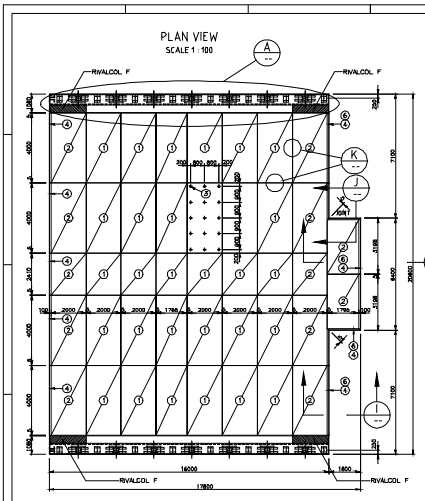
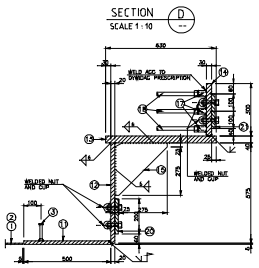
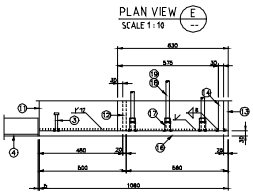






POS.	MATERIAL PROFILE	MATERIAL	REMARKS
1	SHEET TH. 8 MM	S235 JO	UNDER FACE WITH ANTI CORROSION COATING SYSTEM PROTECTION 2
2	SHEET TH. 8 MM	S235 JO	UNDER FACE WITH DEBONDING COATING RIVALL COLL F FROM MASTER BUILDERS
3	STUDS WITH HEAD Ø 13 L = 100	S235 J2G3C MAT.1.0118	ACC. TO EN 10025 + 10027-2
4	L 100/100/10	S235 JO	WELDED TO POS. 2 / EXTERNAL FACE WITH RIVALCOL F
5	ANCHOR BAR Ø12 S=300 L=500	S500	WELDED ON POS. 4
6.1	☐ 100/40	S355 J2G3	
6.2	☐ 210/80	S355 J2G3	
7	REINFORCEMENT BAR Ø25	S500	L=1500 – S=200
8	GEWI SLEEVE Ø26 WITH LOCK NUT	GEWI PRODUCT	TO WELD TO POS. 6.2 ACC. TO SUPPLIER PRESCRIPTION
9	GEWI BAR Ø25	S500 – GEWI	L = 1500 – S=200
11	☐ 310/20	S355 J2G3	
12	☐ 380/20	S355 J2G3	
13	☐ 630/40	S355 J2G3	
14	☐ 200/20	S355 J2G3	
15	☐ 200/15	S355 J2G3	
16	SHEET TH. 30 MM	S355 J2G3	
17	GEWI SLEEVE Ø20 WITH LOCK NUT	GEWI PRODUCT	TO WELD TO POS. 14 AND 16 ACC. TO SUPPLIER PRESCRIPTION
18	GEWI BAR Ø20	S500 – GEWI	L = 2500 – S=200 TO 220 / 100
19	GEWI BAR Ø20	S500 – GEWI	L = 1500
20	☐ 200/20	S235 JO	L = 875 – TEMPORARY FIXING PLATE
21	☐ 200/20	S235 JO	L = 540 – TEMPORARY FIXING PLATE
22		SUPPLIED BY CERN	
23			
24			
25	HEM 400	S355 J2G3	L = 400
26	☐ 180/80	S355 J2G3	L = 352 ⚠ THEORETICAL DIMENSION
27.1	☐ 400/6	S235 JO	L = 307 2pces/support
27.2	☐ 400/2	S235 JO	L = 307 (1+1)pces/support
27.3	☐ 400/1	S235 JO	L = 307 (1+1)pces/support

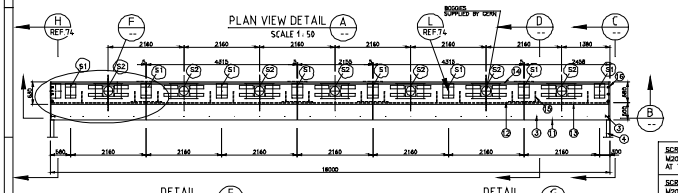
NOTES:
1. ALL DIMENSIONS IN MILLIMETRES, ALL LEVELS IN METRES
2. TYPES AND DIMENSIONS OF WELDS NOT INDICATED BY SYMBOLS ACCORDING TO EN 22553 ON THIS DRAWING, IS SPECIFIED BY THE CONTRACTOR AND INDICATED ON THE WORKSHOP DRAWINGS.
   FILLET WELDS IS CONTINUOUS AND HAVE A MINIMUM THROAT THICKNESS ACCORDING TO STEEL MATERIAL THICKNESS AND INTERNAL FORCES, BUT NOT LESS THAN a= 4mm.
3. QUALITY LEVEL AND EXAMINATION OF WELDS :
   UNLESS SPECIFIED OTHERWISE, WELDS SHALL MEET THE REQUIREMENTS OF EN 25817:1992, QUALITY LEVEL C. EXAMINATIONS IS CARRIED OUT ACCORDING TO EN 473/1993.
3. THE TEMPORARY POS. 20 AND 21 ARE FORESEEN TO MAINTAIN TOGETHER THE ADJACENT PIECES DURING THE MONTAGE AND THE CONCRETE POURING. THEY HAVE TO BE RELEASED/REMOVED AFTER CONCRETE SETTING IN ORDER TO ALLOW A FREE SHRINKAGE DEVELOPMENT.
4. TOLERANCES: FOR SCREW CUTTINGS DISTANCES BETWEEN HOLES ± ø0.5mm

