

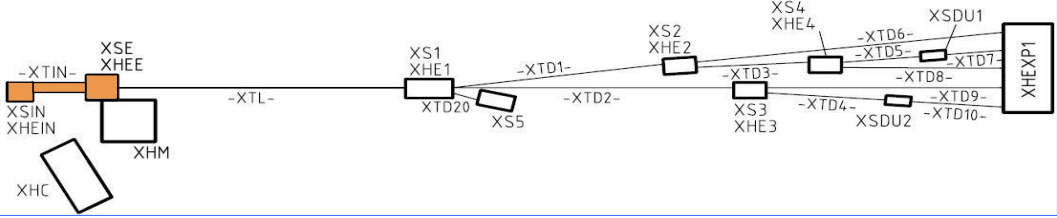
Electronics Racks for XFEL

Overview of installation sites for racks

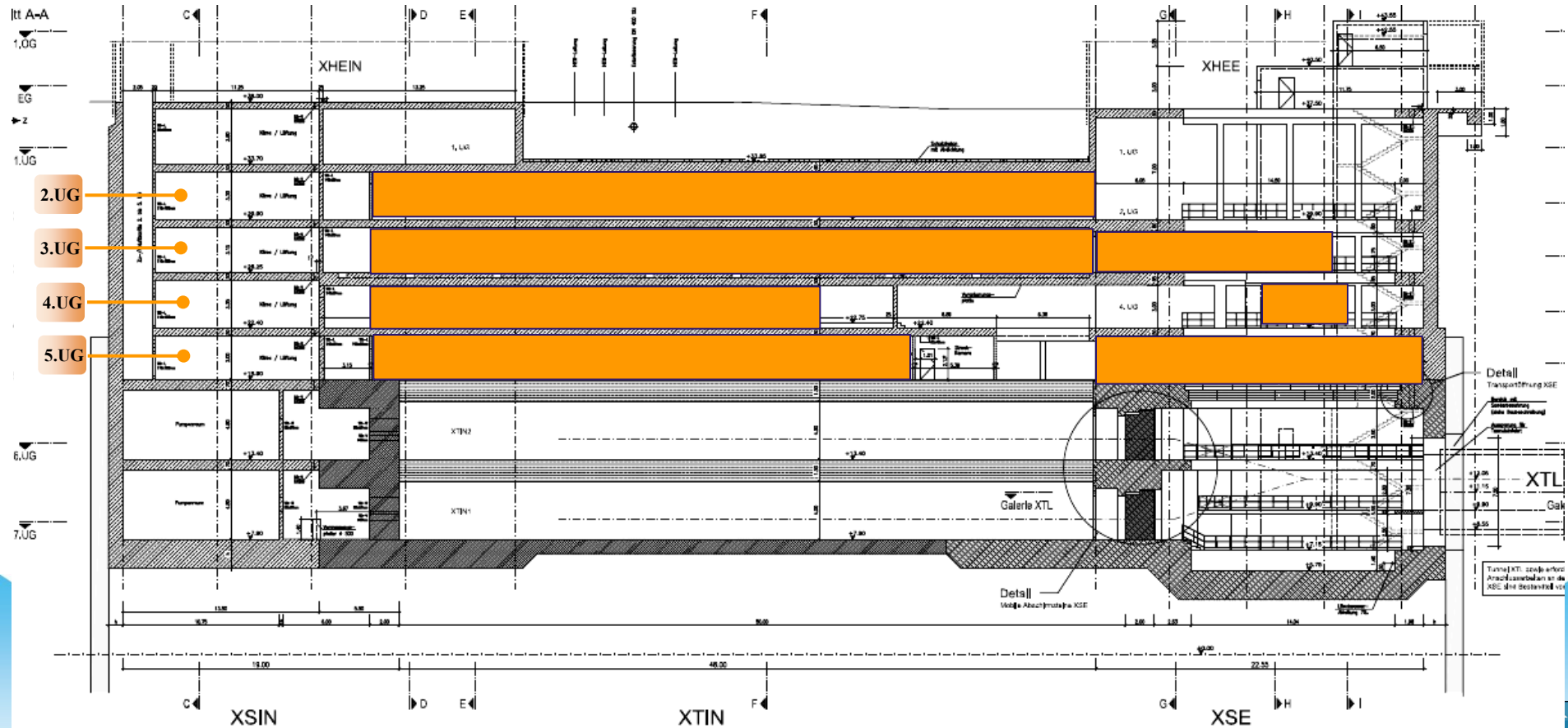


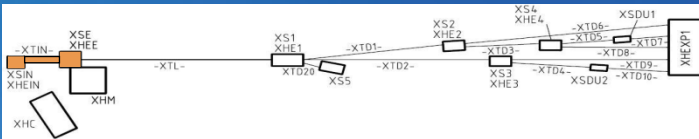
Änderungsprotokoll

05.05.2011	uTCA-Slots-Belegung (WP28 ACC Controls) eingefügt (zur Zeit nur WP17)
02.05.2011	Nach Absprache mit D. Nölle der Schrank bei 1661 m wurde bis auf 1640 m verschoben
23.05.2011	LLRF Racks in L1 reorganisiert (statt 2-er bei 166 m ist 3-er Rack angekommen)
31.05.2011	BC1 und BC2 wurden entsprechend Lattice V 7.2.2 revisioniert Schrank bei 410 m gibt's nicht mehr 2 Einzel-Schränke bei 423 m und 425 m sind durch 1 2-er Schrank bei 425 m ersetzt
08.06.2011	XS1 UG3: Dumpdiagnose-Racks und T1-Diagnose-Racks populiert
26.07.2011	SASE 1 (XTD2): 35 Machine Racks eingetragen
27.07.2011	SASE 2 (XTD1): 35 Machine Racks eingetragen
05.08.2011	Korrekturnetzgeräte sind von 136 m nach 123 m geschoben
08.08.2011	BC1 entsprechend Lattice V 8.0 revisioniert
09.08.2011	BC2 Layout update
17.10.2011	XTL LINAC neue Layout
04.05.2012	Girders and supports in the warm beam line are placed, vacuum and diagnostics there updated
11.05.2012	RAS positions in XTL Tunnel optimized
28.06.2012	SASE 3 und Photon Beam Leines Schränke eingetragen (siehe EDMS id=2911041).
04.07.2012	BC0 Update. XTL Raum 001 wurde aktualisiert: Girders + noch 1 Diagnose-Schrank bei 101 m
10.04.2013	BC0 noch mal aktualisiert.
12.04.2013	BC1 wurde aktualisiert (Neu Girder-Layout, 1 Schrank weniger – Platz für Klystron geschafft)
04.06.2013	Injector Racks updated
06.06.2013	Basic Layout for XTL was slightly changed. Positions of the Racks in XTL (LINAC) were updated (shifts up to 60 cm)
22.08.2013	WP17-Bedarf im XTL ab 1500 m aktualisiert (D. Nölle, D. Lipka)



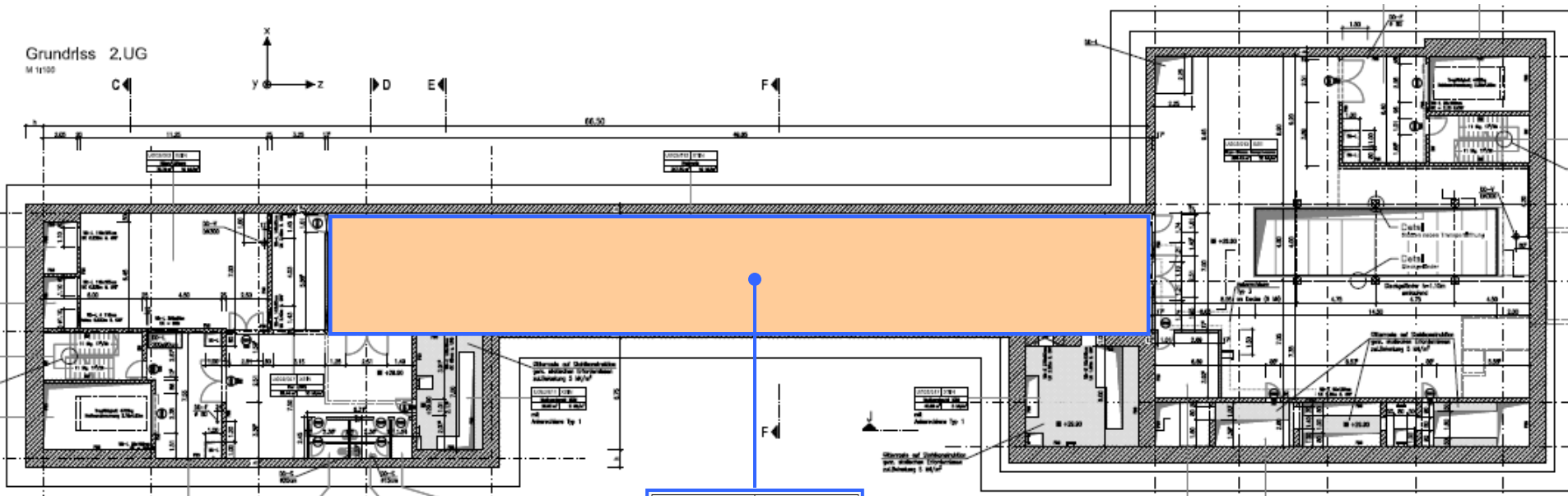
S:\user\groups\xfel\public\all Transfer\Bauzeichnungen_110207\5.03_Bauwerkspläne_Los 3





2UG (Level -2)

XSIN-XTIN-XSE

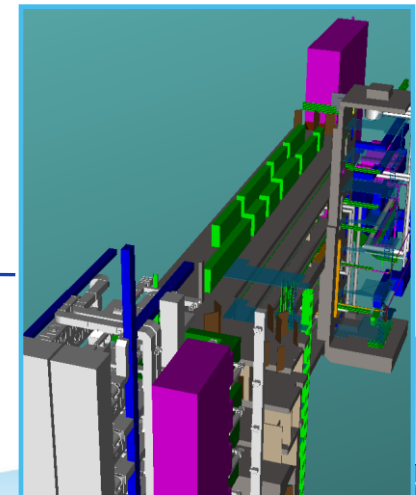


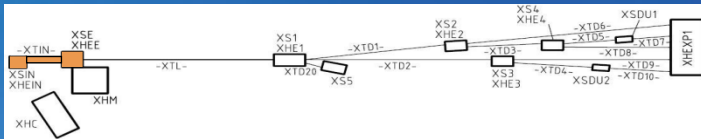
UG02/012	XTIN
Elektronik	
347.55 m ²	10 kN/m ²

WP34 Utilities

Verantwortlicher: J. Eckold

Elektronikschraenke Netzgeraete - 54 St (60x80x220)
 Elektronikschraenke Korrekturnetzgeraete - 10 St (60x80x220)
 Elektronikschraenke Reserve - 20 St (60x80x220)
 Erdungsschraenke - 4
 Diodengerate - 5
 Thyristorgeraet - 1
 Verteilungen 400 V - 1
 Verteilungen 600 V - 1





3UG (Level -3)

XSIN-XTIN-XSE

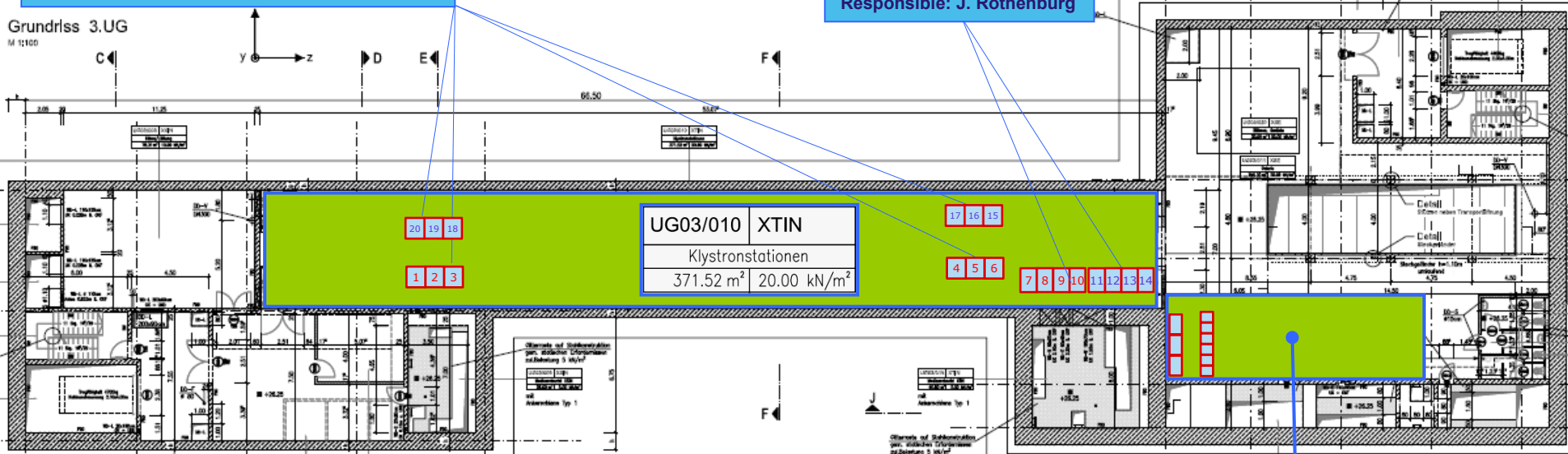
WP01 RF System Responsible: R. Wagner 12 Electronic racks

2+2 HF Stations
je 3 Racks pro Station
ca. 1600mm hoch für die Klystron Elektronik
Die Gesamtzahl der Höheneinheiten beträgt
nach jetziger Schätzung 61 HE. Die Racks sollten
wassergekühlt sein

WP46 3.9 GHz System 2x4 Electronic racks

Responsible: J. Rothenburg

Grundriss 3.UG
M 1:100



WP38 Personnel Interlock

6 Server-Schränke mit Klima (2,5m hoch) + 2 Res.
3 Verteiler-Schränke + 1 Res.

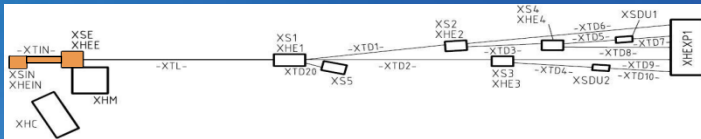
UG03/021 XSE

Diagnose

76.50 m² 20.00 kN/m²

WP17 Standard diagnostics

(Responsible: M. Steckel)
2 Electronic racks



4 UG (Level -4)

XSIN-XTIN-XSE

WP08 Cold Vacuum 6 Schränke

Responsible: D. Hoppe
Zugang beidseitig

UG04/013	XTIN
MVA	
17.51 m ²	10.00 kN/m ²

WP05 Power coupler

2x4 Racks (Injektor 1 und 2), A. Gössel
2x2 Racks (Injektor 1 und 2), T. Büttner

WP17 Standard diagnostics (Responsible: M. Steckel)

8 Racks + 2 Racks mit UPS und Notstromversorgung)

WP18 Special diagnostics (Responsible: F. Obier)

2 Kicker Schränke Racks

WP28 Accelerator Control

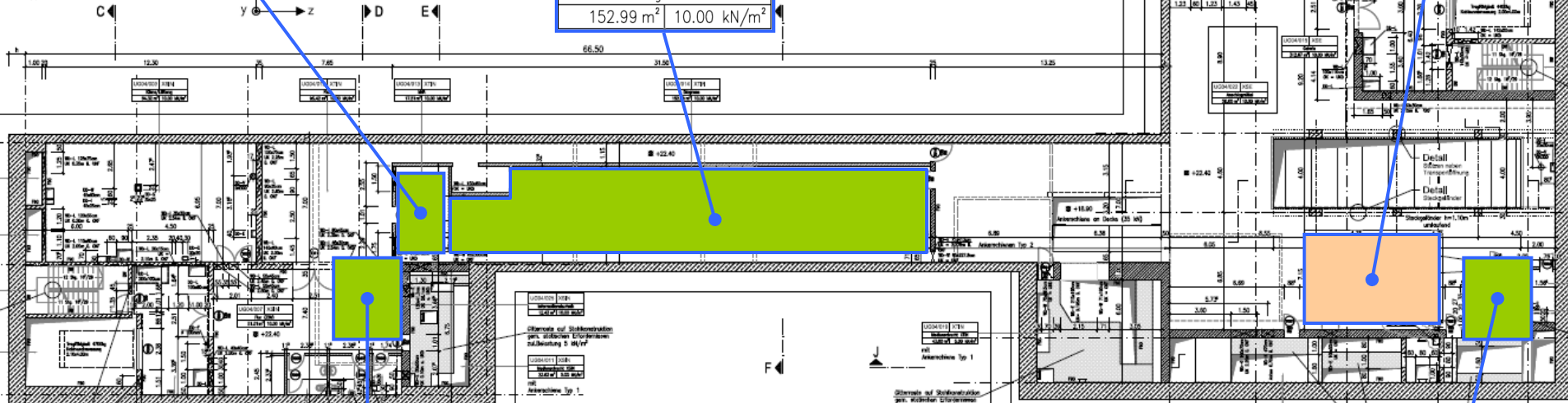
8 Server Racks

UG04/023	XSE
Elektronik	
42.72 m ²	10.00 kN/m ²

Up to now no requirements for this room !

UG04/014	XTIN
Diagnose	
152.99 m ²	10.00 kN/m ²

Grundriss 4.UG
M 1:100



UG04/025	XSIN
Informationstechnik	
12.43 m ²	10.00 kN/m ²

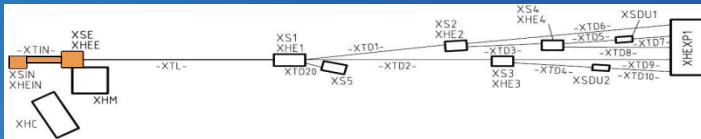
WP34 Ansprechpartner T. Witt

IT Verteiler..... 2 Racks

WP34 Ansprechpartner T. Witt

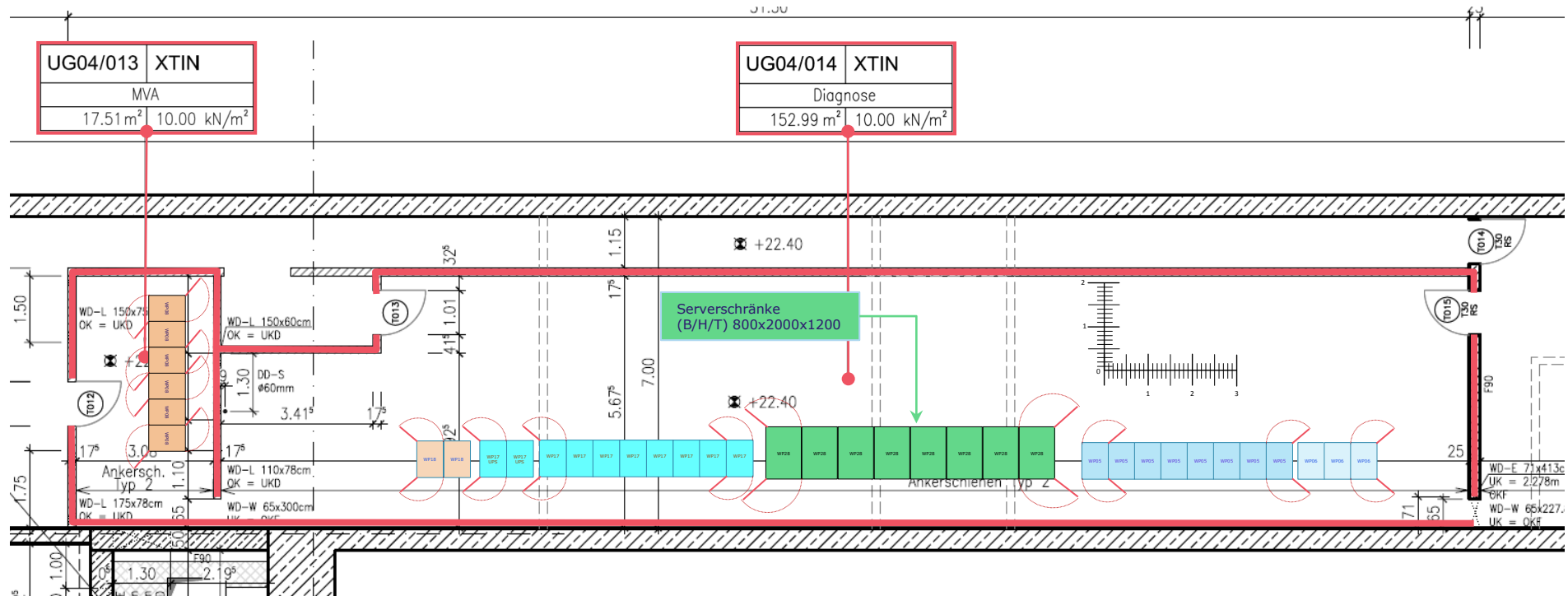
IT Verteiler..... 2 Racks

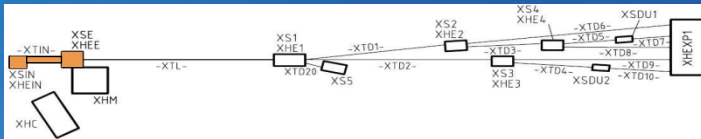
UG04/024	XSE
Informationstechnik	
10.70 m ²	10.00 kN/m ²



4 UG (Level -4)

XSIN-XTIN-XSE





4 UG

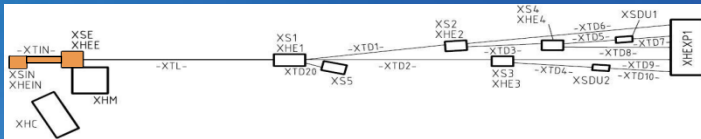
(Level -4)

XSIN-XTIN-XSE

UG04/014	XTIN
Diagnose	
152.99 m ²	10.00 kN/m ²

1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
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14	14	14	14
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1	1	1	1
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36	36	36	36
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38	38	38	38
39	39	39	39
40	40	40	40



5 UG (Level -5)

XSIN-XTIN-XSE

WP14 Injector
Cathode laser and Misc.
electronic devices
10 Racks ?

