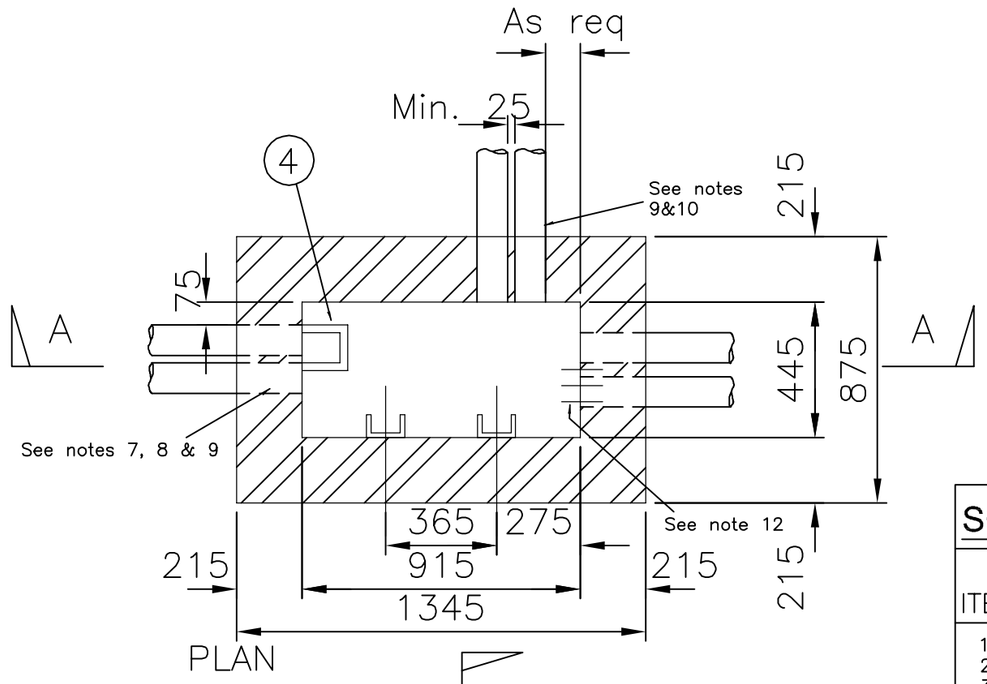
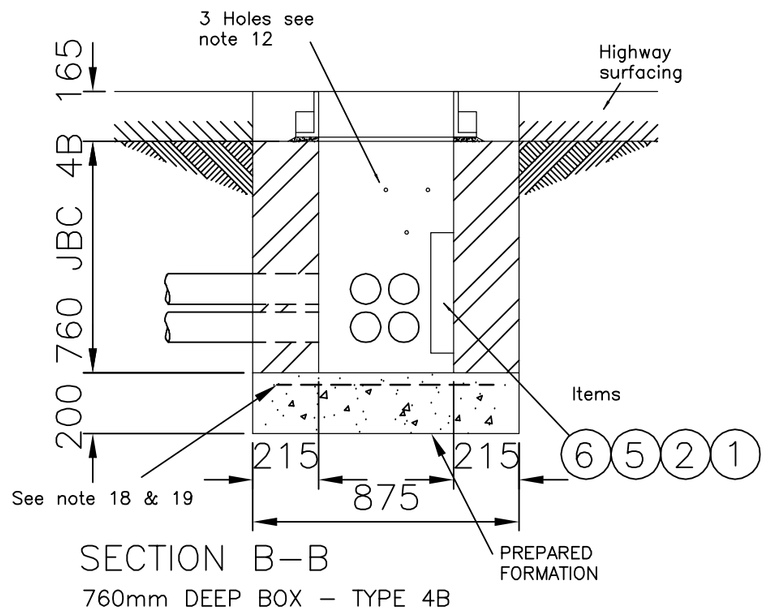
ORIGINAL FRAME SIZE A2 420mm X 574mm | PRODUCED BY CAD DO NOT MODIFY | DIMENSIONS IN mm UNLESS OTHERWISE STATED | DO NOT SCALE | THIRD ANGLE PROJECTION

