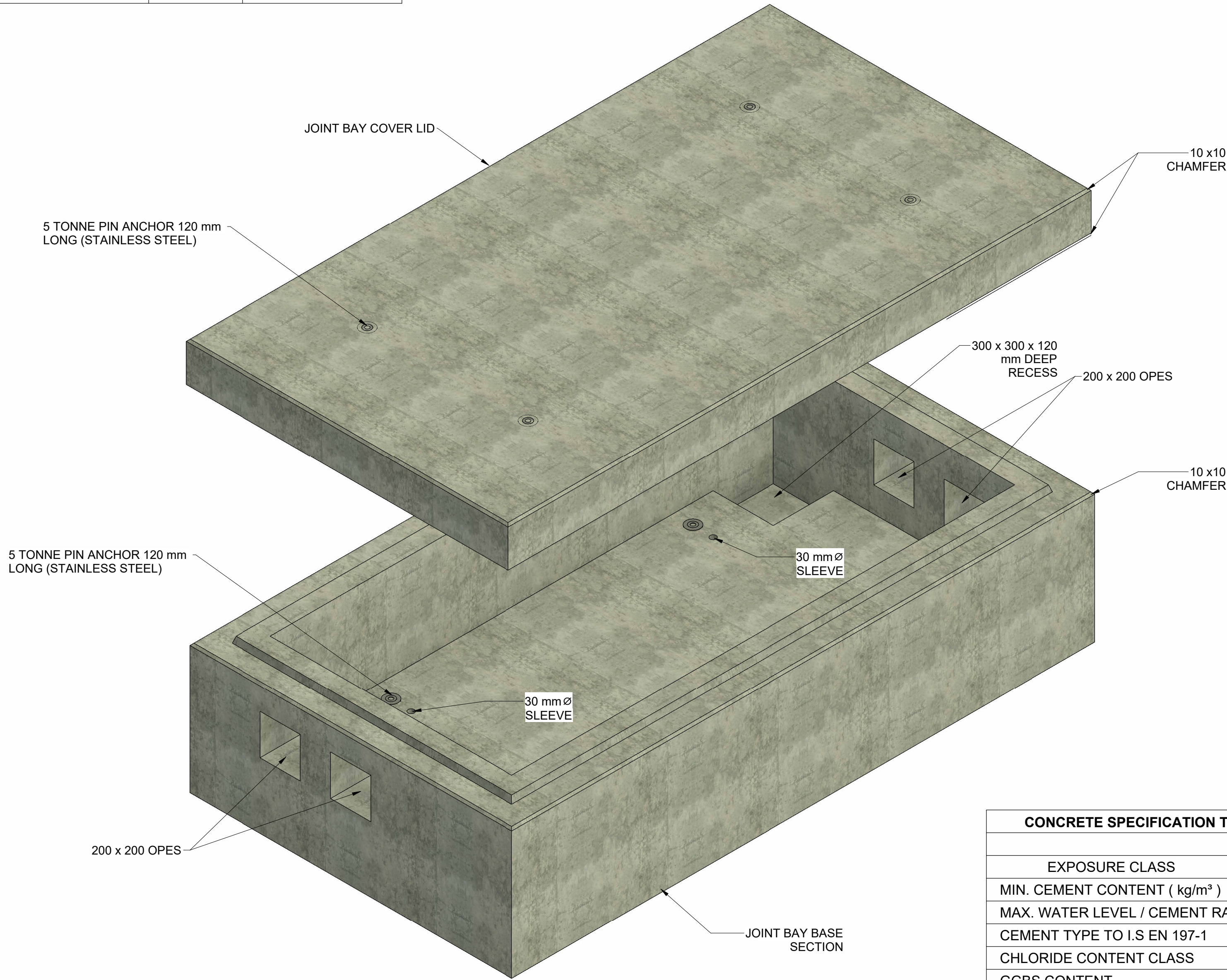


UNITS	QUANTITY	WEIGHT (PER UNIT)
JOINT BAY BASE SECTION	1	4.0
JOINT BAY COVER LID	1	2.04



ISOMETRIC VIEW SHOWING MV JOINT BAY DETAILS

SHEET 1 DRAWING INDEX			
DRAWING NUMBER	SHEET No.	DESCRIPTION	REVISION No.
PE424-D7002-003-001	1	20 kV SINGLE CIRCUIT PRECAST JOINT BAY INDEX SHEET AND ISOMETRIC VIEW	3
PE424-D7002-003-002	2	20 kV SINGLE CIRCUIT PRECAST JOINT BAY GENERAL ARRANGEMENT	3
PE424-D7002-003-003	3	20 kV SINGLE CIRCUIT PRECAST JOINT BAY REINSTATEMENT DETAILS	3
PE424-D7002-003-004	4	REINFORCEMENT DETAILS OF 20 kV SINGLE CIRCUIT PRECAST JOINT BAY	1
PE424-D7002-003-005	5	REBAR SCHEDULE FOR 20 kV SINGLE CIRCUIT PRECAST JOINT BAY	1

