

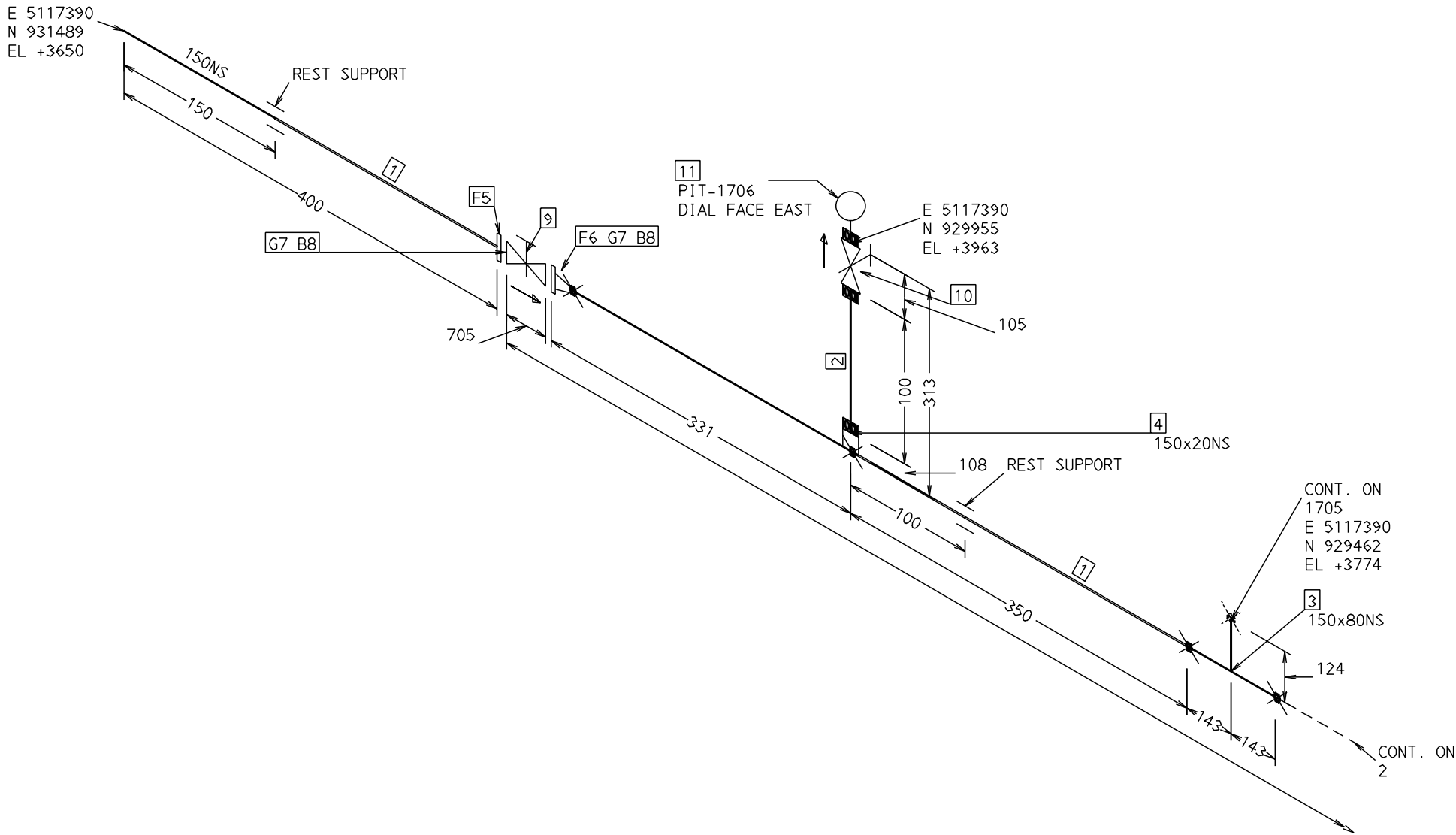
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	150	ASME B36.10 BE SEAMLESS SCH 160 ASTM A106 GR.B	900(MM)	
2	TUBI	20	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	100(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
3	TEE	150 x 80	TEE REDUCING BW SMLS ASME B16.9 SCH160xSCHXXS ASTM A234 GR.WPB	1	
4	TEE	150 x 20	HALF COUPLING ASME B16.11 #6000 SOCKET END ASTM A105	1	
5	FLAN	150	FLANGE BLIND 1500# RTJ ASME B16.5 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
6	FLAN	150	FLANGE WN 1500# RTJ ASME B16.5 SCH160 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
7	GASK	150	GASKET OCTAGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	2	
8		1.3/8 INS	270 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	24	
9	VALV	150	GATE VALVE #1500 API 600 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	
10	VALV	20	GATE VALVE #1500 API 602 / ASME B 16.34 SOCKET END TRIM 13% CR ASTM A105	1	
INSTRUMENTS					
11	INST	20	PRESSURE INDICATOR PIT-1706	1	

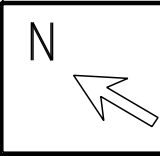
- GENERAL NOTES :
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. DIMENSIONS AND ROUTING OF THREADED & SW LINE ARE INDICATIVE ONLY AND SHALL BE CHECKED AT JOBSITE BEFORE ERECTION.
 3. WHEREVER FIELD WELDS (✱) ARE INDICATED AN EXCESS OF 305MM (12") SHALL BE PROVIDED.
 4. CONTRACTOR SHALL DO SITE STRINGING BEFORE FABRICATION.
 5. REFER TABLE 5, FIELD PAINT SYSTEM FOR NORMAL CORROSIVE ENVIRONMENT OF STANDARD SPECIFICATION FOR PAINTING.

0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
6"-P-1706-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1706						REV.0





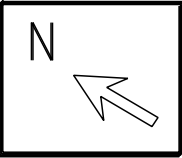
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	150	ASME B36.10 BE SEAMLESS SCH 160	3228(MM)	
2	TUBI	40	ASTM A106 GR.B ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	135(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
3	TEE	150 x 80	TEE REDUCING BW SMLS ASME B16.9	2	
4	TEE	150 x 40	SCH160xSCHXXS ASTM A234 GR.WPB	2	
5	FLAN	40	HALF COUPLING ASME B16.11 #6000	1	
6	GASK	40	SOCKET END ASTM A105	1	
7		1 INS	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	4	
8	VALV	40	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS 145 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H GATE VALVE #1500 API 602 / ASME B 16.34 SOCKET END TRIM 13% CR ASTM A105	1	
9	INST	40	INSTRUMENTS PRESSURE INDICATOR PG-1706	1	
10	INST	40	TEMPERATURE INDICATOR TG-1706	1	

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REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

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ISOMETRIC DWG. FOR LINE NO:						
6"-P-1706-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1706					REV.0	



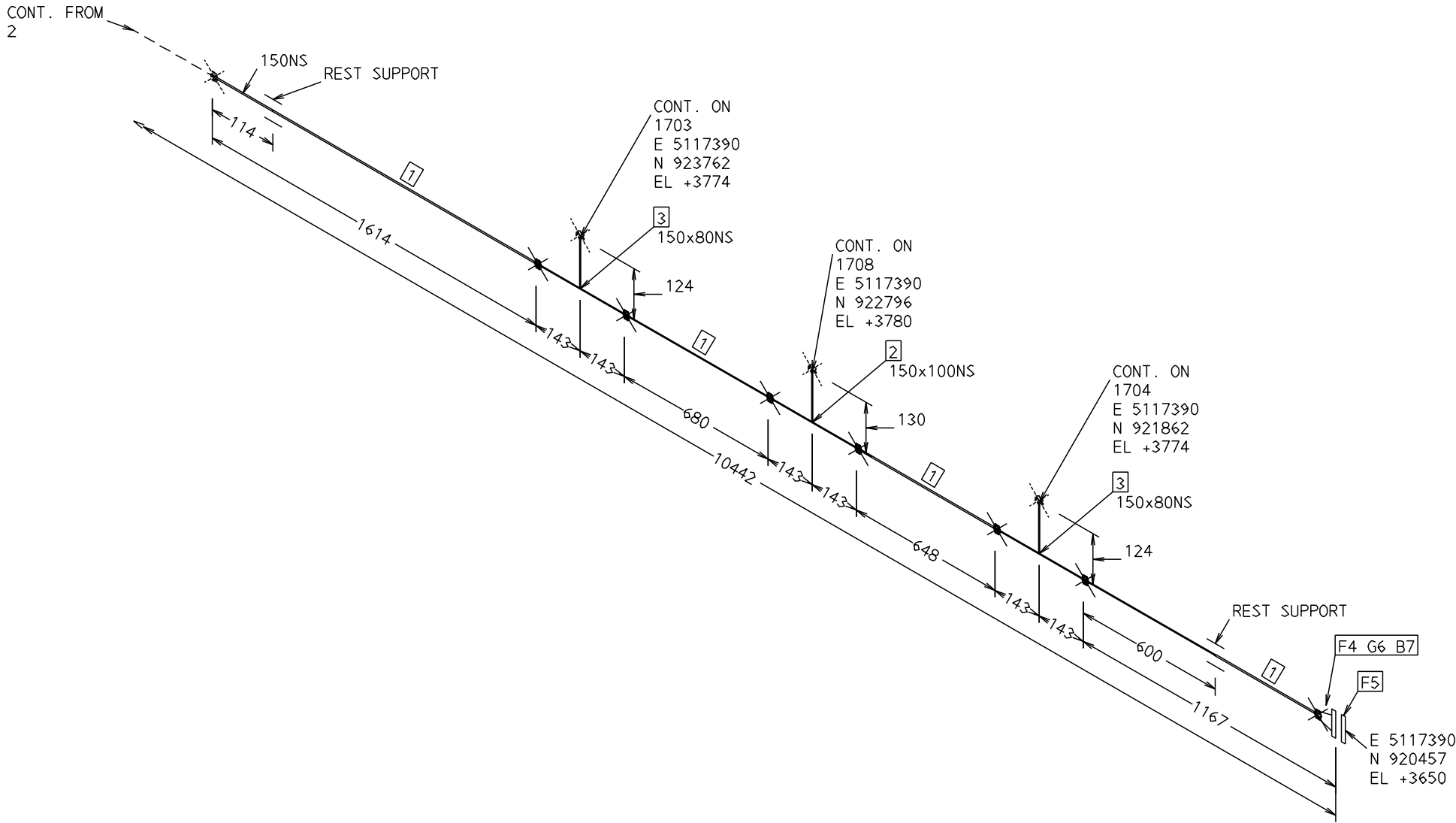
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	150	ASME B36.10 BE SEAMLESS SCH 160 ASTM A106 GR.B	3928(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	TEE	150 x 100	TEE REDUCING BW SMLS ASME B16.9 SCH160xSCHXXS ASTM A234 GR.WPB	1	
3	TEE	150 x 80	TEE REDUCING BW SMLS ASME B16.9 SCH160xSCHXXS ASTM A234 GR.WPB	2	
4	FLAN	150	FLANGE WN 1500# RTJ ASME B16.5 SCH160 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
5	FLAN	150	FLANGE BLIND 1500# RTJ ASME B16.5 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
6	GASK	150	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	1	
7		1.3/8 INS	270 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	12	

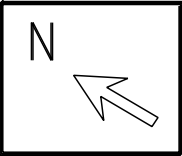
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REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

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ISOMETRIC DWG. FOR LINE NO:						
6"-P-1706-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1706					REV.0	





PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	150	ASME B36.10 BE SEAMLESS SCH 160 ASTM A106 GR.B	3014(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	TEE	150 x 80	TEE REDUCING BW SMLS ASME B16.9 SCH160xSCHXXS ASTM A234 GR.WPB	2	
3	FLAN	150	FLANGE BLIND 1500# RTJ ASME B16.5 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
4	FLAN	150	FLANGE WN 1500# RTJ ASME B16.5 SCH160 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
5	GASK	150	GASKET OCTAGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	2	
6		1.3/8 INS	270 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	24	
7	VALV	150	GATE VALVE #1500 API 600 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	