Responsible: M. Huening

UG05/010	XTIN
Laserraum 2	
104.47 m ²	20.00 kN/m ²

WP02 LLRF
20 Racks

Responsible: W. Wierba

WP18 Special diag.
Synchronisation
5 Racks ?
Responsible: M. Bousonville

UG05/025	XTIN
Laserraum 1	
51.10 m ²	20.00 kN/m ²

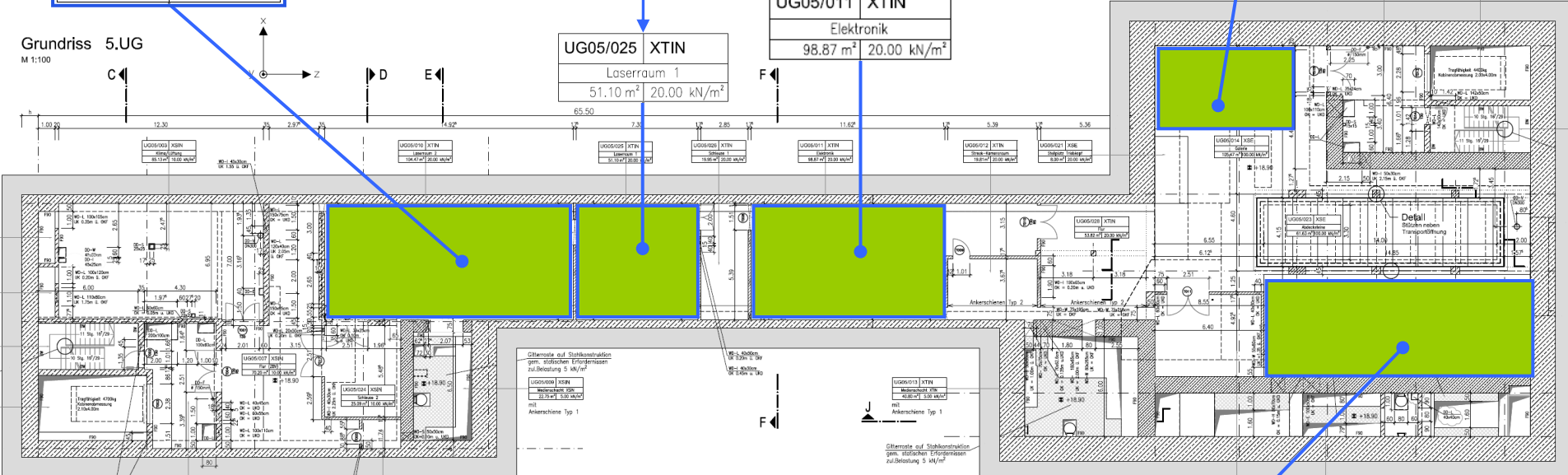
UG05/011	XTIN
Elektronik	
98.87 m ²	20.00 kN/m ²

WP02 LLRF
Responsible: W. Wierba
Spare space

WP34
Responsible: T. Witt
IT Unterverteiler für LLRF

UG05/020	XSE
LLRF, Timing, Synchronisation	
42.00 m ²	20.00 kN/m ²

Grundriss 5.UG
M 1:100

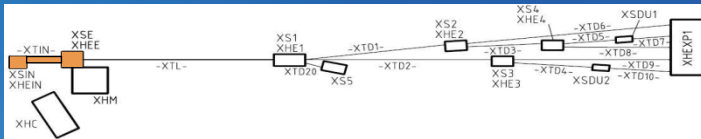


WP34
IT Hauptverteilteraum
Ansprechpartner T. Witt

Passive LWL- Verteiler 5 Racks
Aktive Komponenten 4 Racks
Kommunikation 3 Racks

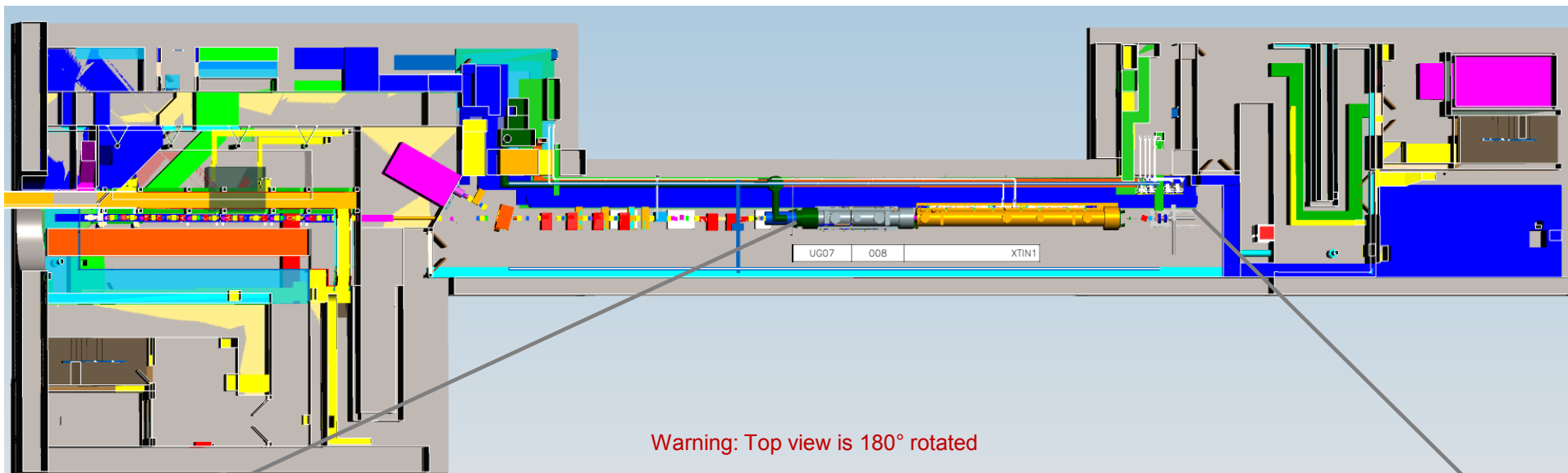
UG05/022	XSE
Klystren	
94.15 m ²	20.00 kN/m ²

WP18 Special diag.
HF electronic, TDS Modulators
Responsible: C. Gerth



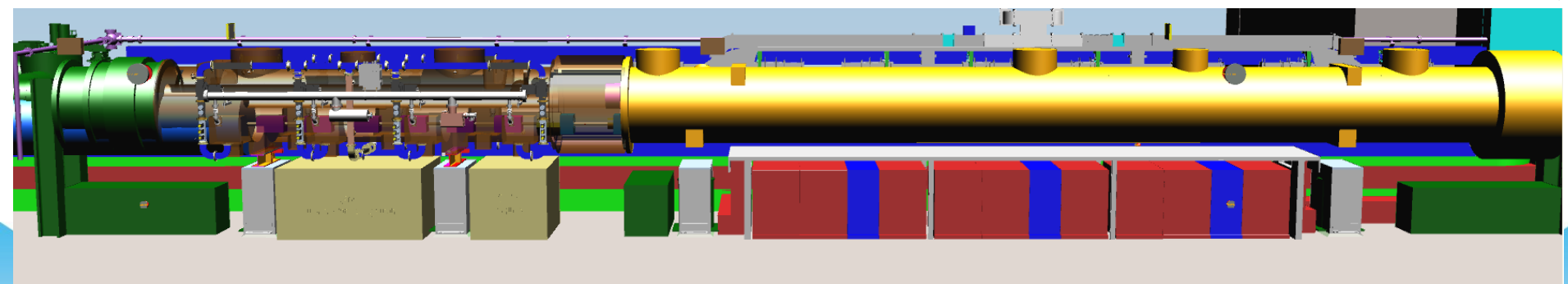
7 UG (Level -7)

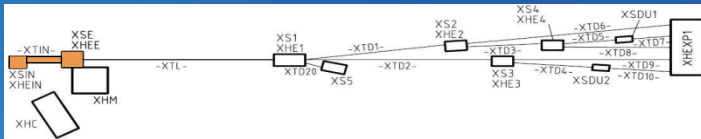
XSIN-XTIN-XSE



XTL ←
Z

Gun

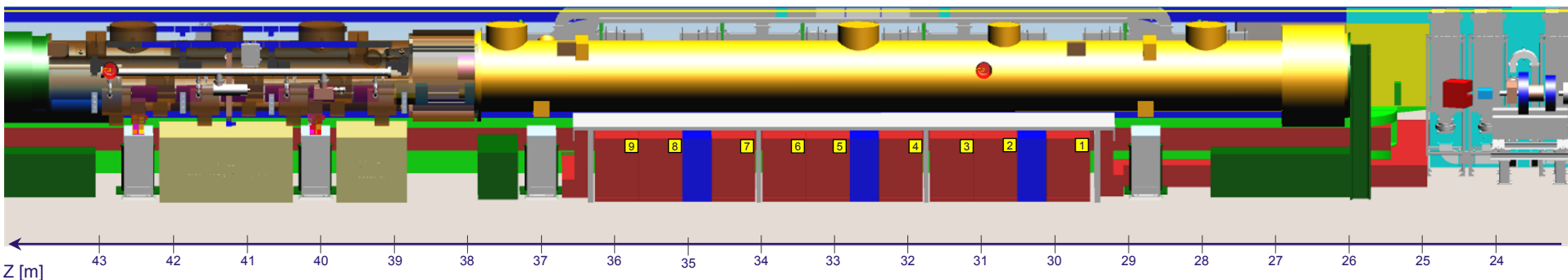




7 UG (Level -7)

XSIN-XTIN-XSE

23,2 m - 89 m (I1, Section S1)



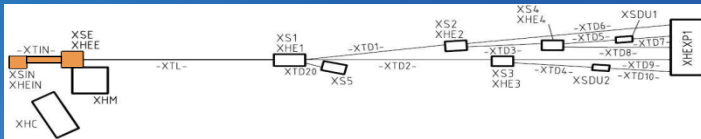
1	DCM 3.9GHz	9	1	IT RJ45 Patchfeld	7	1	IT RJ45 Patchfeld	6	1	DCM 1.3GHz	5	1	Frequency Tuning 1,3 GHz	4	1
2	REFM 3.9GHz		2	IT Cable tracing		2	IT Cable tracing		2	REFM 1.3GHz		2	4 RU		2
3	LOGM 3.9GHz		3	Ethernet Switch		3	Ethernet Switch		3	LOGM 1.3GHz		3	Phasenschieber 1,3 GHz		3
4	LOGM 3.9GHz spare		4	Optical Patch Panel		4			4	LOGM 1.3GHz spare		4	4 RU		4
5			5	Switch Box		5			5	MTCA GUN Main		5	Main Coupler 1,3 GHz		5
6			6	PZ16M		6			6	MTCA GUN Spare		6	4 RU		6
7			7	PSM 3.9GHz modules		7			7	PSM 1.3GHz modules		7	Frequency Tuning 3,9 GHz		7
8			8	PSM 1.3GHz modules		8			8			8	4 RU		8
9			9			9			9			9			9
10			10			10			10			10			10
11			11			11			11			11			11
12			12			12			12			12			12
13			13			13			13			13			13
14			14			14			14			14			14
15			15			15			15			15			15
16			16			16			16			16			16

1	Phasenschieber	3	1	WP17	1	1	WP17	1	1	WP17	1	1	WP17	1	1
2			2	DCM (3 RU)	2	2			2			2			2
3			3			3			3			3			3
4			4			4			4			4			4
5			5			5			5			5			5
6			6			6			6			6			6
7			7			7			7			7			7
8			8			8			8			8			8
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12			12			12			12			12			12
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14			14			14			14			14			14
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16			16			16			16			16			16

Cabinet at 29,6 m
XTIN_I1.S1_R06



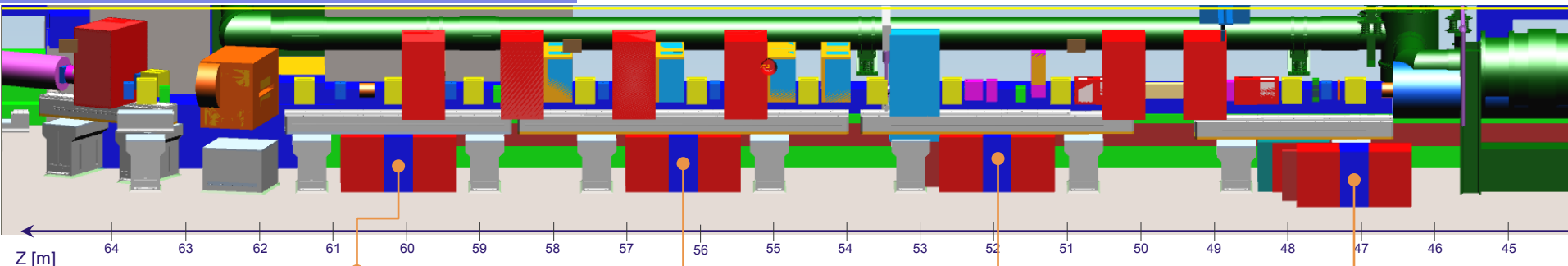
Considered as one cabinet with 9 racks



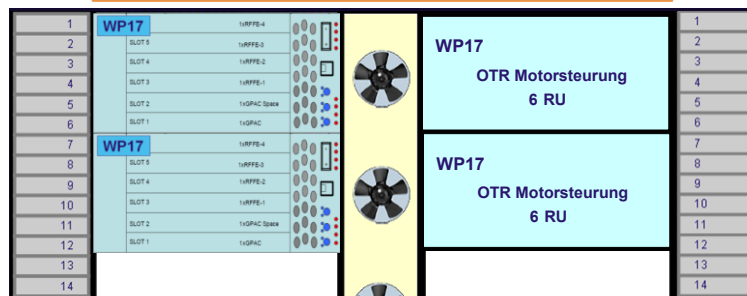
7 UG (Level -7)

XSIN-XTIN-XSE

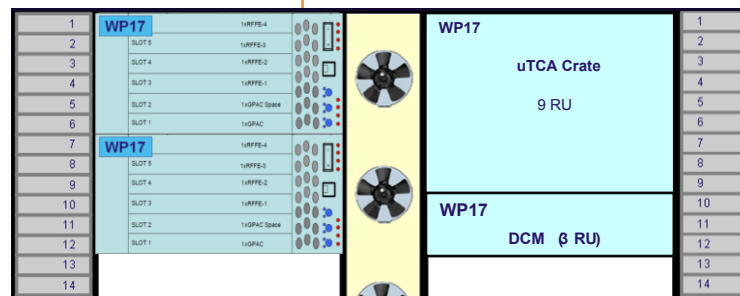
23,2 m - 89 m (I1, Section S1)



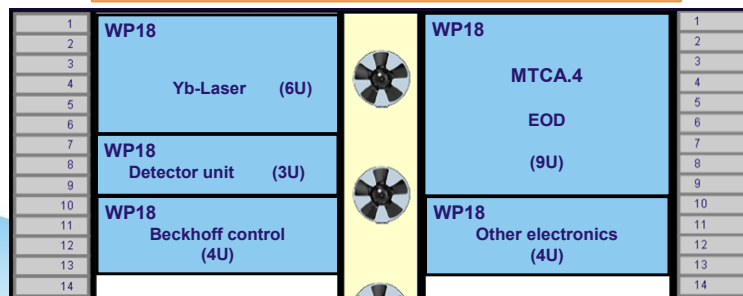
Cabinet **XTIN_I1.S1_R36** at 59,3 m



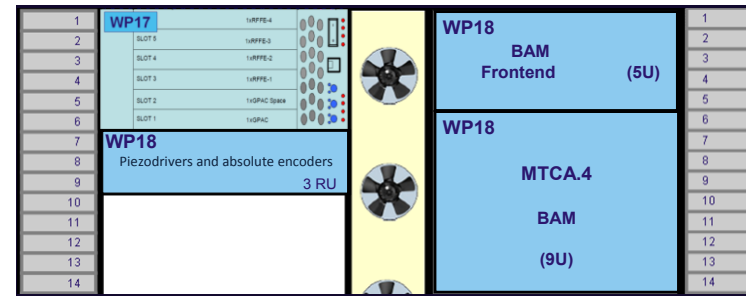
Cabinet **XTIN_I1.S1_R32** at 55,3 m

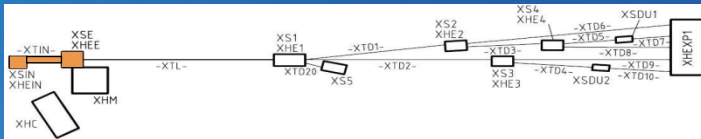


Cabinet **XTIN_I1.S1_R28** at 51,2 m



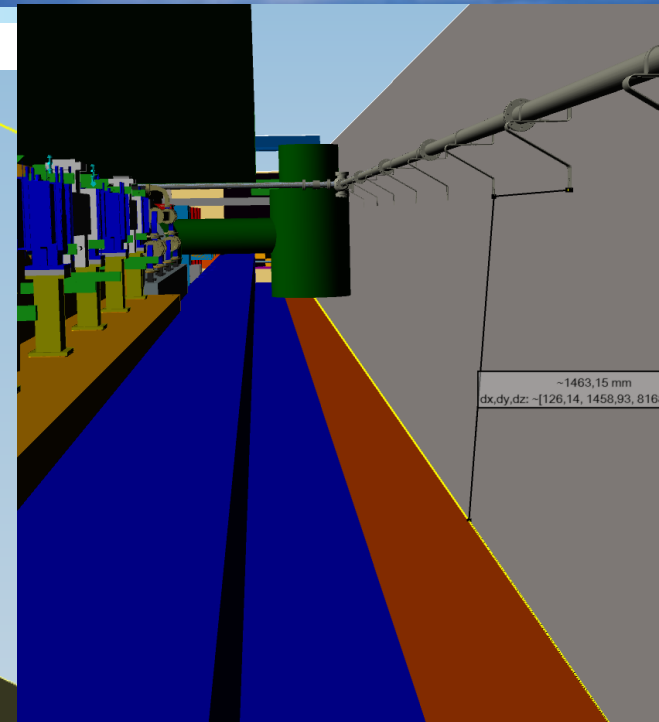
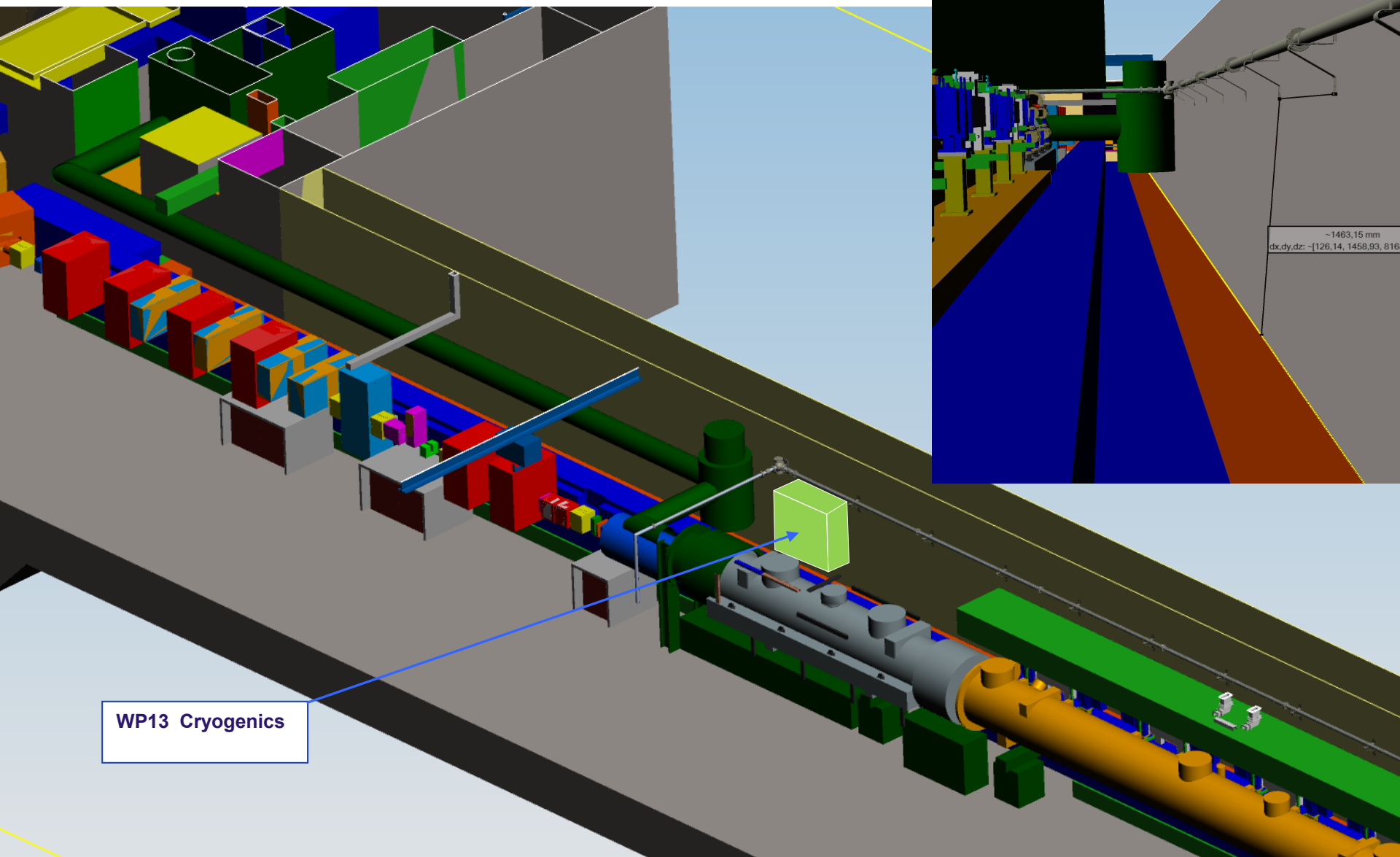
Cabinet **XTIN_I1.S1_R23** at 46,2 m





7 UG (Level -7)

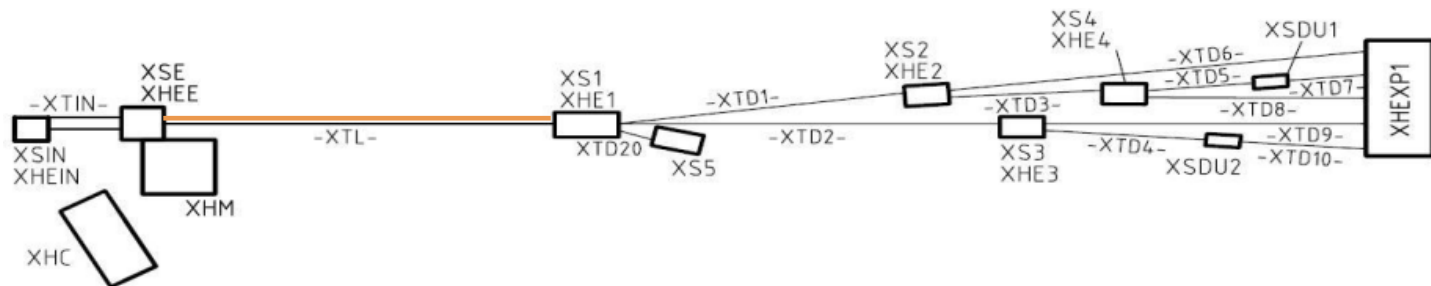
XSIN-XTIN-XSE



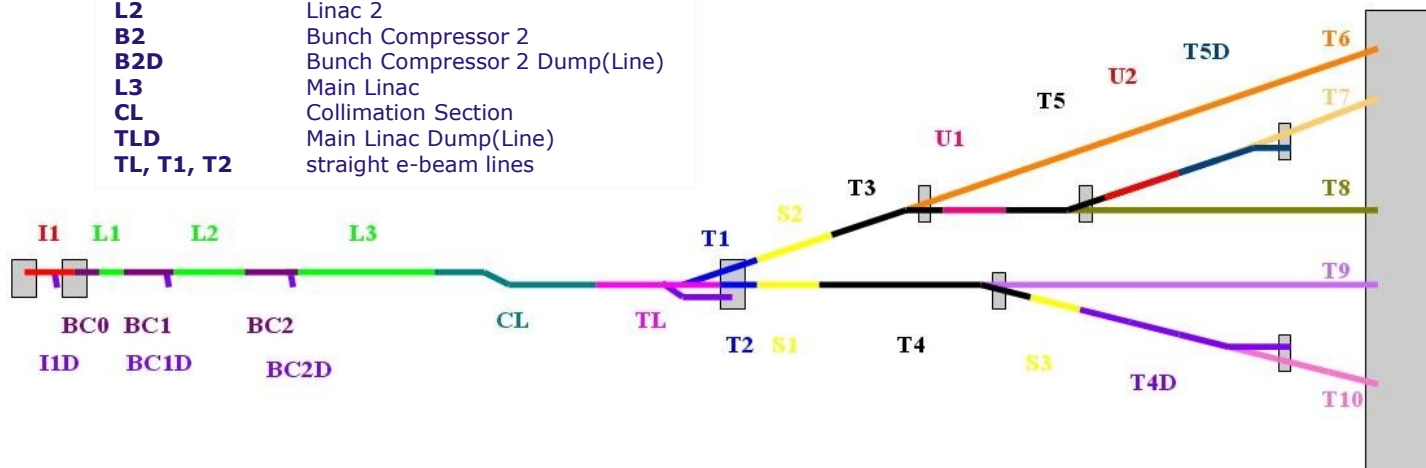
WP13 Cryogenics

XTL Tunnel

89,55 m – 2100,05 m

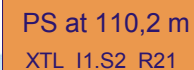
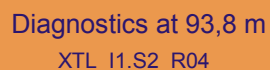


