



NET4GAS, s.r.o

CAPACITY EXTENSION OF BTS HORA SV. KATEŘINY

Tie-in Schedule (BTS HSK)

30.01.2018

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REVISION HISTORY

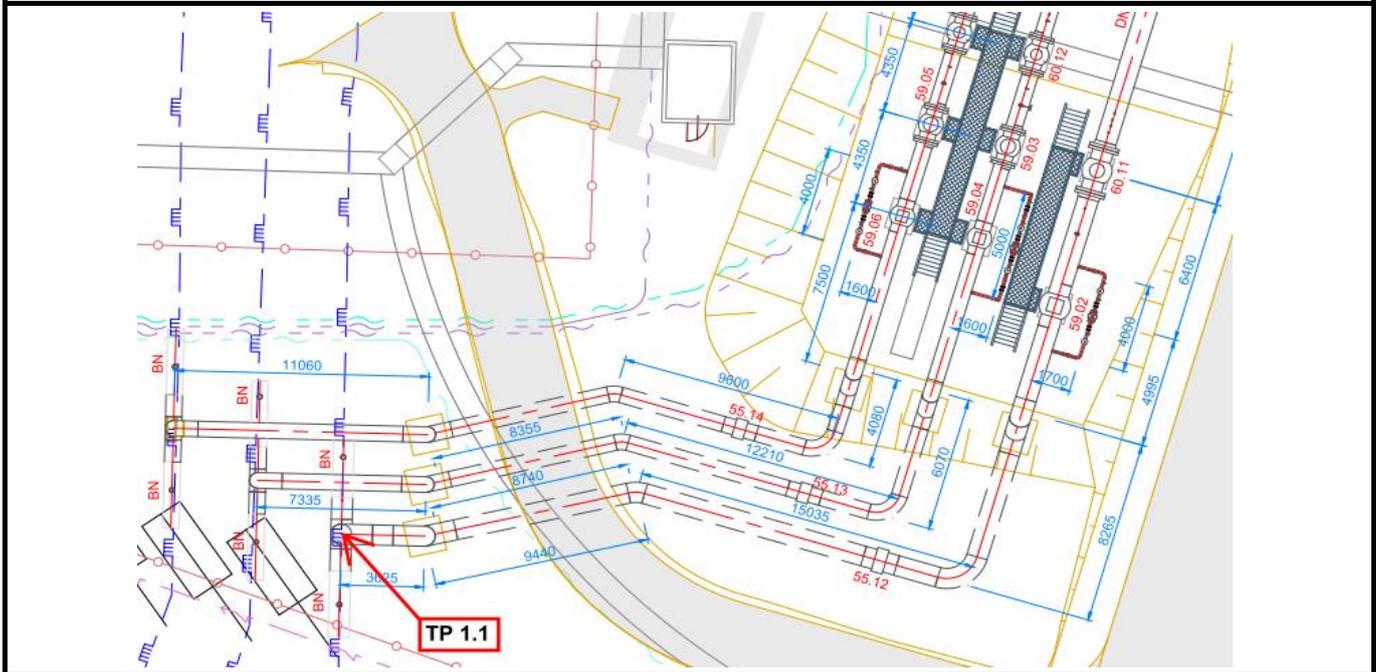
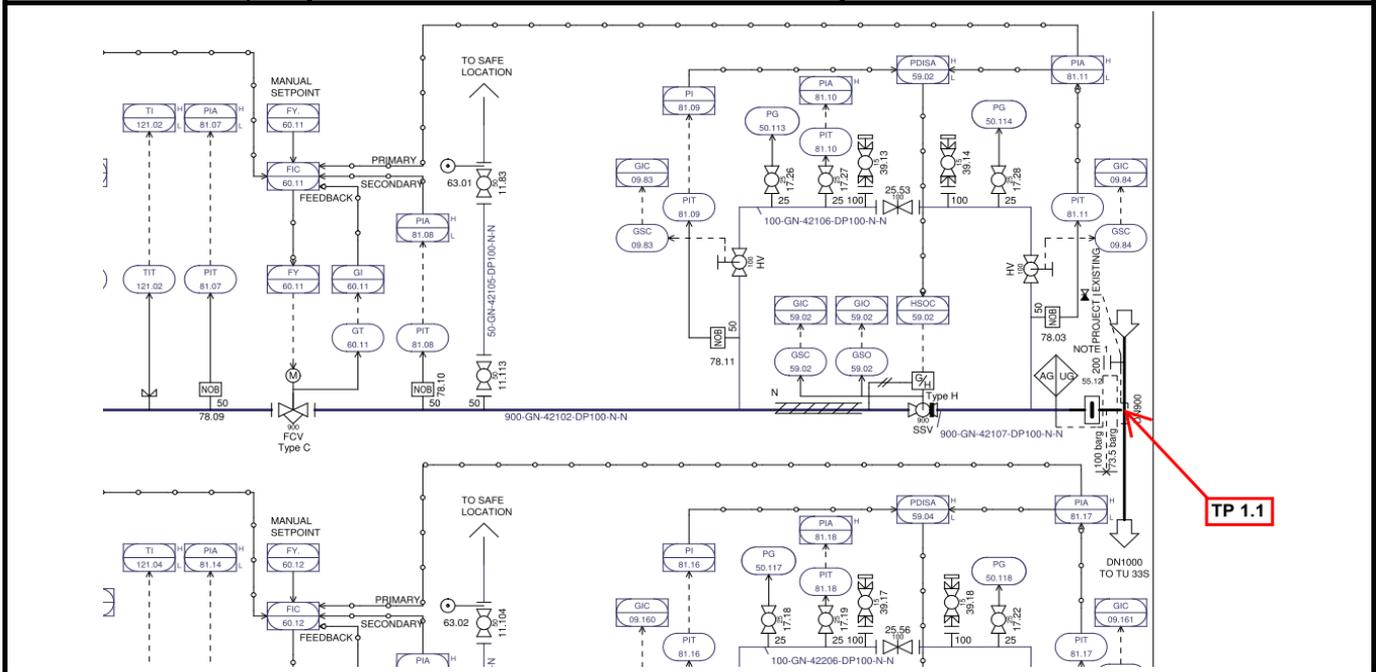
Rev.	Date	Issue, Purpose	Prepared	Checked	Approved
000	30.01.2018	Approved	Mathes	Balatinec	Schorling
B01	08.01.2018	Issue for Review	Mathes	Balatinec	Schorling
A01	20.12.2017	Issue for IDC	Mathes	Balatinec	Schorling

