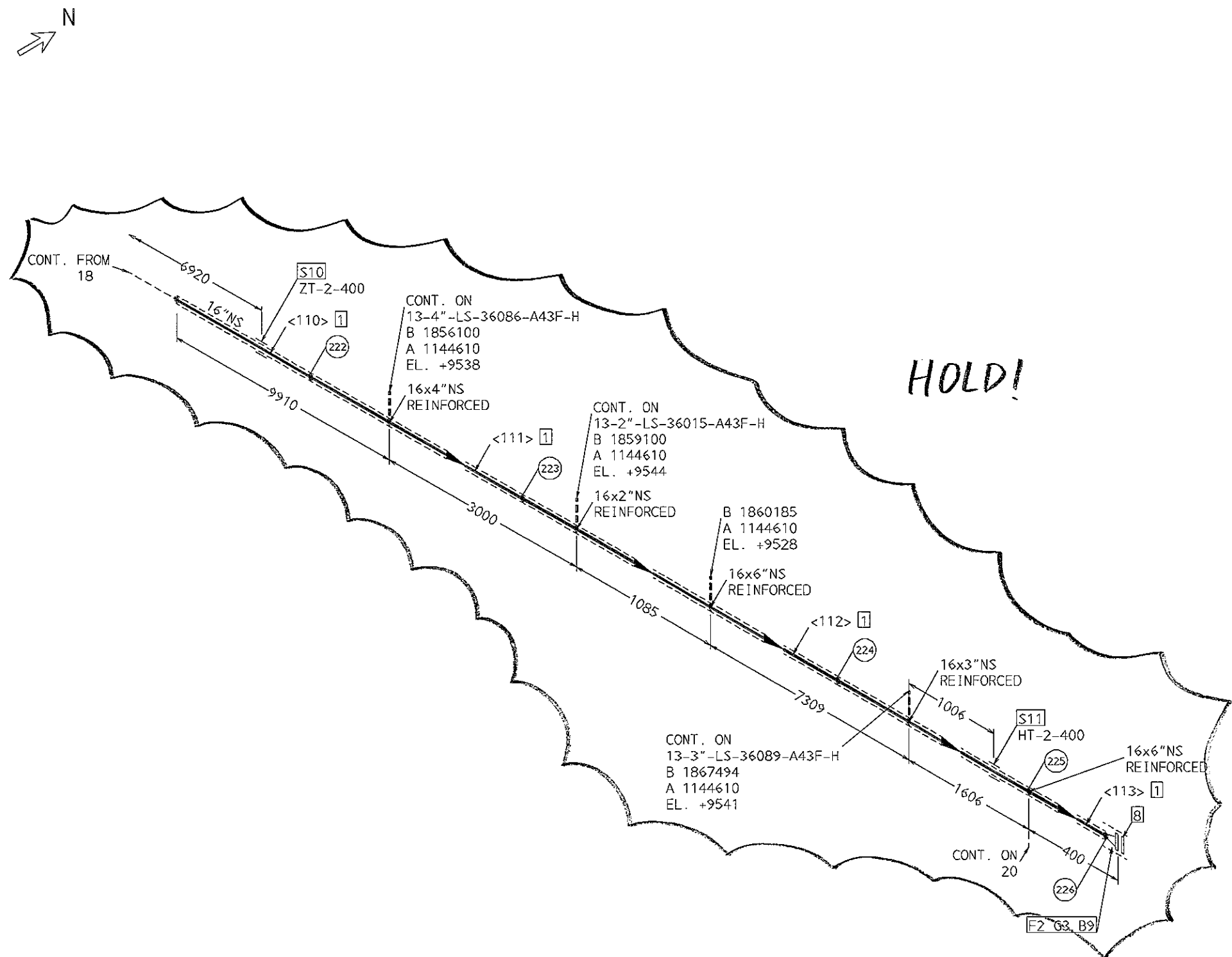
FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN. D.H.LEE	06/01/2011					
△						HYDRD TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011					
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10 %	APPR. A.F.WU	06/01/2011					
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO.:		SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-18	13-20"-LS-36001-A43F-H		18 OF 20	0

FABRICATION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	16	A43F/P-16"-40	23.2M
FLANGES				
2	FLANGE CL300 RF WN A105 SCH40 BORE ASME B16.5	16	A43F/WFR-16"	1
GASKETS				
3	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	16	A43F/GR-16"-G214ACM	1
MISCELLANEOUS COMPONENTS				
4	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	6	A43F/PAD-16"x6"	2
5	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	4	A43F/PAD-16"x4"	1
6	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	3	A43F/PAD-16"x3"	1
7	REINFORCING PAD A106 GR.B SCH40 SMLS BE ASME B36.10M	2	A43F/PAD-16"x2"	1
ERECTION MATERIALS				
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
FLANGES				
8	BLIND FLANGE CL300 RF A105 ASME B16.5	16	A43F/FBR-16"	1
BOLTS				
9	200 MM LONG STUD BOLT, M33 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A43F/BSF-16"-200	20
SUPPORTS				
10	PIPE SUPPORT (ZT-2-400)	16	SUP/ZT-2-16"	1
11	PIPE SUPPORT (HT-2-400)	16	SUP/HT-2-16"	1