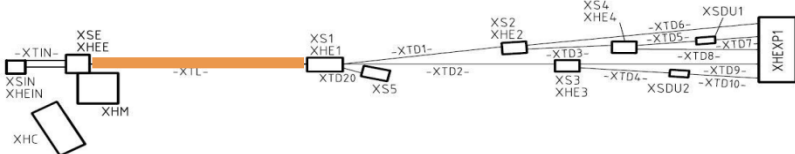
- L1** Linac 1
- B1** Bunch Compressor 1
- B1D** Bunch Compressor 1 Dump(Line)
- L2** Linac 2
- B2** Bunch Compressor 2
- B2D** Bunch Compressor 2 Dump(Line)
- L3** Main Linac
- CL** Collimation Section
- TL** Main Linac Dump(Line)
- TL, T1, T2** straight e-beam lines



Additional information: [XTL Appendix](#)

89,55 m - 141,55 m (L1)



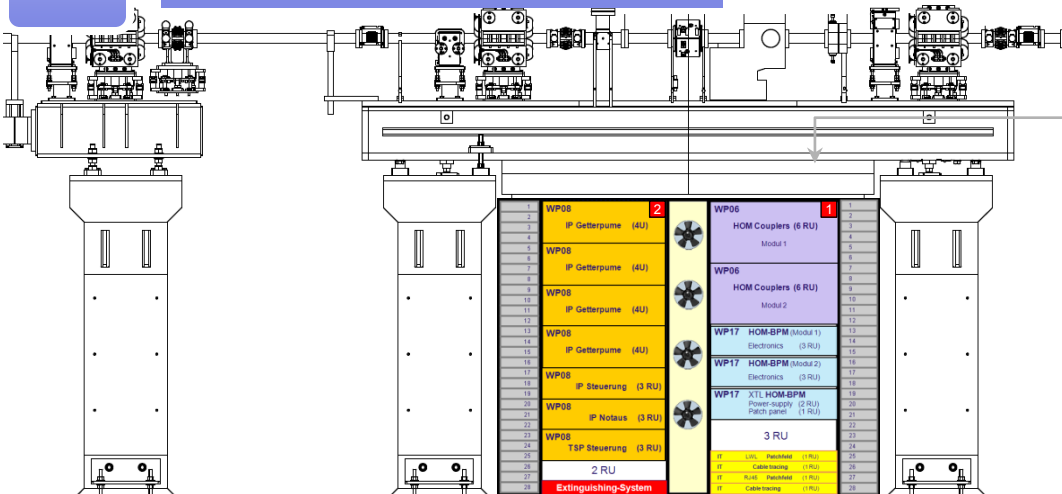


XTL

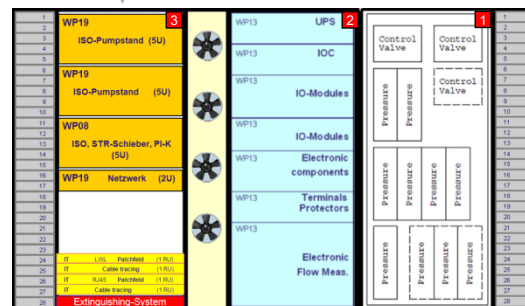
Room 001

001

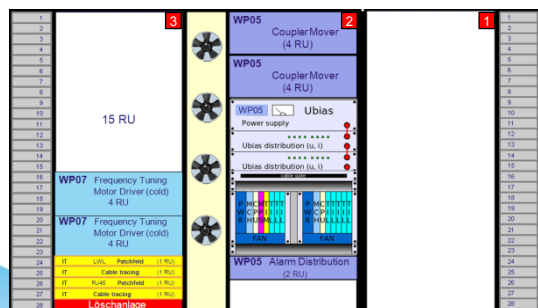
89,55 m - 141,55 m (L1)



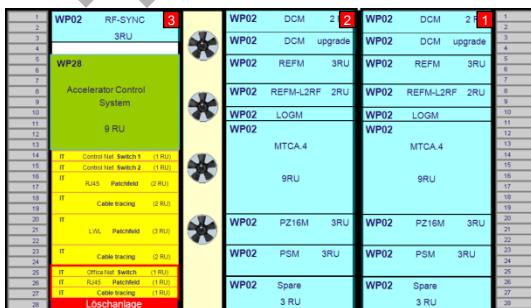
PS/Vacuum at 116,59 m
XTL_11.S2_R27



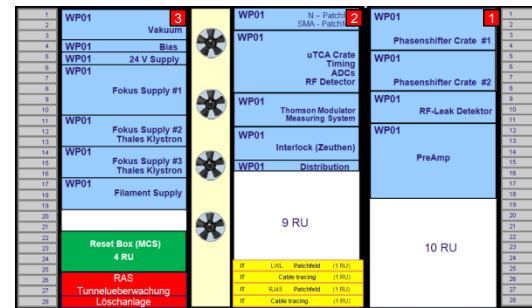
Cryo/Vacuum at 122,88 m
XTL_L1.A2_R01



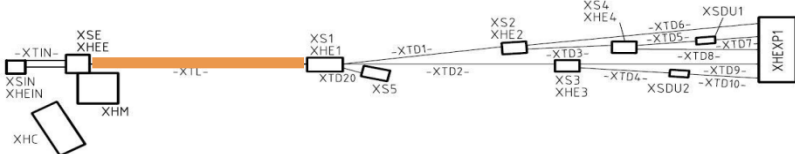
LLRF I at 127,699 m
XTL_L1.A2_R04



LLRF I at 130,549 m
XTL_L1.A2_R07



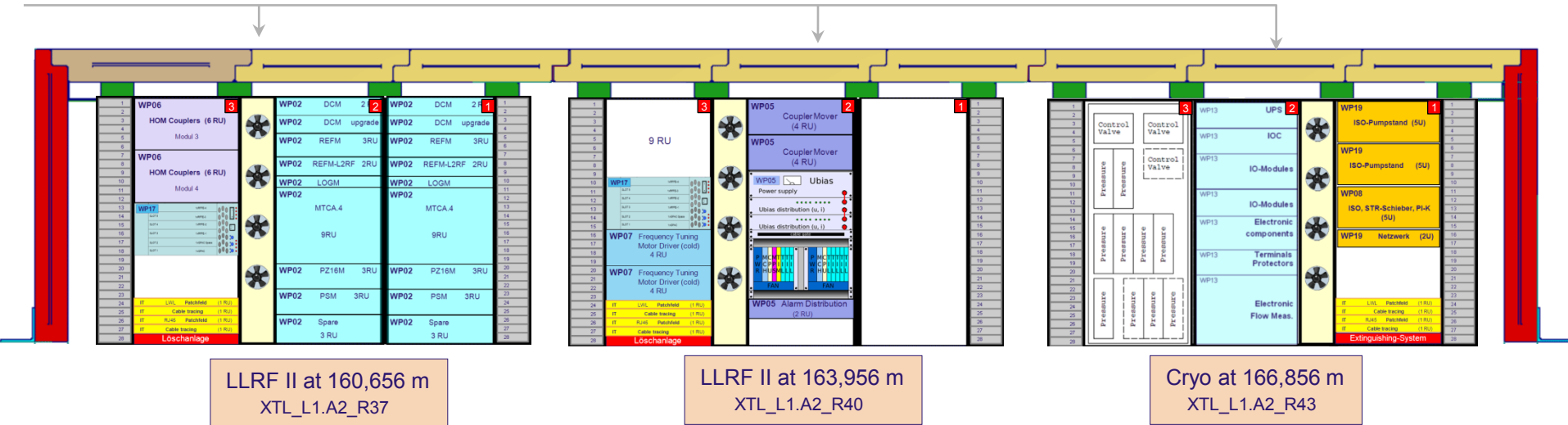
RF at 138,349 m
XTL_L1.A2_R15



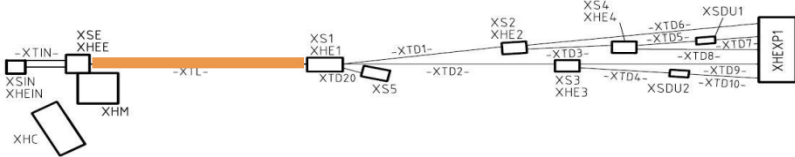
Room 002

002

141,55 m - 193,55 m (L1)



Elektrant 2
170,9 m



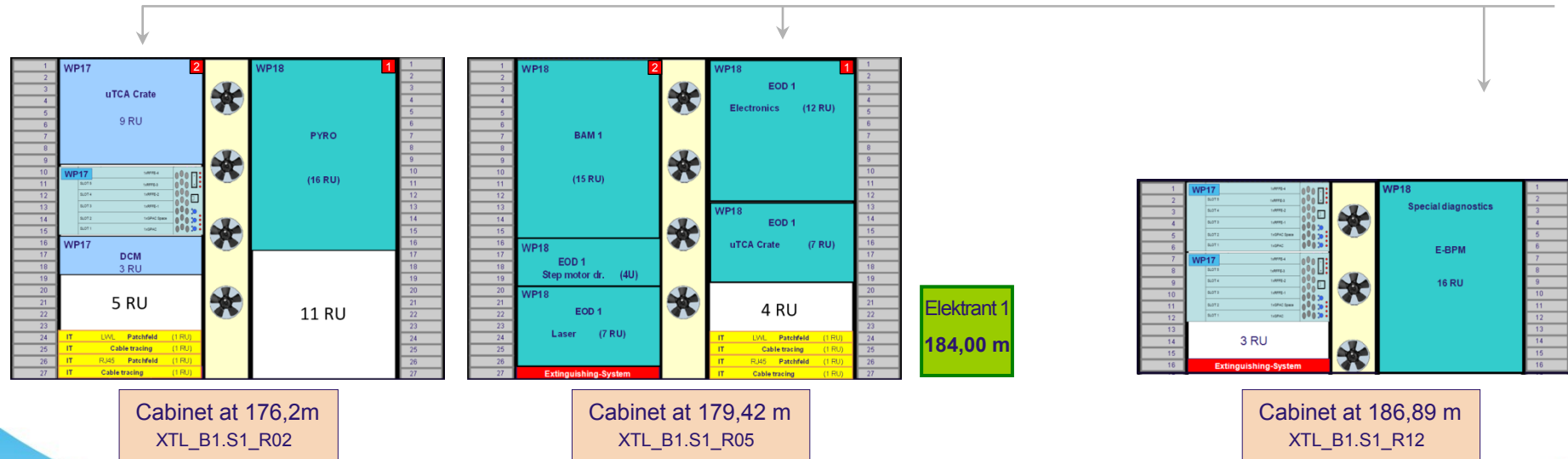
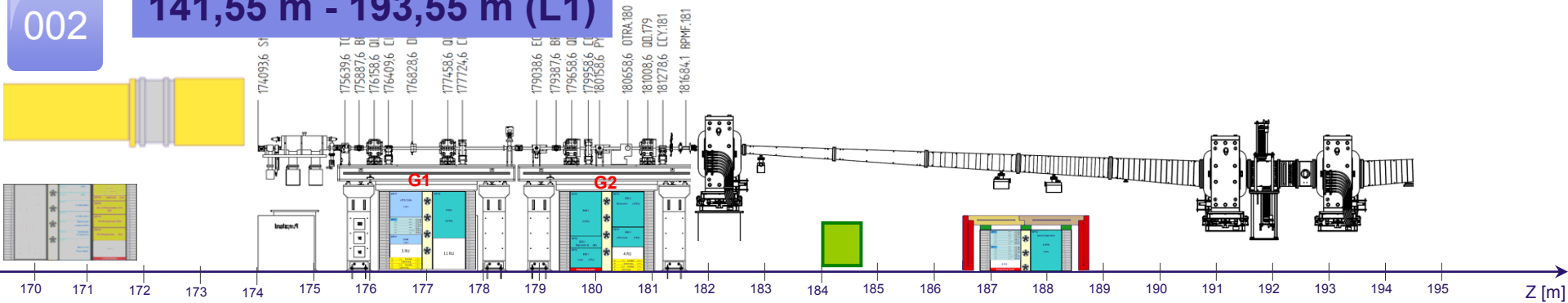
XTL

Room 002 (BC1)

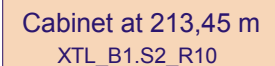
Bunch compressor BC1: 173,49 m – 231,89 m

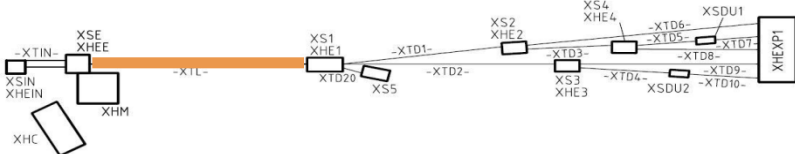
002

141,55 m - 193,55 m (L1)



193,55 m - 245,55 m (L2)





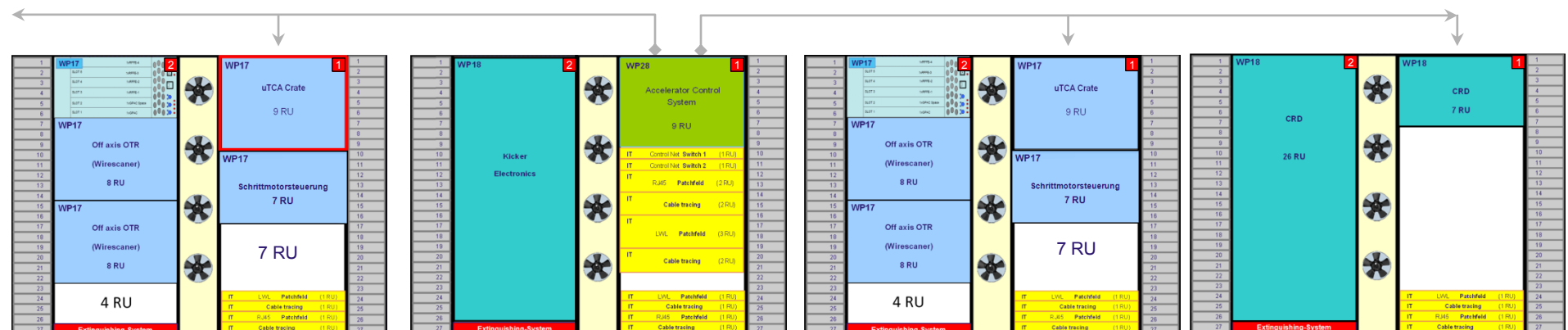
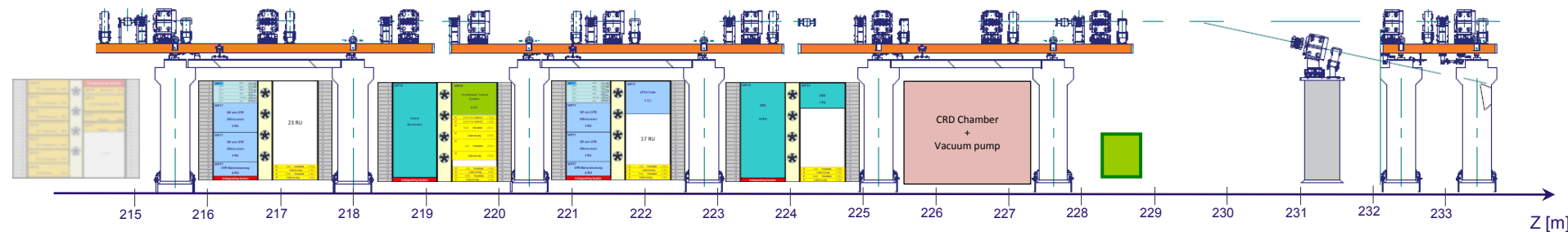
XTL

Room 002 (BC1)

Bunch compressor BC1: 173,49 m – 231,89 m

003

193,55 m - 245,55 m (L2)



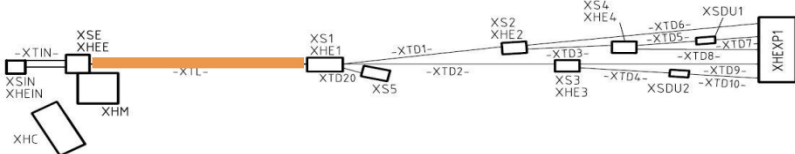
Cabinet at 215,82 m
XTL_B1.S2_R12

Cabinet at 218,28 m
XTL_B1.S2_R15

Cabinet at 220,65m
XTL_B1.S2_R17

Cabinet at 223,07 m
XTL_B1.S2_R20

Elektrant 2
228 m

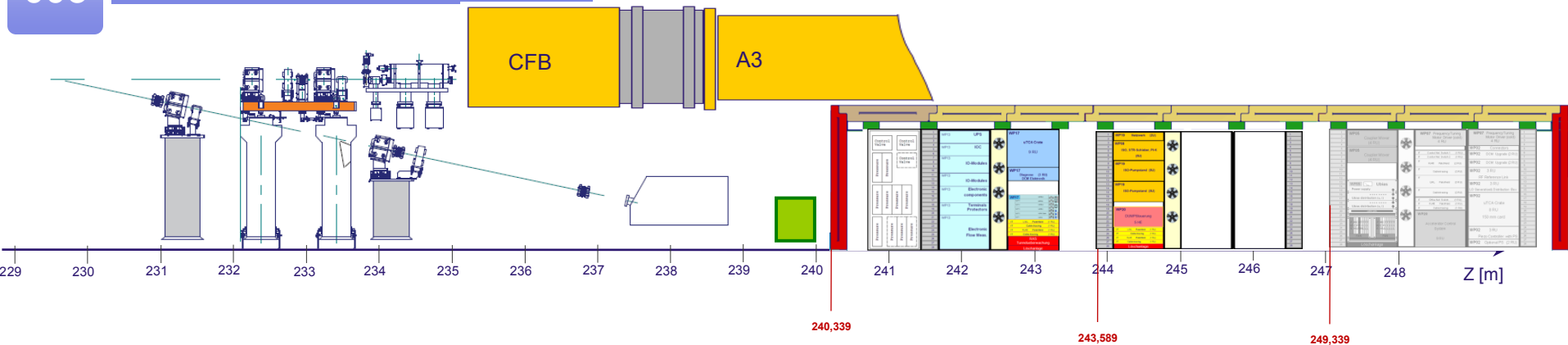


XTL

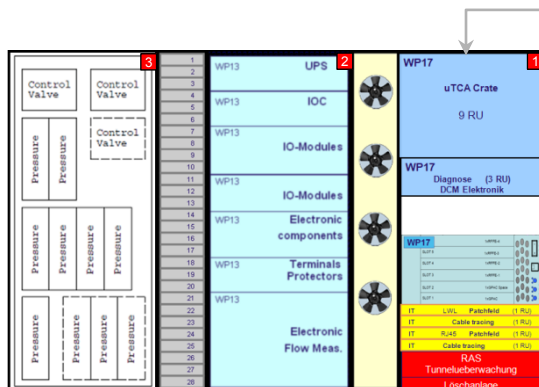
Room 003

003

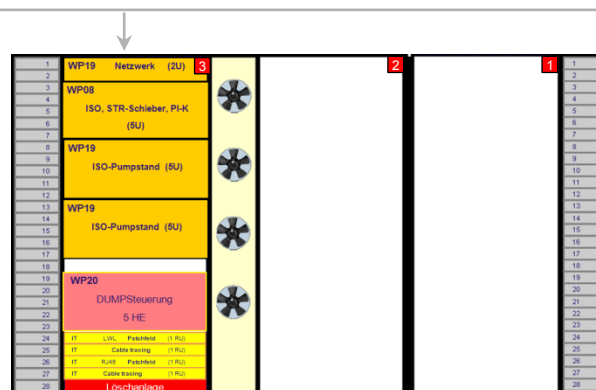
193,55 m - 245,55 m (L2)



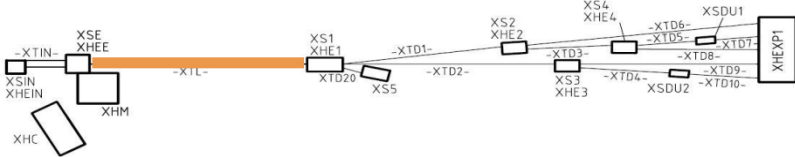
Elektant 1
242,7 m



Cryo at 240,339 m
XTL_L2.A3_R02



Vacuum at 243,589 m
XTL_L2.A3_R05

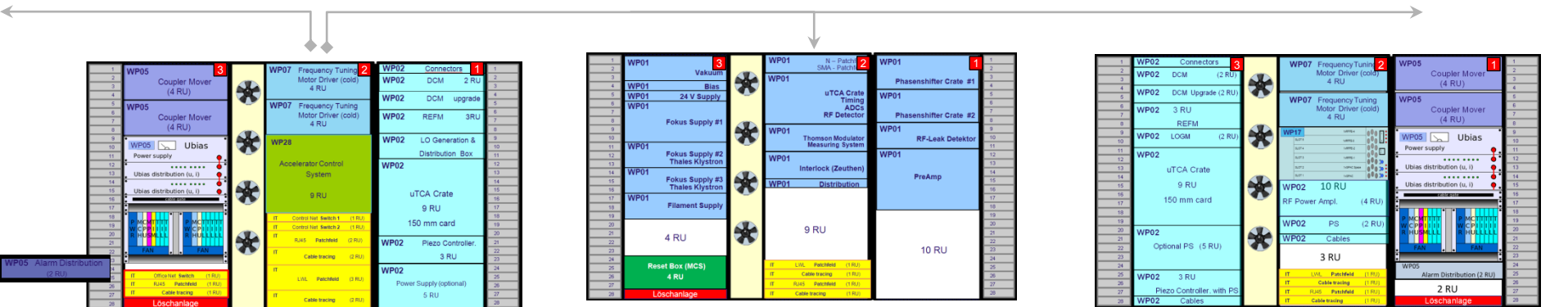


XTL

Room 004

004

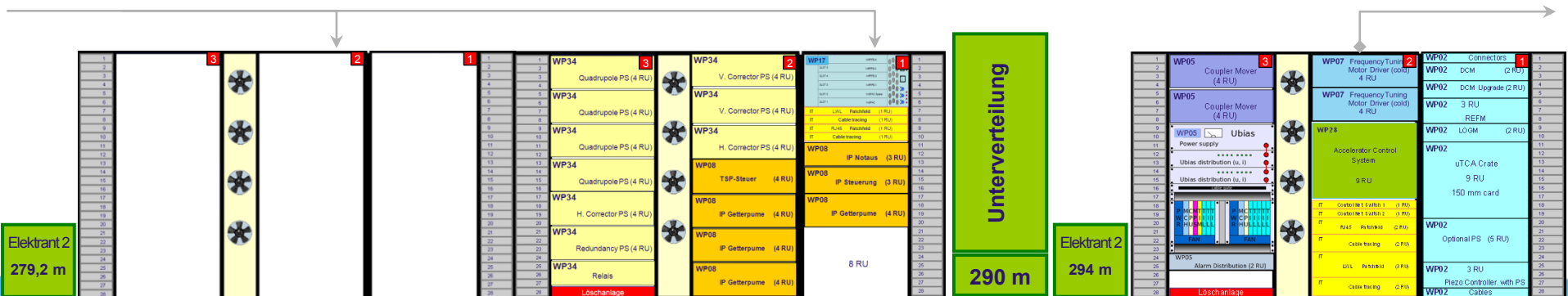
245,55 m - 297,55 m (L2)