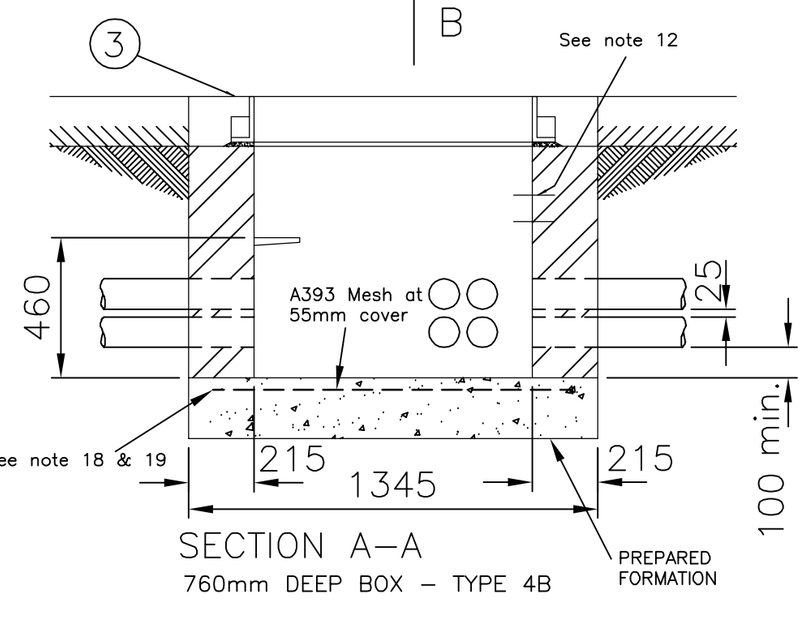
NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, DOCUMENTATION AND SPECIFICATIONS RELATING TO THIS JOINTBOX TYPE CONSTRUCTION.
2. WORKMANSHIP, MATERIALS AND METHOD OF CONSTRUCTION ARE TO COMPLY WITH ALL CURRENT RELEVANT CONTRACT DOCUMENTS, EUROCODES, AND CODES OF PRACTICE (RELEVANT TO THE CONSTRUCTION INDUSTRY) AND ACCEPTED CONSTRUCTION PRACTICE.
3. ALL EXISTING SERVICES POSITIONS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO STARTING THE WORKS.
4. ALL ACCEPTED SAFE DIGGING PRACTICES AND SAFE METHODS OF WORKING ARE TO BE EMPLOYED DURING THE INSTALLATION OF THE JOINTBOX.
5. CONCRETE TO BE GRADE C35/45 WITH A WATER CEMENT RATIO 0.4. MIN. CEMENT CONTENT 380kg/m³. AGGREGATE MAX. SIZE 20mm. ALL IN ACCORDANCE WITH BS8500 (BS EN206).
6. ALL DUCTS SHOWN ARE BASED ON MAXIMUM RECOMMENDED VALUES FOR DUCT TYPE 54D.
7. END DUCTS TO BE IN LINE.
8. WHERE POSSIBLE DUCTS TO BE POSITIONED NOT LESS THAN 75mm FROM A SIDE WALL.
9. MINIMUM REQUIRED DUCTS SHOWN SOLID FOR EACH JOINTBOX VARIATION.
10. SHORT LENGTHS OF DUCTS 54D TO BE USED ON NON-DUCTED ROUTES, APPROPRIATE DUCT TO BE USED ON DUCTED ROUTES.
11. ITEMS 1&2 ARE SHOWN IN TYPICAL POSITIONS, THEY MAY BE REPOSITIONED OR INCREASED TO SUIT LOCAL CONDITIONS.
12. DRILL 1 SET OF 3 HOLES USING A 12mm MASONRY DRILL BIT TO A DEPTH OF 80mm FOR POSSIBLE FUTURE FITTING OF MOBRA BRACKET, SEE DRAWING CN15562 FOR DRILLING DETAILS.
13. IF OTIAN MOBRA BRACKET IS TO BE FITTED, LEAVE OUT WALL TYPE BEARERS AND STEPS. BOLTS FOUNDATION FOR WALL TYPE BEARERS SHOULD BE FITTED.
14. STEP MANHOLE TO BE FITTED IN ALL BOXES DEEPER THAN 700mm. THE STEP TO BE PROVIDED IN THE POSTION SHOWN ON THE END WALL REMOTE FROM ANY SIDE ENTRY DUCT.
15. FOR METHOD OF FIXING ITEM 4 SEE DRAWING CN1961.
16. BRICKS USED TO BE (MINIMUM) CLASS B ENGINEERING BRICKS. MORTAR TO BE CLASS (iii) 1:5 CEMENT:SAND RATIO (MAXIMUM) OR 1:1:5 CEMENT:LIME:SAND.
17. BRICKS AND MORTAR TO BE IN ACCORDANCE WITH BS EN1996.
18. 1N° LAYER A393 FABRIC MESH REINFORCEMENT IN TOP OF THE SLAB MINIMUM COVER 55mm TO ANY CONCRETE FACE. PROPRIETARY SPACERS TO BE USED.
19. MESH TO BE GRADE B500B OR B500C CONFORMING TO BS4483.
20. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS (SHW) AND ALL SUBSEQUENT AMENDMENTS.
21. ALL BACKFILL MATERIAL TO BE CLASS 6N TYPE.