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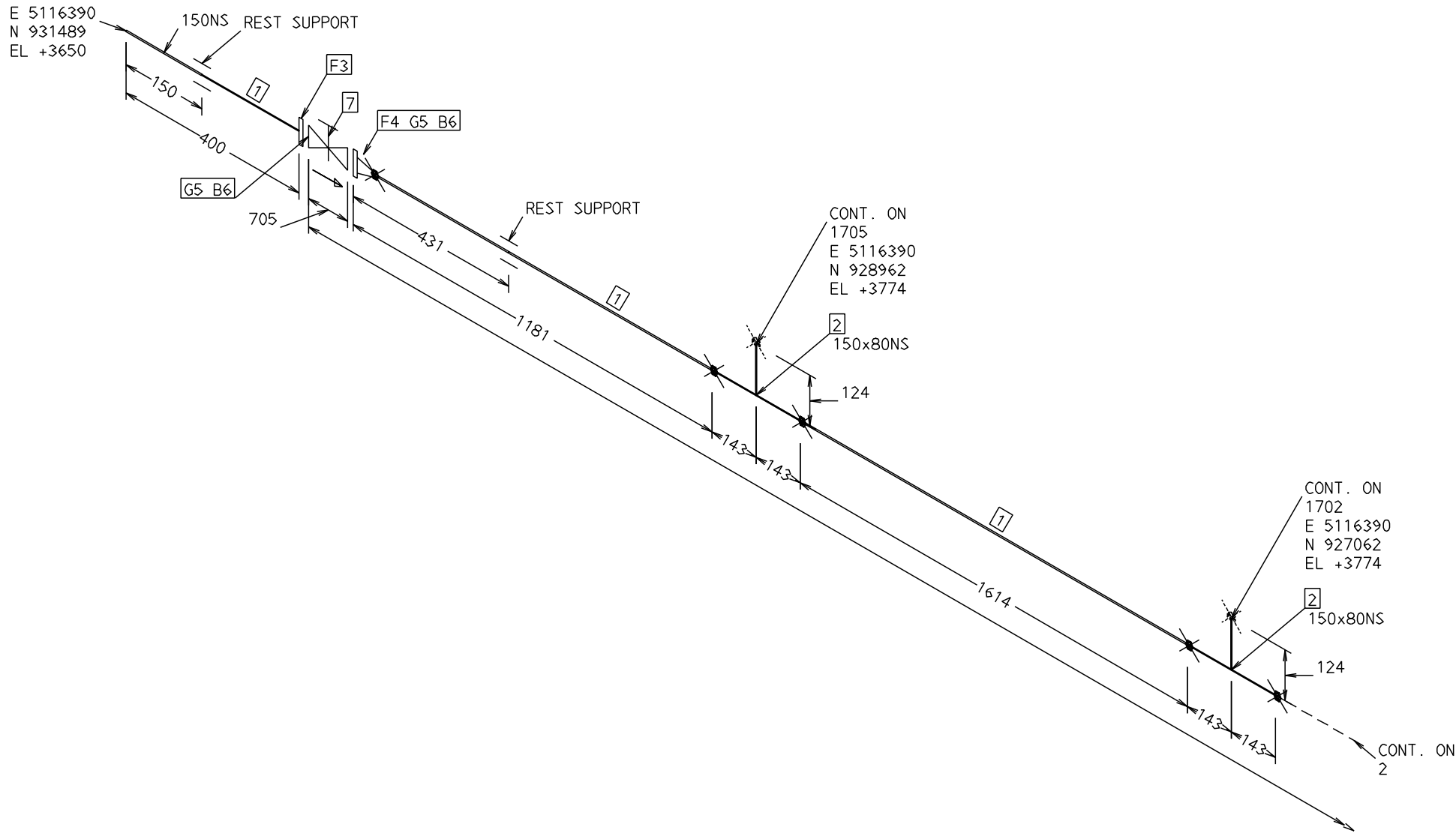
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REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

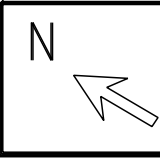
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ISOMETRIC DWG. FOR LINE NO:
6"-P-1707-FA6

INSULATION		DES.TEMP.(°C)		65	TEST	HYDRO(Kg/cm²)		225
TYPE	-	DES.PRES.(Kg/cm²)		150		PNEU(Kg/cm²)		-
THK. (MM)	-	OPE.TEMP.(°C)		30		RADIOGRAPHY		50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)		110		PWHT		-

DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1707 REV.0





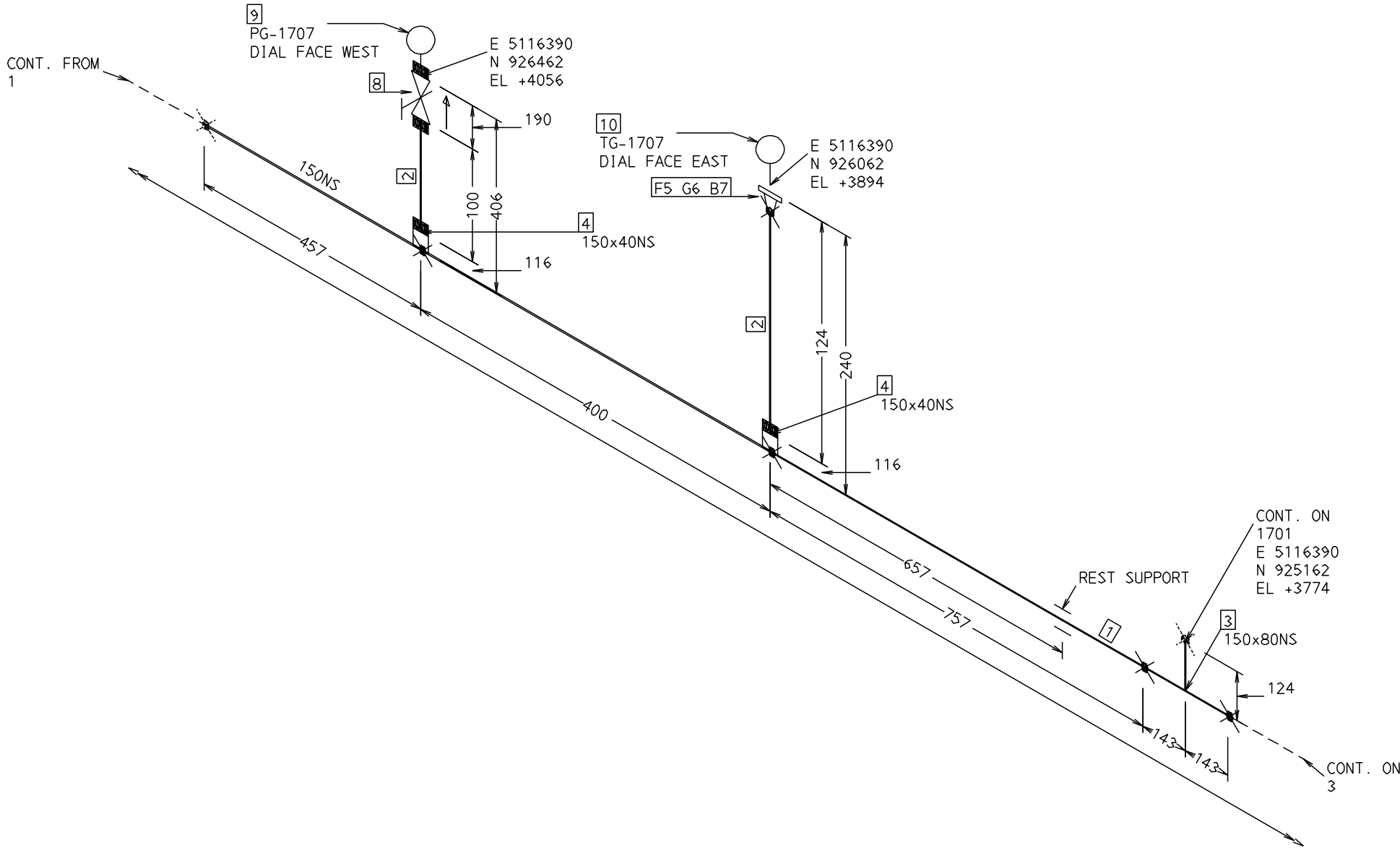
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	150	ASME B36.10 BE SEAMLESS SCH 160	1614(MM)	
2	TUBI	40	ASTM A106 GR.B ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	135(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
3	TEE	150 x 80	TEE REDUCING BW SMLS ASME B16.9	1	
4	TEE	150 x 40	SCH160xSCHXXS ASTM A234 GR.WPB	2	
5	FLAN	40	HALF COUPLING ASME B16.11 #6000	1	
6	GASK	40	SOCKET END ASTM A105 FLANGE WN 1500# RTJ ASME B16.5	1	
7		1 INS	SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	4	
8	VALV	40	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS 145 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H GATE VALVE #1500 API 602 / ASME B16.34 SOCKET END TRIM 13% CR ASTM A105	1	
9	INST	40	INSTRUMENTS PRESSURE INDICATOR PG-1707	1	
10	INST	40	TEMPERATURE INDICATOR TG-1707	1	

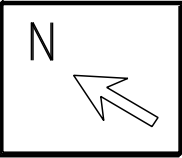
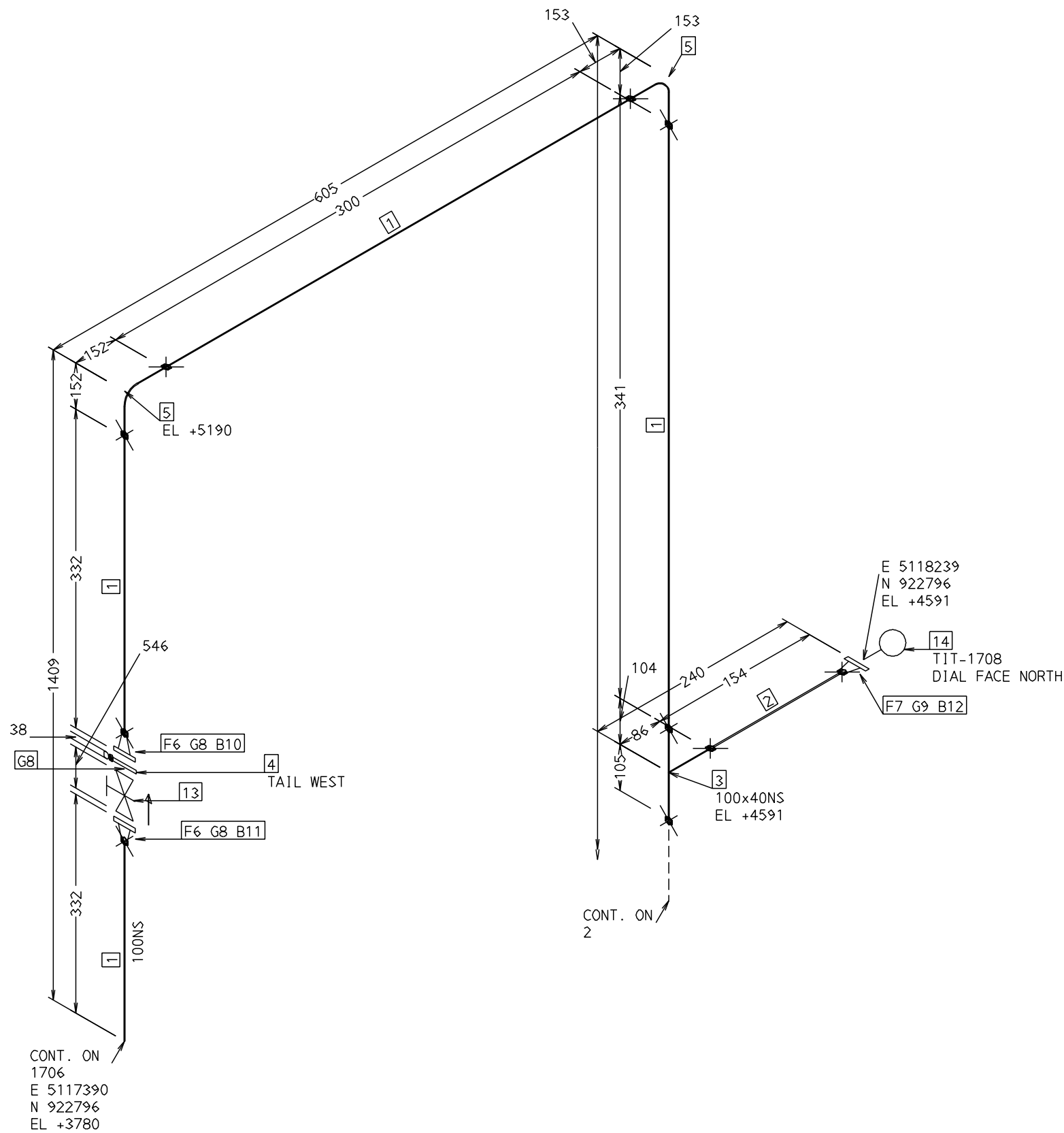
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REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

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ISOMETRIC DWG. FOR LINE NO: 6"-P-1707-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1707						REV.0





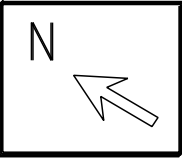
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	1041(MM)	
2	TUBI	40	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	65(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
3	TEE	100 x 40	TEE REDUCING BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
4	PCOM	100	SPACER & BLANK 1500# RTJ ASME B16.48 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A516 GR.70	1	
5	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	2	
6	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
7	FLAN	40	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
8	GASK	100	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	3	
9	GASK	40	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	1	
10		1.1/4 INS	245 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	
11		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	
12		1 INS	145 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	4	
13	VALV	100	GATE VALVE #1500 API 600 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	
14	INST	40	INSTRUMENTS TEMPERATURE INDICATOR TIT-1708	1	

