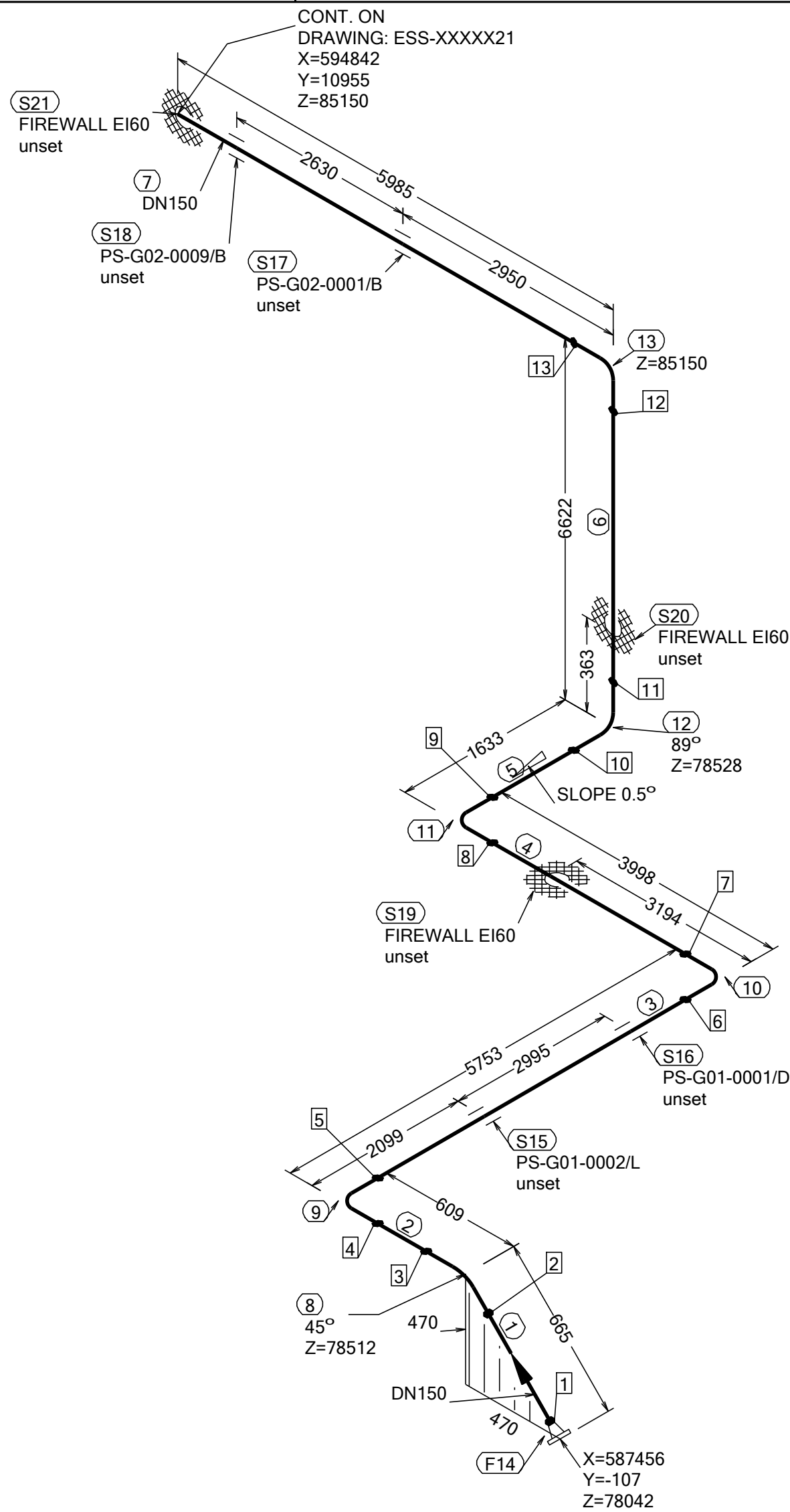


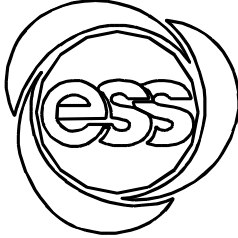
N (Y)