Item	Location / Tie-in Point Number	Drawing No.	P&ID	New Pipe					Type of Connection	Existing Facilities					Remarks
				DN	OD [mm]	Wall Thickness (Note 1) [mm]	Material	DP [barg]		DN	OD (Note 2) [mm]	Wall Thickness (Note 2) [mm]	Material	DP [barg]	
1.	PS002 Hora Sv. Kateřiny														
1.1	TP 1.1	C4G-HSKA-ILF-PS02B-STR-VYK-401	C4G-HSKA-ILF-PS02B-STR-DIA-112	900	914.0	20.0	L415NE	100.0	T-piece DN 900/DN 900	900	924.0	13.82	L415MB	73.5	Underground Connection
1.2	TP 1.2	C4G-HSKA-ILF-PS002-STR-VYK-402	C4G-HSKA-ILF-PS02B-STR-DIA-121	900	920.0	14.1	L415NE	73.5	Pipe to Pipe DN 900	900	931.0	14.14	TBD	73.5	Underground Connection
1.3	TP 1.3	C4G-HSKA-ILF-PS002-STR-VYK-402	C4G-HSKA-ILF-PS02B-STR-DIA-121	900	920.0	14.1	L415NE	73.5	Pipe to Pipe DN 900	900	931.0	14.51	TBD	73.5	Underground Connection