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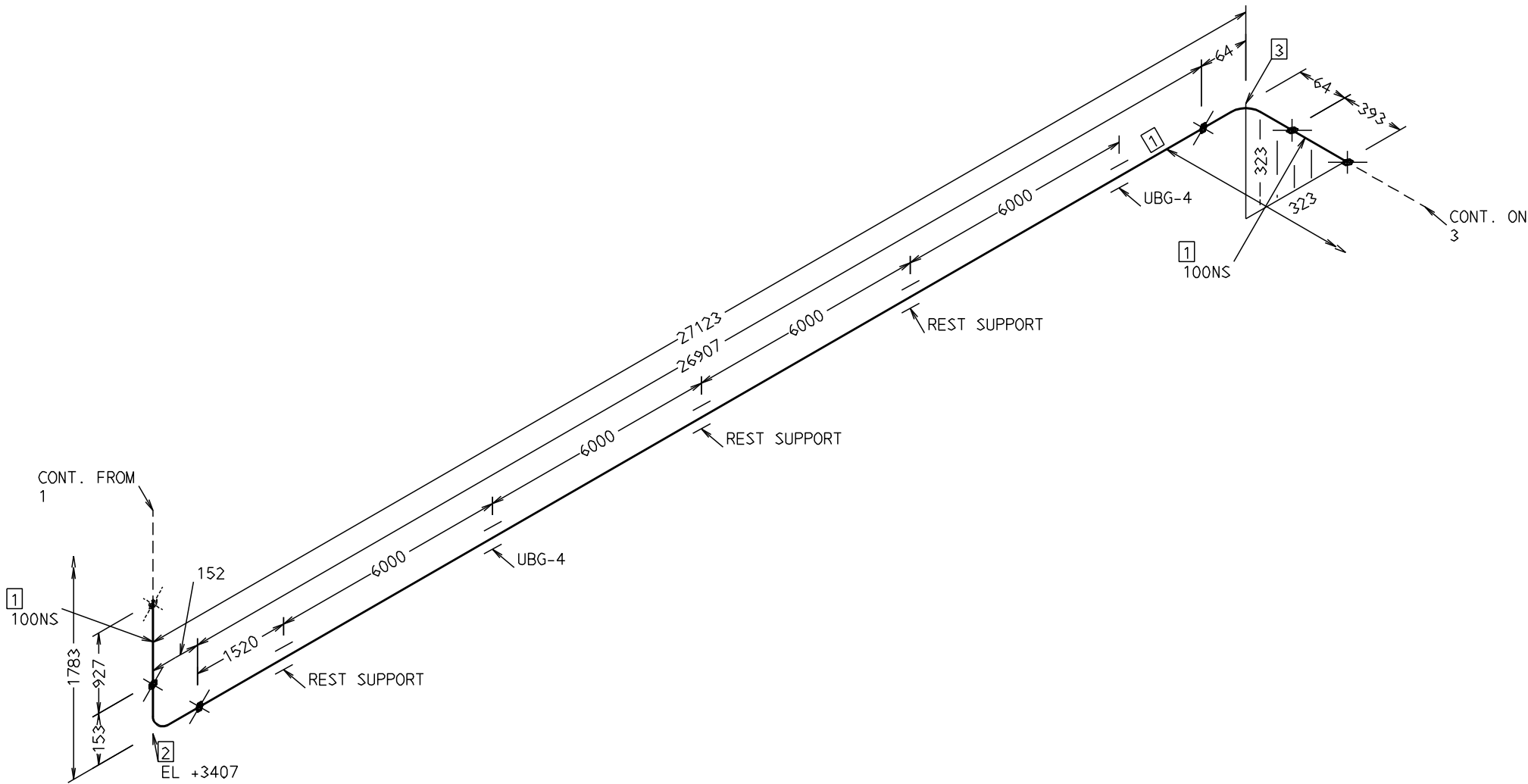
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REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1708-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708					REV.0	



PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	28227(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	
3	ELBO	100	ELBOW 45DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	

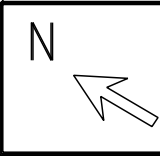


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REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

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ISOMETRIC DWG. FOR LINE NO:							
4" -P-1708-FA6							
INSULATION		DES.TEMP.(°C)		65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)		150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)		30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)		110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708							REV.0



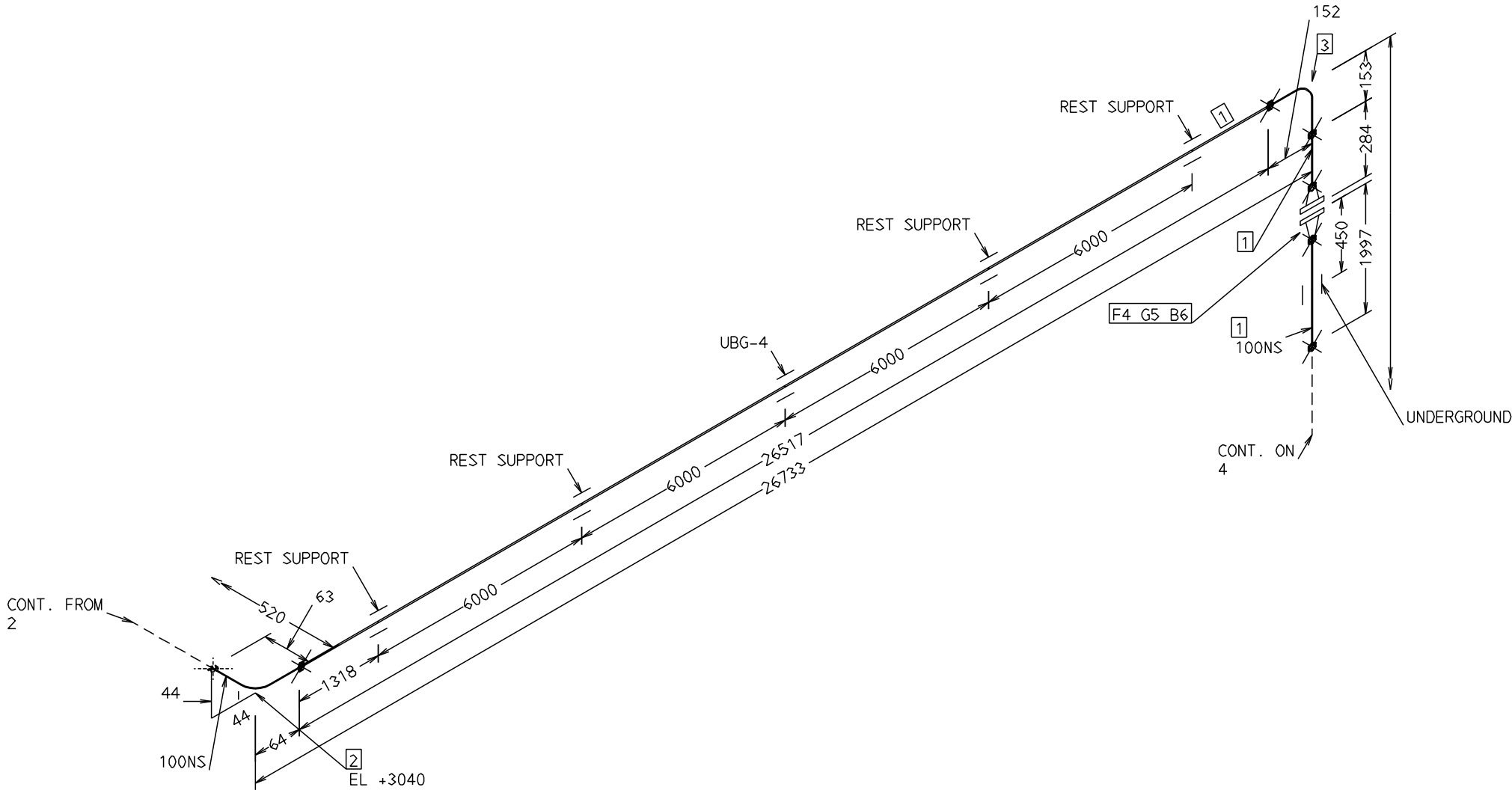
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	28534(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	ELBO	100	ELBOW 45DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	
3	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	
4	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
5	GASK	100	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	1	
6		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	

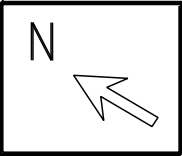
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REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

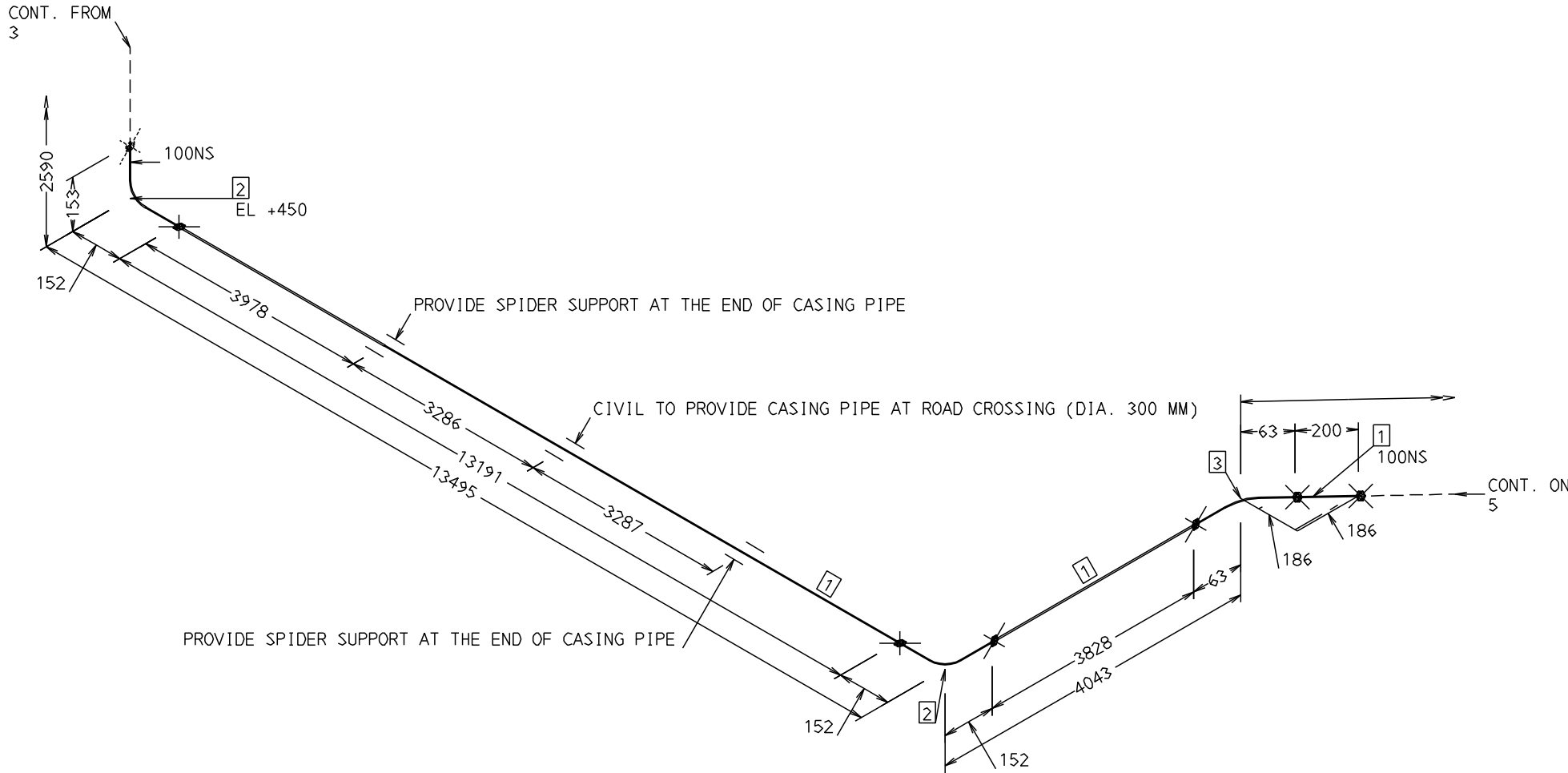
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ISOMETRIC DWG. FOR LINE NO:						
4"-P-1708-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708					REV.0	





PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	17219(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	2	
3	ELBO	100	ELBOW 45DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	

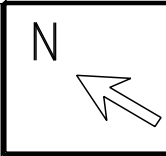


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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1708-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708					REV.0	