REFERENCES:
27. DWG. LHC-GSG/V/3585/4401
11. DWG. LHC-ESA/V/3585/4450
12. DWG. LHC-GSG/V/3585/4459
14. DWG. LHC-GSG/V/3585/4452

MATERIALS:
1. CONCRETE GRADE : IN-SITU CONCRETE C40/50
2. UNLESS SHOWN OTHERWISE, STRUCTURAL STEEL GRADE = S355 J2G3 - SEE TABLE
3. L: ACCORDING TO DIN 1028, DIN 1029, EN 10056-2
4. ☐ ACCORDING TO DIN1026, ISO 657-15
5. GEWI BARS, S500 FROM DYWIDAG MANUFACTURE

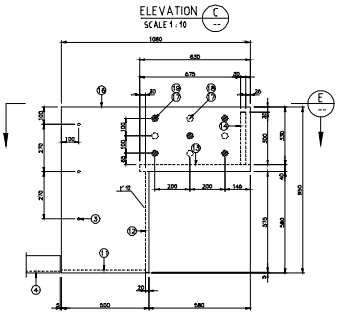
FINISHES:
1. ANTI-CORROSION PROTECTION OF EXPOSED FACES- PAINTING ACCORDING TO TECHNICAL SPECIFICATION PROTECTIVE SYSTEM 2, COLOR RAL : ... (CERN N. 14)
2. TOP OF THE SLAB- UR WITH GRANITIC ADDITION
3. VERTICAL SIDES: P2

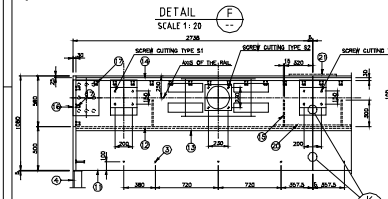
SEE URSSA DRAWING N° 492-3500-007

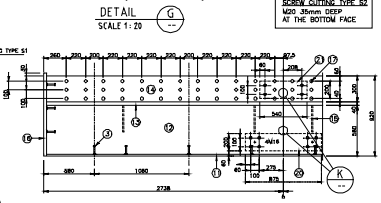


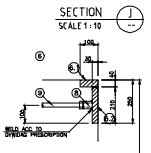
SCREW CUTTING TYPE S1
M20 35mm DEEP AT THE BOTTOM FACE

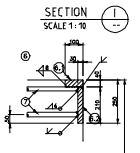
SCREW CUTTING TYPE S2
M20 35mm DEEP AT THE BOTTOM FACE

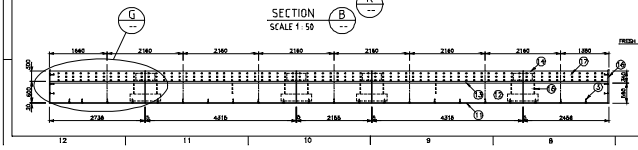


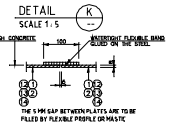












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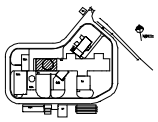

Rev. Index	Date	Drawn	Chkd. Indices	Approved by	Notes
C	12.04.05	FC	PP		AS BUILT
B	30.01.04	Assi2w	Watkins	Watkins	Minor modification
A	08.08.03	Assi2w	Watkins	Watkins	Screw cutting location / Pos 22, 23, 24 deleted
-	06.11.02	Y. Gerber	Watkins	Watkins	For construction

CERN
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH
European Laboratory for Particle Physics

LHC PROJECT – CIVIL ENGINEERING

POINT 5, SX5, BUILDING OVER PX 56 SHAFT & ANNEXES
AXIS 0 TO 4
PLUG ABOVE PX56 SHAFT
EMBEDDED STEEL PIECES 1

CONSULTANCY SERVICES

GTBB INGENIERIE GEOCONSULT Consulting Engineers

Scale : 1/100 1/50 1/10 1/5 | DRG. No. | File Name : 854651_C.dwg
AGGA | AS BUILT | LHC-GSG1358546511C