1.4	TP 1.4	C4G-HSKA-ILF-PS002-STR-VYK-402	C4G-HSKA-ILF-PS02B-STR-DIA-121	900	920.0	14.1	L415NE	73.5	Pipe to Pipe DN 900	900	932.0	14.13	TBD	73.5	Underground Connection
1.5	TP 1.5	C4G-HSKA-ILF-PS002-STR-VYK-402	C4G-HSKA-ILF-PS02B-STR-DIA-121	900	920.0	14.1	L415NE	73.5	Pipe to Pipe DN 900	900	929.0	14.82	TBD	73.5	Underground Connection
1.6	TP 1.6	C4G-HSKA-ILF-PS02B-STR-VYK-401	C4G-HSKA-ILF-PS02B-STR-DIA-112	700	711.0	17.5	L415NE	100.0	T-piece DN 700/DN 700	700	728.0	10.86	L360MB	63.0	Underground Connection
1.7	TP 1.7	C4G-HSKA-ILF-PS02B-STR-VYK-401	C4G-HSKA-ILF-PS02B-STR-DIA-112	700	711.0	17.5	L415NE	100.0	T-piece DN 700/DN 700	700	726.0	11.07	L360MB	63.0	Underground Connection
1.8	TP 1.8	C4G-HSKA-ILF-PS002-STR-VYK-402	C4G-HSKA-ILF-PS02B-STR-DIA-121	1000	1020.0	13.5	L485ME	73.5	Pipe to Pipe DN 1000	1000	1031.0	11.72	TBD	63.0	Underground Connection

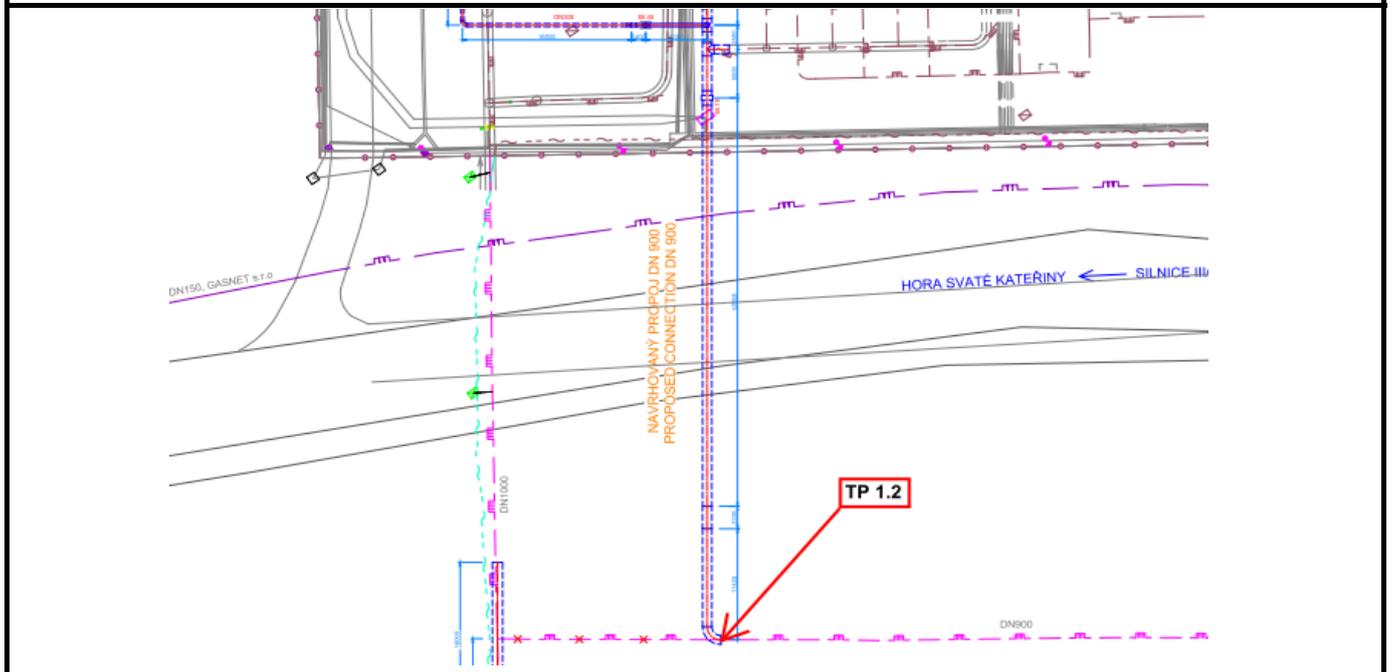
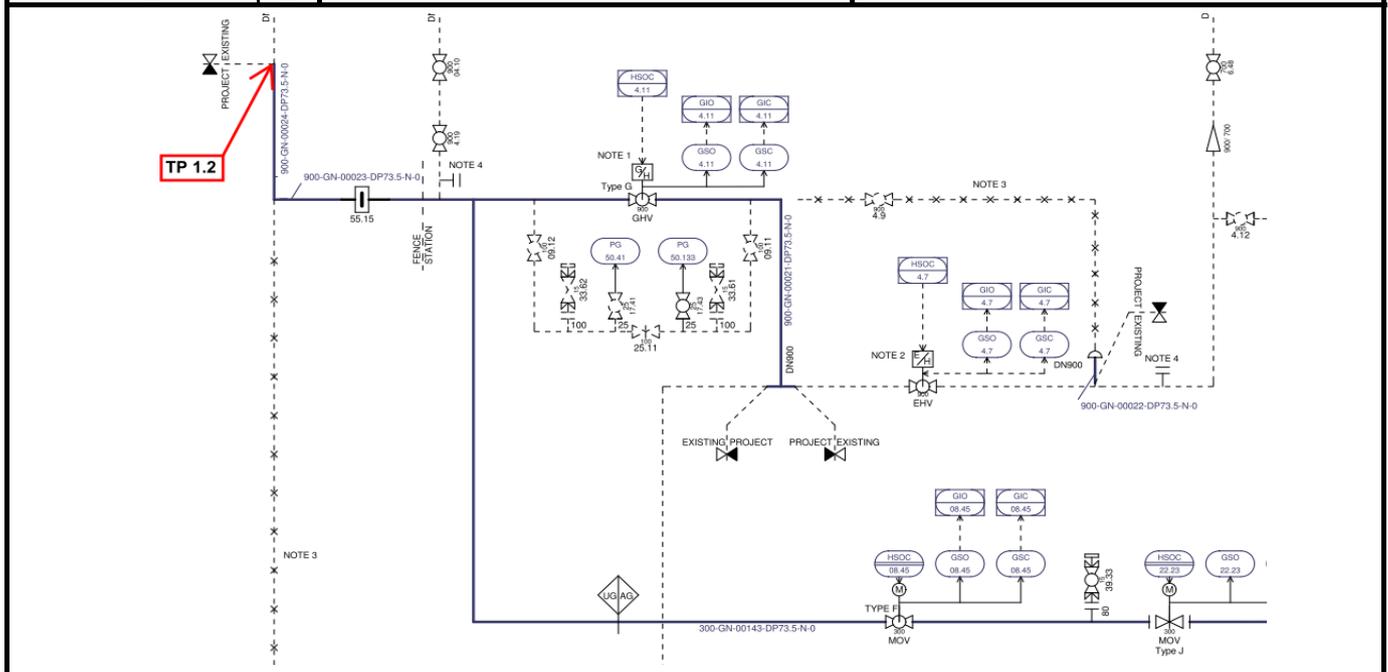
Notes:

- 1) Calculated wall thickness
- 2) Measured values
- 3) DN - Nominal Diameter
- 4) OD - Outside Diameter
- 5) DP - Design Pressure
- 6) MOP - Maximum Operating Pressure
- 7) TP - Tie-in Point
- 8) TBD - To be Defined

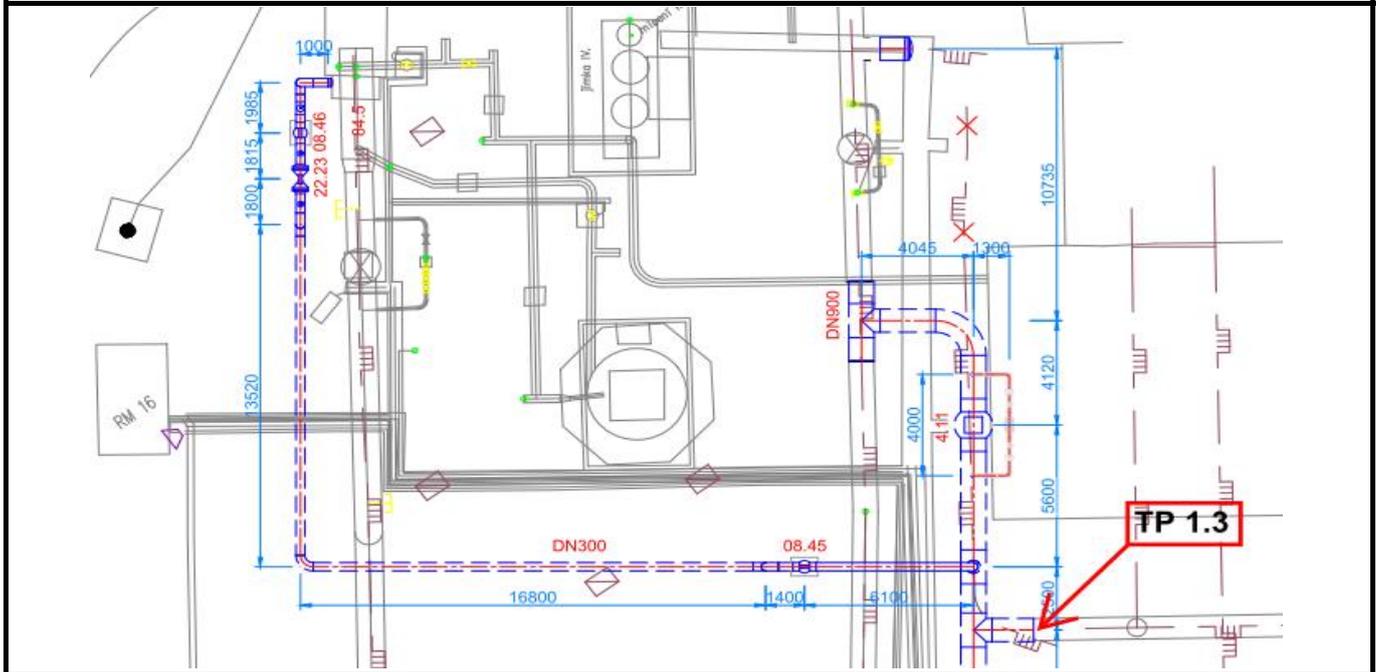
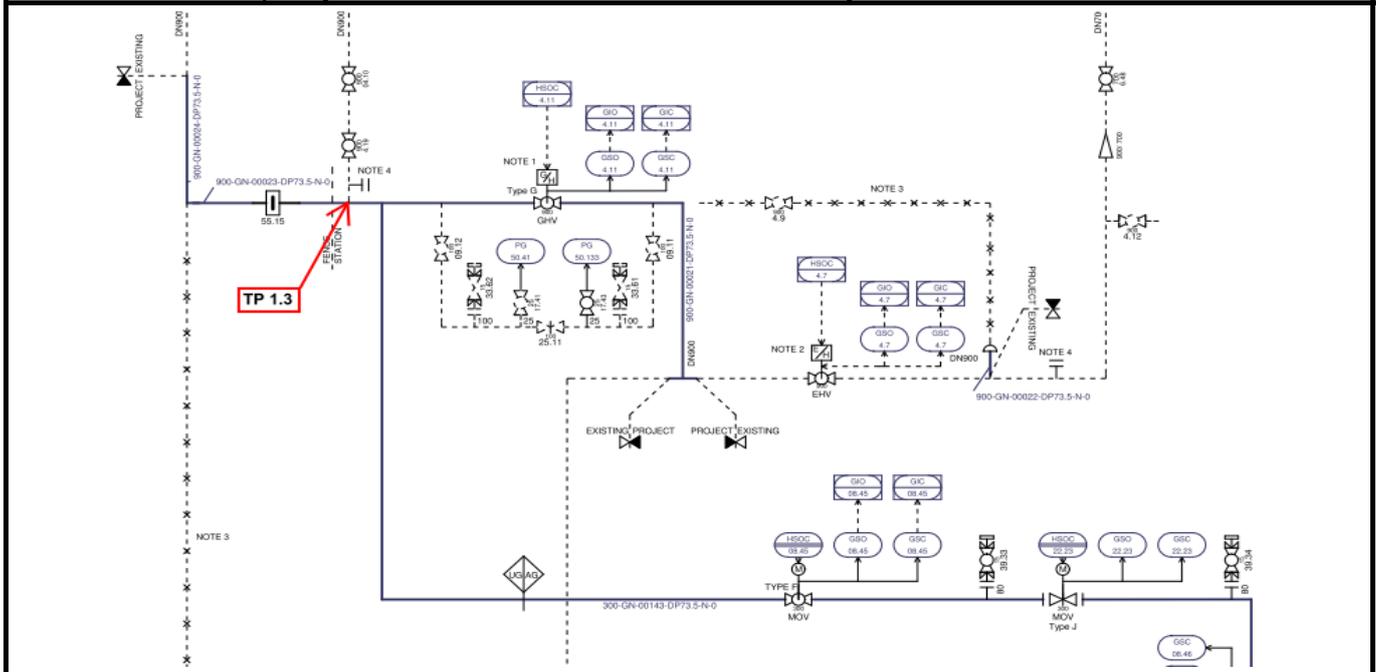
Tie-in Point: TP 1.1		Station: PS002 Hora Sv. Kateřiny	
		PS002 Hora Sv. Kateřiny	Existing Facilities
Line Number		900-GN-42107-DP100-N-N	-
P&ID		C4G-HSKA-ILF-PS02B-STR-DIA-112	C4G-HSKA-ILF-PS02B-STR-DIA-112
Drawing No.		C4G-HSKA-ILF-PS02B-STR-VYK-401	C4G-HSKA-ILF-PS02B-STR-VYK-401
	Unit	T-piece - Brunch	T-piece - Run
Nominal Diameter		900	900
Outside Diameter		914.0	924
Wall Thickness		20.0	13.82
Material		L415NE	L415MB
MOP		73.5	73.5
Design Pressure (DP)		100.0	73.5
Type of Connection		T-piece DN 900/DN 900	
Coordinates		Design	Measured
TOP OF PIPE	X	976 681.1	-
	Y	802 864.9	-
	Z	-	-