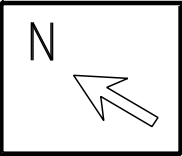
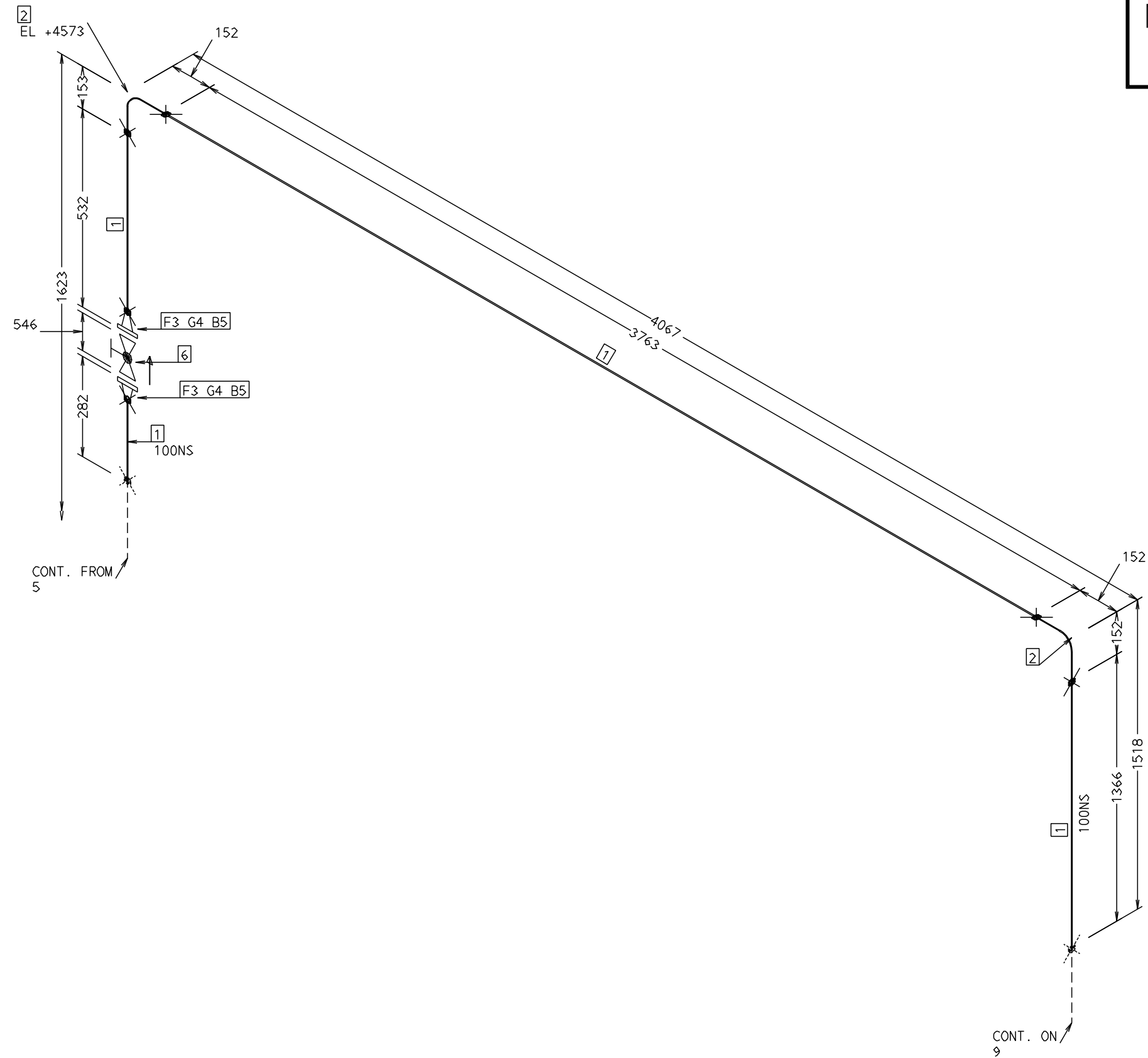


GENERAL NOTES :

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. DIMENSIONS AND ROUTING OF THREADED & SW LINE ARE INDICATIVE ONLY AND SHALL BE CHECKED AT JOBSITE BEFORE ERECTION.
3. WHEREVER FIELD WELDS () ARE INDICATED AN EXCESS OF 305MM (12") SHALL BE PROVIDED.
4. CONTRACTOR SHALL DO SITE STRINGING BEFORE FABRICATION.
5. REFER TABLE 5, FIELD PAINT SYSTEM FOR NORMAL CORROSIVE ENVIRONMENT OF STANDARD SPECIFICATION FOR PAINTING.

SAMPLE COPY

5 OF 11



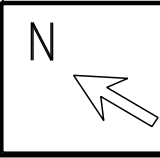
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	5679(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	2	
3	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
4	GASK	100	GASKET OCTAGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	2	
5		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	16	
6	VALV	100	GLOBE VALVE #1500 BS 1873 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	

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 2. DIMENSIONS AND ROUTING OF THREADED & SW LINE ARE INDICATIVE ONLY AND SHALL BE CHECKED AT JOBSITE BEFORE ERECTION.
 3. WHEREVER FIELD WELDS (✱) ARE INDICATED AN EXCESS OF 305MM (12") SHALL BE PROVIDED.
 4. CONTRACTOR SHALL DO SITE STRINGING BEFORE FABRICATION.
 5. REFER TABLE 5, FIELD PAINT SYSTEM FOR NORMAL CORROSIVE ENVIRONMENT OF STANDARD SPECIFICATION FOR PAINTING.

0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1708-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708					REV.0	



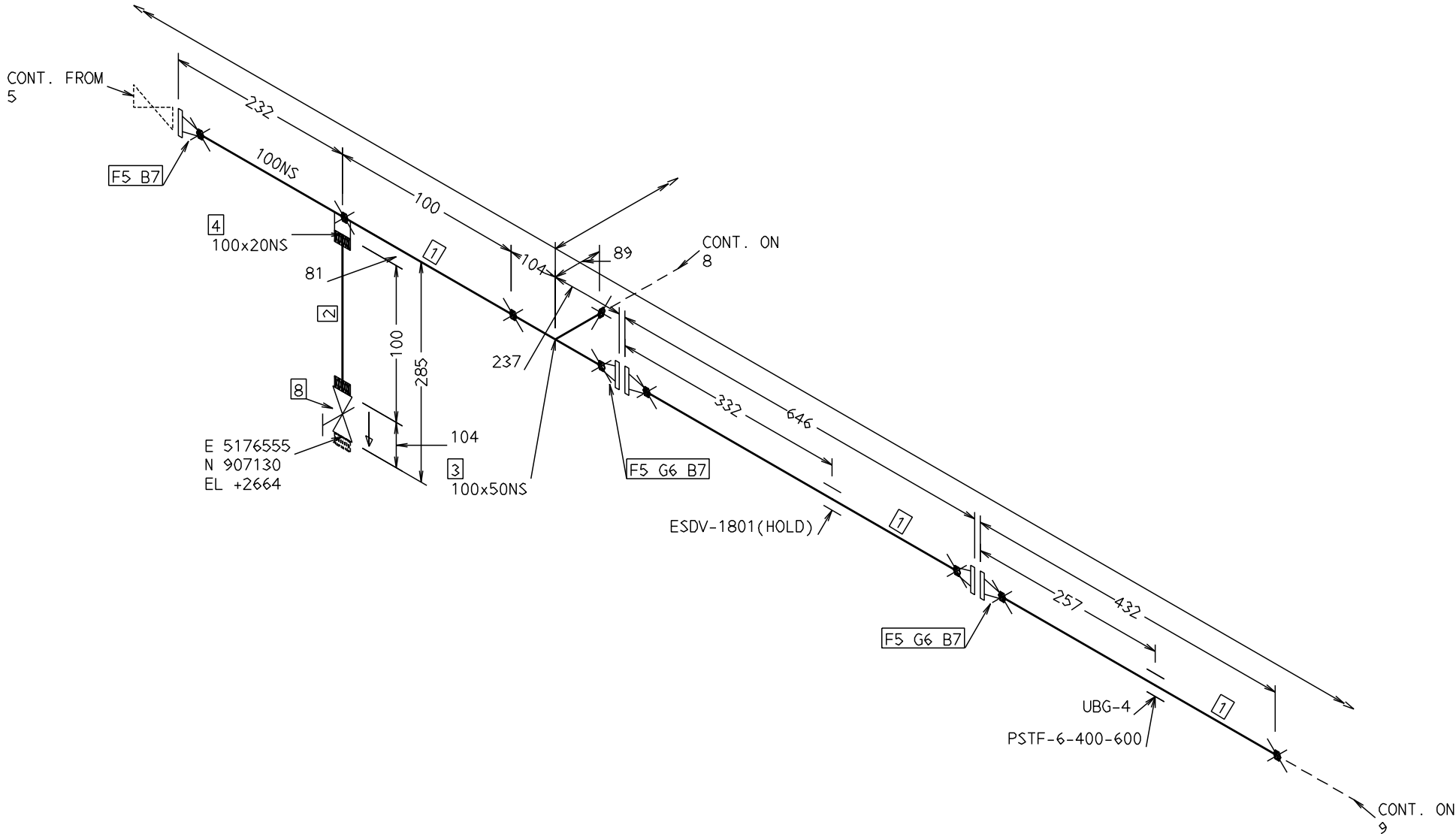
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	882(MM)	
2	TUBI	20	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	100(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
3	TEE	100 x 50	TEE REDUCING BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
4	TEE	100 x 20	HALF COUPLING ASME B16.11 #6000 SOCKET END ASTM A105	1	
5	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	3	
6	GASK	100	GASKET OCTAGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	2	
7		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	24	
8	VALV	20	GATE VALVE #1500 API 602 / ASME B16.34 SOCKET END TRIM 13% CR ASTM A105	1	

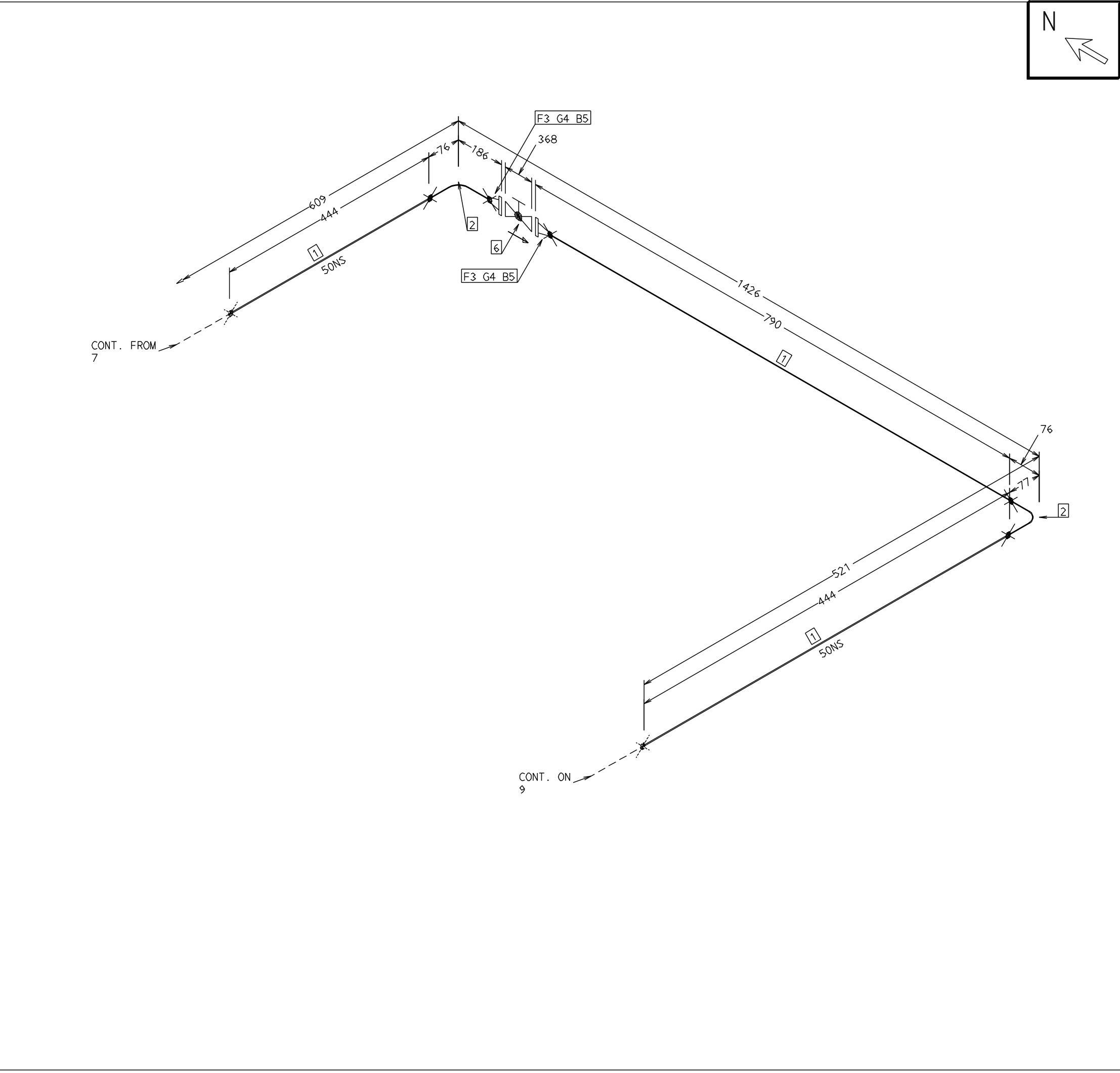
- GENERAL NOTES :
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 2. DIMENSIONS AND ROUTING OF THREADED & SW LINE ARE INDICATIVE ONLY AND SHALL BE CHECKED AT JOBSITE BEFORE ERECTION.
 3. WHEREVER FIELD WELDS (>*<) ARE INDICATED AN EXCESS OF 305MM (12") SHALL BE PROVIDED.
 4. CONTRACTOR SHALL DO SITE STRINGING BEFORE FABRICATION.
 5. REFER TABLE 5, FIELD PAINT SYSTEM FOR NORMAL CORROSIVE ENVIRONMENT OF STANDARD SPECIFICATION FOR PAINTING.