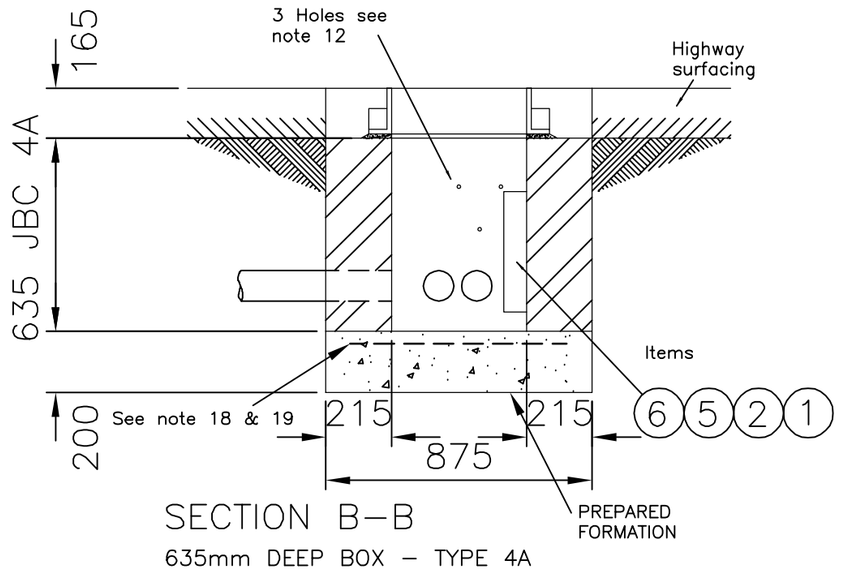




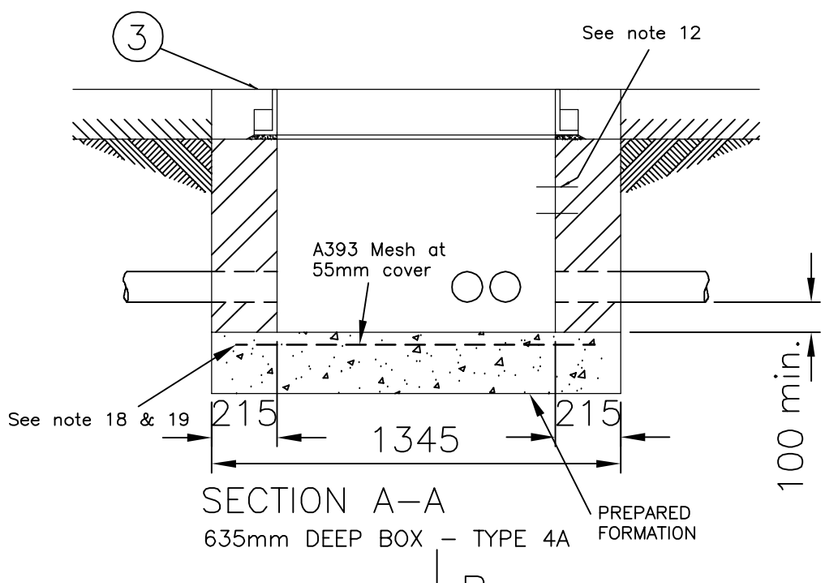
SECTION B–B
760mm DEEP BOX – TYPE 4B



SECTION A–A
760mm DEEP BOX – TYPE 4B



SECTION B–B
635mm DEEP BOX – TYPE 4A



SECTION A–A
635mm DEEP BOX – TYPE 4A

SCHEDULE

ITEM	DESCRIPTION	No. OFF DRWG	4A	4B
1	BOLTS, FOUNDATION, INDENTED No.2	CN1166 4	4	
2	CABLE BEARERS, WALL TYPE, No.2	CN1059	2	2
3	FRAME & COVER CARRAGEWAY No.4	----	1	1
4	STEPS, MANHOLE	CN1961	–	1
5	PIN LOCKING CABLE BEARER	CN1301	2	2
6	BRACKET CABLE BEARER No.8	CN1069	2	2

JBC 4A 635mm DEEP
JBC 4B 760mm DEEP

TOLERANCES:– CN15456
BEDDING MATERIAL ±5
VOIDAGE 0.5%
MORTAR JOINTS ±5
DUCT ENTRY POSITION ±25mm DUCT FLUSH WITH WALL –10mm
WALL FLATNESS ±11mm
F & C LEVEL WITH HIGHWAY NIL
JOINT BOX INTERNAL LENGTH & WIDTH ±15
JOINT BOX INTERNAL HEIGHT/DEPTH ±10mm
STEEL DEPTH OF COVER ±5mm
STEEL DEPTH TO LUG ±5mm STEP POSITION ±15mm STEP HORIZONTAL ±5mm
VERTICALITY OF WALLS ±15mm
SLAB THICKNESS –10 TO +150mm
BOLT FOUNDATION ±5mm
OTIAN BOLT HOLES ±2mm

ANY MODIFICATION TO THE DRAWING OR THE USE OF ALTERNATIVE ITEMS TO THOSE SPECIFIED MUST BE AGREED WITH THE DESIGNER.

DIMENSIONS IN mm UNLESS OTHERWISE STATED | © British Telecommunications plc 2007 | DO NOT SCALE | ORIGINAL SCALE 1:20

A2 / A3	DRN OMS CKD OMS CERTIFICATION **DESIGNER** BT **CLIENT** BT	MATERIAL – FINISH –	OMS Drawing Review Drawing number amended to 03 of 03 Prepared formation note added BT OMS 14.10.15	C	TOLERANCES TO BS8666, BS EN1992. BS5606 TABLES 2 & 3 CN15456
DATE Dec 2007			AMENDMENT	ISSUE	Openreach BEA3

JOINT BOX CARRIAGEWAY JBC 4 A & B BRICKWORK CONSTRUCTION

REFERENCES
SPEC LN 550
CN15562

CN 15644 SHT 03 OF 03

CN15644S03