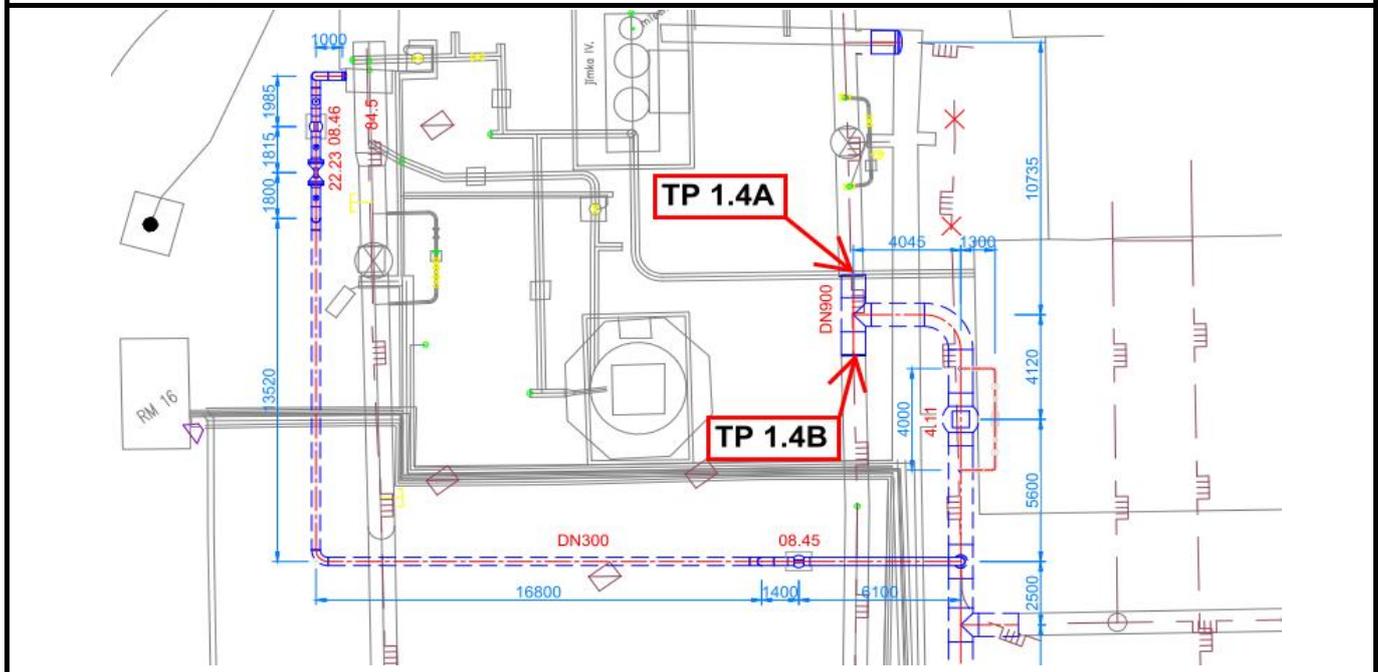
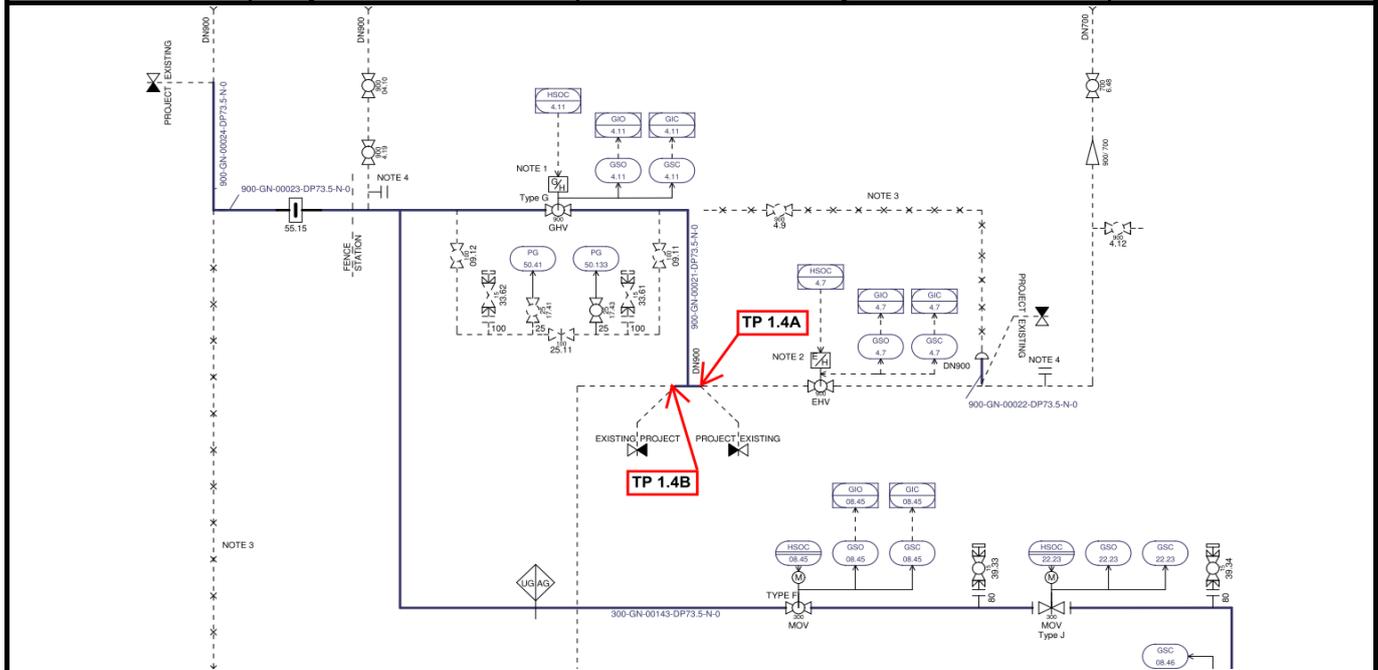
Tie-in Point: TP 1.2		Station: PS002 Hora Sv. Kateřiny	
		PS002 Hora Sv. Kateřiny	Existing Facilities
Line Number	900-GN-00024-DP73.5-N-0		-
P&ID	C4G-HSKA-ILF-PS02B-STR-DIA-121		C4G-HSKA-ILF-PS02B-STR-DIA-121
Drawing No.	C4G-HSKA-ILF-PS002-STR-VYK-402		C4G-HSKA-ILF-PS002-STR-VYK-402
	Unit		
Nominal Diameter	-	900	900
Outside Diameter	mm	920.0	931
Wall Thickness	mm	14.1	14.14
Material	-	L415NE	TBD
MOP	barg	73.5	73.5
Design Pressure (DP)	barg	73.5	73.5
Type of Connection	Pipe to Pipe DN 900		
Coordinates		Design	Measured
TOP OF PIPE	X	976 482.4	-
	Y	803 212.3	-
	Z	-	-