GENERAL NOTES

1. ALL DIMENSIONS ARE IN METERS. DO NOT SCALE; IF IN DOUBT, ASK
2. FOR SITE INVESTIGATION DETAILS, REFER TO THE GROUND INVESTIGATION REPORTS.
3. NO EXCAVATION WORK SHALL COMMENCE UNTIL THE CONTRACTOR HAS CONSULTED UP-TO-DATE UTILITY RECORDS, AND CARRIED OUT THE NECESSARY AND APPROPRIATE SERVICE LOCATION SURVEYS.
4. ALL KNOWN OR SUSPECTED BURIED SERVICES SHALL BE CLEARLY MARKED ON THE GROUND
5. NO EXCAVATIONS SHALL TAKE PLACE WITHOUT A PERMIT TO EXCAVATE UNDER CMP 13 - CONTRACTOR SAFETY REGULATIONS.
6. EXCAVATIONS WITHIN 500 mm OF SUSPECTED OR KNOWN BURIED SERVICES SHALL BE CARRIED OUT BY HAND ONLY.
7. A PICW SHALL BE PRESENT DURING ALL EXCAVATIONS IN THE VICINITY OF EXISTING POWER CABLES, SUBJECT TO AGREEMENT WITH ESB NETWORKS AND COMPLETION OF A RISK ASSESSMENT.
8. MINIMUM 600 mm COVER FROM FINISHED ROAD / GROUND LEVEL TO THE TOP OF THE JOINT BAY COVER SLAB
9. CONTRACTOR / PSCS TO ACCESS, DESIGN AND IMPLEMENT ANY TEMPORARY WORKS REQUIRED TO MAINTAIN GROUND STABILITY AROUND AROUND THE JOINT BAY PERIMETER DURING INSTALLATION AND SUBSEQUENT ACCESS TASKS AT THE JOINT BAY
10. TEMPORARY AND PERMANENT REINSTATMENT SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE RELEVANT ROADS AUTHORITY / LANDOWNER
11. JOINT BAYS IN NATIONAL (N) AND MOTORWAY (M) ROADS SHALL BE WATERPROOFED
12. JOINT BAYS LOCATED WITHIN REGIONAL (R), LOCAL (L) OR OTHER ROADS SHALL NOT REQUIRE WATERPROOFING UNLESS REQUIRED BY THE RELEVAND ROADS AUTHORITY
13. TO BE READ IN CONJUNCTION WITH DRAWING PE424-D7002-003-002 AND PE424-D7002-003-003

AWAITING APPROVAL

CONCRETE SPECIFICATION TO I.S. EN 206:2013 & TII DESIGN FOR DURABILITY DN-STR-03012 (SEPT 2024)	
COVER SLAB 20 kV JOINT BAY	
EXPOSURE CLASS	XD3 TOP AND SIDES, XD1 BOTTOM FACE
MIN. CEMENT CONTENT (kg/m³)	400
MAX. WATER LEVEL / CEMENT RATIO	.45
CEMENT TYPE TO I.S EN 197-1	CEM I N & CEM IIB-S
CHLORIDE CONTENT CLASS	CL. 0,40
GGBS CONTENT	> 30%
MAX. AGGREGATE (mm)	20
MIN. COVER (Cmin) (mm)	50 mm TOP AND SIDES, 40 mm BOTTOM
*COMPRESSIVE STRENGTH CLASS	C50/60
NOTES: 1. *C50/60 TO BE READ AS FOLLOWS: 50 - REFERS TO MIN. CHARACTERISTIC CYLINDER STRENGTH (N/mm²) 60 - REFERS TO MIN. CHARACTERISTIC CUBE STRENGTH (N/mm²)	
2. DESIGN WORKING LIFE TO BE 120 YEARS MINIMUM	

CONCRETE SPECIFICATION TO I.S. EN 206:2013 & TII DESIGN FOR DURABILITY DN-STR-03012 (SEPT 2024)	
WALLS AND FOUNDATION BASE 20 kV JOINT BAY	
EXPOSURE CLASS	XD2
MIN. CEMENT CONTENT (kg/m³)	400
MAX. WATER LEVEL / CEMENT RATIO	.45
CEMENT TYPE TO I.S EN 197-1	CEM I N & CEM IIB-S
CHLORIDE CONTENT CLASS	CL. 0,40
GGBS CONTENT	> 30%
MAX. AGGREGATE (mm)	20
MIN. COVER (Cmin) (mm)	45 mm
*COMPRESSIVE STRENGTH CLASS	C50/60
NOTES: 1. *C50/60 TO BE READ AS FOLLOWS: 50 - REFERS TO MIN. CHARACTERISTIC CYLINDER STRENGTH (N/mm²) 60 - REFERS TO MIN. CHARACTERISTIC CUBE STRENGTH (N/mm²)	
2. DESIGN WORKING LIFE TO BE 120 YEARS MINIMUM	

3	—	REFERENCES TO HBM A & UGM A REVISED, TITLE BLOCK REVISED, NOTES REVISED	K.R.	K.R.	—	—				
2	OCT.15	REPUBLISHED	G.R.	G.R.	M.A.	T.S.				
1	18.12.13	ISSUED FOR CONSTRUCTION	J.H.	J.H.	A.M.	T.S.				
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REV	DATE	REVISION DESCRIPTION	DRN	PROD	VER	APP				
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PURPOSE OF ISSUE - PRELIMINARY UNLESS INDICATED										
CLIENT APPROVAL	☐	PLANNING	☐	TENDER	☐	CONSTRUCTION	☒	AS-BUILT	☐	
Client	ESB NETWORKS									
Project	MV STANDARD DRAWINGS									
Contract	MV CABLE STANDARDS									
Drawing Title	20 kV SINGLE CIRCUIT PRECAST JOINT BAY INDEX SHEET AND ISOMETRIC VIEW									
Production Unit	NETWORK ASSETS									
 Engineering and Major Projects, The Slidings, Grand Canal Quay, Dublin 2, D02 E7K8, Ireland. Tel: +353 (0)1 703 8000 Web: www.esb.ie Engineering and Major Projects is a division of ESB										
DRAWN K. Rooney	PRODUCED	VERIFIED	APPROVED	APPO DATE						
CLIENT REF			No. of Shs	SIZE A1	SCALE					
DRAWING NUMBER	PE424-D7002-003-001-003				SHEET	REV				