0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

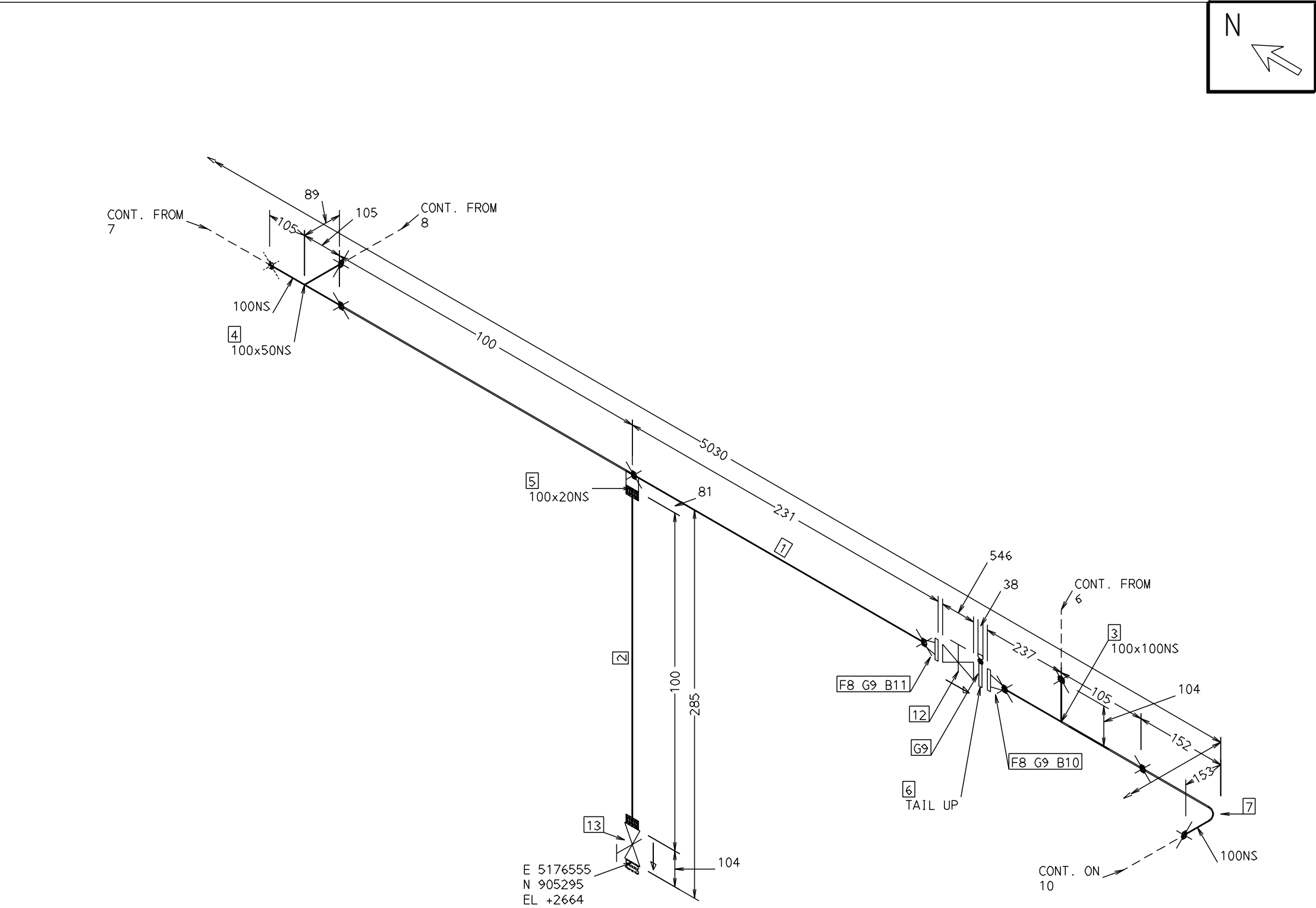
SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1708-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708					REV.0	





PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	50	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	1568(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	ELBO	50	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	2	
3	FLAN	50	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
4	GASK	50	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	2	
5		7/8 INS	150 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	16	
6	VALV	50	GLOBE VALVE #1500 BS 1873 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	

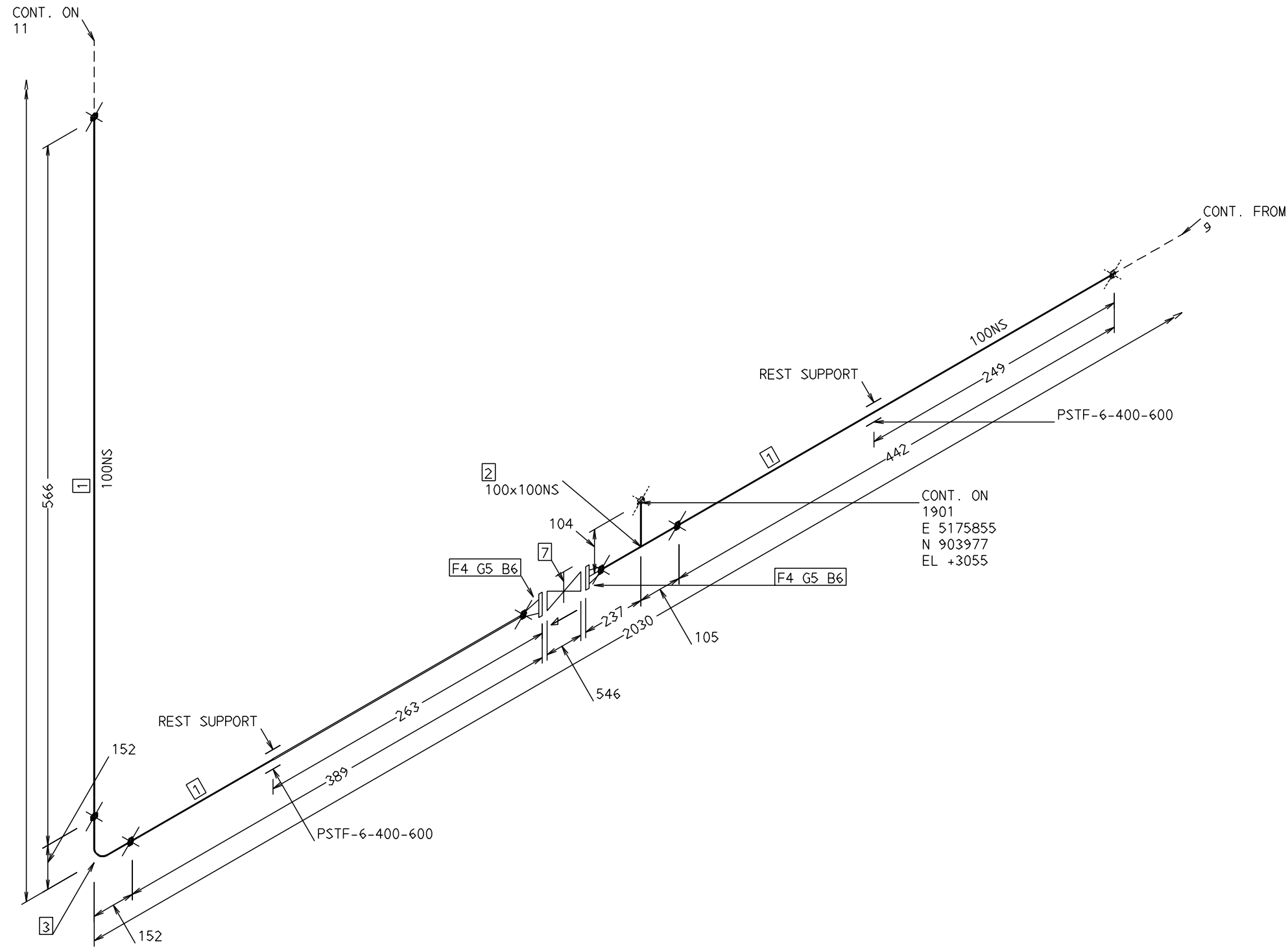
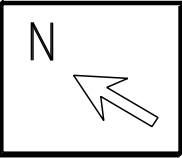


PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	200(MM)	
2	TUBI	20	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	100(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
3	TEE	100 x 100	TEE EQUAL BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
4	TEE	100 x 50	TEE REDUCING BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
5	TEE	100 x 20	HALF COUPLING ASME B16.11 #6000 SOCKET END ASTM A105	1	
6	PCOM	100	SPACER & BLANK 1500# RTJ ASME B16.48 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A516 GR.70	1	
7	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	
8	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
9	GASK	100	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	3	
10		1.1/4 INS	245 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	
11		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	
12	VALV	100	GATE VALVE #1500 API 600 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	
13	VALV	20	GATE VALVE #1500 API 602 / ASME B 16.34 SOCKET END TRIM 13% CR ASTM A105	1	

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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY						
ISOMETRIC DWG. FOR LINE NO: 4" -P-1708-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708						REV.0



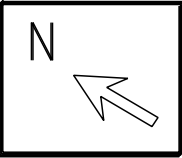
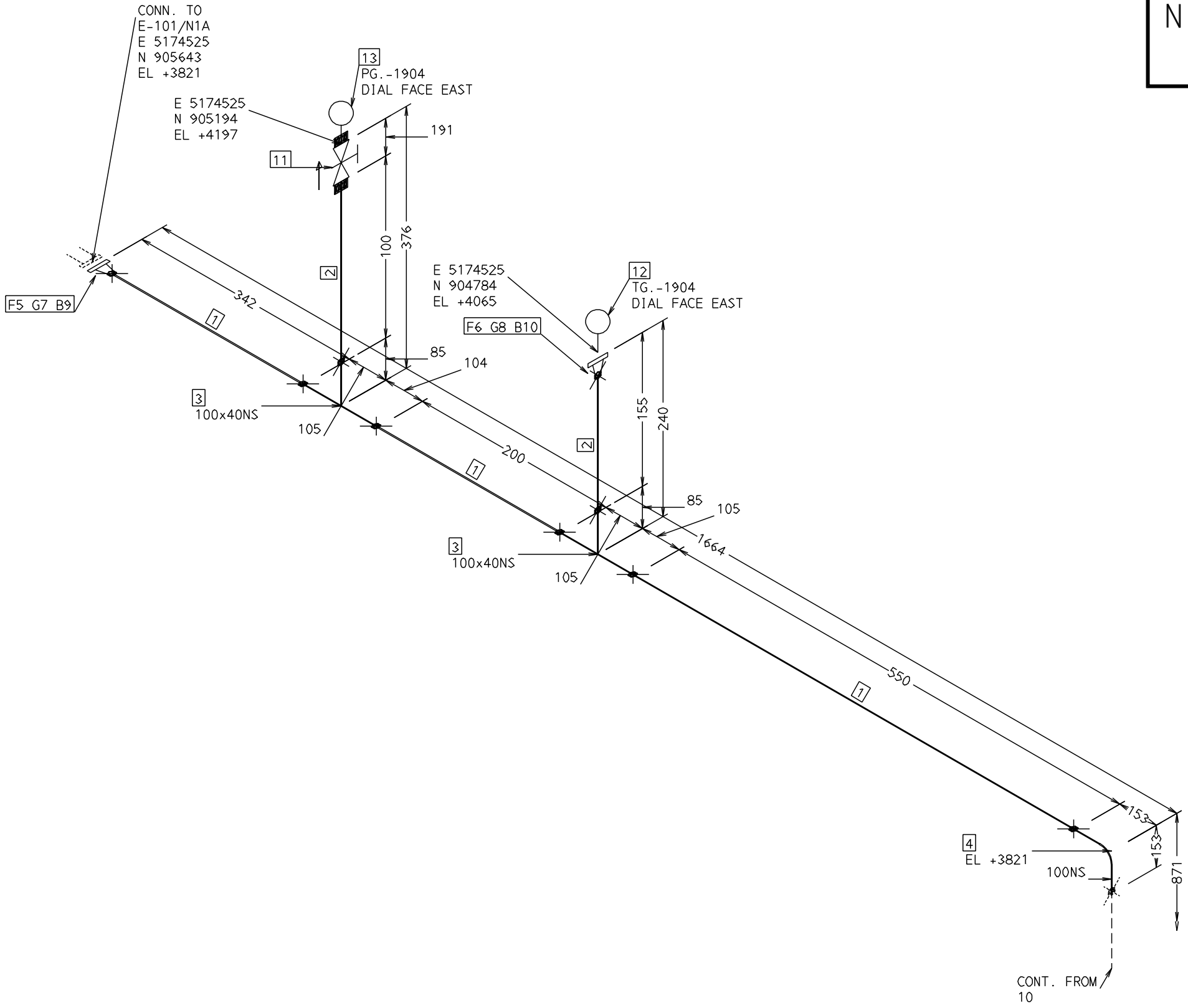
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	1265(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	TEE	100 x 100	TEE EQUAL BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
3	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	
4	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
5	GASK	100	GASKET OCTAGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	2	
6		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	16	
7	VALV	100	GATE VALVE #1500 API 600 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	

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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1708-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708						REV.0



PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	960(MM)	
2	TUBI	40	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	166(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
3	TEE	100 x 40	TEE REDUCING BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	2	
4	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	
5	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
6	FLAN	40	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
7	GASK	100	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	1	
8	GASK	40	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	1	
9		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	
10		1 INS	145 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	4	
11	VALV	40	GATE VALVE #1500 API 602 / ASME B 16.34 SOCKET END TRIM 13% CR ASTM A105	1	
INSTRUMENTS					
12	INST	40	TEMPERATURE INDICATOR TG.-1904	1	
13	INST	40	PRESSURE INDICATOR PG.-1904	1	