LLRF I at 246,439 m
XTL_L2.A3_R08

RF at 253,839 m
XTL_L2.A3_R15

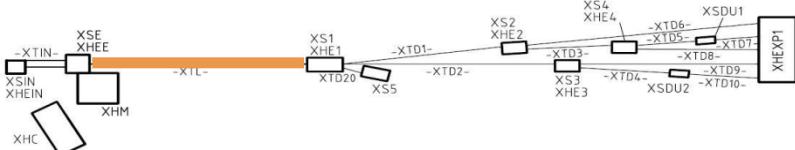
LLRF II at 276,146 m
XTL_L2.A3_R37



Spare at 279,396 m
XTL_L2.A3_R38

PS/Vacuum at 282,246 m
XTL_L2.A3_R43

LLRF I at 294,009 m
XTL_L2.A4_R08

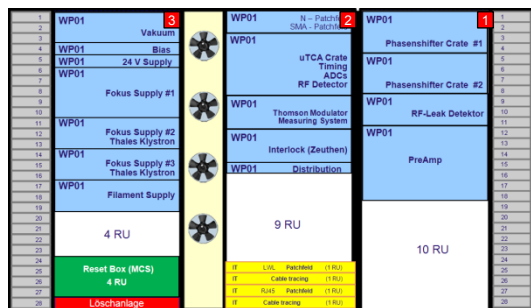


XTL

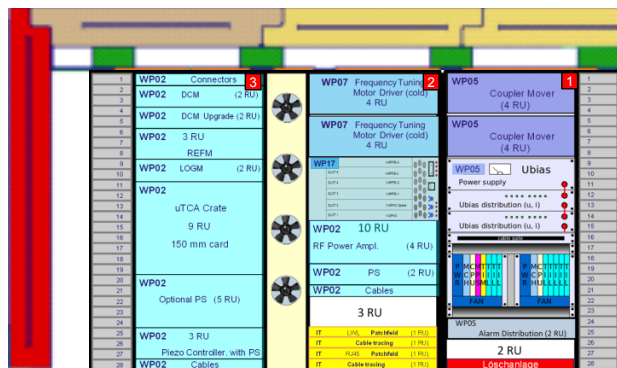
Room 005

005

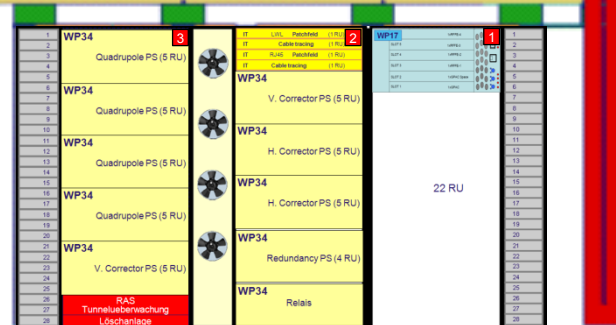
297,55 m - 349,55 m (L2)



RF at 301,809 m
XTL_L2.A4_R15



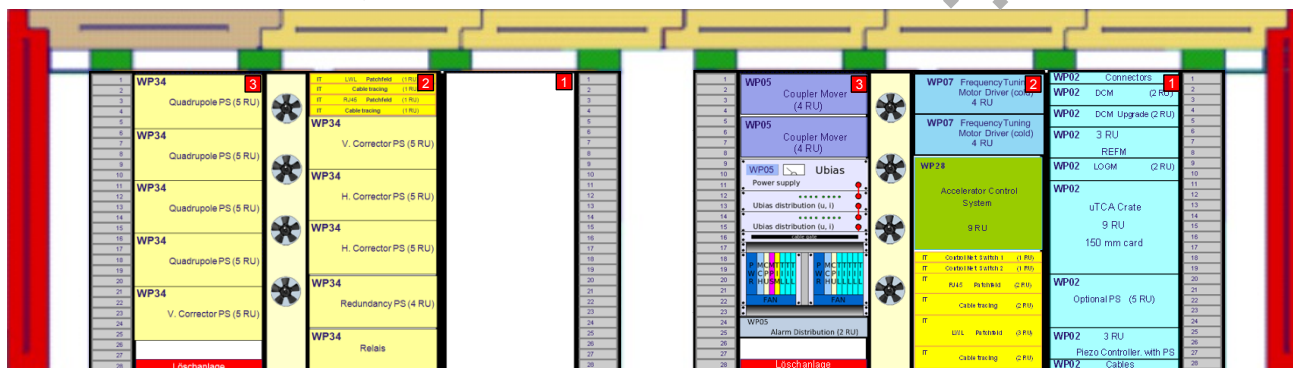
LLRF II at 324,116 m
XTL_L2.A4_R37



PS at 327,366 m
XTL_L2.A4_R40

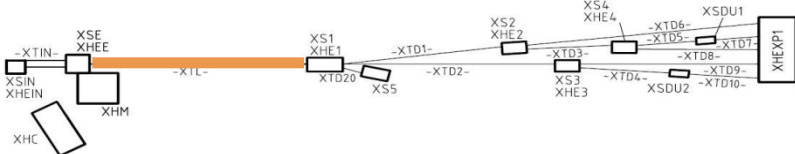
Elektrant 2
327 m

Elektrant 1
342,15



PS at 339,129 m
XTL_L2.A5_R04

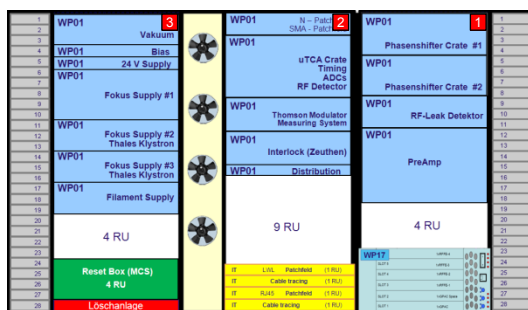
LLRF I at 342,379 m
XTL_L2.A5_R08



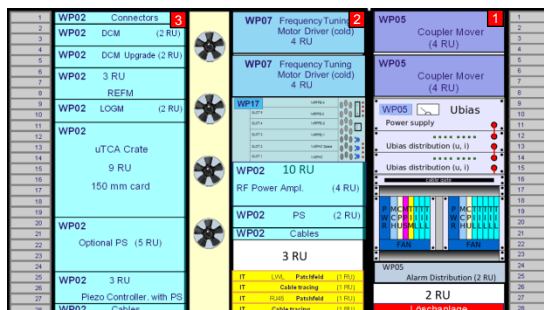
Room 006

006

349,55 m - 401,55 m (L2)

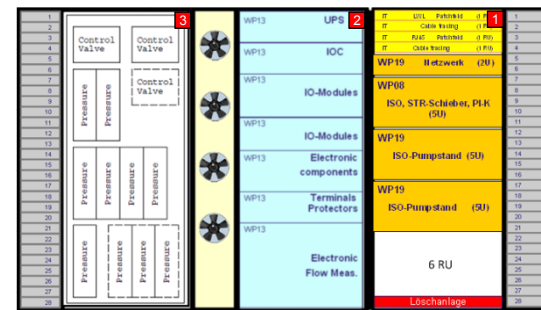


RF at 349,779 m
XTL_L2.A5_R15



LLRF II at 372,086m
XTL_L2.A5_R37

Elektrant 2
375,00



Cryo/Vacuum at 378,98 m
XTL_L2.A5_R44

XTL

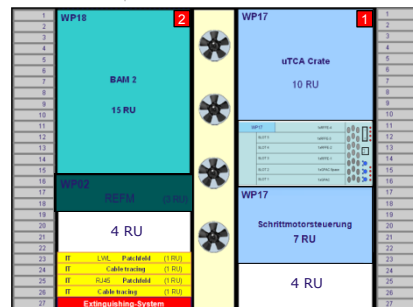
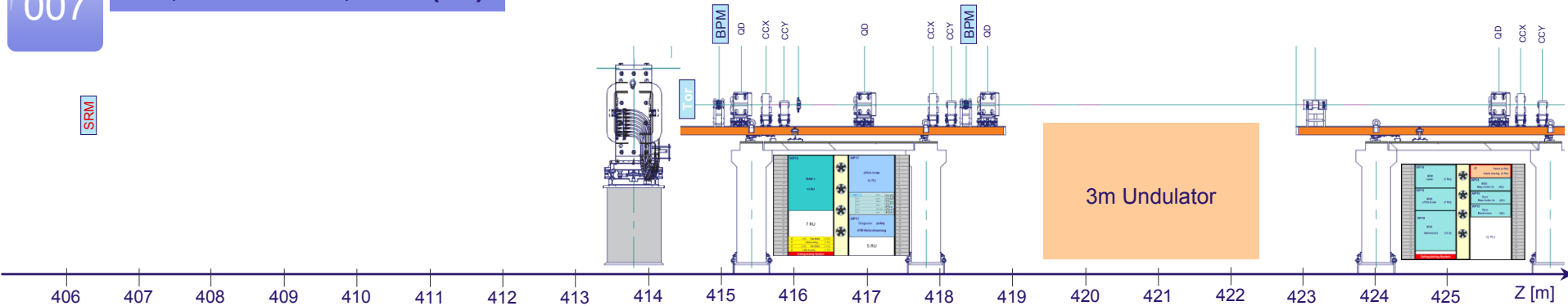
Room 007 (BC2)

Bunch compressor BC2: 386 m – 466 m

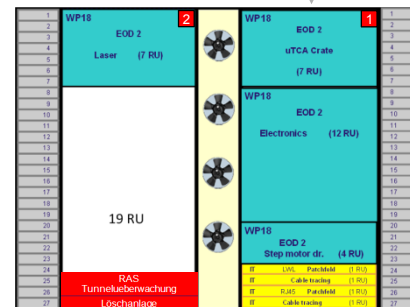
007

401,55 m - 453,55 m (L2)

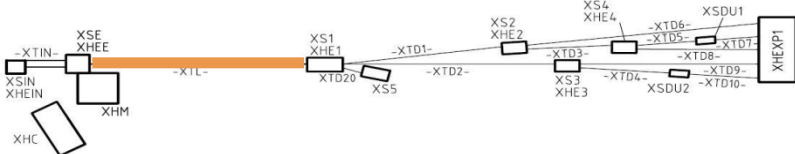
SRM



Cabinet at 415,6 m
XTL_B2.S2_R01



Cabinet at 424,31 m
XTL_B2.S2_R10



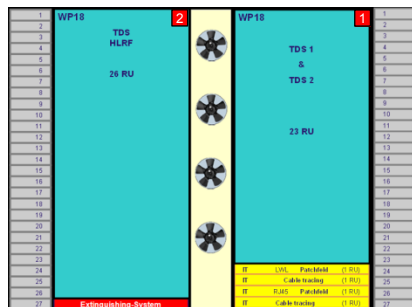
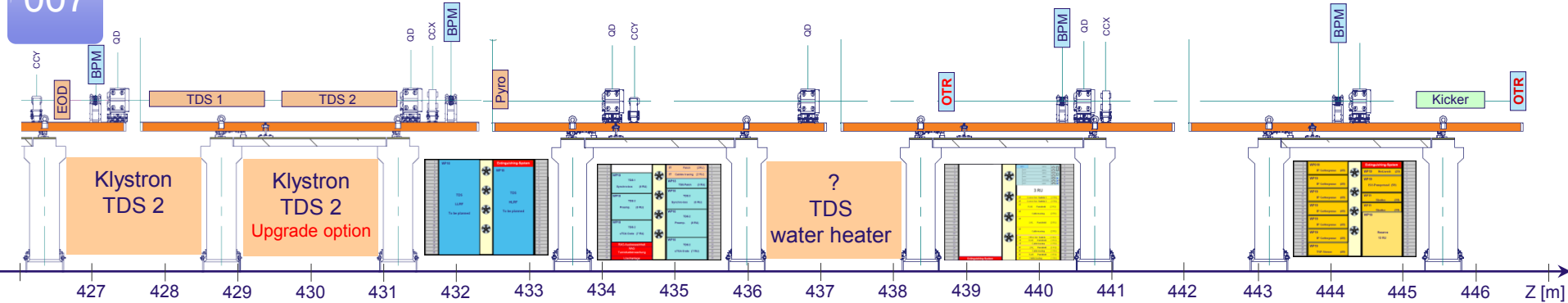
XTL

Room 007 (BC2)

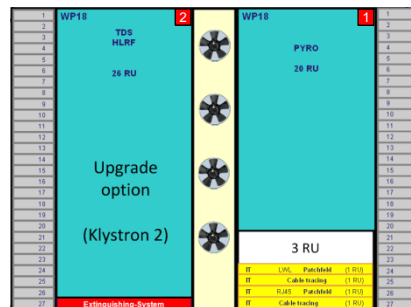
Bunch compressor BC2: 386 m – 466 m

007

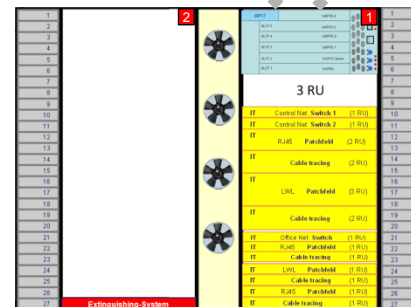
401,55 m - 453,55 m (L2)



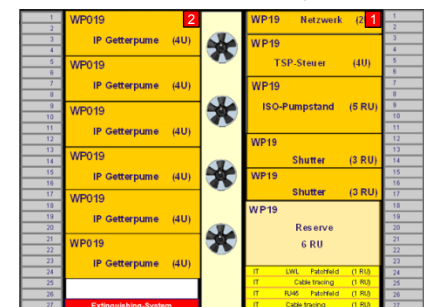
Cabinet at 431,41 m
XTL_B2.S2_R17



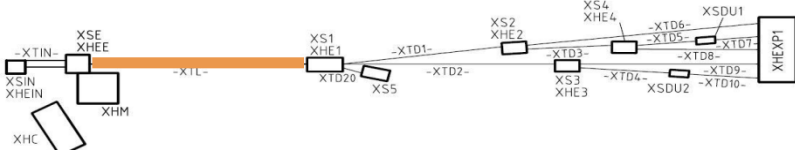
Cabinet at 433,81 m
XTL_B2.S2_R19



Cabinet at 438,61 m
XTL_B2.S2_R24



Cabinet at 443,46 m
XTL_B2.S2_R29



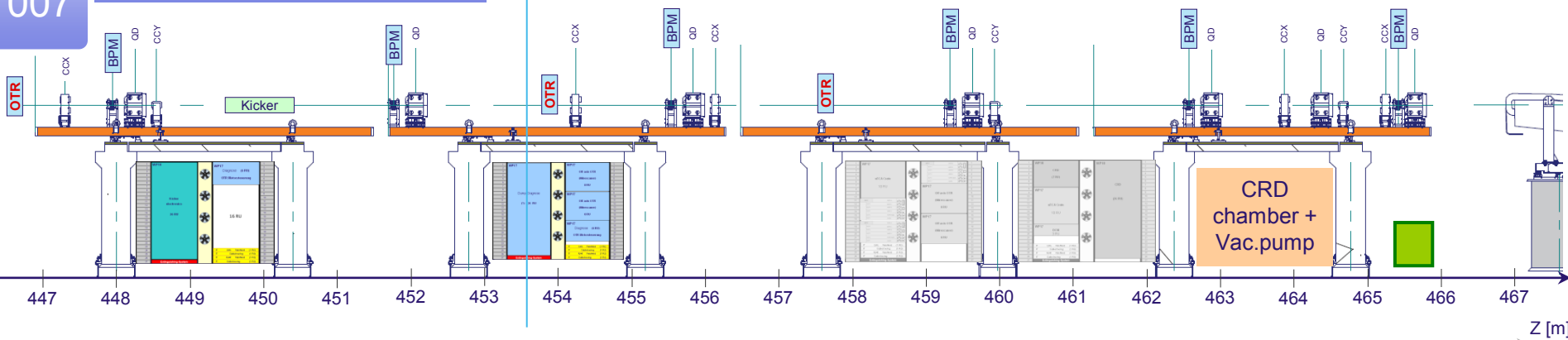
XTL

Room 007 (BC2)

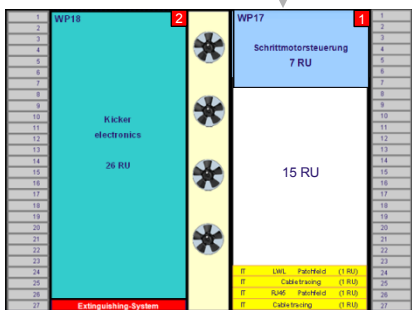
Bunch compressor BC2: 386 m – 466 m

007

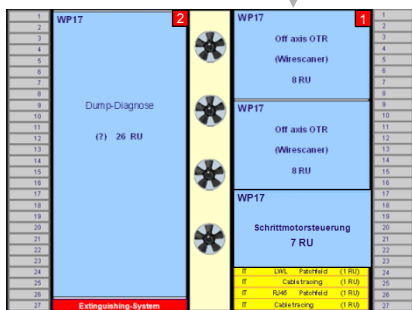
401,55 m - 453,55 m (L2)



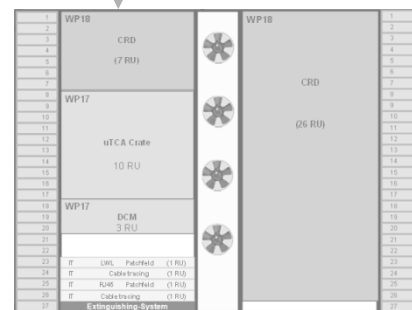
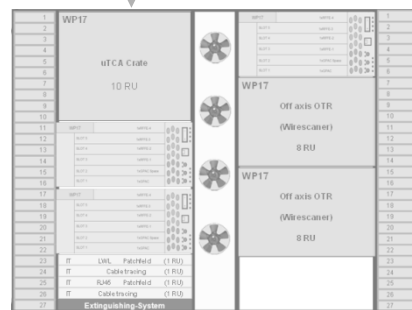
Z [m]



Cabinet at 448,26 m
XTL_B2.S2_R34



Cabinet at 453,06 m
XTL_B2.S2_R39

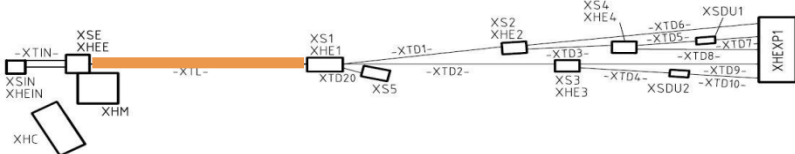


Elektrant 1
465,4

Z [m]



Cabinet at 460,24 m
XTL B2.S2 R46

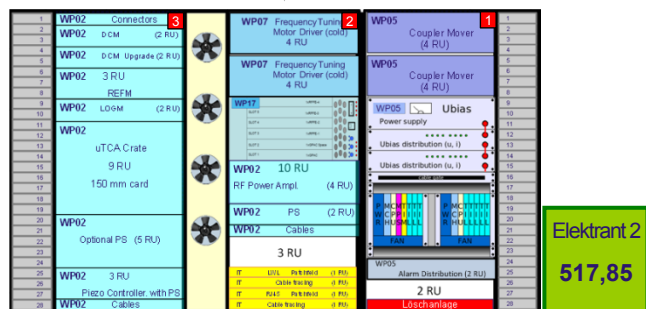


XTL

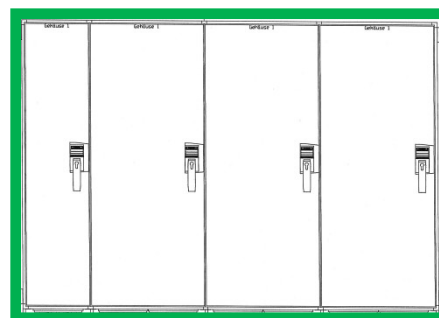
Room 009

009

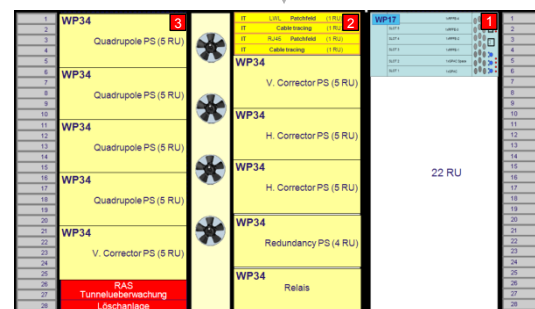
505,55 m - 557,55 m (L3)



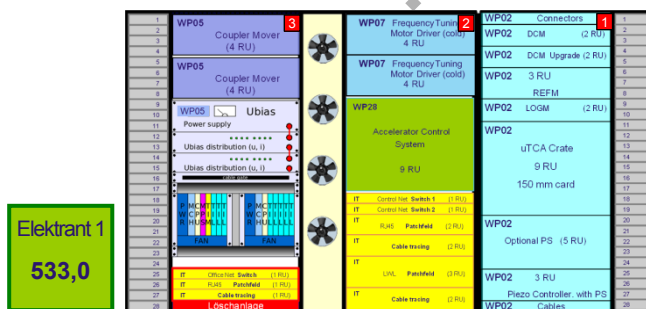
LLRF II at 514,96 m
XTL_L3.A6_R37



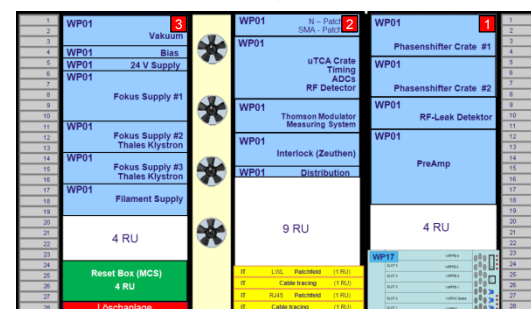
Unterverteilung 519,2 m



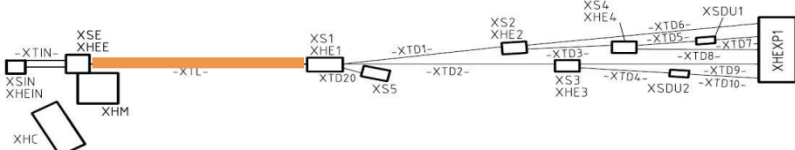
PS at 521,82 m
XTL_L3.A6_R44



LLRF I at 532,789 m
XTL_L3.A7_R07



RF at 540,545 m
XTL_L3.A7_R15

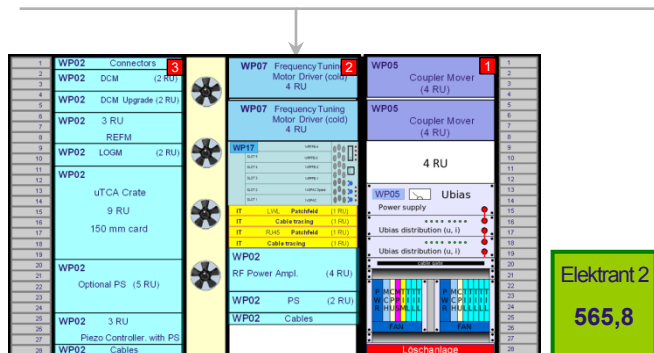


XTL

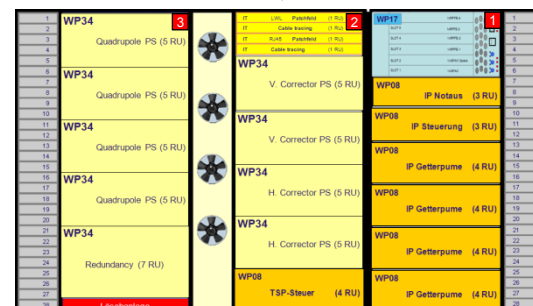
Room 010

010

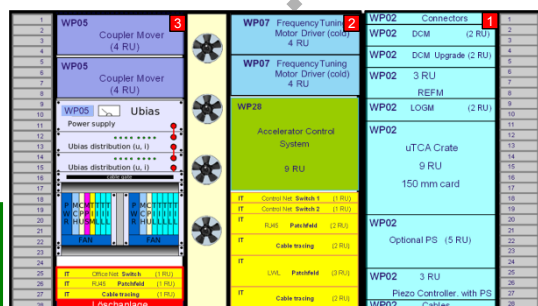
557,55 m - 609,55 m (L3)



