

- NOTES
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, DOCUMENTATION AND SPECIFICATIONS RELATING TO THIS JOINTBOX TYPE CONSTRUCTION
  - WORKMANSHIP, MATERIALS AND METHOD OF CONSTRUCTION ARE TO COMPLY WITH ALL CURRENT RELEVANT CONTRACT DOCUMENTS, BRITISH STANDARDS, AND CODES OF PRACTICE (RELEVANT TO THE CONSTRUCTION INDUSTRY) AND ACCEPTED CONSTRUCTION PRACTICE.
  - ALL EXISTING SERVICES POSITIONS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO STARTING THE WORKS.
  - ALL ACCEPTED SAFE DIGGING PRACTICES AND SAFE METHODS OF WORKING ARE TO BE EMPLOYED DURING THE INSTALLATION OF THE JOINTBOX.
  - 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 (BE EN206).
  - ALL DUCTS SHOWN ARE BASED ON MAXIMUM RECOMMENDED VALUES FOR DUCT TYPE 54D.
  - END DUCTS TO BE IN LINE.
  - WHERE POSSIBLE DUCTS TO BE POSITIONED NOT LESS THAN 75mm FROM A SIDE WALL.
  - MINIMUM REQUIRED DUCTS SHOWN SOLID FOR EACH JOINTBOX VARIATION.
  - SHORT LENGTHS OF DUCTS 54D TO BE USED ON NON-DUCTED ROUTES, APPROPRIATE DUCT TO BE USED ON DUCTED ROUTES.
  - ITEMS 1&2 ARE SHOWN IN TYPICAL POSITIONS, THEY MAY BE REPOSITIONED OR INCREASED TO SUIT LOCAL CONDITIONS.
  - 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.
  - IF OTIAN MOBRA BRACKET IS TO BE FITTED, LEAVE OUT WALL TYPE BEARERS AND STEPS. BOLTS FOUNDATION FOR WALL TYPE BEARERS SHOULD BE FITTED.
  - STEP MANHOLE TO BE FITTED IN ALL BOXES DEEPER THAN 700mm. THE STEP TO BE PROVIDED IN THE POSITION SHOWN ON THE END WALL REMOTE FROM ANY SIDE ENTRY DUCT.
  - FOR METHOD OF FIXING ITEM 4 SEE DRAWING CN1961.
  - SEE SHEET 02 OF 02 FOR REINFORCEMENT DETAILS AND NOTES.
  - ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS (SHW) 1998 AND ALL SUBSEQUENT AMENDMENTS.
  - ALL BACKFILL MATERIAL IS TO BE CLASS 6N TYPE.
  - ALL CONSTRUCTION JOINTS TO BE AS PER CLAUSE 1710 SHW.

DUCT DEPTHS OF COVER – (DoC)

MINIMUM DoC TO BE IN ACCORDANCE WITH CURRENT LN 550 SPEC.N AND INDUSTRY STANDARD GUIDELINES AND APPROVED BEST PRACTICES:–

FOOTWAY (F/W) 250mm (MIN)  
CARRIAGEWAY (C/W) 450mm (MIN) \*\*

\*\* SUBJECT TO DUCTS BEING INSTALLED BELOW DEPTH OF STRUCTURAL BUILD UP FOR C/W CONSTRUCTION FOR RELEVANT C/W CATEGORY.

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

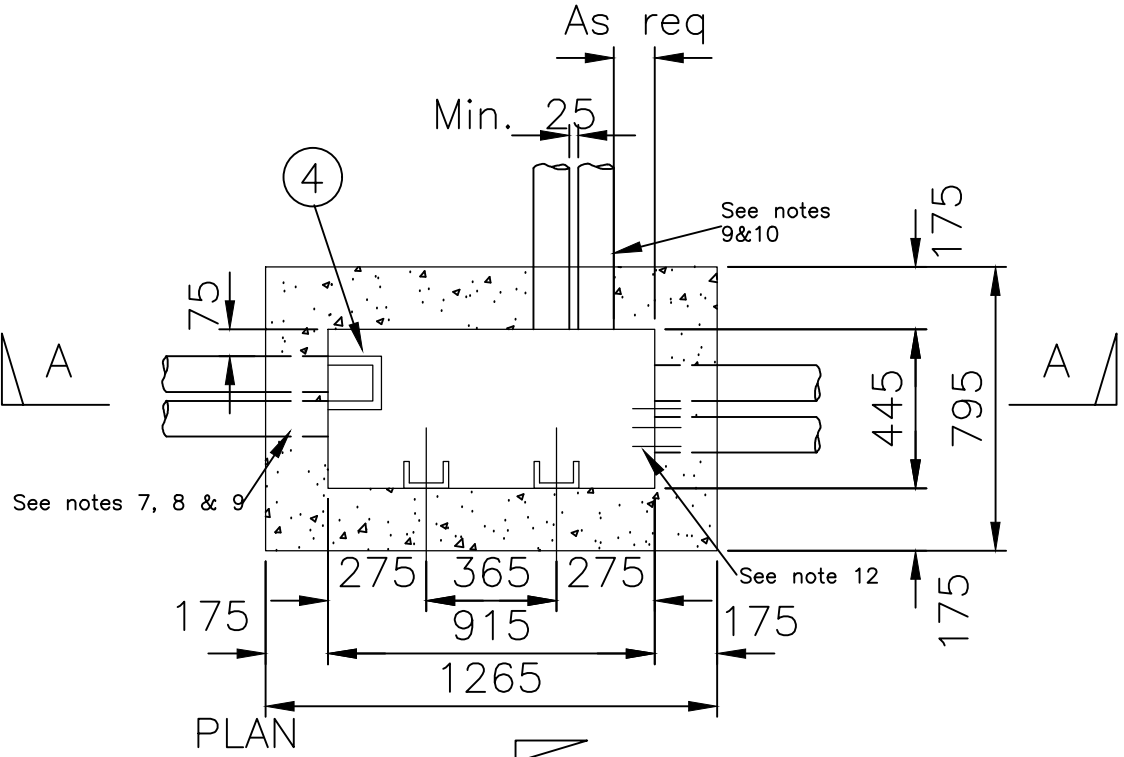
DIMENSIONS IN mm UNLESS OTHERWISE STATED

