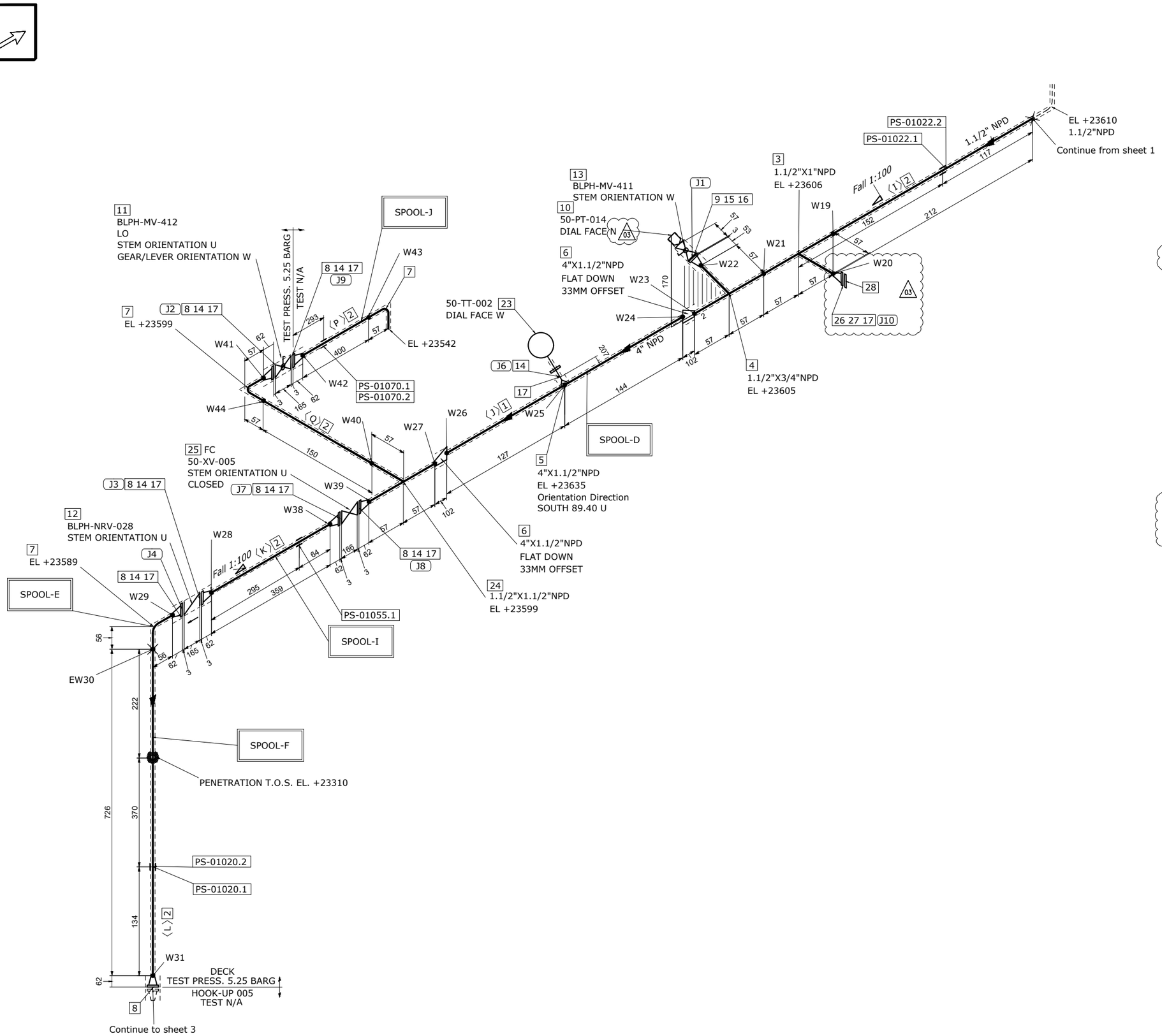


MATERIAL LIST

FABRICATION

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
1	4	PIPECS03750400	Pipe ASME B36.10M PE 6,02 SML ASTM/ASME A/SA333 Gr.6	0.3M	4.4
2	1.1/2	PIPECS02951H00	Pipe ASME B36.10M PE 5,08 SML ASTM/ASME A/SA333 Gr.6	1.9M 02	10.0
3	1.1/2X1	TER0CS26141H01	Tee Reducing ASME B16.9 BW 5,08x4,55 WRS ASTM/ASME A/SA420 Gr.WPL6	1	1.0
4	1.1/2X3/4	TER0CS04991H3Q	Tee Reducing ASME B16.9 BW 5,08x3,91 WRS ASTM/ASME A/SA420 Gr.WPL6	1	1.0
5	4X1.1/2	ONFRCS0296041H	NipoFlange Reinforced Manuf.s STD 150LB RF 6,02x5,08 FRG ASTM/ASME A/SA350 Gr.LF2	1	3.3
6	4X1.1/2	REE0CS1728041H	Reducer Eccentric ASME B16.9 BW 6,02x5,08 WRS ASTM/ASME A/SA420 Gr.WPL6	2	3.3
7	1.1/2	E90RCS04991H00	90 Deg Elbow Long Radius ASME B16.9 BW 5,08 WRS ASTM/ASME A/SA420 Gr.WPL6	3	1.5
8	1.1/2	FLW0CS16561H00	Flange WN ASME B16.5 150LB RF 5,08 FRG ASTM/ASME A/SA350 Gr.LF2	7	12.6
9	3/4	FLW0CS16523Q00	Flange WN ASME B16.5 150LB RF 3,91 FRG ASTM/ASME A/SA350 Gr.LF2	1	0.9
24	1.1/2X 1.1/2	TEE0CS05251H00	Tee ASME B16.9 BW 5,08 WRS ASTM/ASME A/SA420 Gr.WPL6	1	1.1
26 03	1	FLW0CS16540100	Flange WN ASME B16.5 150LB RF 4,55 FRG ASTM/ASME A/SA350 Gr.LF2	1	1.4