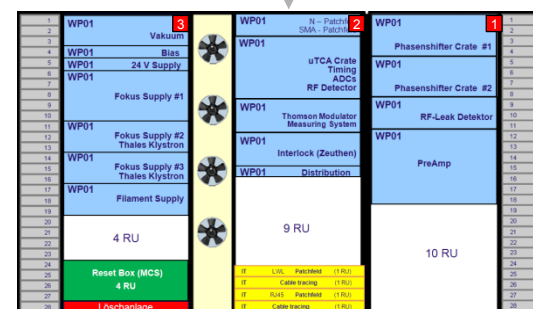
LLRF II at 562,896 m
XTL_L3.A7_R37



PS at 569,79 m
XTL_L3.A7_R44



LLRF I at 580,759 m
XTL_L3.A8_R07

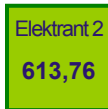
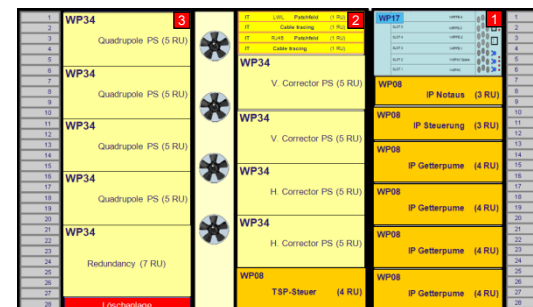


RF at 588,559 m
XTL_L3.A8_R15



609,55 m - 661,55 m (L3)

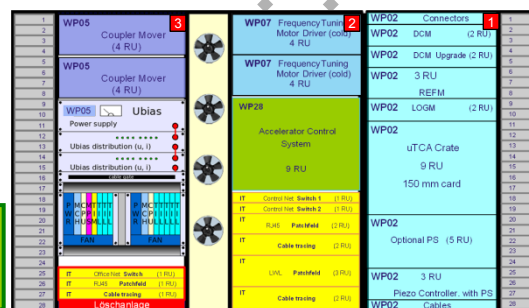
PS / Vacuum at 617,76 m

LLRF II at 610,866 m
XTL L3.A8 R37

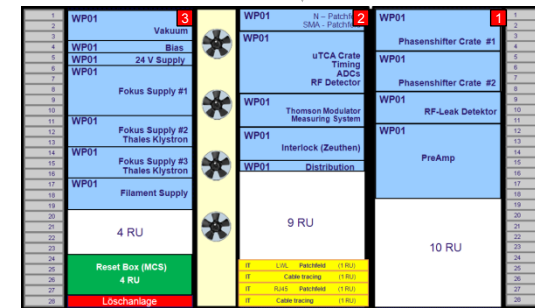
PS at 617,758m
XTL L3.A8 R44



Cryo at 624,05 m
XTL L3.A9 R01



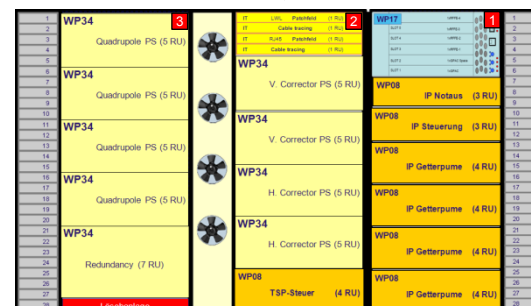
LLRF I at 631,719 m
XTL L3.A9 R07



RF at 639,519 m
XTL L3.A9 R15

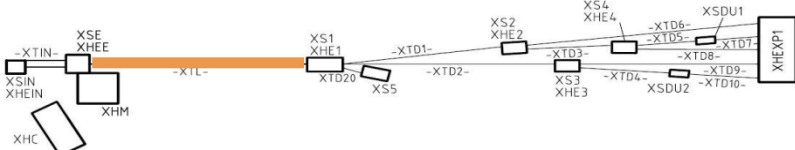


661,55 m - 713,55 m (L3)



PS at 668,718 m
XTL L3.A9 R44





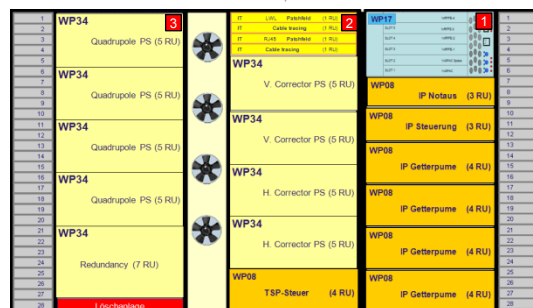
Room 013

013

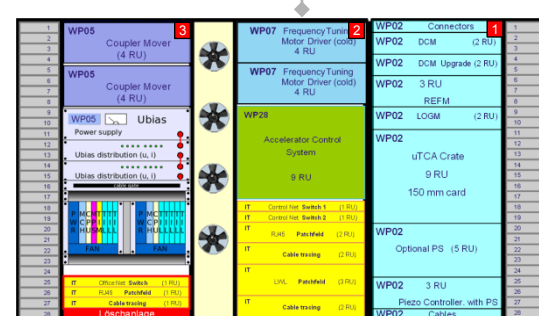
713,55 m - 765,55 m (L3)



Unterverteilung, 714,60 m

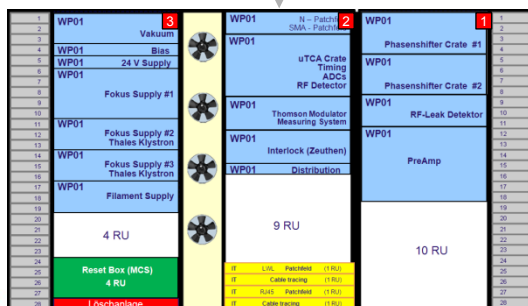


PS at 716,688 m
XTL_L3.A10_R44

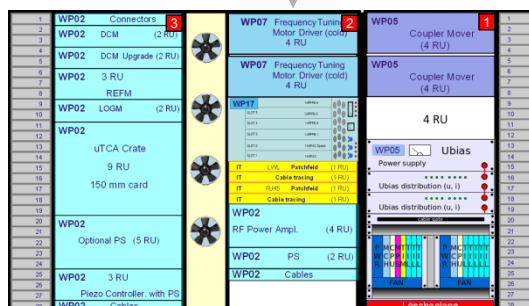


LLRF I at 727,659 m
XTL_L3.A11_R07

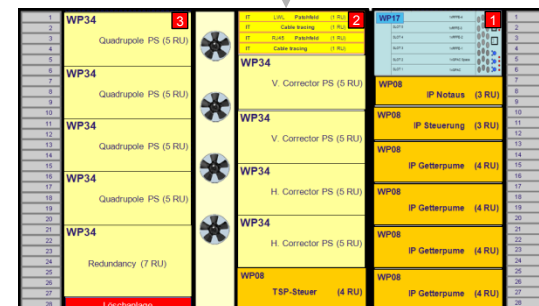
Elektrant 1
727,95



RF at 735,459 m
XTL_L3.A11_R15

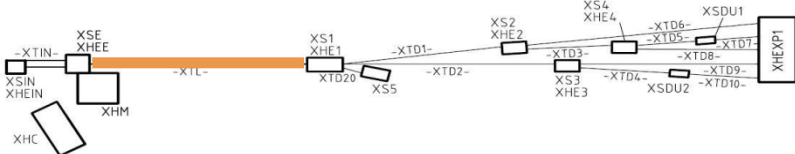


LLRF II at 757,766 m
XTL_L3.A11_R37



Elektrant 2
760,65

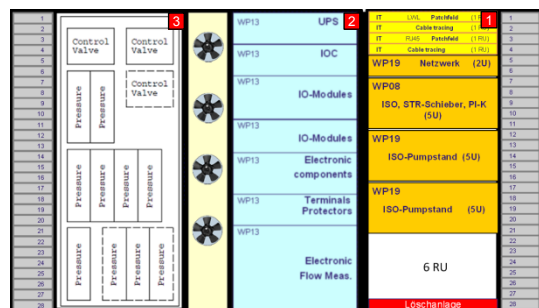
PS at 764,658 m
XTL_L3.A11_R44



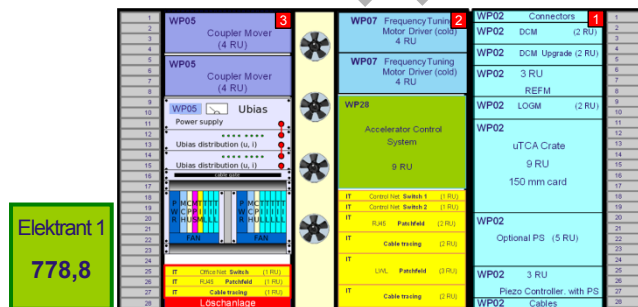
Room 014

014

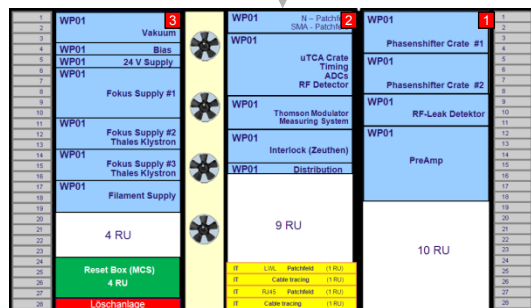
765,55 m - 817,55 m (L3)



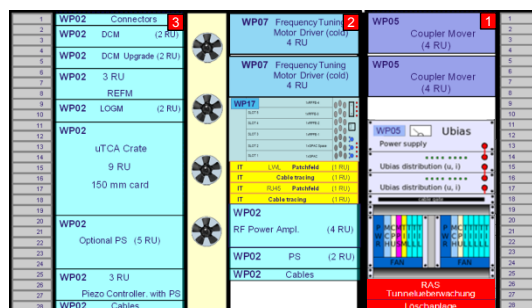
Cryo at 770,95 m
XTL_L3.A12_R01



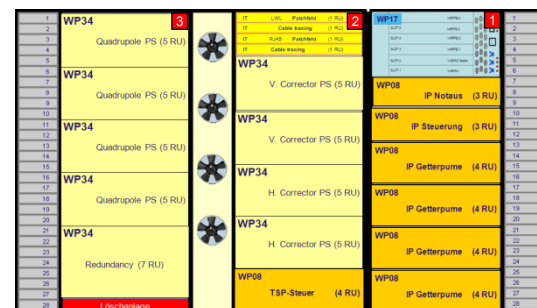
LLRF I at 778,619 m
XTL_L3.A12_R07



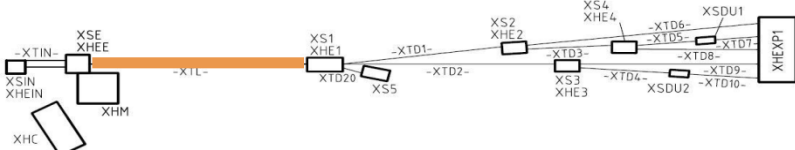
RF at 786,419 m
XTL_L3.A12_R15



LLRF II at 808,726 m
XTL_L3.A12_R37



PS at 815,618 m
XTL_L3.A12_R44

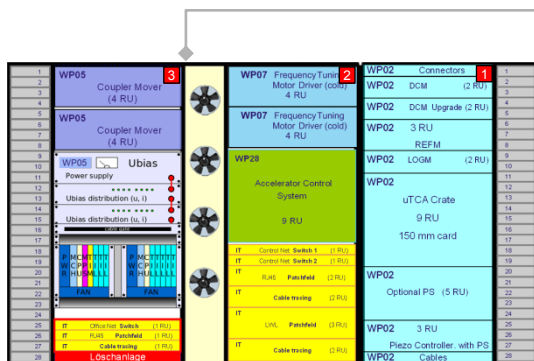


XTL

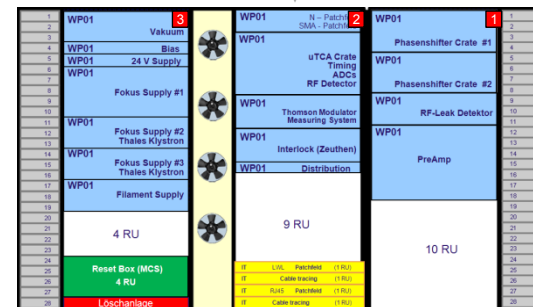
Room 015

015

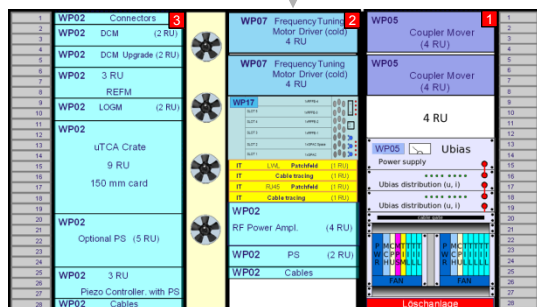
817,55 m - 869,55 m (L3)



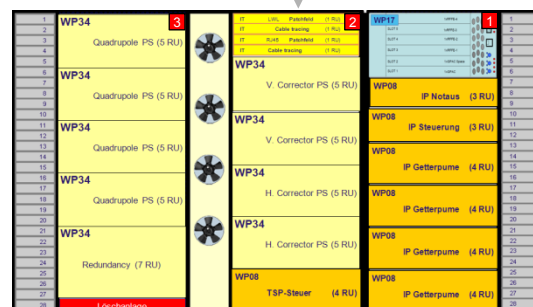
LLRF I at 826,589 m
XTL_L3.A13_R07



RF at 834,389 m
XTL_L3.A13_R15



LLRF II at 856,696 m
XTL_L3.A13_R37



PS at 863,588 m
XTL_L3.A13_R44

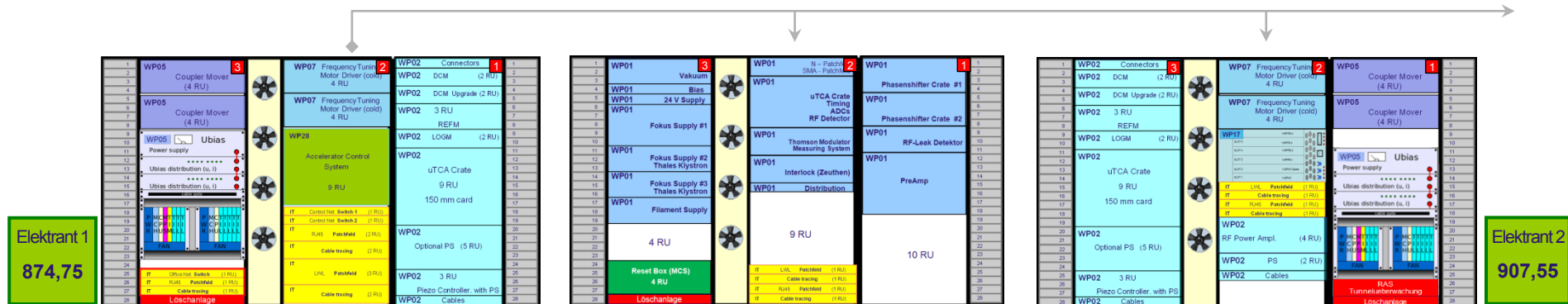
Elektrant 2
859,6

XTL

Room 016

016

869,55 m - 921,55 m (L3)



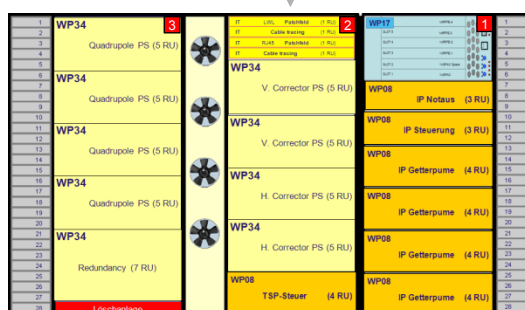
LLRF I at 874,549 m
XTL L3.A14 R07

RF at 882,349 m
XTL L3.A14 R15

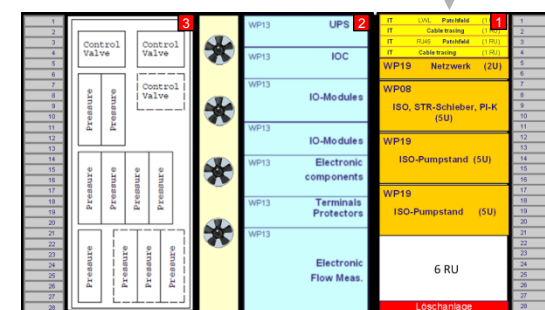
LLRF II at 904,656 m
XTL L3.A14 R37



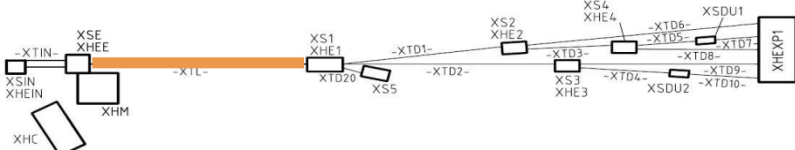
Unterverteilung, 909,02 m



PS at 911,548 m
XTL L3.A14 R44



Cryo at 917,85 m
XTL_L3.A15_R01

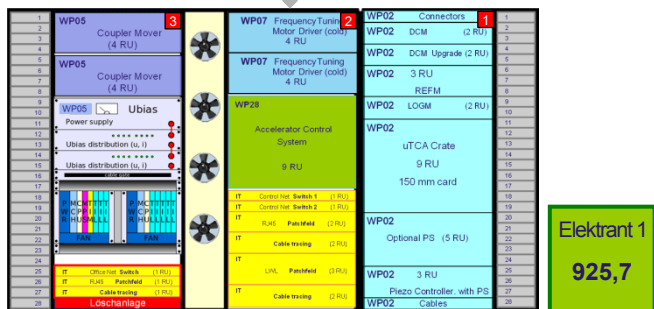


XTL

Room 017

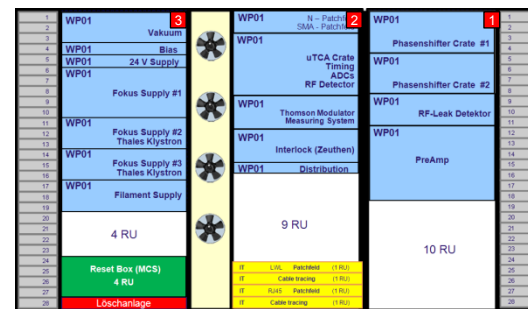
017

921,55 m - 973,55 m (L3)



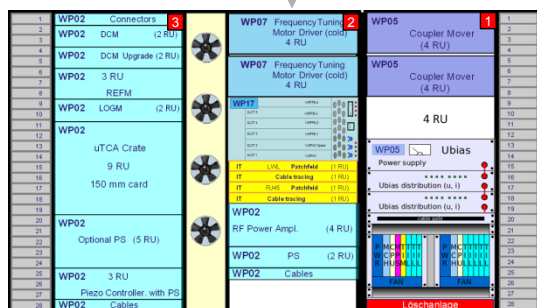
LLRF I at 925,519 m

XTL_L3.A15_R07



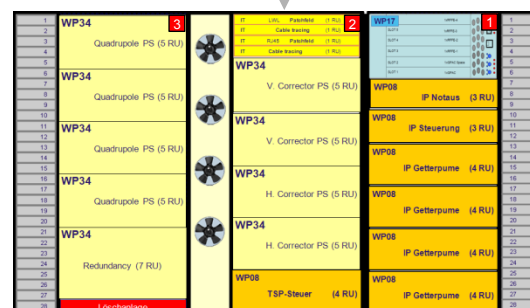
RF at 933,319 m

XTL_L3.A15_R15



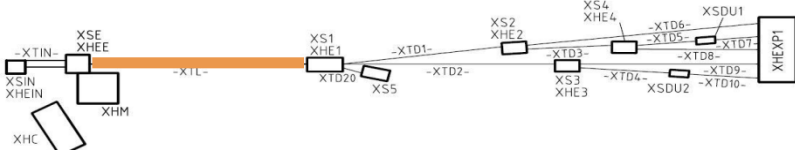
LLRF II at 955,626 m

XTL_L3.A15_R37



PS at 962,518 m

XTL_L3.A15_R44

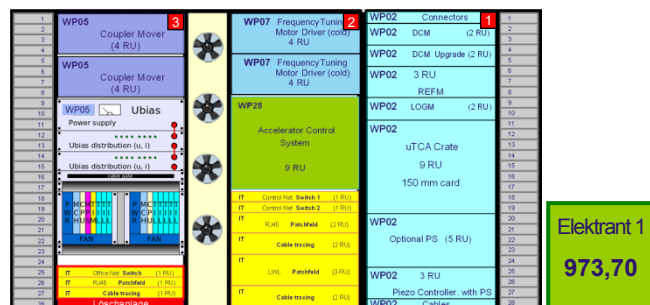


XTL

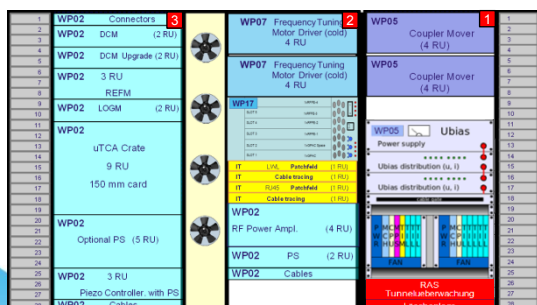
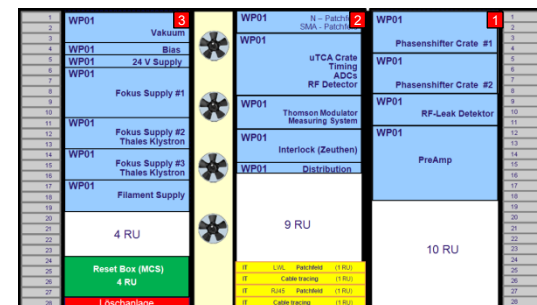
Room 018

018

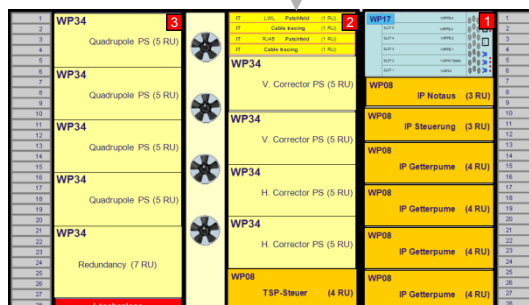
973,55 m - 1025,55 m (L3)



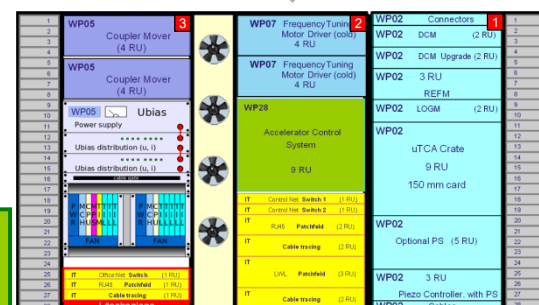
LLRF I at 973,489 m
XTL_L3.A16_R07

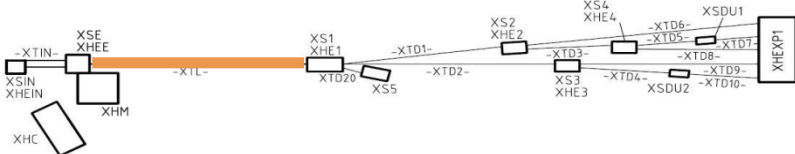


LLRF II at 1003,596 m
XTL_L3.A16_R37



Elektrant 1
1021,6



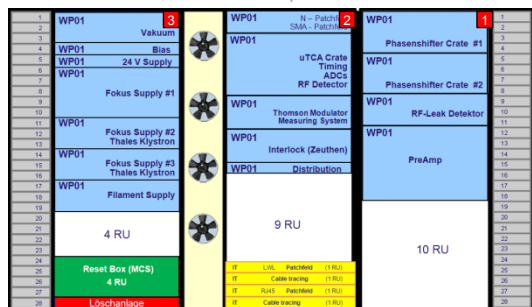


XTL

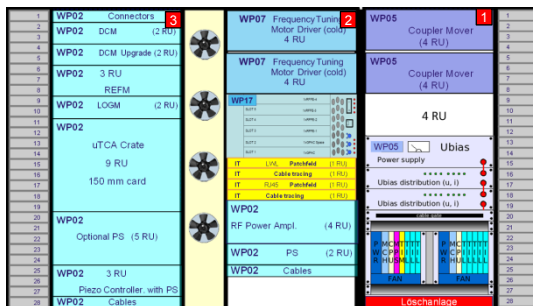
Room 019

019

1025,55 m - 1077,55 m (L3)