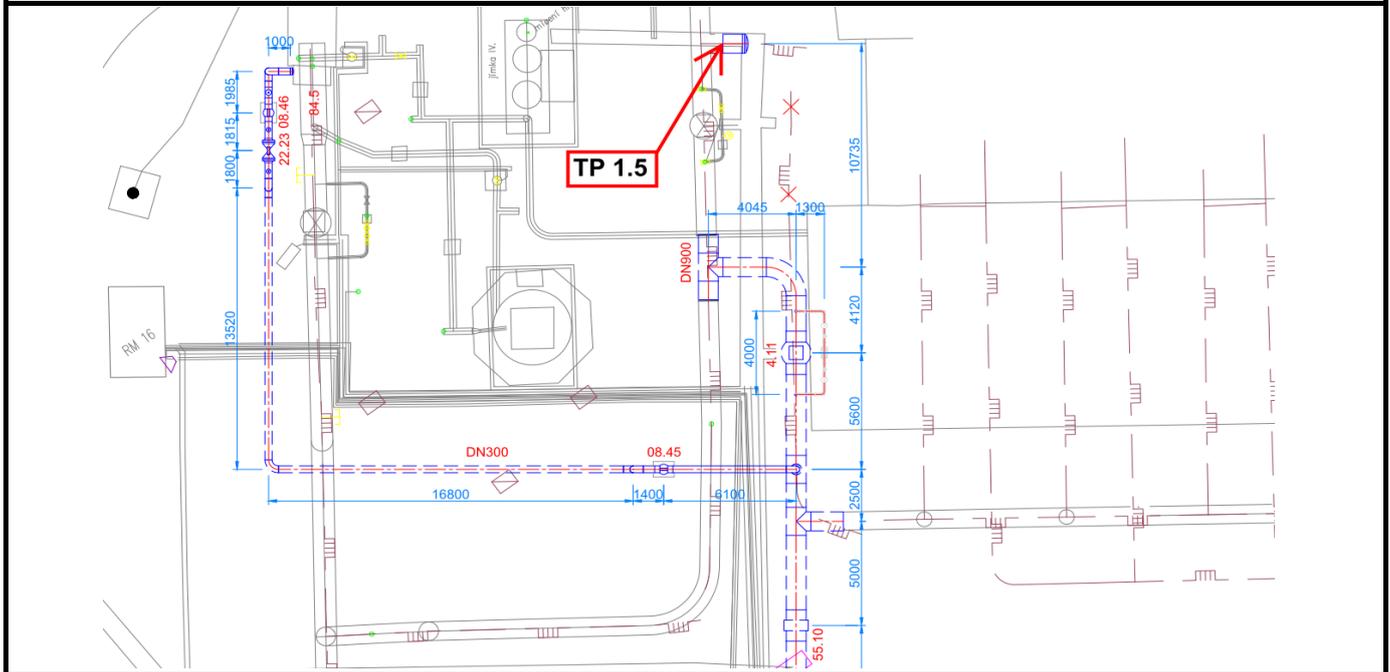
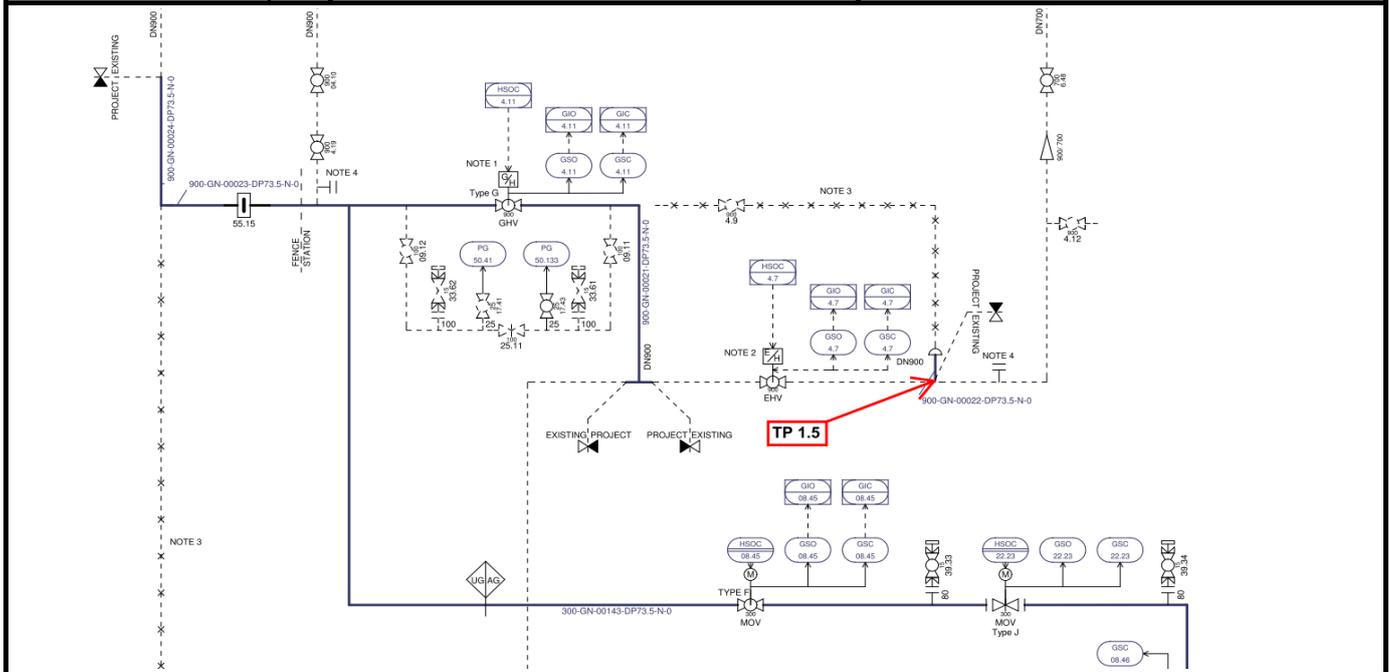
Tie-in Point: TP 1.3		Station: PS002 Hora Sv. Kateřiny	
		PS002 Hora Sv. Kateřiny	Existing Facilities
Line Number		900-GN-00023-DP73.5-N-0	-
P&ID		C4G-HSKA-ILF-PS02B-STR-DIA-121	C4G-HSKA-ILF-PS02B-STR-DIA-121
Drawing No.		C4G-HSKA-ILF-PS002-STR-VYK-402	C4G-HSKA-ILF-PS002-STR-VYK-402
	Unit		
Nominal Diameter	-	900	900
Outside Diameter	mm	920.0	931.0
Wall Thickness	mm	14.1	14.51
Material	-	L415NE	TBD
MOP	barg	73.5	73.5
Design Pressure (DP)	barg	73.5	73.5
Type of Connection		Pipe to Pipe DN 900	
Coordinates		Design	Measured
TOP OF PIPE	X	976 433.4	-
	Y	803 176.2	-
	Z	-	-



