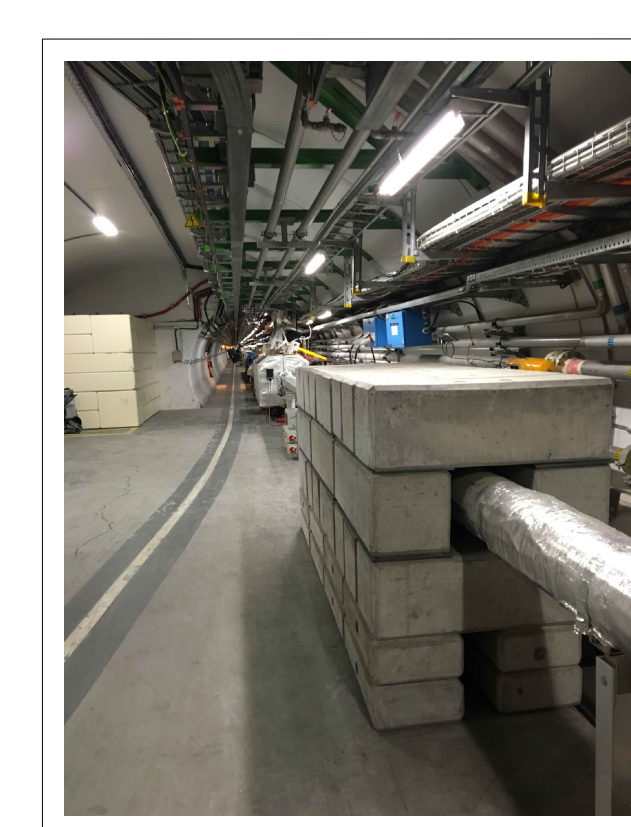
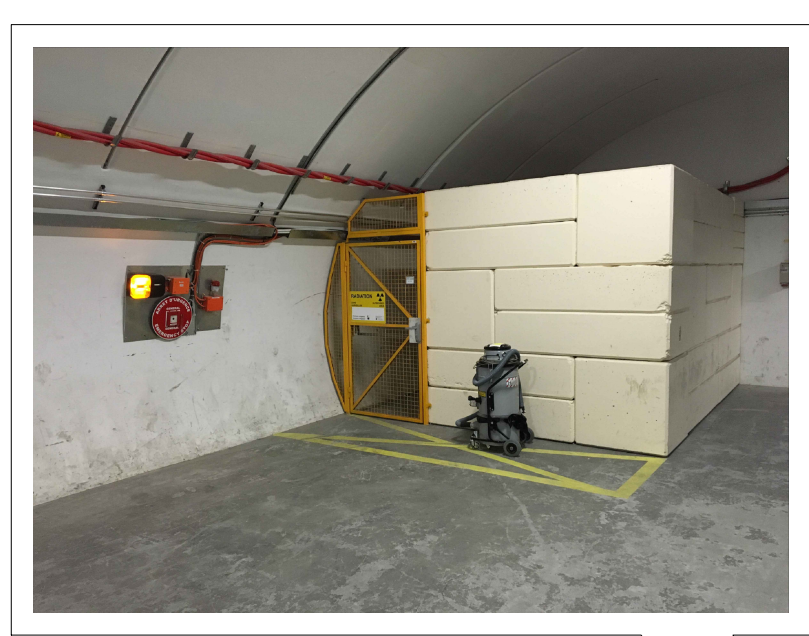
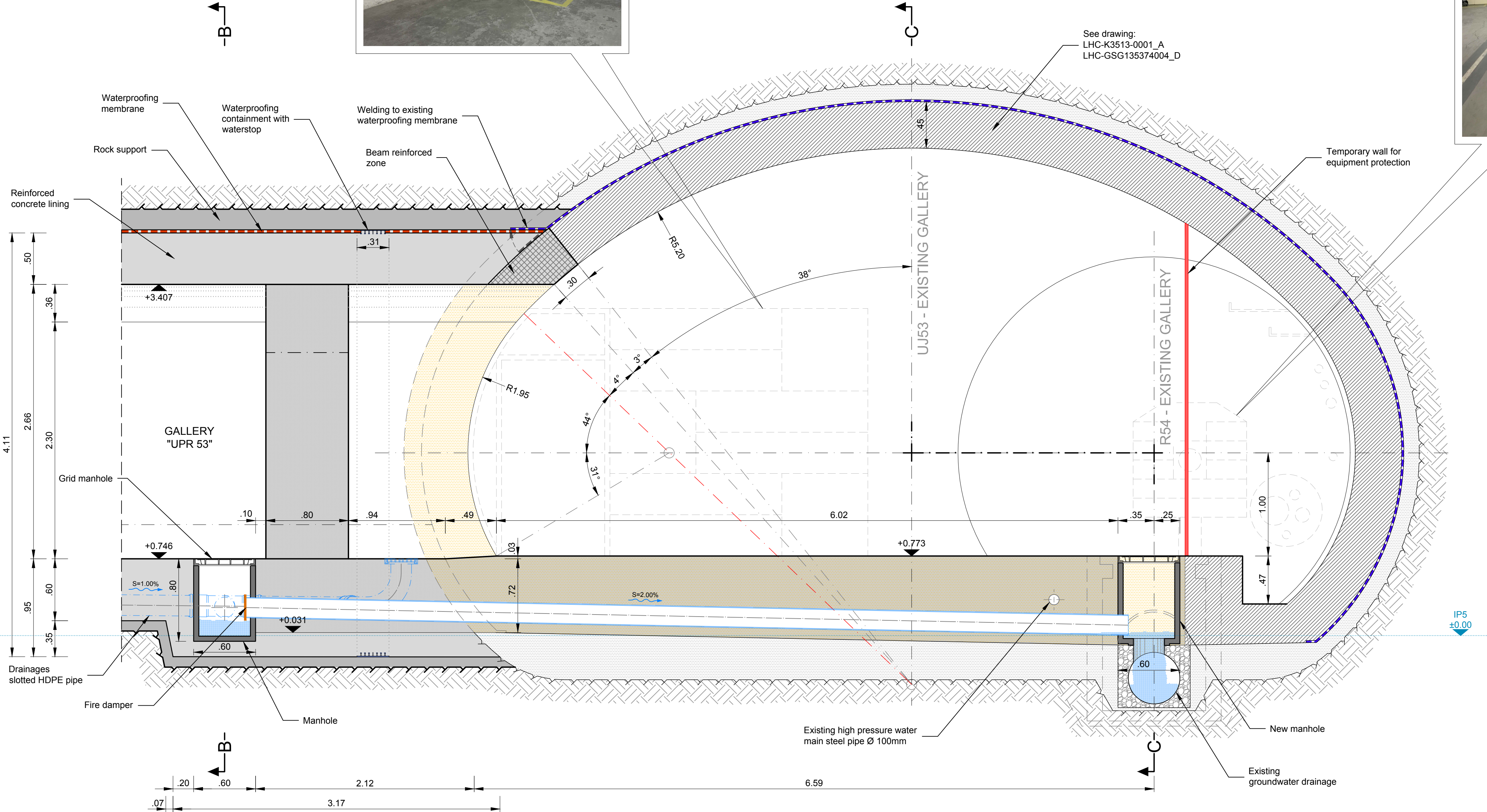