ERECTION

POS.	SIZE	SAP CODE	DESCRIPTION	Q.TY	WEIGHT [kg]
10	1/2		Pressure Transmitter - Online	1	2.0
11	1.1/2	VBC0NN24721H00	Ball Valve Split Body FB API 6D FLG 150LB RF BS01B01RF	1	14.5
12	1.1/2	VDRNNN02591H00	Check Valve Piston EN ISO 15761 FLG 150LB RF CH01B02RF	1	0.0
13	3/4X1/2	VLBNNN00063Q0H	Monoflange Block & Bleed Valve API 6D FLG x THRD-F NPT 150LB RF MS01B02Y	1	5.0
14	1.1/2	GSW0GK11121H00	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	7	0.5
15	3/4	GSW0GK11093Q00	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.1
16	1/2	SB20BO01080200	65 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	4	0.5
17	1/2	SB20BO00930200	70 Stud Bolt + 2 Heavy Nuts ASME B1.1 ASTM A193 Gr.B7 - A194 Gr.2H Hot dip galvanized	32 03	3.9
23	1.1/2		Temperature Trasmitter 150#	1	0.0
25	1.1/2		ON/OFF Ball Actuator Valve - 150#RF Flanged	1	54.0
27 03	1	GSW0GK11100100	Gasket Spiral Wound Thk. 3.2 mm ASME B16.20 150LB RF GSK AISI 316 + GRAPHITE c/w INNER RING	1	0.1
28	1	FLB0CS07340100	Flange Blind ASME B16.5 150LB RF FRG ASTM/ASME A/SA350 Gr.LF2	1	1.4

FABRICATION WEIGHT [kg]	40.5
ERECTION WEIGHT [kg]	03 82.0
OVERALL WEIGHT [kg]	122.5

WELD SUMMARY

WELD No.	SIZE [inches]	TYPE
W19	1.1/2	BW
EW20	1	BW
W21	1.1/2	BW
W22	3/4	BW
W23	1.1/2	BW
W24	4	BW
W25	1.1/2	LET
W26	4	BW
W27	1.1/2	BW
W28	1.1/2	BW
W29	1.1/2	BW
EW30	1.1/2	BW
W31	1.1/2	BW
W38	1.1/2	BW
W39	1.1/2	BW
W40	1.1/2	BW
W41	1.1/2	BW
W42	1.1/2	BW
W43	1.1/2	BW
W44	1.1/2	BW

CUTTING LIST

PIECE No.	SIZE [inches]	LENGTH [mm]	END PREP.1	END PREP.2
I	1.1/2	212	BEVEL	BEVEL
J	4	271	BEVEL	BEVEL
K	1.1/2	359	BEVEL	BEVEL
L	1.1/2	726	BEVEL	BEVEL
P	1.1/2	400	BEVEL	BEVEL
Q	1.1/2	150	BEVEL	BEVEL

SUPPORT LIST

PS-01022.1
PS-01022.2
PS-01055.1
PS-01020.1
PS-01020.2
PS-01070.1
PS-01070.2

SPOOL	WELD [inches]	WEIGHT [kg]
D	21.75	24.2
E	1.5	2.3
F	1.5	5.7
I	3.0	5.5
J	3.0	2.8
MONT	1.5	82.0

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
03	26-03-2025	STAFF SRL	RT	LM	REVISED WHERE INDICATED
02	14-10-2024	STAFF SRL	RT	LM	REVISED WHERE INDICATED
01	03-10-2024	STAFF SRL	RT	LM	REVISED WHERE INDICATED
00	27-08-2024	STAFF SRL	RT	LM	ISSUED FOR CONSTRUCTION

CROSSWIND

ROSETTI MARINO

TITLE
SHOP DRAWING ISOMETRIC
LINE NR. 1-1/2"-WW-073-01CS-H
SK.031

CONTRACT NO./ TITLE: CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK
SCALE: N/A
DRAWN: STAFF SRL | CHECKED: RT | APPROVED: LM | DATE: 14-10-2024
FORMAT: A3 | DRAWING NO.: 123A90-FDL-PP-DI-00031 | SHEET / OF: 2/3 | REV.: 03

LINE DATA

NDT INSPECTION CATEGORY	2		PED CATEGORY	Art. 4, par. 3				
PAINTING	SYSTEM 1D	BASE RAL N/A	FLUID PHASE	Liquid				
INSULATION	TYPE H	THICKNESS 20 [mm]	DESIGN	PRESS. 3.5	[barg]	TEMP. -46 / 100	[°C]	
HEAT TRACING	N/A		TEST	PRESS. 5.25	[barg]	TEMP. AMB	MEDIUM Water	

REFERENCE DOCUMENTS

P&ID	123A90-DDL-PR-PID-80025
ISOMETRIC SHOP DWG LIST	123A90-FDL-PP-LIS-00001
PIPING SUPPORT BOOK	123A90-DDL-PP-DD-72000
PIPING MATERIAL CLASS	123A90-DDL-PP-SP-70029

NOTES

MASTER