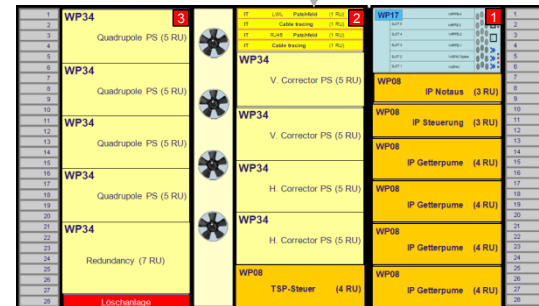


RF at 1029,249 m
XTL_L3.A17_R15

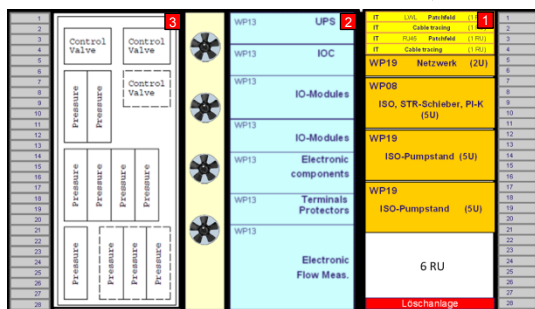


LLRF II at 1051,556 m
XTL_L3.A17_R37

Elektrant 2
1054,5

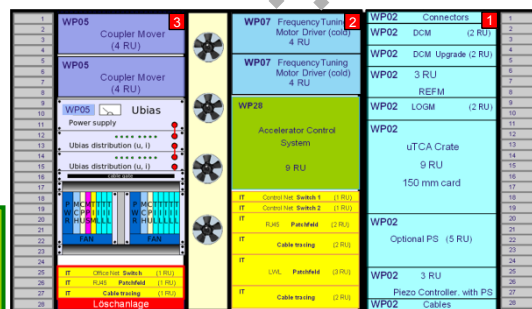


PS at 1058,448 m
XTL_L3.A17_R44

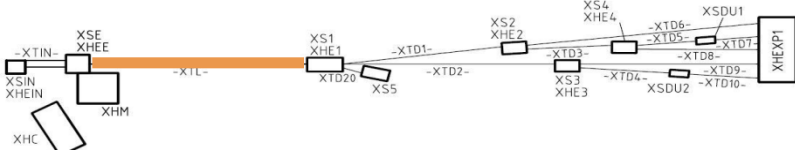


Cryo at 1064,75 m
XTL_L3.A17_R01

Elektrant 1
1072,6



LLRF I at 1072,419 m
XTL_L3.A18_R07

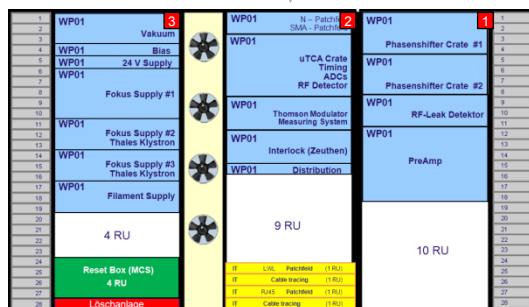


XTL

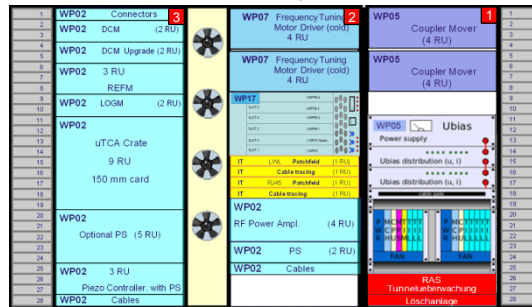
Room 020

020

1077,55 m - 1129,55 m (L3)

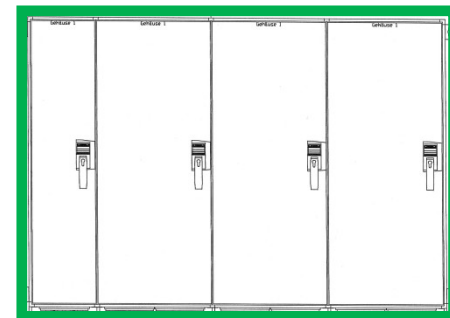


RF at 1080,219 m
XTL_L3.A18_R15

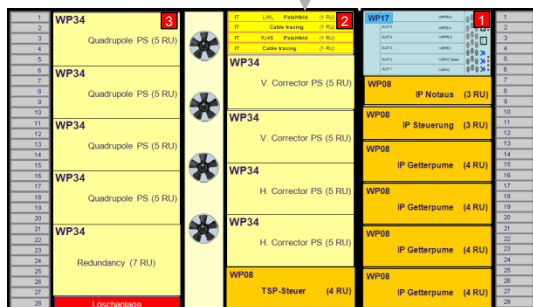


LLRF II at 1102,526 m
XTL_L3.A18_R37

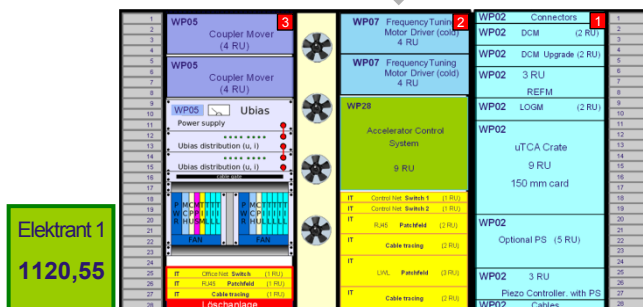
Elektrant 2
1105,45



Unterverteilung, 1106.90 m

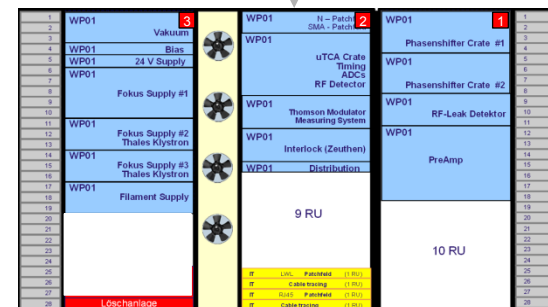


PS at 1109,418 m
XTL_L3.A18_R44



Elektrant 1
1120,55

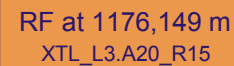
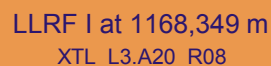
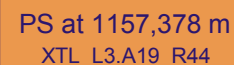
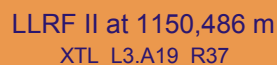
LLRF I at 1120,379 m
XTL_L3.A19_R08



RF at 1128,179 m
XTL_L3.A19_R15

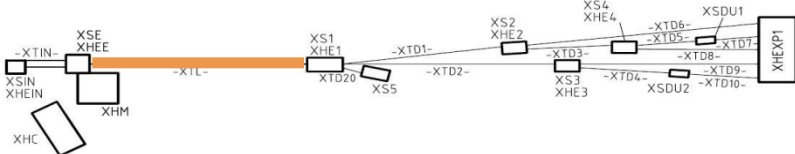


1129,55 m - 1181,55 m (L3)



1181,55 m - 1233,55 m (L3)



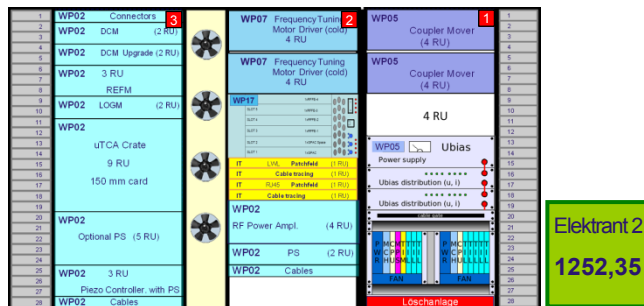


XTL

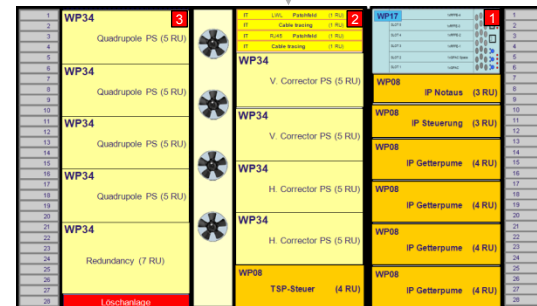
Room 023

023

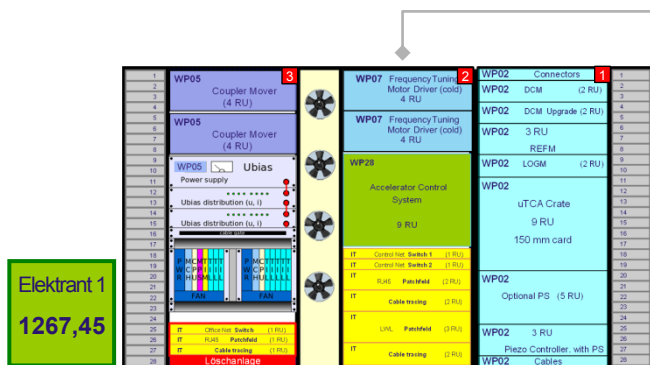
1233,55 m - 1285,55 m (L3)



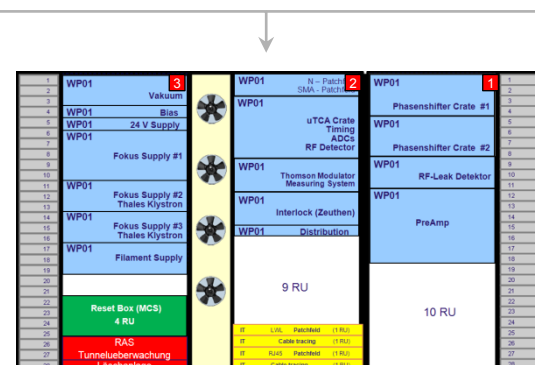
LLRF II at 1249,426 m
XTL_L3.A21_R37



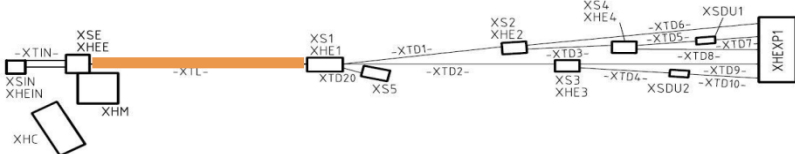
PS at 1256,318 m
XTL_L3.A21_R44



LLRF I at 1267,279 m
XTL_L3.A22_R08



RF at 1275,079 m
XTL_L3.A22_R15

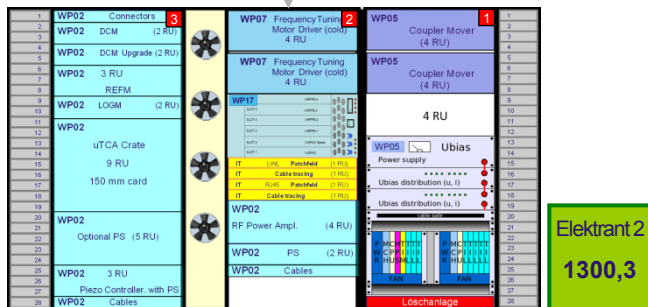


XTL

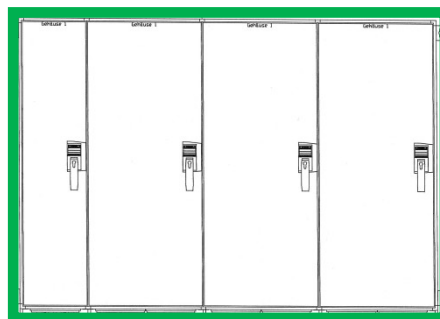
Room 024

024

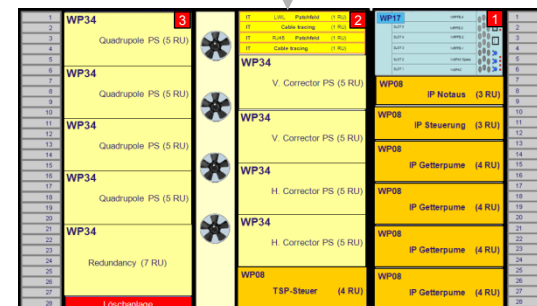
1285,55 m - 1337,55 m (L3)



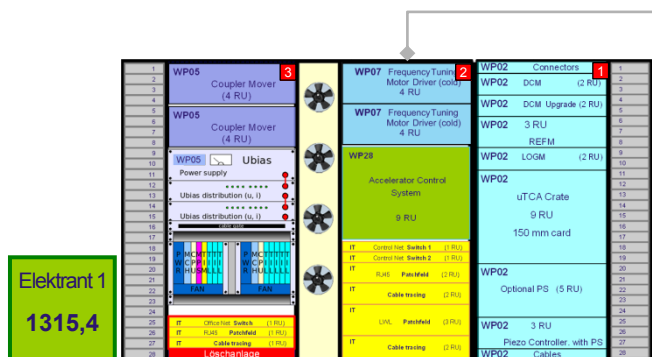
LLRF II at 1297,386 m
XTL_L3.A22_R37



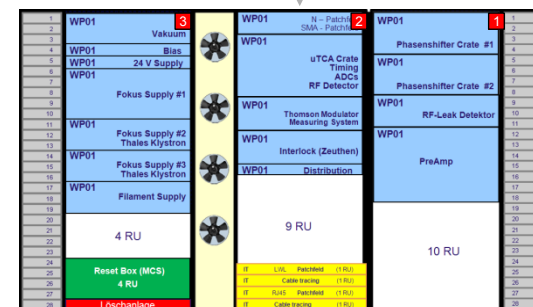
Unterverteilung, 1301.75 m



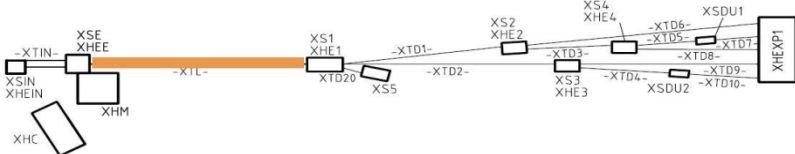
PS at 1304,278 m
XTL_L3.A22_R44



LLRF I at 1315,249 m
XTL_L3.A23_R08



RF at 1323,049 m
XTL_L3.A23_R15

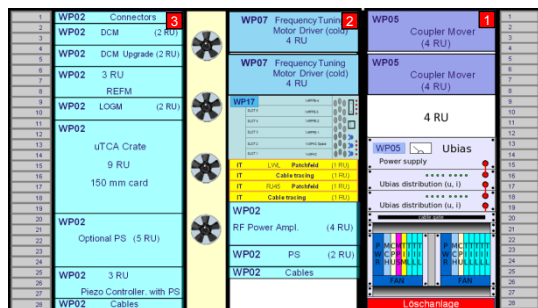


XTL

Room 025

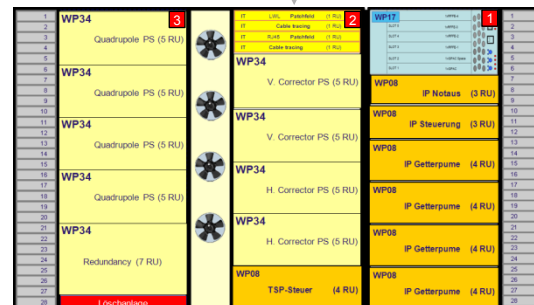
025

1337,55 m - 1389,55 m (L3)

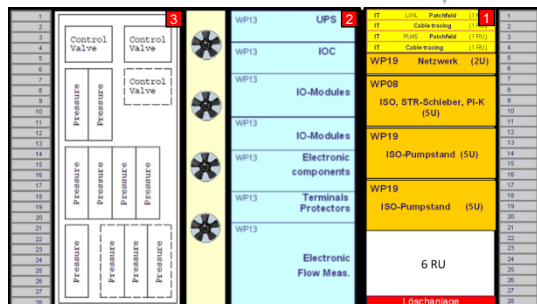


Elektrant 2
1348,25

LLRF II at 1345,356 m
XTL_L3.A23_R37

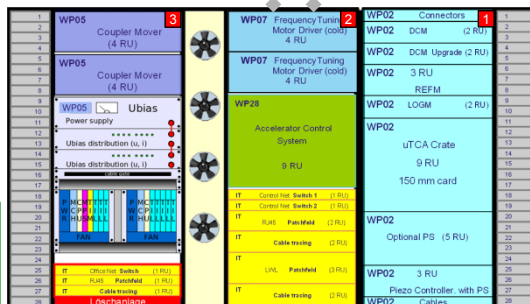


PS at 1352,248 m
XTL_L3.A23_R44

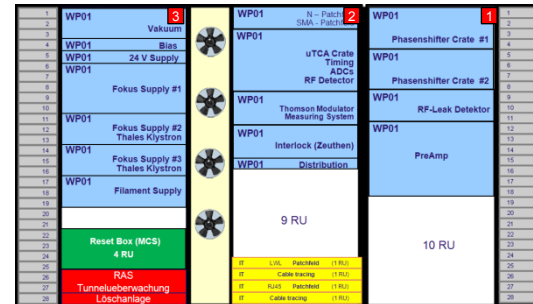


Cryo/Vacuum at 1358,54 m
XTL_L3.A24_R01

Elektrant 1
1366,4



LLRF I at 1366,209 m
XTL_L3.A24_R08



RF at 1374,009 m
XTL_L3.A24_R15



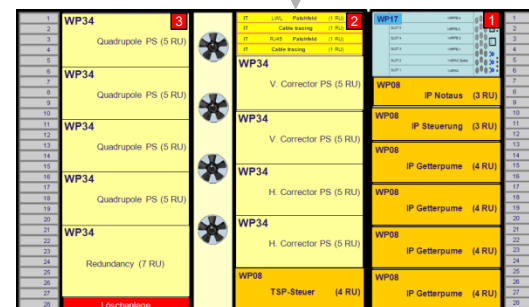
Room 026

026

1389,55 m - 1441,55 m (L3)



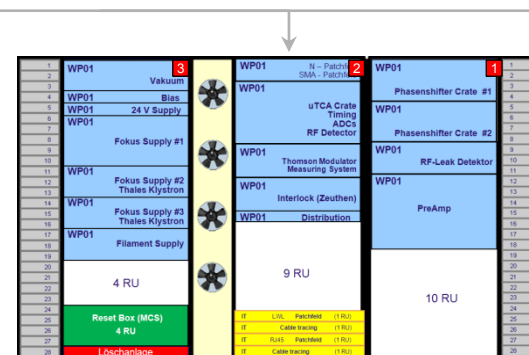
LLRF II at 1396,316 m
XTL L3.A24 R37



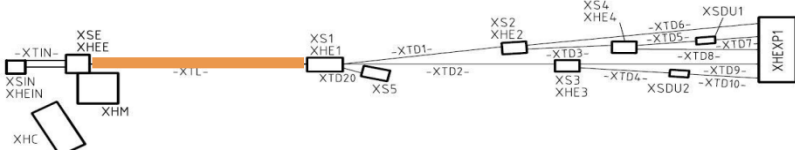
PS at 1403,208 m
XTL L3.A24 R44



LLRF I at 1414,179 m
XTL L3.A25 R08



RF at 1421,979 m
XTL L3.A25 R15

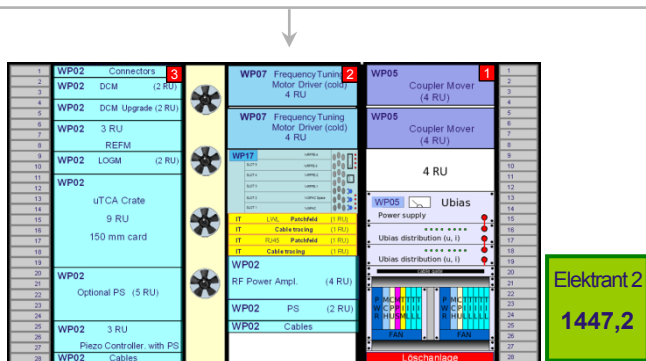


XTL

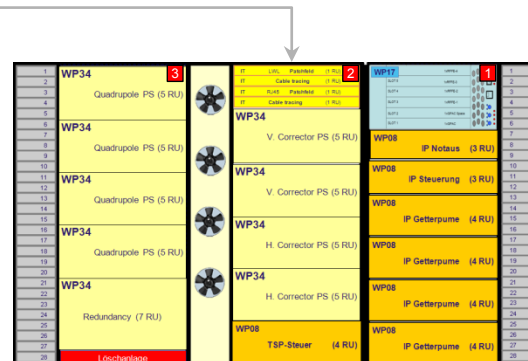
Room 027

027

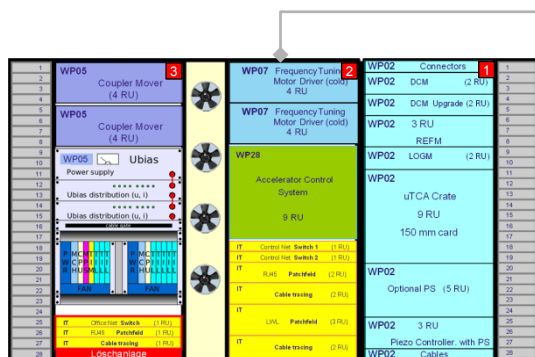
1441,55 m - 1493,55 m (L3)



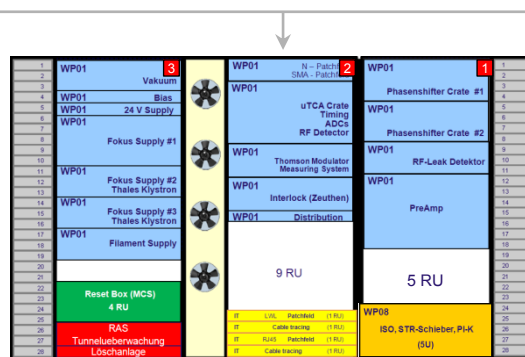
LLRF II at 1444,286 m
XTL_L3.A25_R37



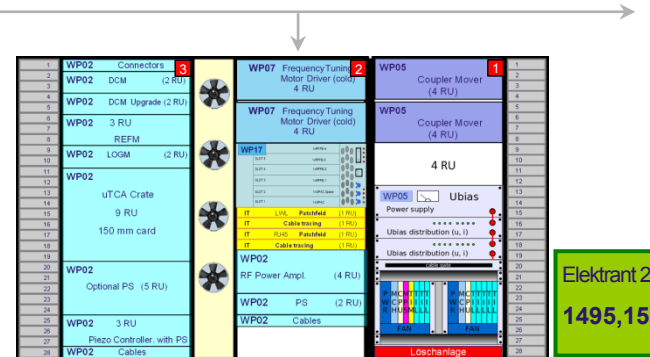
PS at 1451,178 m
XTL_L3.A25_R44



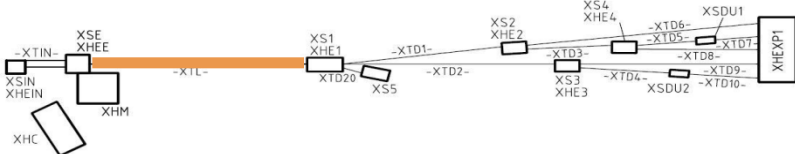
LLRF I at 1462,149 m
XTL_L3.A26_R08



RF at 1469,949 m
XTL_L3.A26_R15



LLRF II at 1492,256 m
XTL_L3.A26_R37

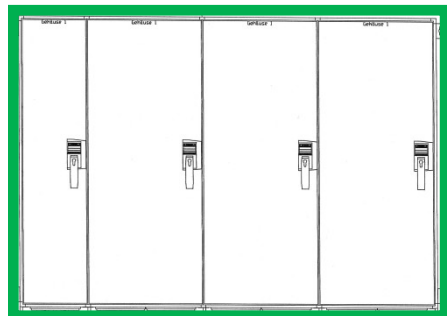


XTL

Room 028

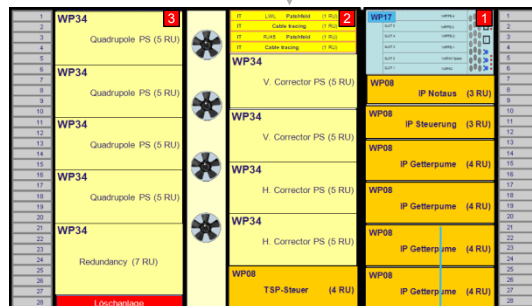
028

1493,55 m - 1545,55 m (L3)