POINTS	CCS CERN coordinates system			COORDINATES FOR REFERENCE POINTS		
	X	Y	Z	X	Y	Z
IP5	-1047.711	10460.532	2413.923			
CENTER OF EXPERIMENTAL AREA OF POINT 5 (CMS)						
				Local coordinates system: CMS 1503 axis (m)		
				X	Y	Z
IP5	0	0	0			
1	52.000	172.000	89.024			
2	52.000	172.000	7.514			
3	52.000	174.000	7.514			
4	-0.834	174.000	7.514			
5	-0.834	162.000	7.514			
6	53.000	141.500	7.514			
7	53.000	90.250	8.138			
8	53.000	0.000	9.251			
9	53.000	-88.250	10.340			
10	53.000	-147.935	11.077			
11	53.000	-158.475	11.207			
12	-0.834	-147.935	11.077			
13	-0.834	-171.935	11.077			
14	-2.500	-88.254	10.340			
15	-2.500	90.249	8.138			
16	0.000	-89.250	10.340			
17	-0.830	-87.250	10.340			
18	1.500	-87.500	10.340			
19	0.000	89.250	8.138			
20	-0.830	91.250	8.138			
21	1.500	90.950	8.138			
22	-0.834	-169.620	11.077			
23	-0.834	-168.820	11.077			
24	-0.834	-162.360	11.077			
25	-0.834	-159.381	11.077			
26	-0.834	-154.990	11.077			
27	-0.834	152.001	7.514			
28	-0.834	155.001	7.514			
29	-0.834	159.431	7.514			
30	-0.834	162.440	7.514			
31	-0.834	166.871	7.514			