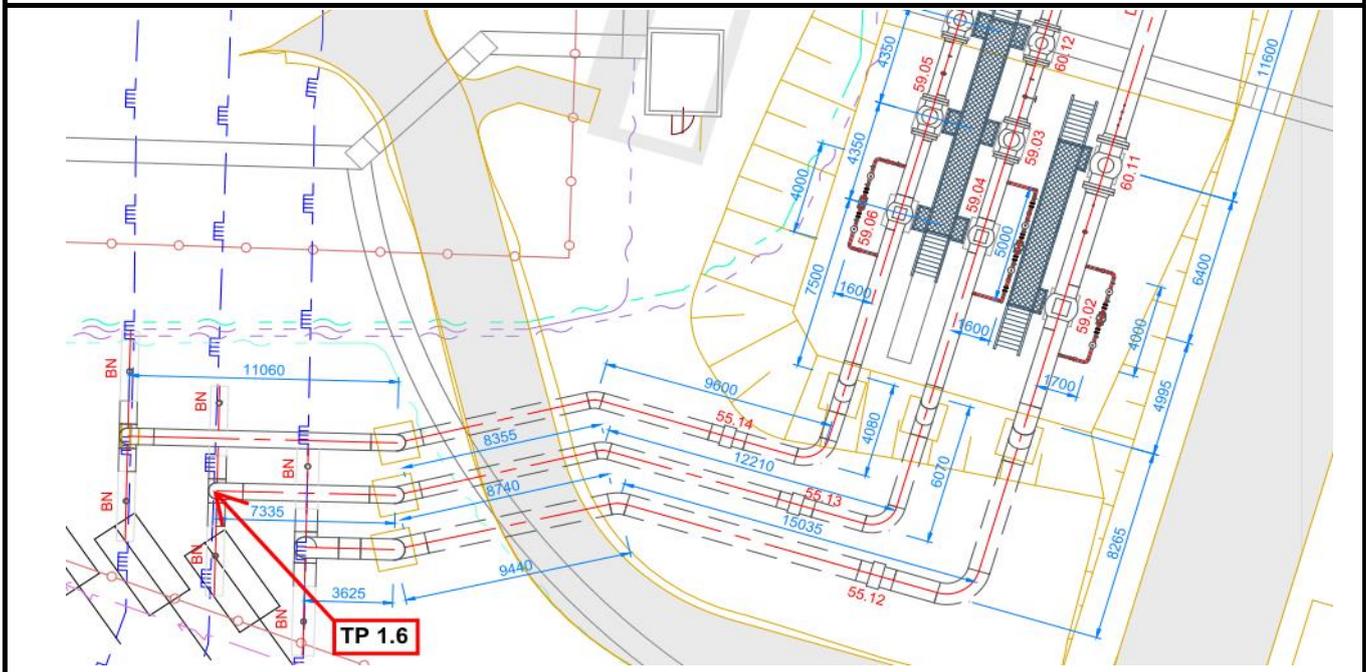
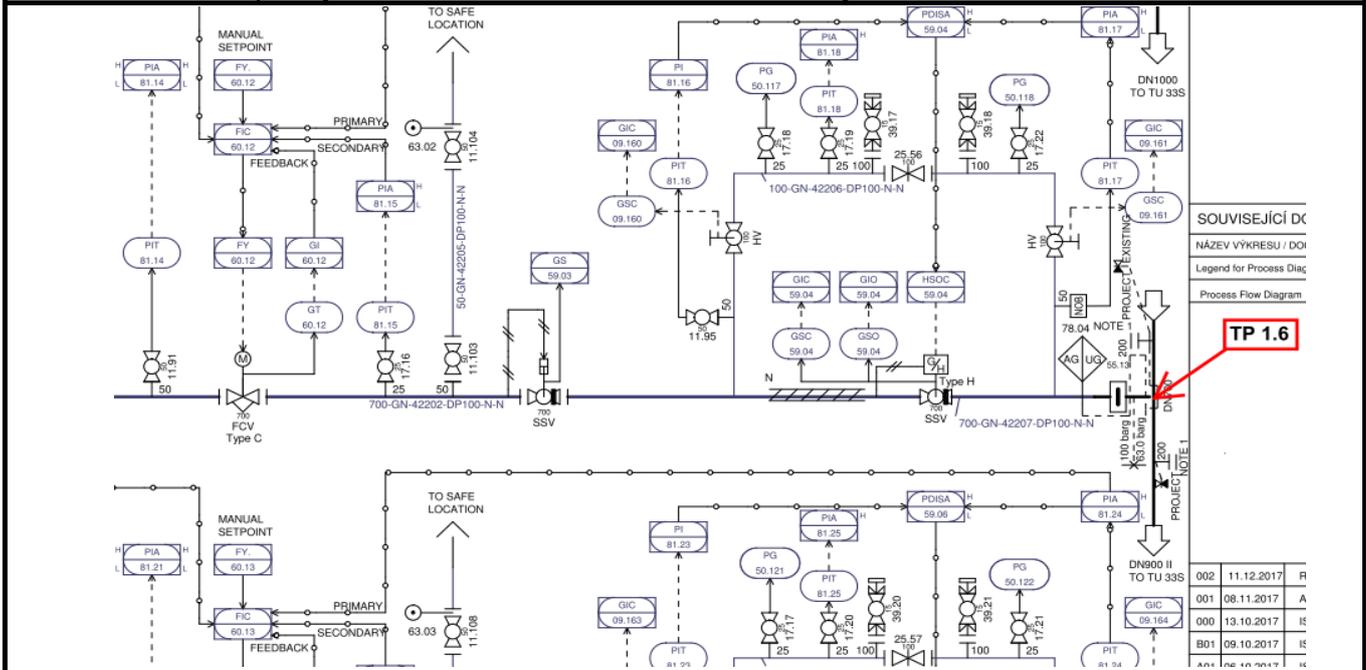
Tie-in Point: TP 1.4		Station: PS002 Hora Sv. Kateřiny			
		PS002 Hora Sv. Kateřiny		Existing Facilities	
Line Number		900-GN-00021-DP73.5-N-0		-	
P&ID		C4G-HSKA-ILF-PS02B-STR-DIA-121		C4G-HSKA-ILF-PS02B-STR-DIA-121	
Drawing No.		C4G-HSKA-ILF-PS002-STR-VYK-402		C4G-HSKA-ILF-PS002-STR-VYK-402	
	Unit	TP 1.4A	TP 1.4B	TP 1.4A	TP 1.4B
Nominal Diameter	-	900	900	900	900
Outside Diameter	mm	920.0	920.0	932.0	929.0
Wall Thickness	mm	14.1	14.1	14.13	14.27
Material	-	L415NE	L415NE	TBD	TBD
MOP	barg	73.5	73.5	73.5	73.5
Design Pressure (DP)	barg	73.5	73.5	73.5	73.5
Type of Connection		Pipe to Pipe DN 900			
Coordinates		Design TP 1.4A	Design TP 1.4B	Measured TP 1.4A	Measured TP 1.4B
TOP OF PIPE	X	976 423.9	976 418.2	-	-
	Y	803 172.1	803 168.1	-	-
	Z	-	-	-	-