WELD	WPS	FABRICATION MATERIALS					
1							
2		PT	COMPONENT DESCRIPTION	DN	MATERIAL	QTY	REMARKS
3		NO				(mm)	
4							
5			PIPE				
6							
7							
8		1	PIPE, SS-EN 10217-7, TC1, 168.3x2.0	150	EN 1.4404	515	
9		2	PIPE, SS-EN 10217-7, TC1, 168.3x2.0	150	EN 1.4404	285	
10		3	PIPE, SS-EN 10217-7, TC1, 168.3x2.0	150	EN 1.4404	5295	
11		4	PIPE, SS-EN 10217-7, TC1, 168.3x2.0	150	EN 1.4404	3540	
12		5	PIPE, SS-EN 10217-7, TC1, 168.3x2.0	150	EN 1.4404	1177	
13		6	PIPE, SS-EN 10217-7, TC1, 168.3x2.0	150	EN 1.4404	6166	
		7	PIPE, SS-EN 10217-7, TC1, 168.3x2.0	150	EN 1.4404	5756	

FITTINGS						
8	ELBOW 45, TYPE 3D, SS-EN 10253-4, TYPE A, 168.3x2.0	150	EN 1.4404	1		
9	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 168.3x2.0	150	EN 1.4404	1		
10	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 168.3x2.0	150	EN 1.4404	1		
11	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 168.3x2.0	150	EN 1.4404	1		
12	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 168.3x2.0	150	EN 1.4404	1		
13	ELBOW 90, TYPE 3D, SS-EN 10253-4, TYPE A, 168.3x2.0	150	EN 1.4404	1		
FLANGES						
14	FLANGE WN, SS-EN 1092-1, TYPE 11, PN16	150		1		

ERECTION MATERIALS						
PT	COMPONENT DESCRIPTION	DN	MATERIAL	QTY	REMARKS	
NO				(mm)		
SUPPORTS						
15	ESS Atta	150		1		
16	ESS Atta	150		1		
17	ESS Atta	150		1		
18	ESS Atta	150		1		
19	PENETRATION ATTA	150		1		
20	PENETRATION ATTA	150		1		
21	PENETRATION ATTA	150		1		

WPS See Weldlist TBN	Design Temperature 50degC	Tightening Torque For Flange Joints TBN	P&ID Drawing Number ESS-0060416	General Layout Drawing Number TBN	Calculation Report ESS-0058702	Inspection Plan TBN	Area Code G01-NCL
Quality Level For Weldign Acc To TBN	Design Pressure 10bar (g)	Bend Radius N/A	Bending Procedure N/A	Coupling Installation Procedure TBN	Pressure Test Program TBN	Alternate System Tag	Date (First Issue) 170522
Weld Joint Efficiency Factor (Longitudinal) 1,0	Test Pressure 14.3bar (g)	Insulation Specification N/A			Title/Name EUROPEAN SPALLATION SOURCE ERIC WATER COOLING SYSTEM CWM DIW SUPPLY FOR FEB ESS.ACC.E02.E04.WP0006		Scale -
Elevation (z) Acc To BCS	Quality Class MQC4-C	Insulation Thickness N/A					Format A2
	Media CWM	Allowance For Corrosion 0					Sheet 1 of 1
	Pipe Specification MQC4-W-PN16	Surface Treatment N/A			Document Number ESS-XXXXX47	Revision A1	

Rev	Description	Date	Drawn	Designed	Reviewed	Verified	Quality	Approved
A1	ISSUED FOR CDR	170522	FRPE	FRPE	AKCO	ANLU		