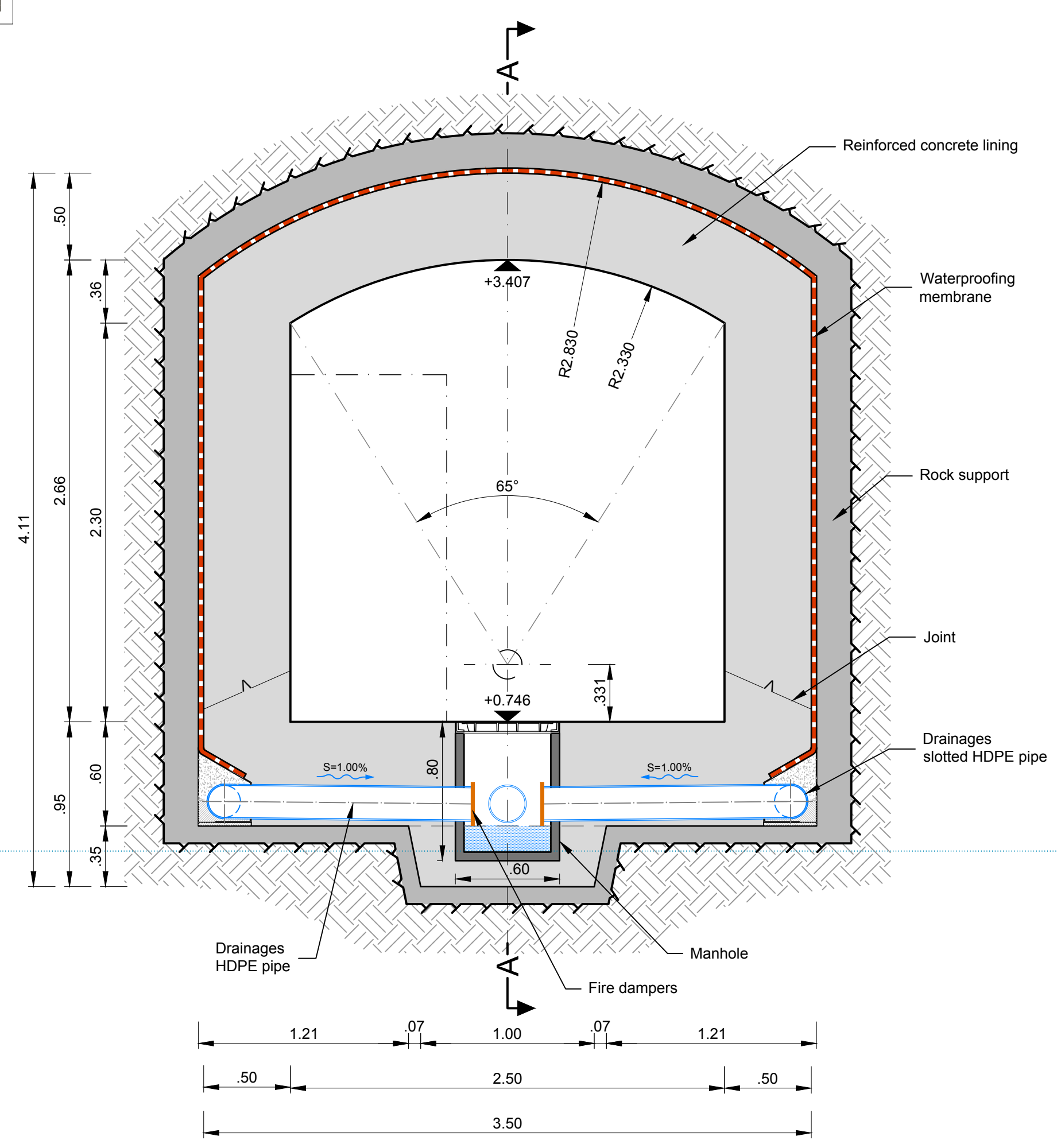
AS PER CERN'S REQUEST, THE INCONSISTENCY BETWEEN THE X COORDINATES OF POINT 4, 5, 12, 13 INDICATED IN THE COORDINATES TABLE OF DRAWING N. LHCK3500092_E AND THE DRAWINGS/3D MODEL WILL BE SOLVED IN PHASE 2.