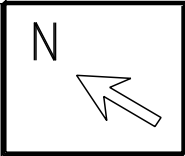
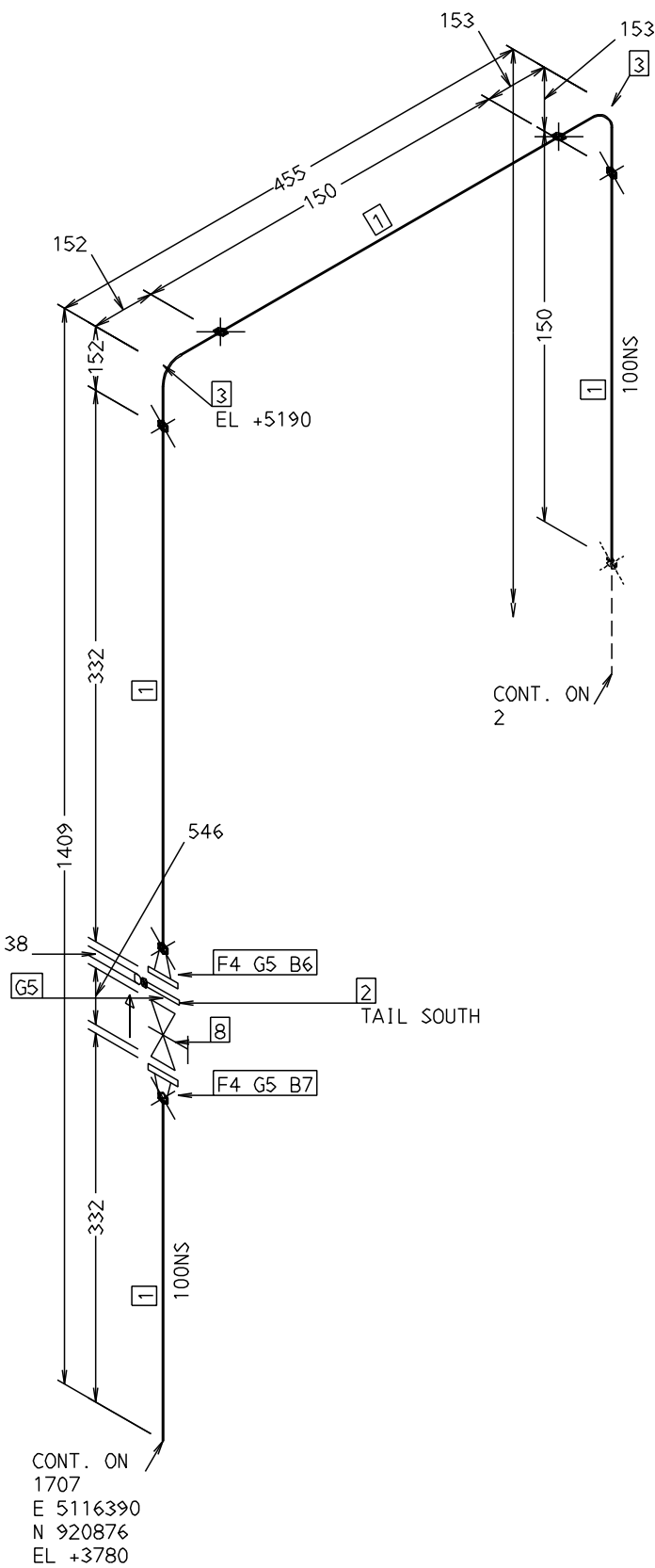
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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:
4" -P-1708-FA6

INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1708					REV.0	



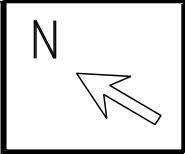
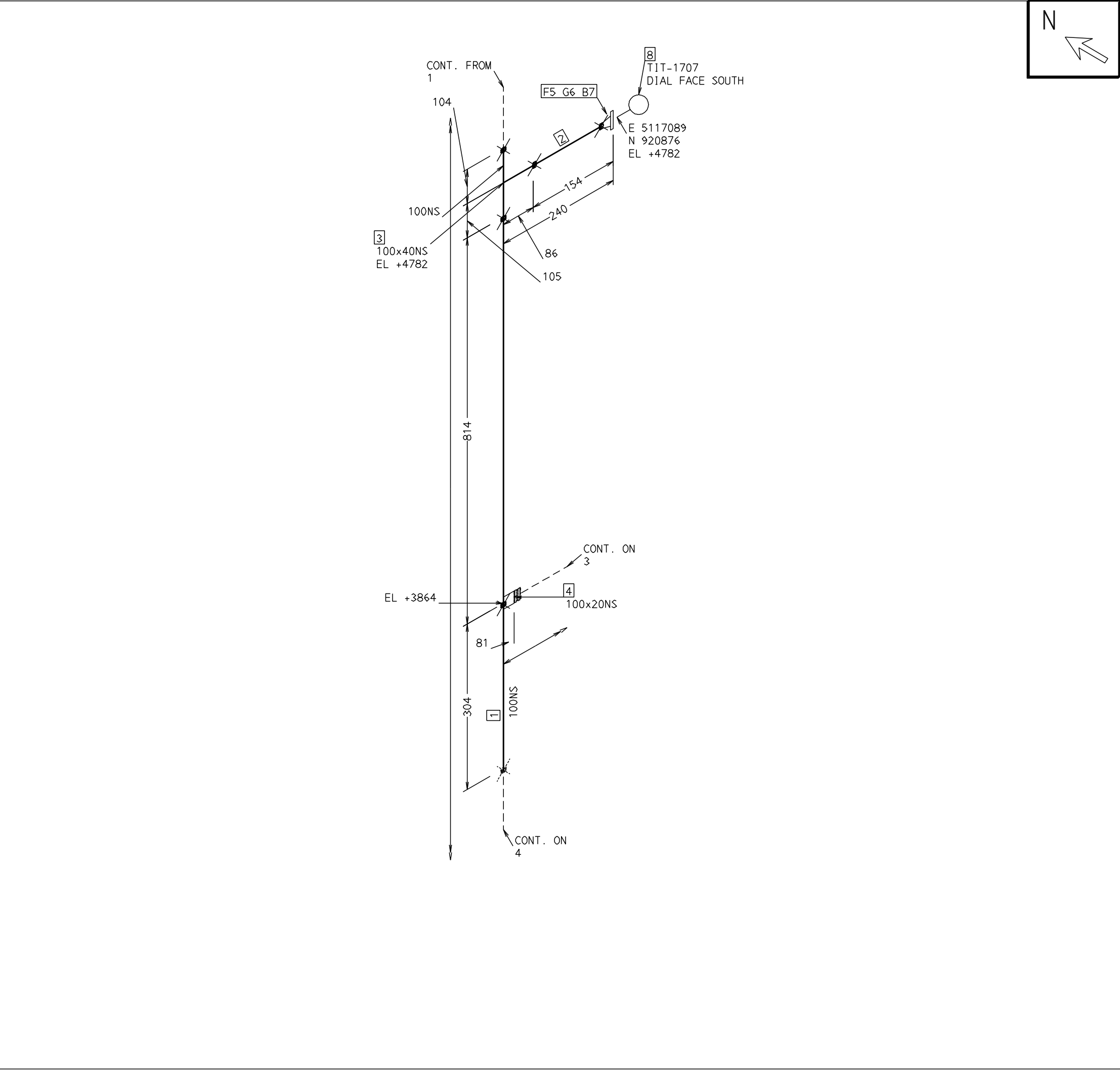
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	700(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	PCOM	100	SPACER & BLANK 1500# RTJ ASME B16.48 (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A516 GR.70	1	
3	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	2	
4	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
5	GASK	100	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	3	
6		1.1/4 INS	245 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	
7		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	
8	VALV	100	GATE VALVE #1500 API 600 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	

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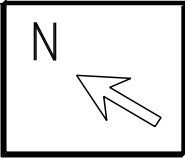
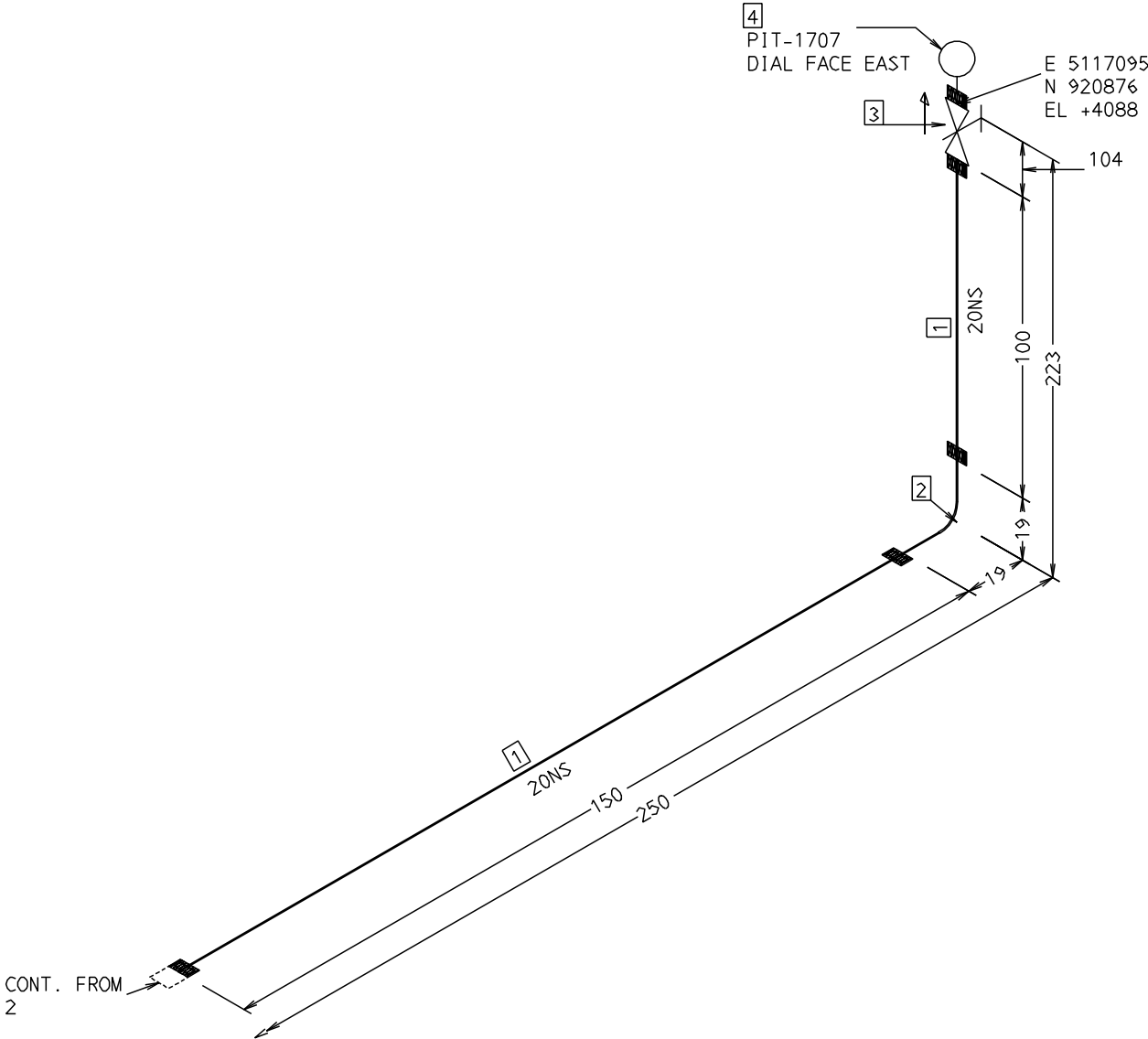
0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1709-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1709						REV.0



PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS	
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	1118(MM)		
2	TUBI	40	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	65(MM)		
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS	
3	TEE	100 x 40	TEE REDUCING BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1		
4	TEE	100 x 20	HALF COUPLING ASME B16.11 #6000 SOCKET END ASTM A105	1		
5	FLAN	40	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1		
6	GASK	40	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	1		
7		1 INS	145 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	4		
			<u>INSTRUMENTS</u>			
8	INST	40	TEMPERATURE INDICATOR TIT-1707	1		
GENERAL NOTES :						
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0	APPROVED FOR CONSTRUCTION		19/07/17	ASU	PVP PAK	
REV	DESCRIPTION		DATE	DRAWN	CHK APPR	
SAMPLE COPY						
ISOMETRIC DWG. FOR LINE NO: 4"-P-1709-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)225	
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1709					REV.0	



PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	20	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	250(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	ELBO	20	ELBOW 90DEG ASME B16.11 #6000 SOCKET END ASTM A105	1	
3	VALV	20	GATE VALVE #1500 API 602 / ASME B 16.34 SOCKET END TRIM 13% CR ASTM A105	1	
4	INST	20	INSTRUMENTS PRESSURE INDICATOR PIT-1707	1	