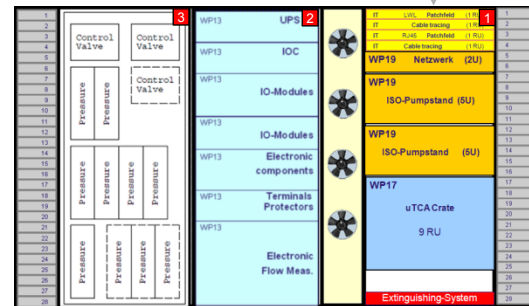


Elektroant 2
1495,15

Unterverteilung, 1496.62 m



PS at 1499,15 m
XTL_L3.A26_R44

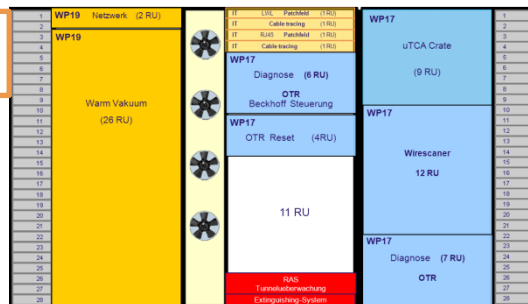


Cryo/Vacuum at 1505,84 m
XTL_L3.A27_R01

Verschoben in XTL_L3.A26_R15 bei 1469 m

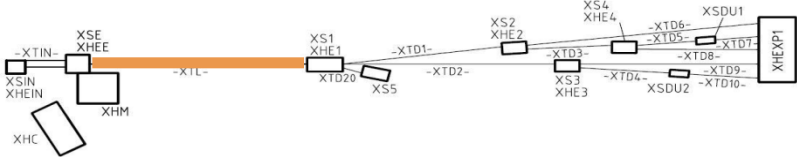
WP08
ISO, STR-Schieber, PI-K
(5U)

This cabinet was previously as
double-rack at 1560 m



Diagnose at 1523 m
XTL_L3.A27_R18

Elektroant 2
1530 m

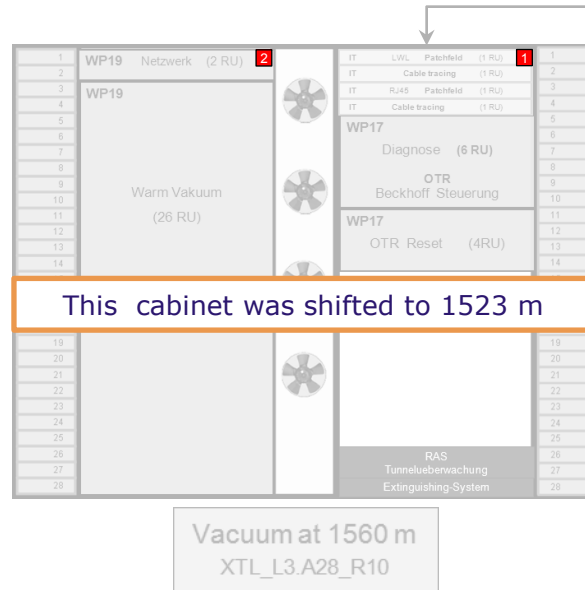


XTL

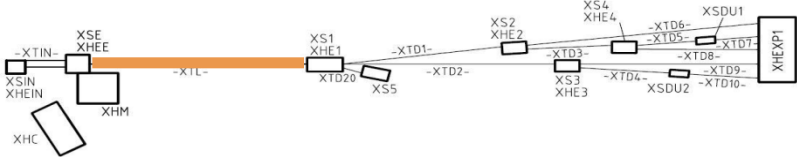
Room 029

029

1545,55 m - 1597,55 m (L3)



Elektrant 2
1563 m

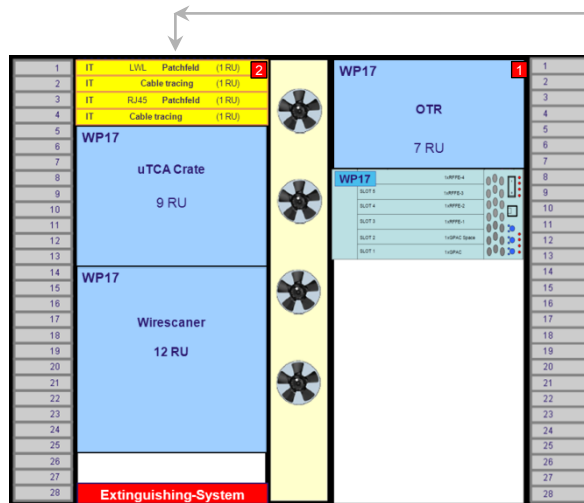


XTL

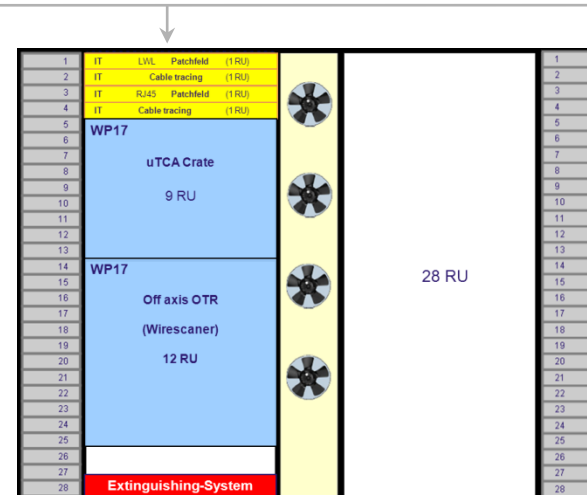
Room 030

030

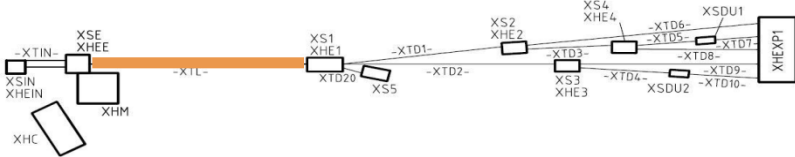
1597,55 m - 1649,55 m (L3)



Diagnostics at 1601 m
XTL_L3.A29_R01



Diagnostics at 1633 m
XTL_L3.A29_R33

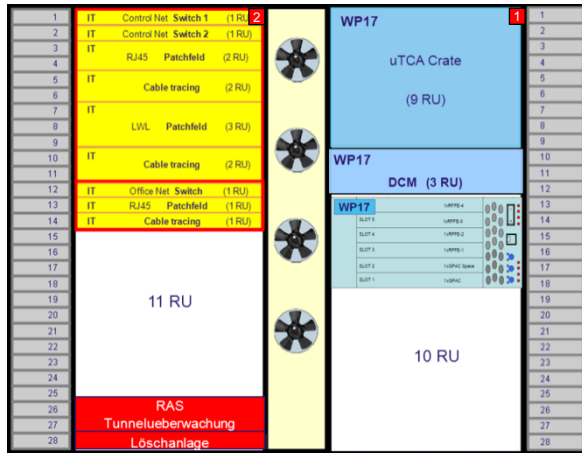


XTL

Room 031

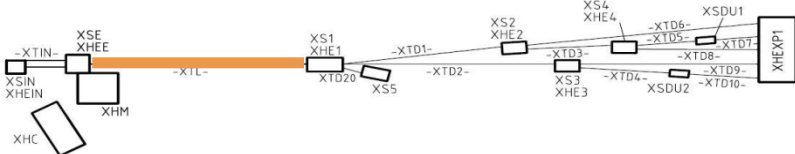
031

1649,55 m – 1678,58 m (L3)



Diagnostics at 1659 m
XTL_CL.S1_R07

Elektrant 1
1670 m

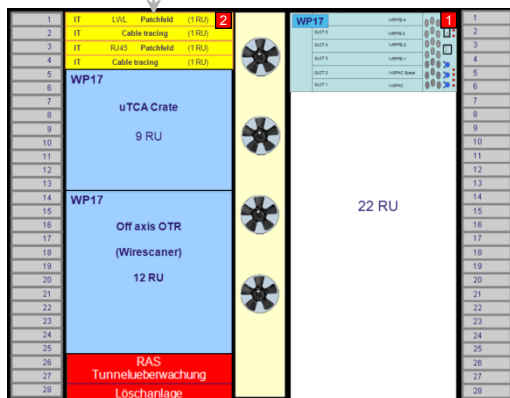


XTL

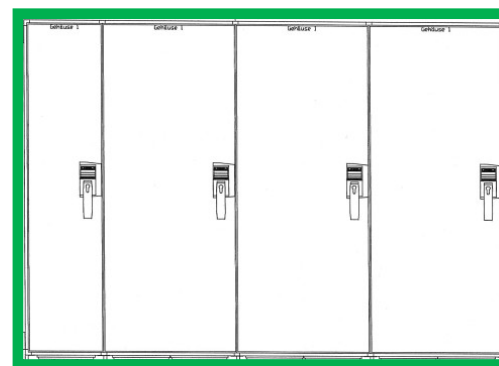
Room 032

032

1678,58 m - 1741,78 m (CL)

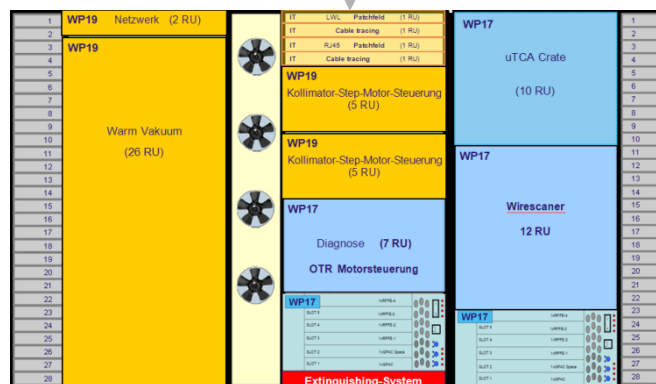


Diagnostics at 1685 m
XTL_CL.S1_R33



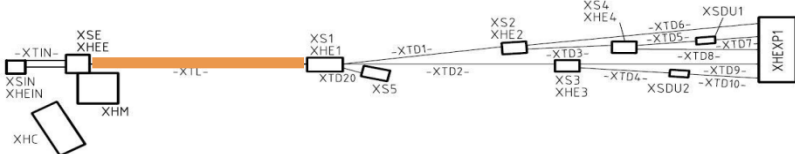
Elektrant 2
1702,5

Unterverteilung, 1700 m



Diagnostics at 1720 m
XTL_CL.S2_R20

Elektrant 1
1730 m

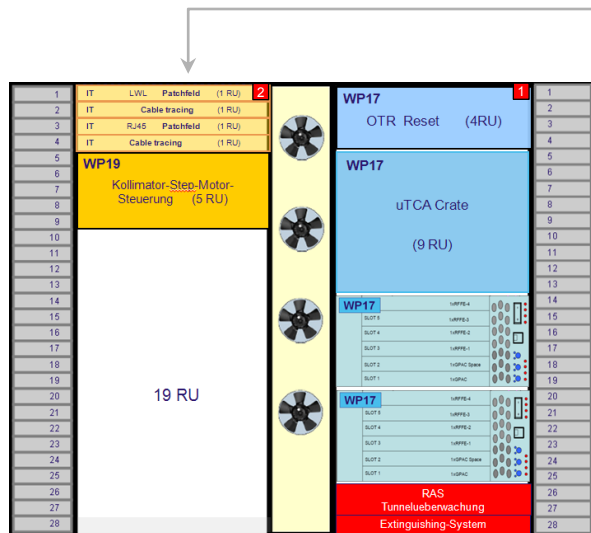


XTL

Room 033

033

1741,78 m – 1785,83 m (CL)



Elektrant 2
1762,6

Diagnostics at 1755 m
XTL_CL.S3_R05



Room 034

034

1785,83 m – 1849,06 m (CL)

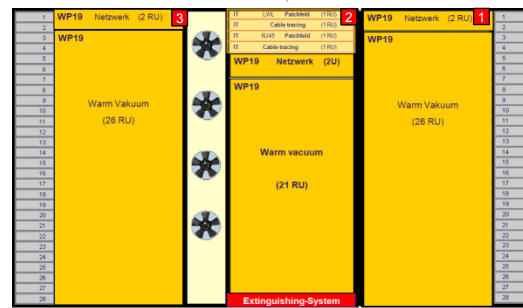


Diagnostics at 1792 m
XTL CL.S3 R42



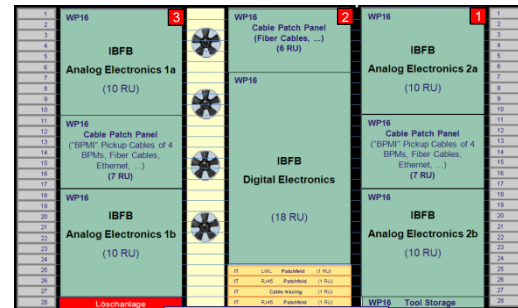
Diagnostics at 1828 m
XTL CL.S4 R28

1849,06 m – 1901,06 m (CL)



Diagnostics at 1862 m
XTL_TL.S1_R08

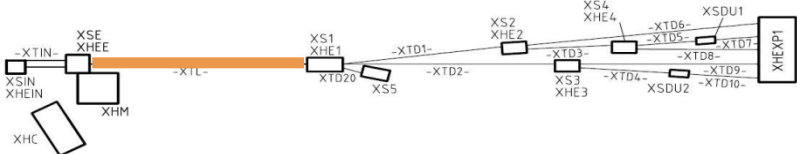
Vacuum at 1876 m
XTL TL.S1 R22



IBFB at 1885 m
XTL_TL.S1_R31

IBFB at 1895 m
XTL_TL.S1_R41

IBFB at 1898 m
XTL_TL.S1_R44



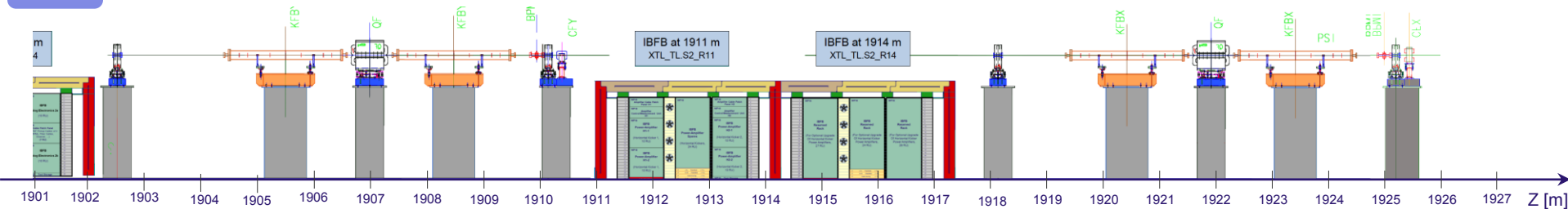
XTL

Room 036

(page 1 of 2)

036

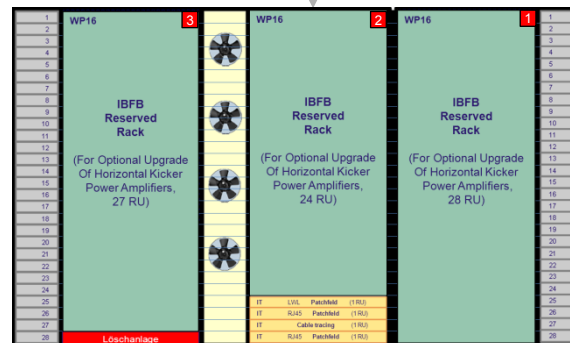
1901,06 m – 1953,06 m (CL)



Vakuum electronics is now at 1876 m

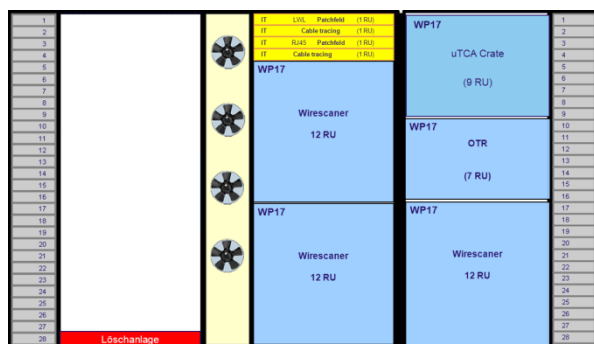


IBFB at 1911 m
XTL_TL.S2_R11

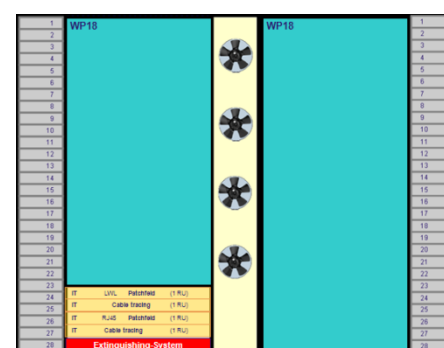
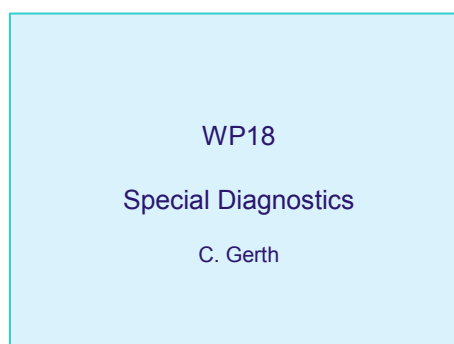


IBFB at 1914 m
XTL_TL.S2_R14

1901,06 m – 1953,06 m (CL)

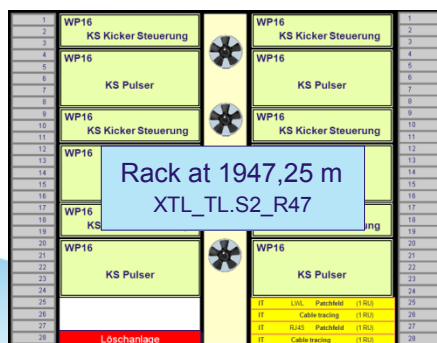


Diagnostics at 1926 m
XTL TL.S2 R26

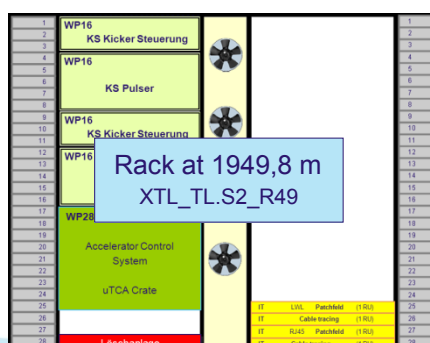


Sp. Diag at 1930 m
XTL TL.S2 R30

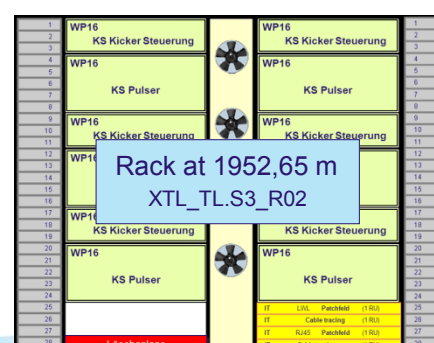
Elektrant 1
1933.6 m



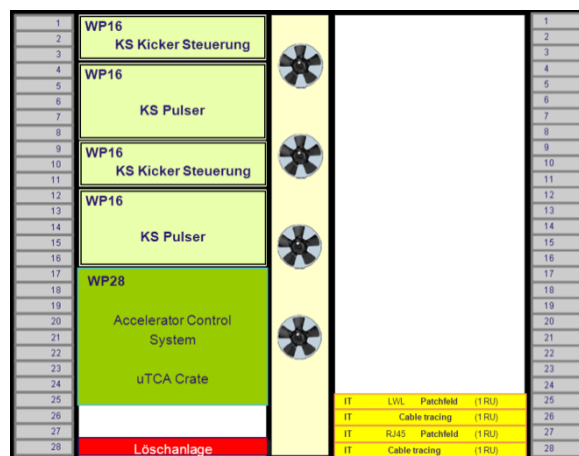
Rack at 1947,25 m
XTL TL.S2 R47



Rack at 1949,8 m
XTL TL.S2 R49



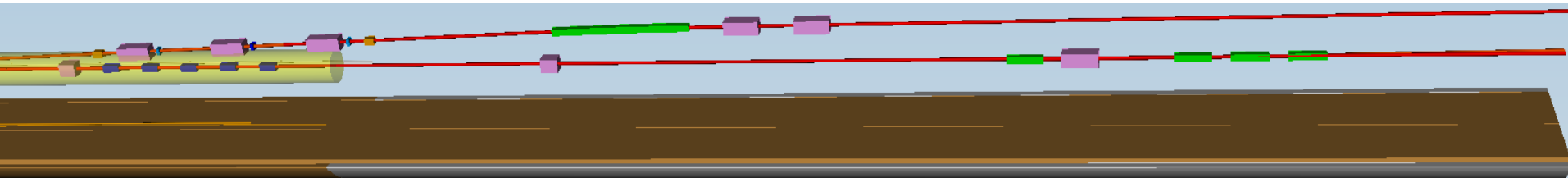
Rack at 1952,65 m
XTL TL-S3 R02



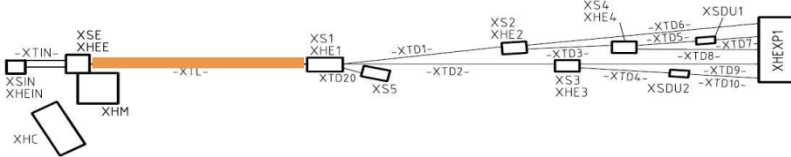
Cabinet at 1955,1 m
XTL_TL.S3_R05

$Z \text{ [m]}$ 

2005,06 m – 2039,05 m (TL/TLD)



Diagnostics at 2018 m
XTL_TL.S4_R18

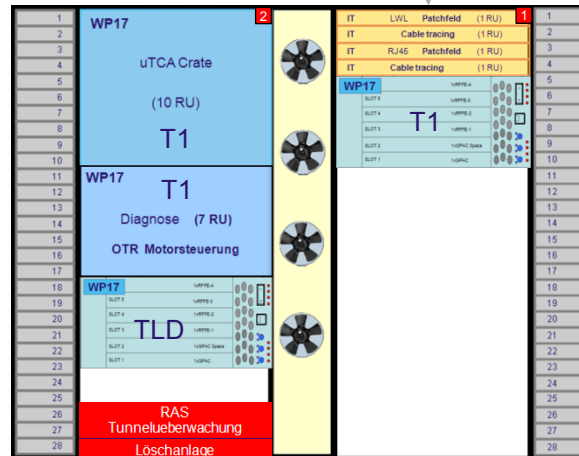
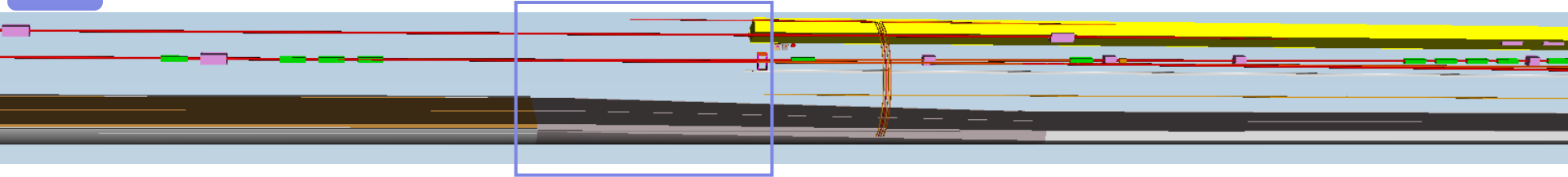