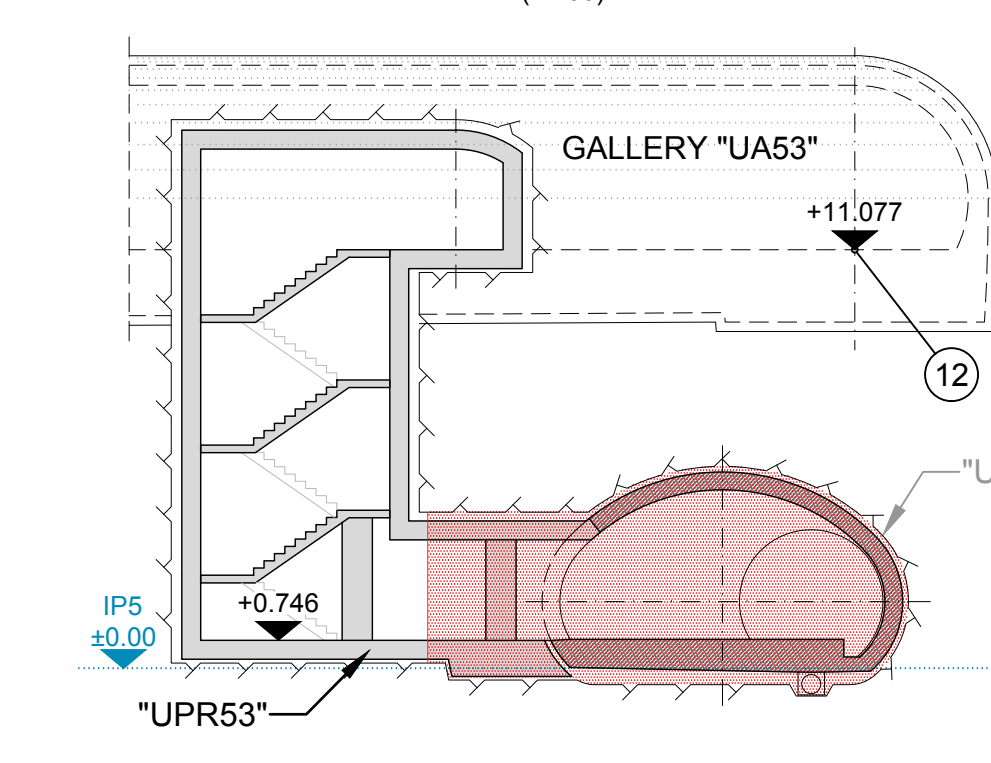
SECTION A-A
(1:25)



SECTION B-B
(1:25)