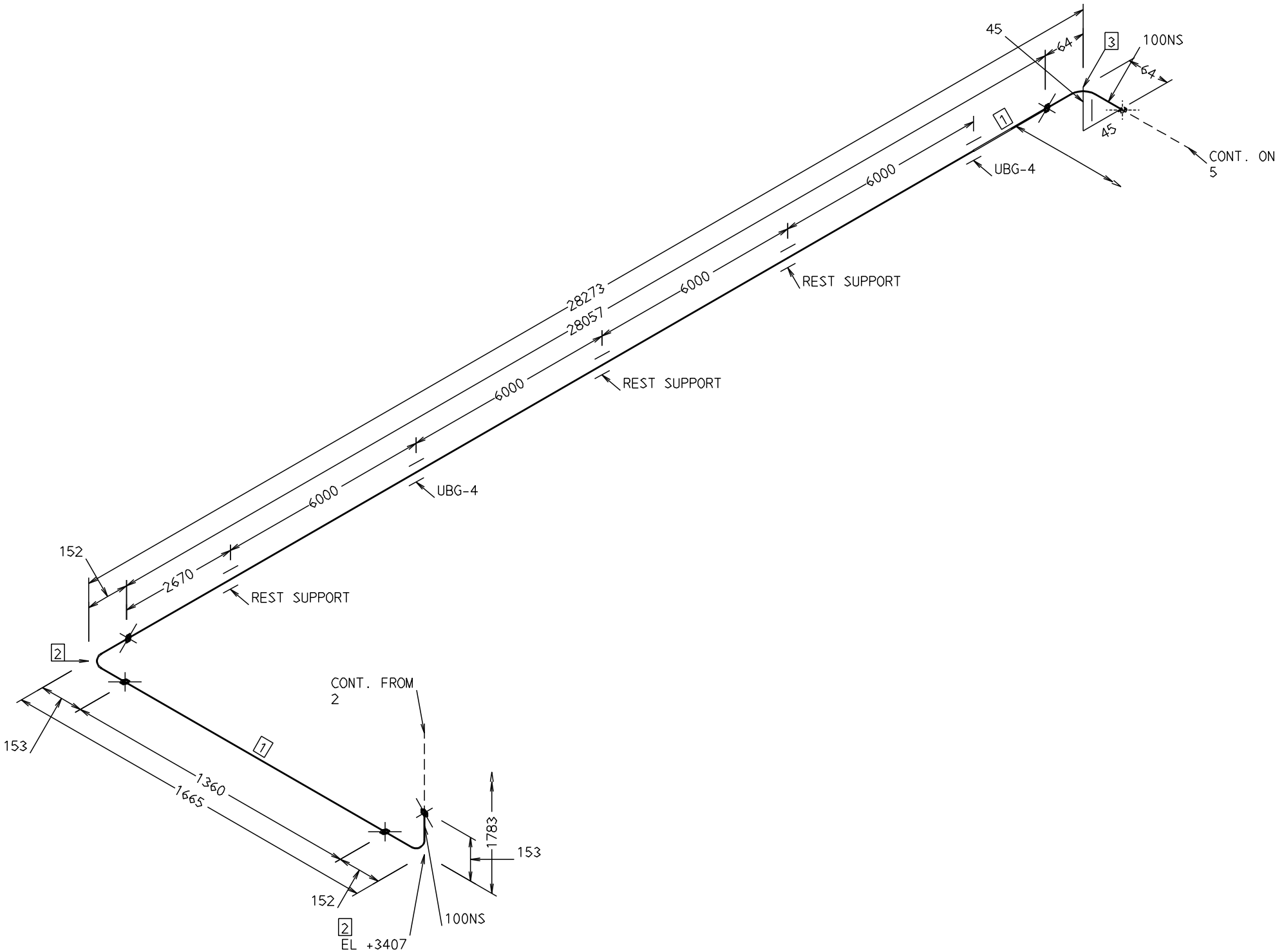
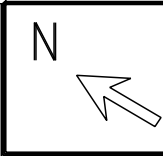
- GENERAL NOTES :
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. DIMENSIONS AND ROUTING OF THREADED & SW LINE ARE INDICATIVE ONLY AND SHALL BE CHECKED AT JOBSITE BEFORE ERECTION.
 3. WHEREVER FIELD WELDS ($\times$) ARE INDICATED AN EXCESS OF 305MM (12") SHALL BE PROVIDED.
 4. CONTRACTOR SHALL DO SITE STRINGING BEFORE FABRICATION.
 5. REFER TABLE 5, FIELD PAINT SYSTEM FOR NORMAL CORROSIVE ENVIRONMENT OF STANDARD SPECIFICATION FOR PAINTING.

0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:
4"-P-1709-FA6

INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1709					REV.0	



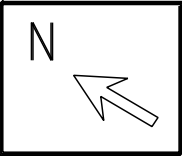
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	29417(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	2	
3	ELBO	100	ELBOW 45DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	

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 3. WHEREVER FIELD WELDS ($\times$) ARE INDICATED AN EXCESS OF 305MM (12") SHALL BE PROVIDED.
 4. CONTRACTOR SHALL DO SITE STRINGING BEFORE FABRICATION.
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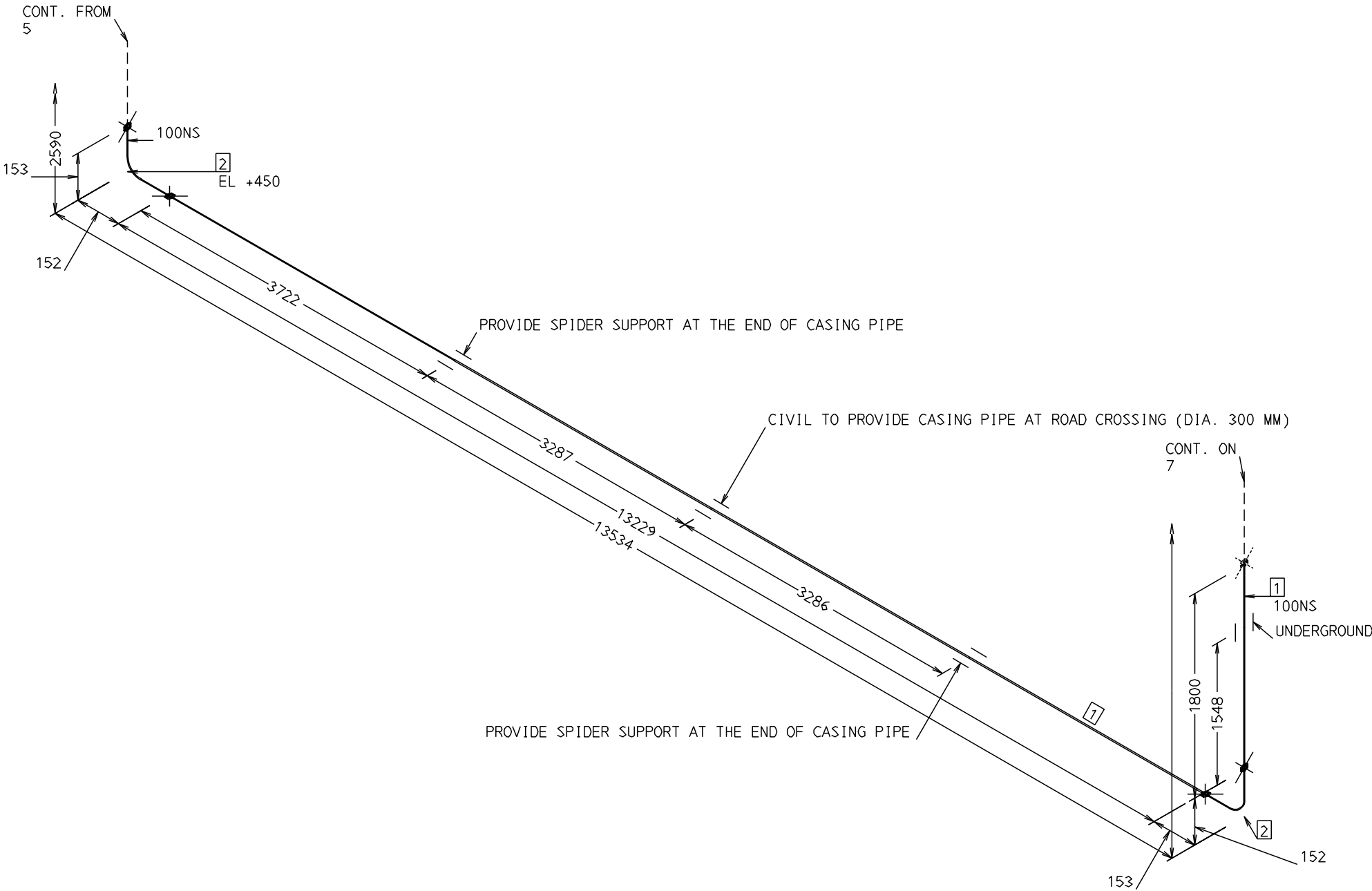
0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1709-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1709						REV.0



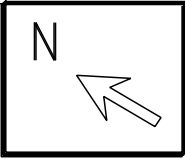
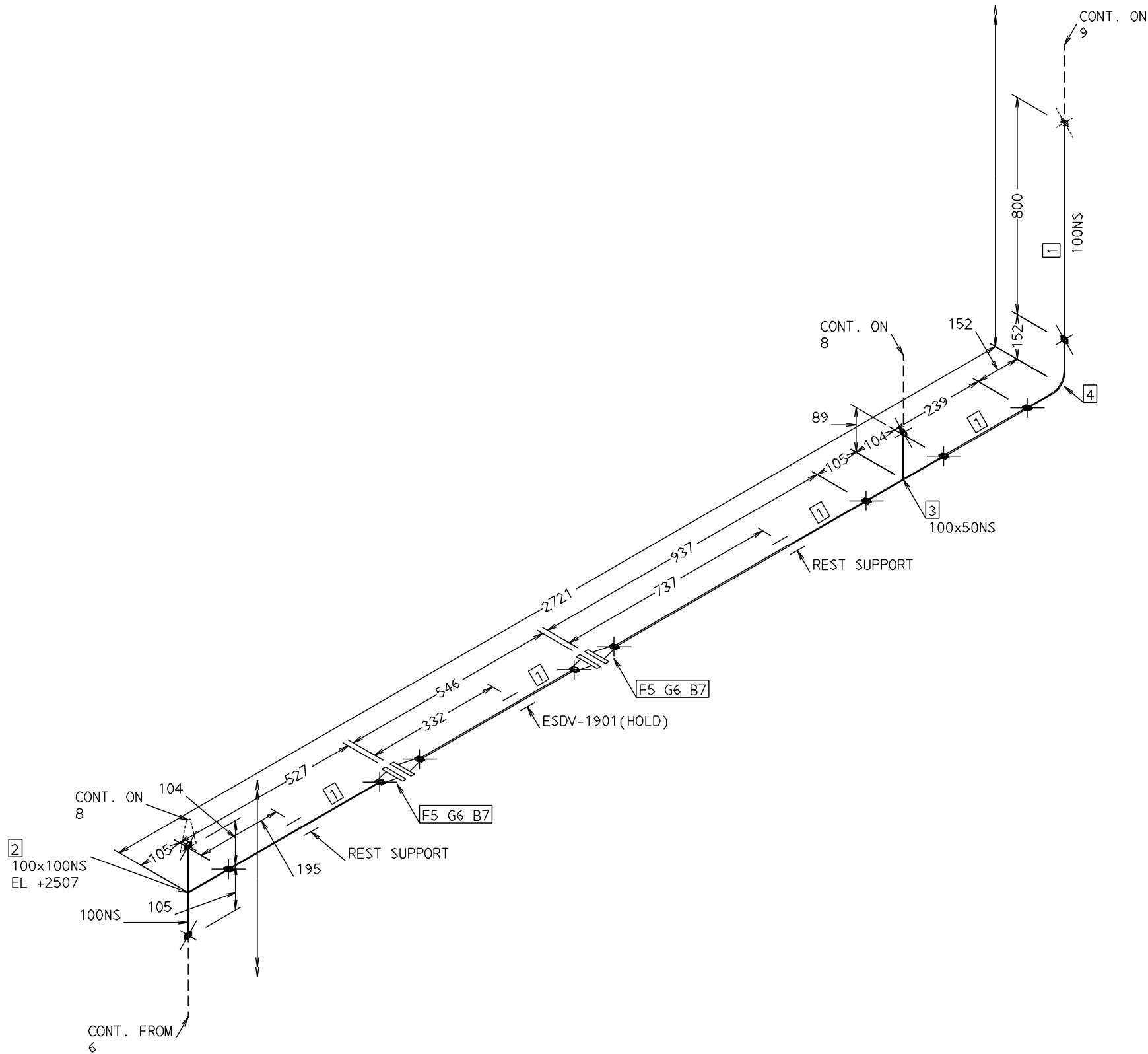
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	15029(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	2	



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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY						
ISOMETRIC DWG. FOR LINE NO: 4"-P-1709-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGp-SBK-PP-DW-OPI-I- 1709						REV.0