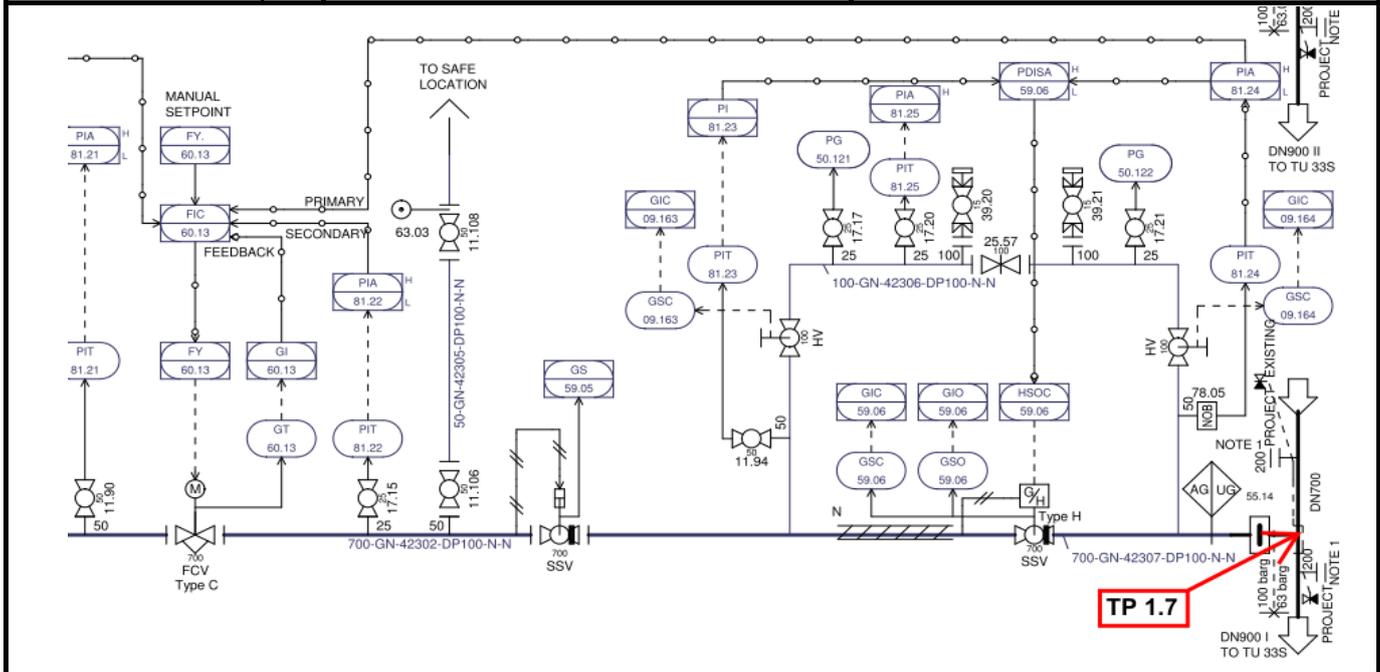
Tie-in Point: TP 1.5		Station: PS002 Hora Sv. Kateřiny	
		PS002 Hora Sv. Kateřiny	Existing Facilities
Line Number		900-GN-00022-DP73.5-N-0	-
P&ID		C4G-HSKA-ILF-PS02B-STR-DIA-121	C4G-HSKA-ILF-PS02B-STR-DIA-121
Drawing No.		C4G-HSKA-ILF-PS002-STR-VYK-402	C4G-HSKA-ILF-PS002-STR-VYK-402
	Unit		
Nominal Diameter	-	900	900
Outside Diameter	mm	920.0	929.0
Wall Thickness	mm	14.1	14.82
Material	-	L415NE	TBD
MOP	barg	73.5	73.5
Design Pressure (DP)	barg	73.5	73.5
Type of Connection		Pipe to Pipe DN 900	
Coordinates		Design	Measured
TOP OF PIPE	X	976 412.0	-
	Y	803 168.6	-
	Z	-	-



Tie-in Point: TP 1.6		Station: PS002 Hora Sv. Kateřiny	
		PS002 Hora Sv. Kateřiny	Existing Facilities
Line Number		900-GN-42207-DP100-N-N	-
P&ID		C4G-HSKA-ILF-PS02B-STR-DIA-112	C4G-HSKA-ILF-PS02B-STR-DIA-112
Drawing No.		C4G-HSKA-ILF-PS02B-STR-VYK-401	C4G-HSKA-ILF-PS02B-STR-VYK-401
	Unit	T-piece - Branch	T-piece - Run
Nominal Diameter	-	700	700
Outside Diameter	mm	711.0	728.0
Wall Thickness	mm	17.5	10.86
Material	-	L415NE	L360MB
MOP	barg	61.0	61.0
Design Pressure (DP)	barg	63.0	63.0
Type of Connection		T-piece DN 700/DN 700	
Coordinates		Design	Measured
TOP OF PIPE	X	976 677.0	-
	Y	802 866.6	-
	Z	-	-



Tie-in Point: TP 1.7		Station: PS002 Hora Sv. Kateřiny	
		PS002 Hora Sv. Kateřiny	Existing Facilities
Line Number		900-GN-42307-DP100-N-N	-
P&ID		C4G-HSKA-ILF-PS02B-STR-DIA-112	C4G-HSKA-ILF-PS02B-STR-DIA-112
Drawing No.		C4G-HSKA-ILF-PS02B-STR-VYK-401	C4G-HSKA-ILF-PS02B-STR-VYK-401
	Unit	T-piece - Brunch	T-piece - Run
Nominal Diameter	-	700	700
Outside Diameter	mm	711.0	726.0
Wall Thickness	mm	17.5	11.07
Material	-	L415NE	L360MB
MOP	barg	59.8	59.8
Design Pressure (DP)	barg	63.0	63.0
Type of Connection		T-piece DN 700/DN 700	
Coordinates		Design	Measured
TOP OF PIPE	X	976 673.0	-
	Y	802 868.3	-
	Z	-	-



Tie-in Point: TP 1.8		Station: PS002 Hora Sv. Kateřiny			
		PS002 Hora Sv. Kateřiny		Existing Facilities	
Line Number		-		-	
P&ID		C4G-HSKA-ILF-PS02B-STR-DIA-121		C4G-HSKA-ILF-PS02B-STR-DIA-121	
Drawing No.		C4G-HSKA-ILF-PS02B-STR-VYK-402		C4G-HSKA-ILF-PS02B-STR-VYK-402	
	Unit	TP 1.8A	TP 1.8B	TP 1.8A	TP 1.8B
Nominal Diameter	-	1000	1000	1000	1000
Outside Diameter	mm	1020.0	1020.0	1031.0	1031.0
Wall Thickness	mm	13.5	13.5	12.23	11.72
Material	-	L485ME	L485ME	TBD	TBD
MOP	barg	73.5	73.5	73.5	73.5
Design Pressure (DP)	barg	73.5	73.5	73.5	73.5
Type of Connection		Pipe to Pipe DN 1000			
Coordinates		Design 1.8A	Design 1.8B	Measured 1.8A	Measured 1.8B
TOP OF PIPE	X	976 467.9	976 470.4	-	-
	Y	803 229.5	803 231.2	-	-
	Z	-	-	-	-