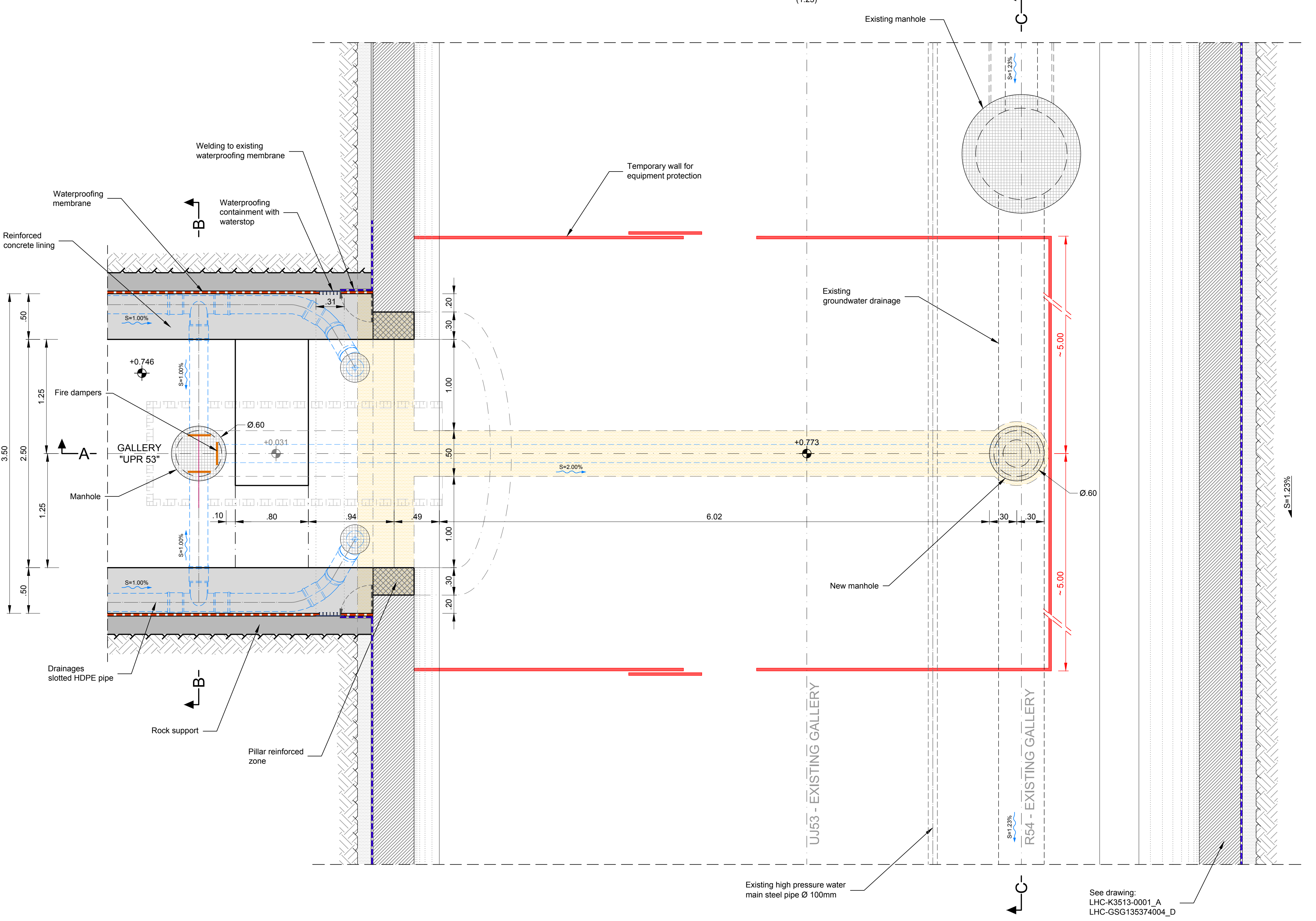


P.L. INFORMATION
(1:200)