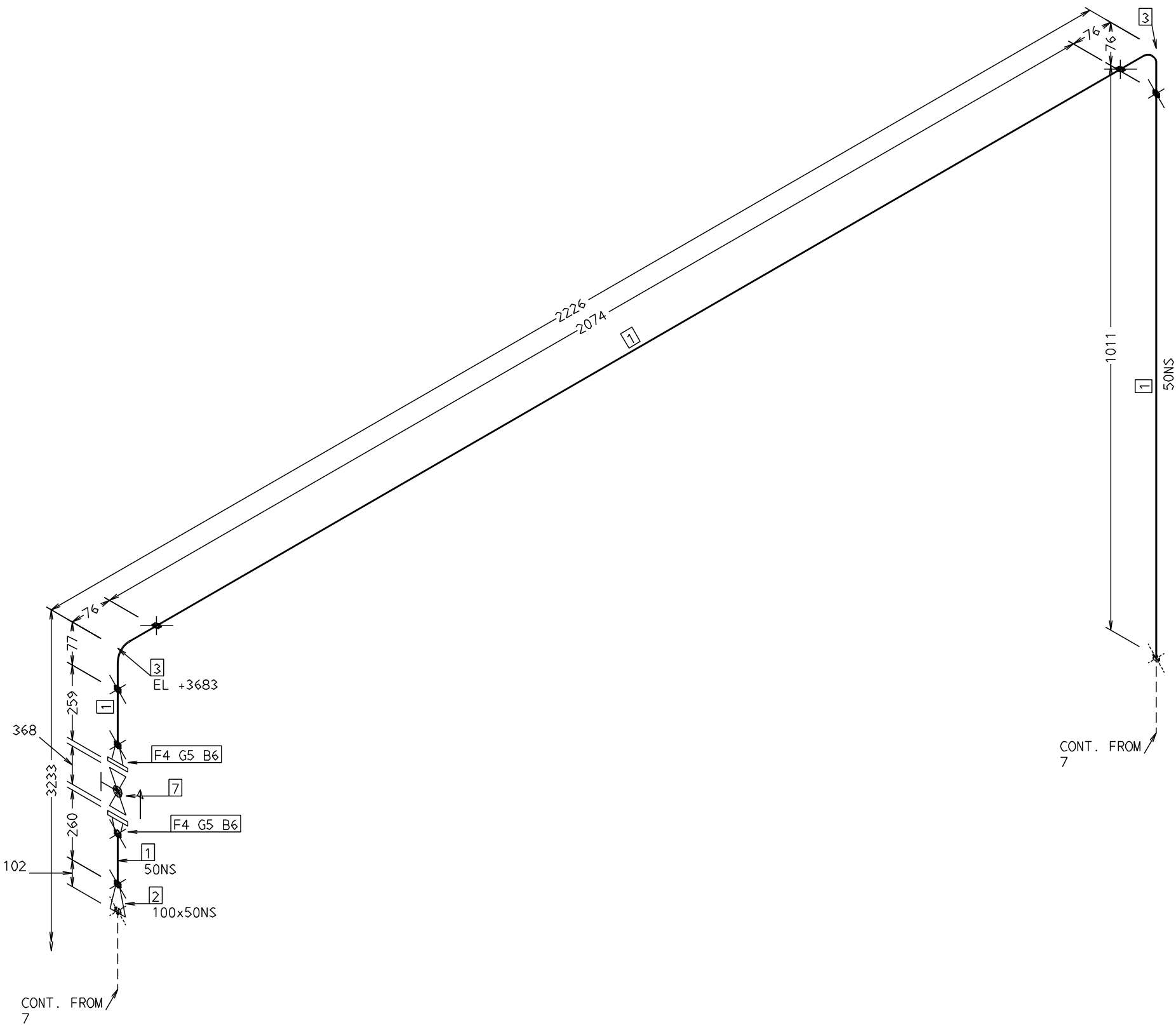
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	2521(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	TEE	100 x 100	TEE EQUAL BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
3	TEE	100 x 50	TEE REDUCING BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
4	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	
5	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
6	GASK	100	GASKET OCTAGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	2	
7		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	16	

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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1709-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1709					REV.0	



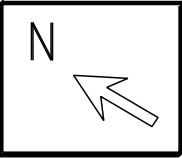
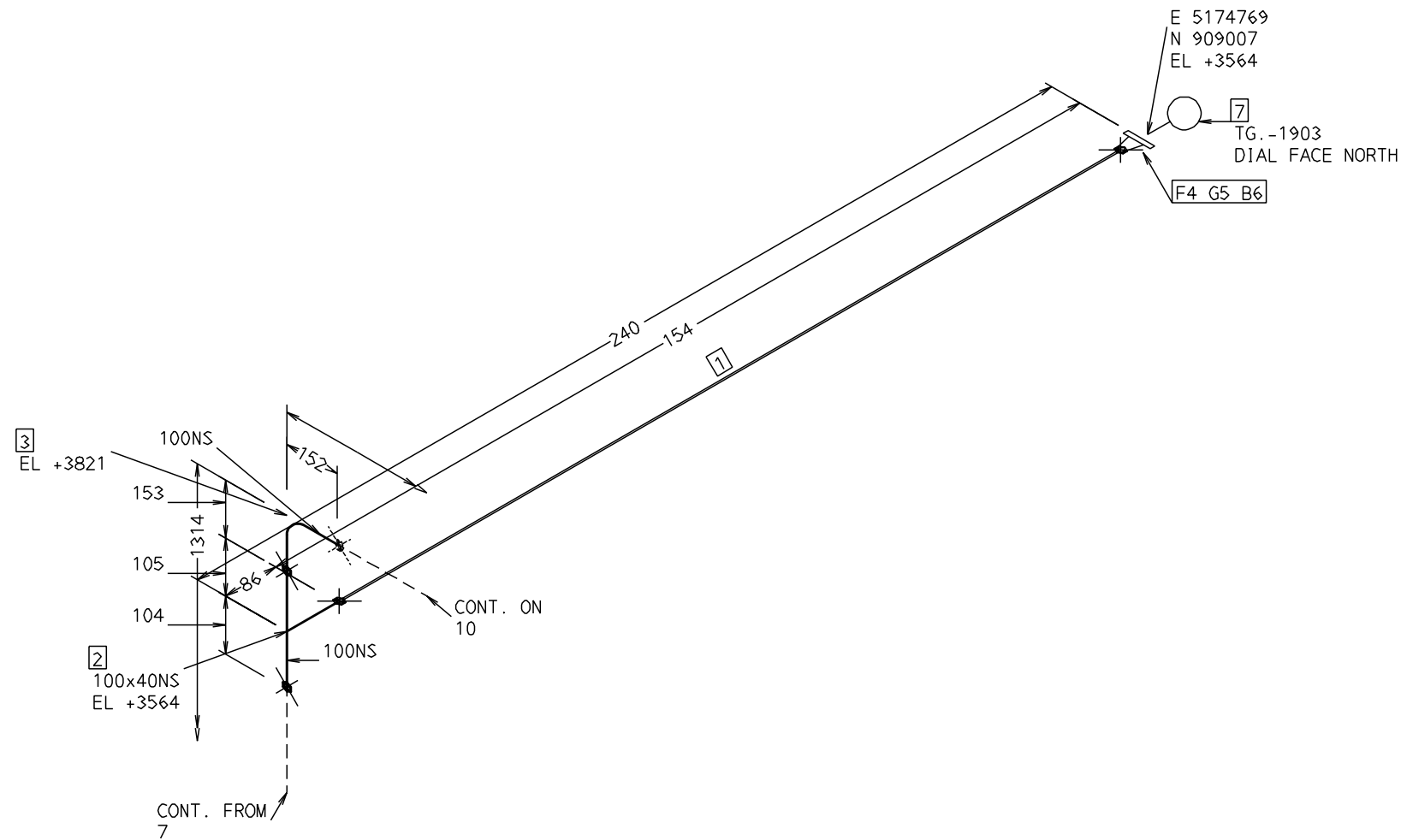
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	50	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	3385(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	REDU	100 x 50	REDUCER CONC BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
3	ELBO	50	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	2	
4	FLAN	50	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	2	
5	GASK	50	GASKET OCTAGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	2	
6		7/8 INS	150 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	16	
7	VALV	50	GLOBE VALVE #1500 BS 1873 / ASME B 16.34 FLANGED END RTJ TRIM 13% CR ASTM A216 GR.WCB	1	

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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:							
4" -P-1709-FA6							
INSULATION		DES.TEMP.(°C)		65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)		150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)		30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)		110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1709							REV.0



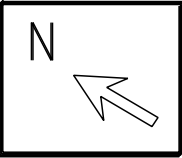
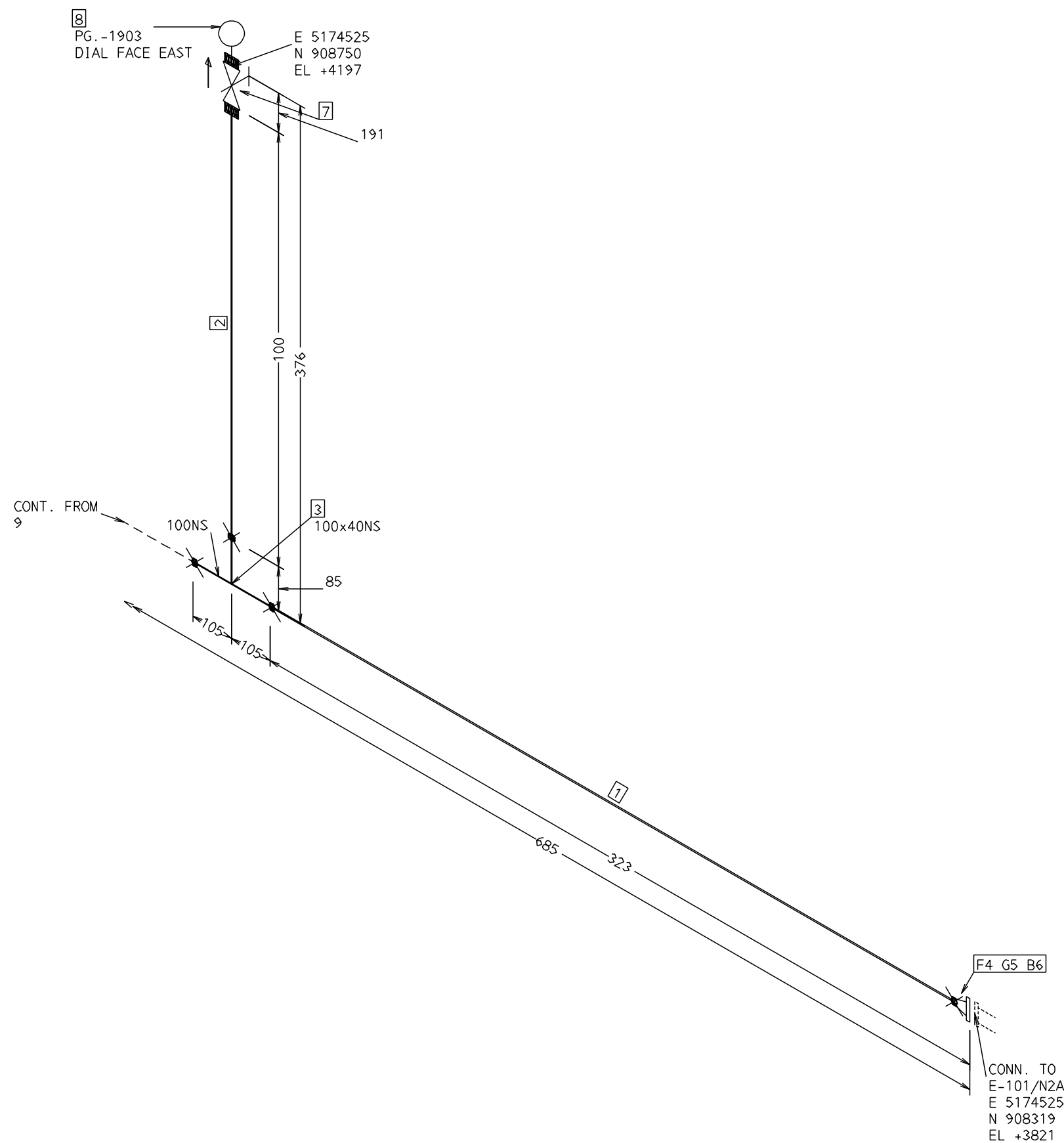
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	40	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	65(MM)	
PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
2	TEE	100 x 40	TEE REDUCING BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
3	ELBO	100	ELBOW 90DEG ASME B16.9 BE SMLS SCH XXS ASTM A234 GR.WPB	1	
4	FLAN	40	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
5	GASK	40	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	1	
6		1 INS	145 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	4	
INSTRUMENTS					
7	INST	40	TEMPERATURE INDICATOR TG.-1903	1	

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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1709-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1709					REV.0	



PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
1	TUBI	100	ASME B36.10 BE SEAMLESS SCH XXS ASTM A106 GR.B	191(MM)	
2	TUBI	40	ASME B36.10 PE SEAMLESS SCH XXS ASTM A106 GR.B	100(MM)	

PT NO		N.S. ((MM))	DESCRIPTION	QTY	REMARKS
3	TEE	100 x 40	TEE REDUCING BW SMLS ASME B16.9 SCHXXSxSCHXXS ASTM A234 GR.WPB	1	
4	FLAN	100	FLANGE WN 1500# RTJ ASME B16.5 SCH XXS (SUITABLE FOR OCTAGONAL TYPE RING GASKET) ASTM A105	1	
5	GASK	100	GASKET OCTOGONAL RING JOINT ASME B16.20 1500# RTJ ASTM 316 SS	1	
6		1.1/4 INS	200 STUD BOLT 1500# ASME B18.2.1/ASME B18.2.2 FULL LENGTH THREADED STUD & HEAVY BOLTS A193 Gr B7/A194 Gr 2H	8	
7	VALV	40	GATE VALVE #1500 API 602 / ASME B 16.34 SOCKET END TRIM 13% CR ASTM A105	1	
INSTRUMENTS					
8	INST	40	PRESSURE INDICATOR PG.-1903	1	

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0	APPROVED FOR CONSTRUCTION	19/07/17	ASU	PVP	PAK
REV	DESCRIPTION	DATE	DRAWN	CHK	APPR

SAMPLE COPY

ISOMETRIC DWG. FOR LINE NO:						
4"-P-1709-FA6						
INSULATION		DES.TEMP.(°C)	65	TEST	HYDRO(Kg/cm²)	225
TYPE	-	DES.PRES.(Kg/cm²)	150		PNEU(Kg/cm²)	-
THK. (MM)	-	OPE.TEMP.(°C)	30		RADIOGRAPHY	50 %
PAINT	NOTE 5	OPE.PRES.(Kg/cm²)	110		PWHT	-
DRAWING NO.: BKGP-SBK-PP-DW-OPI-I- 1709						REV.0