CUT PIPE LENGTH						
PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)
<110>	6000	16		<111>	6000	16
<112>	6000	16		<113>	5164	16



FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	REVIEWED	富台工程股份有限公司 FU-TAI ENGINEERING CO., LTD.			
△						DES. PRESS.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN. D.H.LEE	06/01/2011					
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011					
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10 %	APPR. A.F.WU	06/01/2011					
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED FIELD WELDED SOCKET THREAD COUPLING FIELD CONN. SUPPORT STEAM TRACE INSULATION 			DWG NO.: 314C,315C,316C		CONTRACT: C192502	LINE NO. :		SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.				DIA. NO.: 1208-036/3390-020		FILE NO.: 13-LS36001-19	13-20"-LS-36001-A43F-H		19 OF 20	0

FABRICATION MATERIALS

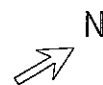
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
PIPE				
1	PIPE A106 GR.B SCH40 SMLS BE ASME B36.10M	6	A43F/P-6"-40	0.4M
2	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	1	A43F/P-1"-80	11.8M
3	PIPE A106 GR.B SCH80 SMLS PE ASME B36.10M	3/4	A43F/P-3/4"-80	0.2M
FITTINGS				
4	HALF COUPLING CL3000 SW A105 ASME B16.11	6 x 1	A43F/CHS-6"x1"	1
5	CAP A234 GR.WPB SCH40 SMLS BW ASME B16.9	6	A43F/CB-6"	1
6	TEE CL3000 SW A105 ASME B16.11	1 x 1	A43F/TS-1"	1
7	90 DEG. ELBOW CL3000 SW A105 ASME B16.11	1	A43F/ES-1"x90	3
8	FULL COUPLING CL3000 SW A105 ASME B16.11	1	A43F/CFS-1"	1
9	HALF COUPLING CL3000 SW A105 ASME B16.11	3/4	A43F/CHS-3/4"	1
FLANGES				
10	FLANGE CL300 RF SW A105 SCH80 BORE ASME B16.5	1	A43F/FR-1"	1
GASKETS				
11	GASKET CL300 RF 4.5mm 316SS SPIRAL WOUND FILLER FLEXIBLE GRAPHITE INNER RING 316SS OUTER RING LOW CS (G214ACM) ASME B16.20	1	A43F/GR-1"-G214ACM	2
INSTRUMENTS				
12	TRAP CL300 RF	1	A43F/TRAP-1"	1