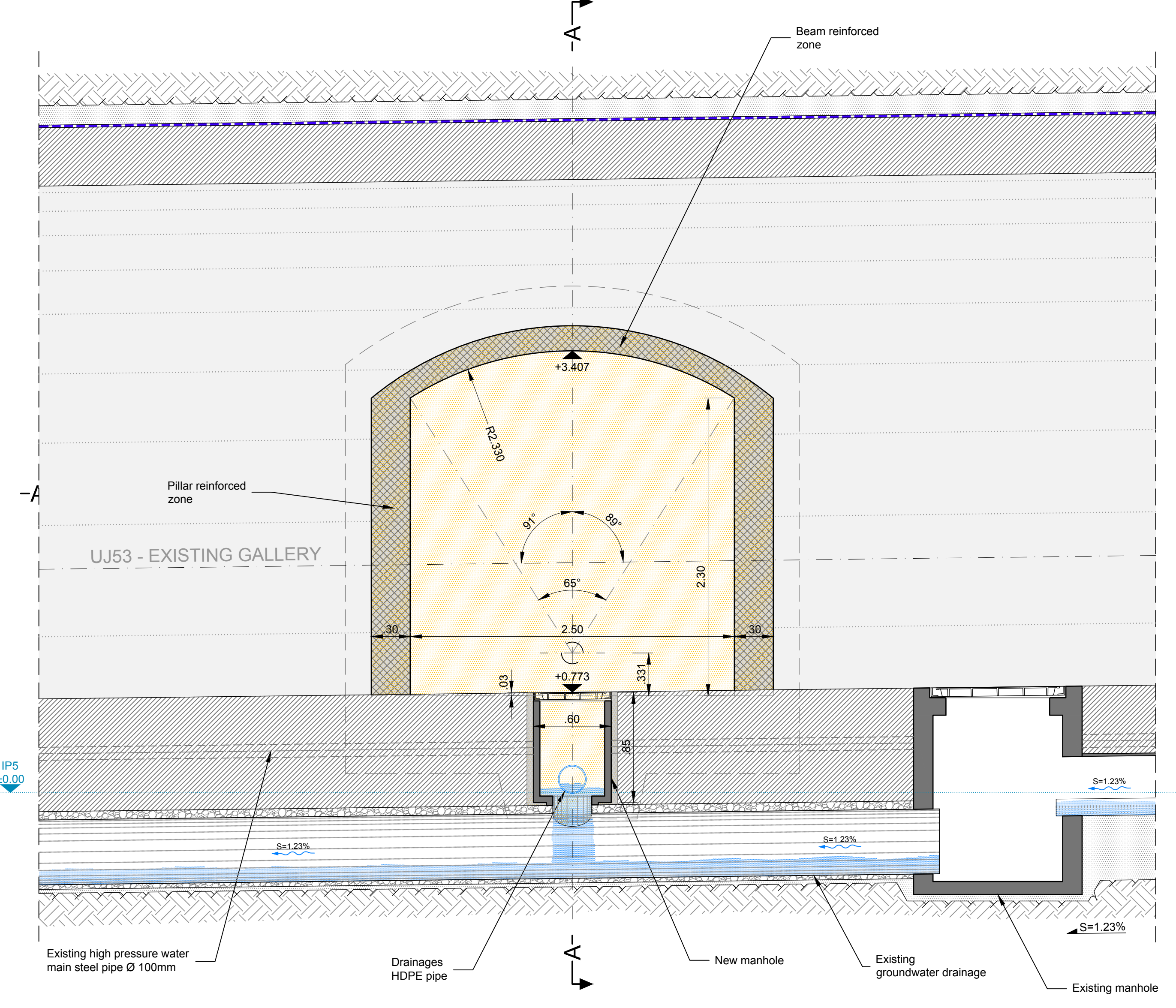


DEMOLITION

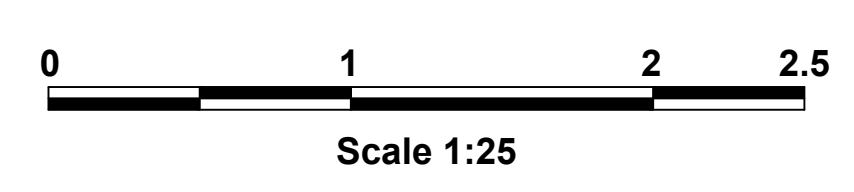
PLAN
(1:25)



SECTION C-C
(1:25)



- NOTE:**
- THE THICKNESS OF THE REINFORCED CONCRETE LINING TAKE INTO ACCOUNT THE MINIMUM THICKNESS NECESSARY FOR STRUCTURAL RESISTANCE (PRE-DIMENSIONING) AND THE SPACE FOR TOLERANCES (TO BE DEFINED IN THE TENDER DESIGN).
 - THEREFORE THE REINFORCED CONCRETE LINING WILL BE OPTIMIZED IN THE TENDER DESIGN BY THE DETAILED ANALYSIS.
 - THE DIMENSIONS, THE LEVEL, DRAINAGES AND PIPES OF THE EXISTING STRUCTURES MUST BE VERIFIED ON SITE BEFORE THE EXECUTIVE OF THE NEW GALLERIES
 - THE DIMENSIONS AND POSITION OF THE EXISTING EQUIPMENT MUST BE VERIFIED ON SITE BEFORE THE EXECUTION OF THE WORKS.
 - THE FEASIBILITY OF THE PROPOSED SOLUTION SHALL BE CHECKED IN THE NEXT PROJECT PHASE ON THE BASIS OF A PRECISE VERIFICATION OF THE EQUIPMENT OF THE EXISTING TUNNELS.



Key-plan
1:2000

UJ53, UPR53, UJ57, UPR57, UJ55, UPR55, UJ57, UPR57, UJ57, UPR57, UJ57, UPR57

F					
E					
D					
C					
B					
A	16/11/11	PALERMO	GANELI	MERLINI	FIRST ISSUE

Rev. Date Drawn by Checked by Approved by Note

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH
European Laboratory for Particle Physics

HL-LHC - POINT 5 - UNDERGROUND

K3513 / UPR53 - RF Gallery side 53

Structure and drainage connection to existing LHC tunnel

PRELIMINARY DESIGN

Lombardi ARTELIA pini swiss engineers

Scale: 1/25 - 200 Dwg: 491304_LHC-PSW1351300050-DWG File name: LHC-PSW1351300050-DWG

OFFICIAL DRAWING **LHC-PSW1351300050**