XTL

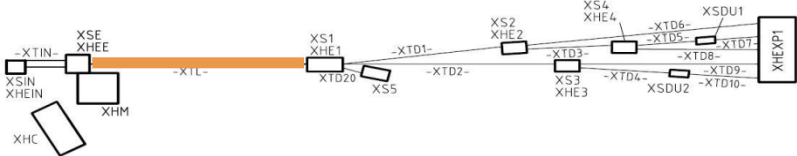
Room 039

039

2039,05 m – 2048,05 m (TL/TLD)



Diagnostics at 2047 m
XTL_TL.S4_R47

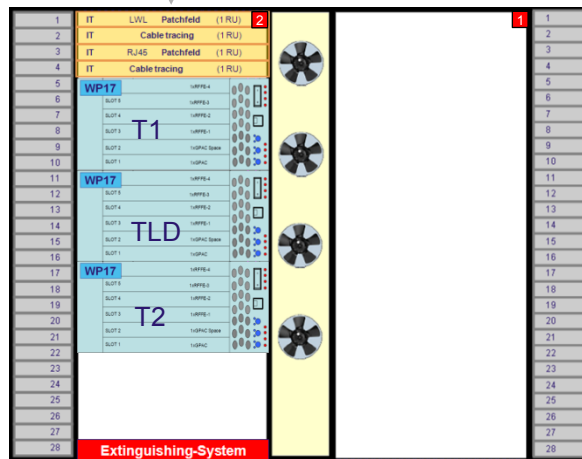
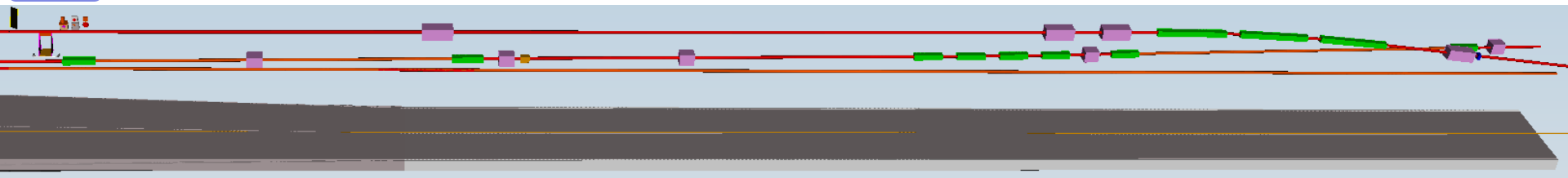


XTL

Room 040

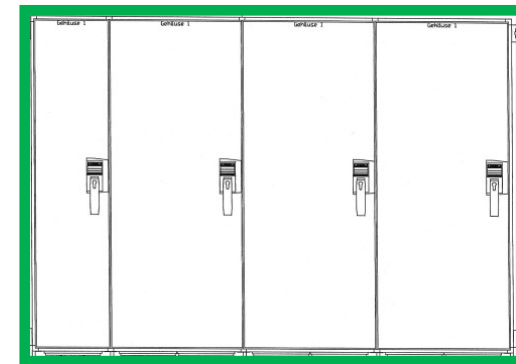
040

2048,05 m – 2100,05 m (TL/TLD)

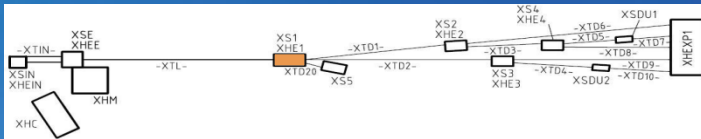


Elektrent 2
2070 m

Diagnostics at 2074 m
XTL_TL.S5_R16



Unterverteilung, 2100 m

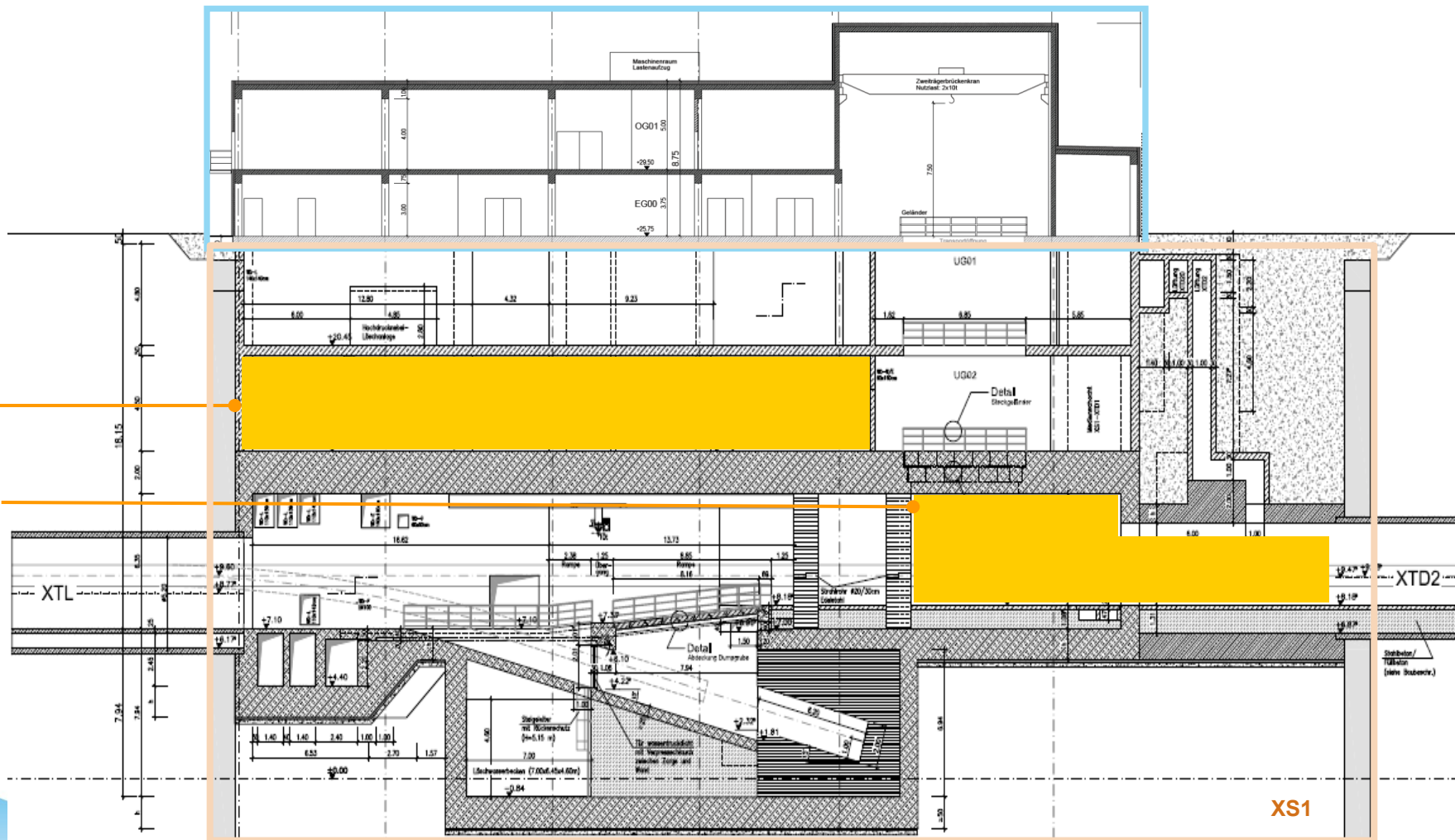


XS1/XHE1 Overview

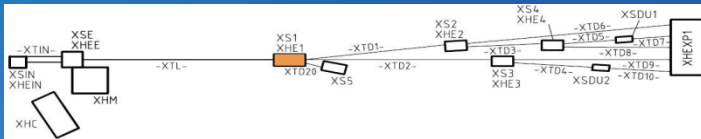
XHE1

2.UG

3.UG



XS1

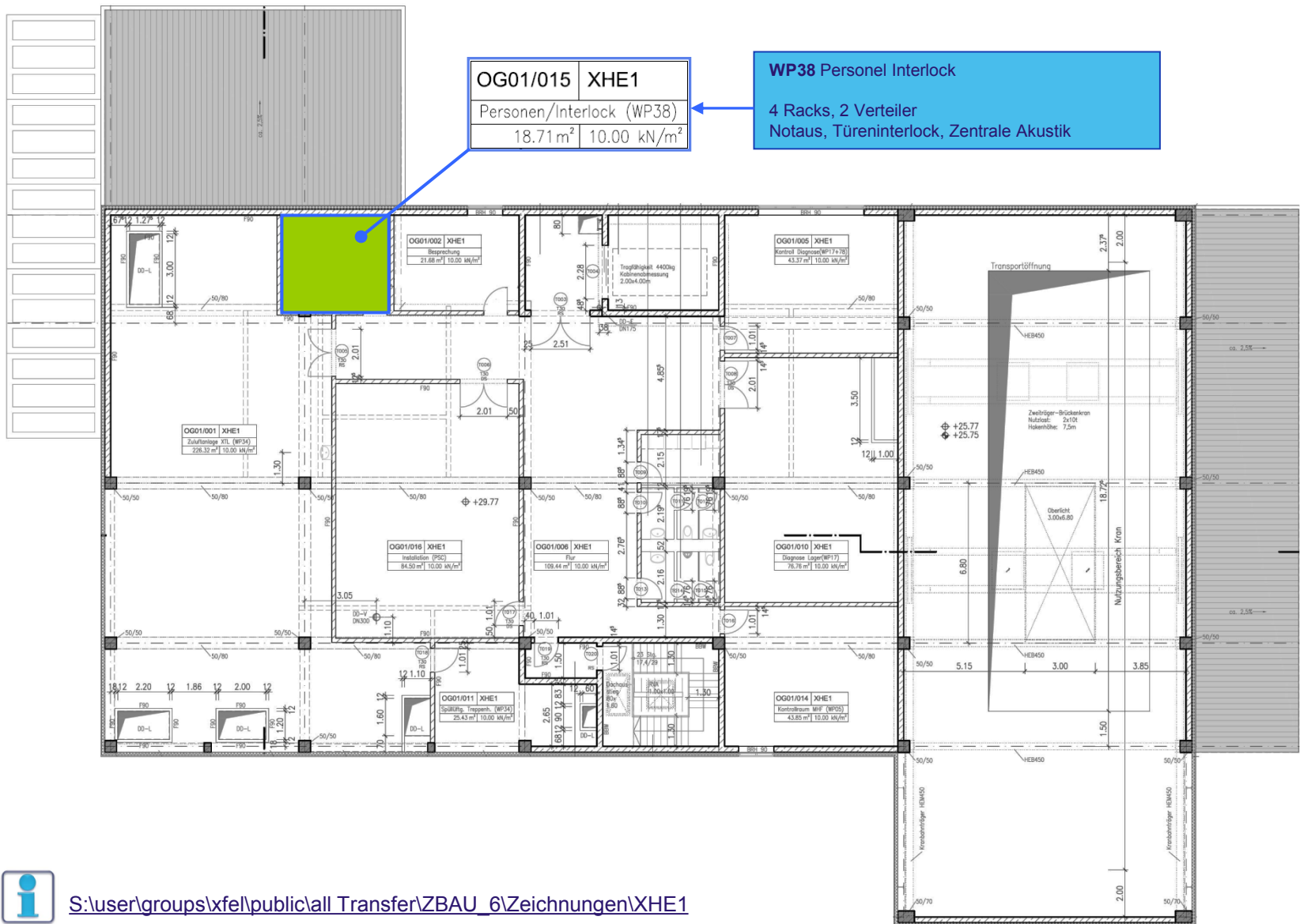


XHE1/10G

OG01/015	XHE1
Personen/Interlock (WP38)	
18.71 m ²	10.00 kN/m ²

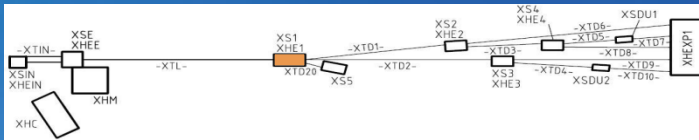
WP38 Personal Interlock

4 Racks, 2 Verteiler
Notaus, Türeninterlock, Zentrale Akustik



S:\user\groups\xfel\public\all Transfer\ZBAU_6Zeichnungen\XHE1

XS1 / 2UG



WP34 Utilities
Verantwortlicher: J. Eckold

Elektronikschraenke Netzgeräte - 59
Elektronikschraenke Korrekturnetzgeräte - 9
Elektronikschraenke Reserve - 15

Diodengerate - 4
Thyristorgeraet - 19
Verteilungen 400 V - 1
Verteilungen 600 V - 1

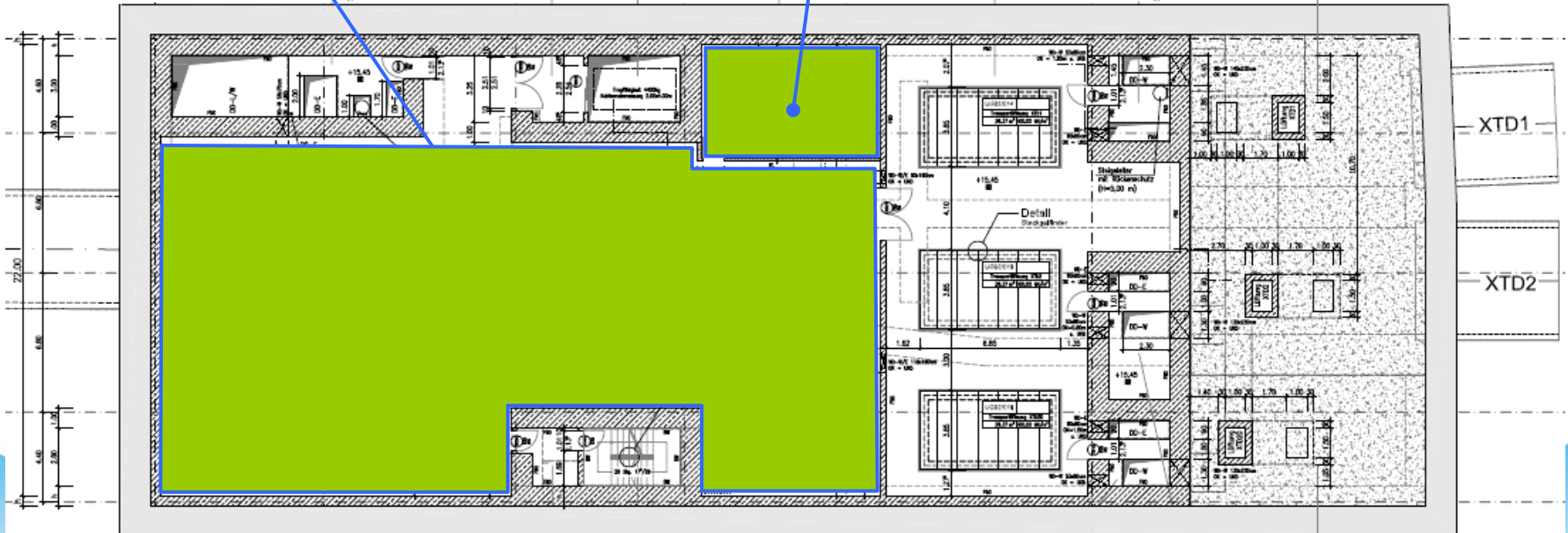
Space for MCS Servers

WP17 Standard diagnostics
Responsible: M. Steckel, K Wittenburg

Grundriss UG02
M 1:100

UG02/001	
Raum für Netzgeräte	
578.13 m ²	20.00 kN/m ²

UG02/007	
Laserraum	
47.97 m ²	10.00 kN/m ²



D.N. 14.5.13
Können wir bei 2153 m
Ein Rack Strahlrohrnah bekommen
Für

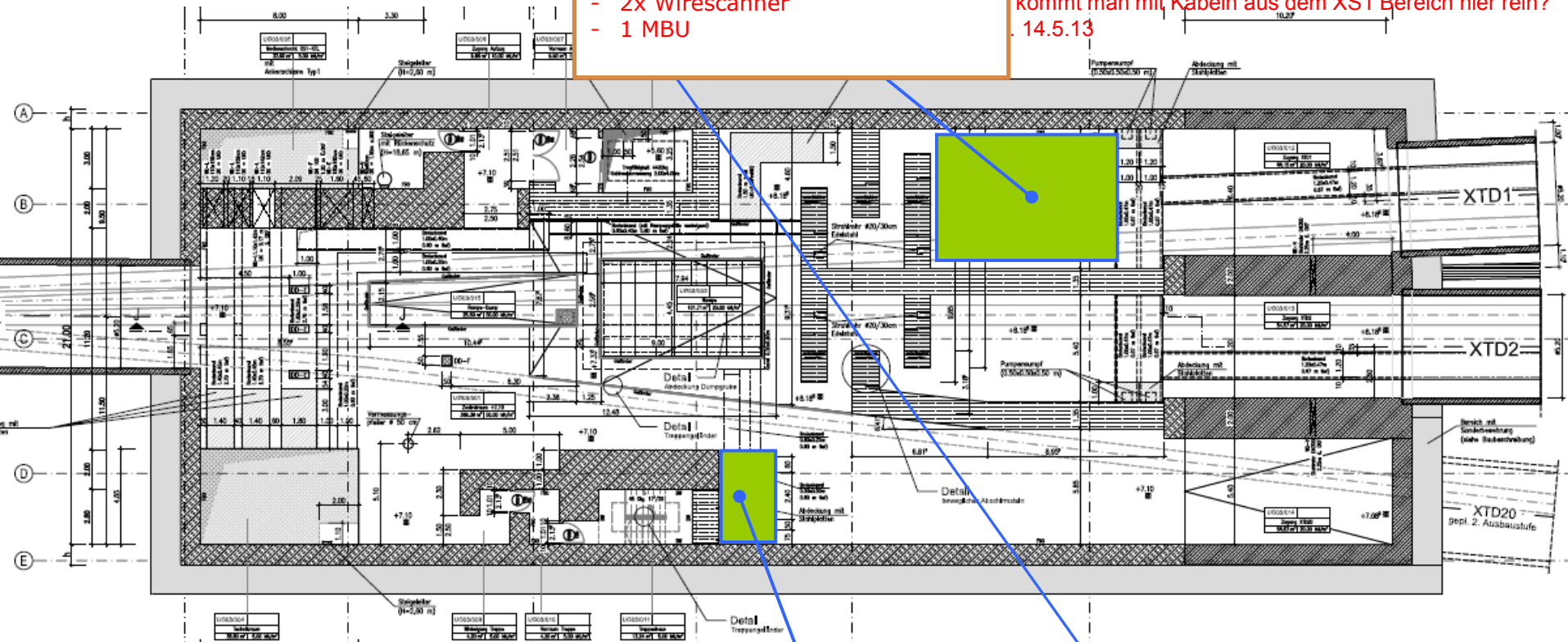
- 1 xµTCA
- 2x Wiresscanner
- 1 MBU

WP17 Standard diagnostics
Responsible: M. Steckel, K Wittenburg

kommt man mit Kabeln aus dem XS1 Bereich hier rein?

14.5.13

10.27



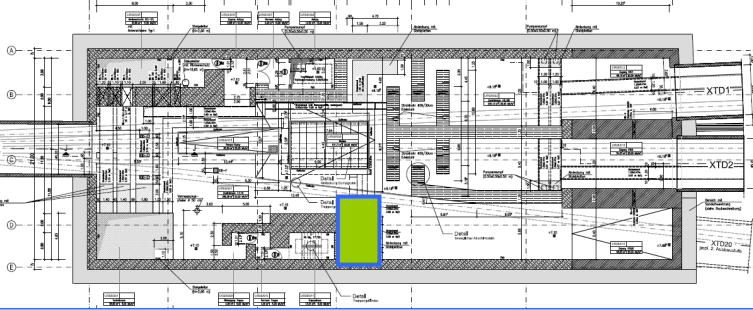
UG03/001	
Zentralraum +7,10	
370.05 m ²	50.00 kN/m ²

Dump diagnostics: 4 Cabinets (40 RU each)

WP17 Standard diagnostics

XS1 / 3UG

Room 001 - Zentralraum



1	IT	Control Net Switch (2 RU)	1
2	IT	RJ45 Patchfeld (2 RU)	2
3	IT	LWL Patchfeld (3 RU)	3
4	IT	Cable tracing (1 RU)	4
5	WP17	uTCACrate 9 RU	5
6	WP17	T1	6
7	WP17	TLD	7
8	WP17	TLD	8
9	WP17	TLD	9
10	WP17	TLD	10
11	WP17	TLD	11
12	WP17	TLD	12
13	WP17	TLD	13
14	WP17	TLD	14
15	WP17	TLD	15
16	WP17	TLD	16
17	WP17	TLD	17
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37	WP17	TLD	37
38	WP17	TLD	38
39	WP17	TLD	39
40	WP17	TLD	40

XS1_UG03.001_R01

1	WP17	TLD	1
2	WP17	TLD	2
3	WP17	TLD	3
4	WP17	TLD	4
5	WP17	TLD	5
6	WP17	TLD	6
7	WP17	TLD	7
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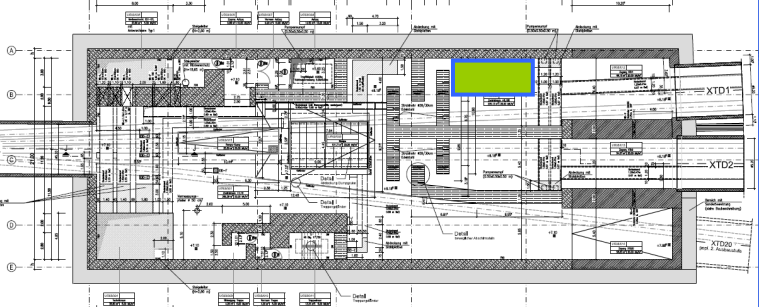
XS1_UG03.001_R02

1	WP20	DUMPSteuerung 13 HE	1
2	WP20	DUMPSteuerung 13 HE	2
3	WP20	DUMPSteuerung 13 HE	3
4	WP20	DUMPSteuerung 13 HE	4
5	WP20	DUMPSteuerung 13 HE	5
6	WP20	DUMPSteuerung 13 HE	6
7	WP20	DUMPSteuerung 13 HE	7
8	WP20	DUMPSteuerung 13 HE	8
9	WP20	DUMPSteuerung 13 HE	9
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16	WP20	DUMPSteuerung 13 HE	16
17	WP20	DUMPSteuerung 13 HE	17
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39	WP20	DUMPSteuerung 13 HE	39
40	WP20	DUMPSteuerung 13 HE	40

XS1_UG03.001_R03

1	WP17	Schrittmotorsteuerung 7 RU	1
2	WP17	Schrittmotorsteuerung 7 RU	2
3	WP17	Schrittmotorsteuerung 7 RU	3
4	WP17	Schrittmotorsteuerung 7 RU	4
5	WP17	Schrittmotorsteuerung 7 RU	5
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XS1_UG03.001_R04



3UG
(Level -3)

XS1

Room 002 – Zentralraum – T1