ERECTION MATERIALS

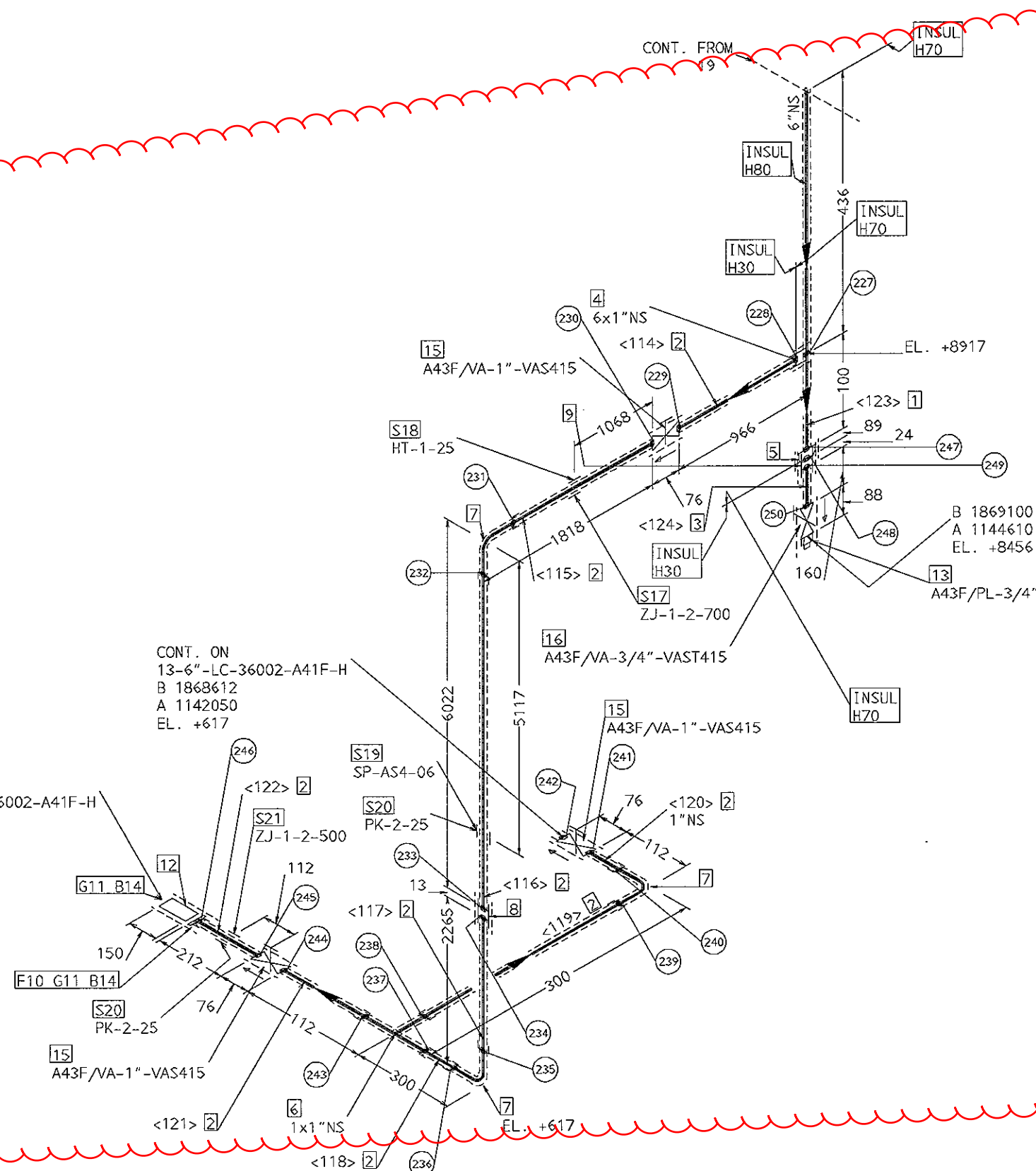
PT NO	DESCRIPTION & MATERIAL	N.S. (INS)	ITEM CODE	QTY
FITTINGS				
13	PLUG A105 HEXAGONAL TYPE SCRD(M-NPT) ASME B16.11	3/4	A43F/PL-3/4"	1
BOLTS				
14	80 MM LONG STUD BOLT . M16 A193 GR.B7 W/HEX HEAD HEAVY NUT A194 GR.2H		A43F/BSF-1"-80	8
COMPONENTS				
15	GATE VALVE CL800 SW A105 BODY #5 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAS415)	1	A43F/VA-1"-VAS415	3
16	GATE VALVE CL800 SW/SCRD(NPT) A105 BODY #5 TRIM SOLID WEDGE OS&Y BB API602 BY MFR (VAST415)	3/4	A43F/VA-3/4"-VAST415	1
SUPPORTS				
17	PIPE SUPPORT (ZJ-1-2-700)	1	SUP/ZJ-1-2-1"	1
18	PIPE SUPPORT (HT-1-25)	1	SUP/HT-1-1"	1
19	SPECIAL SUPPORT (SP-AS4-06)	1	SUP/AS4-1"	1
20	PIPE SUPPORT (PK-2-25)	1	SUP/PK-2-1"	2
21	PIPE SUPPORT (ZJ-1-2-500)	1	SUP/ZJ-1-2-1"	1

CUT PIPE LENGTH

PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS	PIECE NO	CUT LENGTH	N.S. (INS)	REMARKS
<114>	856	1		<115>	1796	1	
<116>	6000	1		<117>	2242	1	
<118>	256	1		<119>	256	1	
<120>	90	1		<121>	90	1	
<122>	198	1		<123>	362	6	
<124>	160	3/4					



CONT. ON
13-6"-LC-36002-A41F-H
B 1868241
A 1141750
EL. +617



FOR CONSTRUCTION

JULY, 14, 2011

△						OPR. PRESS.: 1.2 MPa(G)	OPR. TEMP.: 210 °C	CLASS: A43F	DWN. Y.M.LU	06/01/2011	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.: 1.7/FV MPa(G)	DES. TEMP.: 240 °C	INSULATION : H80	DESN. D.H.LEE	06/01/2011									
△						HYDRO TEST: WATER 2.55 MPa(G)	PWHT : NO	TRACING : ---	CHK. Y.C.CHOU	06/01/2011									
△	07/08/2011	FOR CONSTRUCTION	Y.M.LU	Y.C.CHOU	A.F.WU	PAINTING : PER SPEC.	STEAM OUT: NO	RT : 10 %	APPR. A.F.WU	06/01/2011									
A	06/01/2011	FOR APPROVAL	Y.M.LU	Y.C.CHOU	A.F.WU	WELDED	FIELD WELDED	SOCKET	THREAD	COUPLING	FIELD CONN.	SUPPORT	STEAM TRACE	INSULATION	DWG NO.: 314C,315C,316C	CONTRACT: C192502	LINE NO.:	SHT.	ISSUE
REV. NO.	DATE	REVISION DESCRIPTION	BY	CHK.	APPR.										DIA. NO.: 1208-036/3390-020	FILE NO.: 13-LS36001-20	13-20"-LS-36001-A43F-H	20 OF 20	0