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DO NOT SCALE

ORIGINAL SCALE 1:20

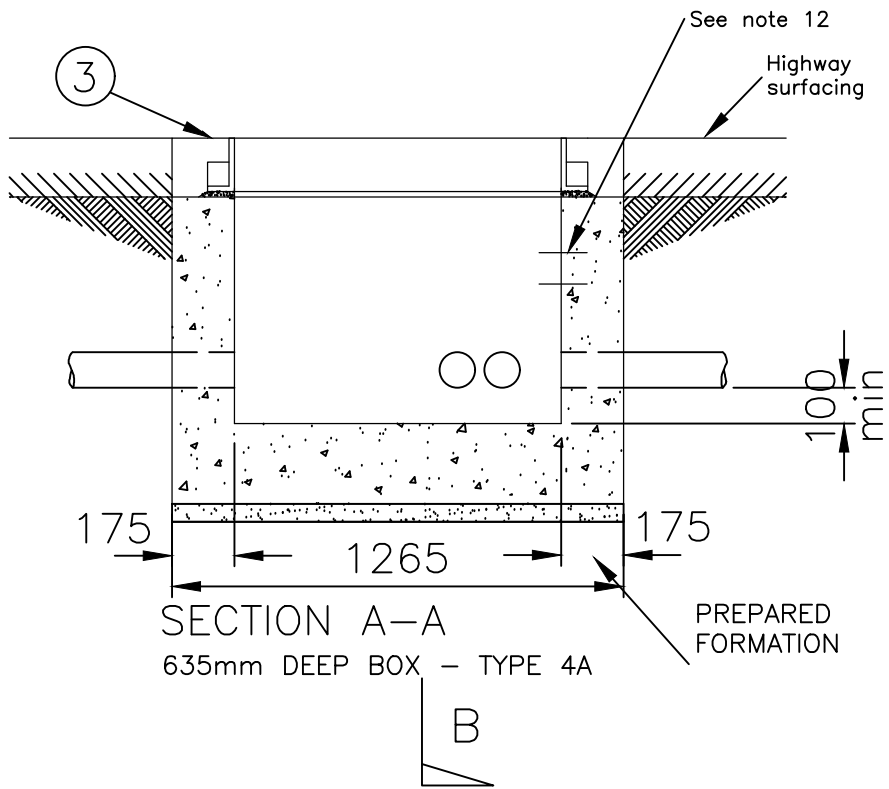
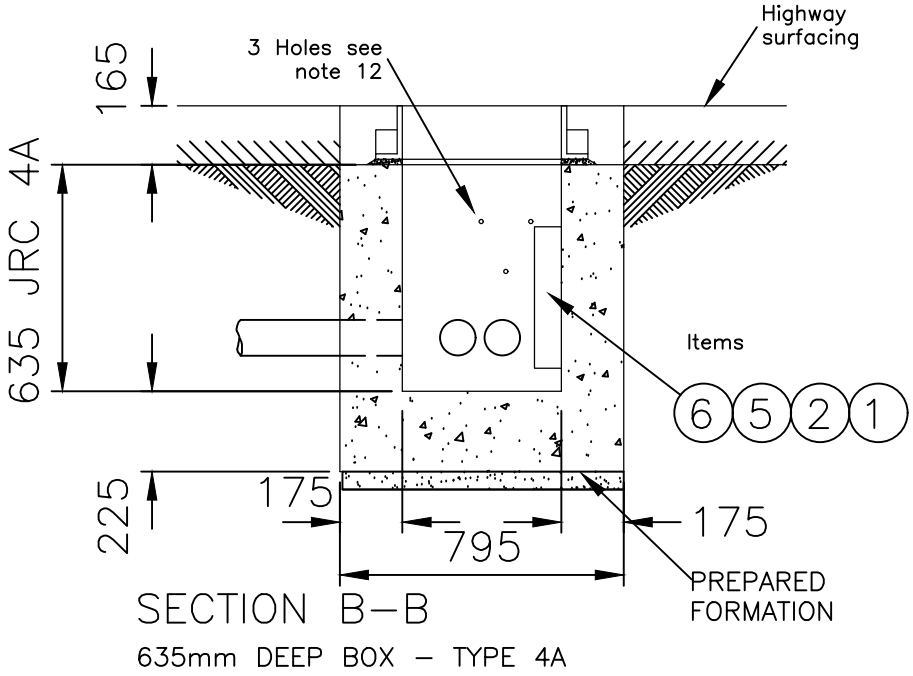
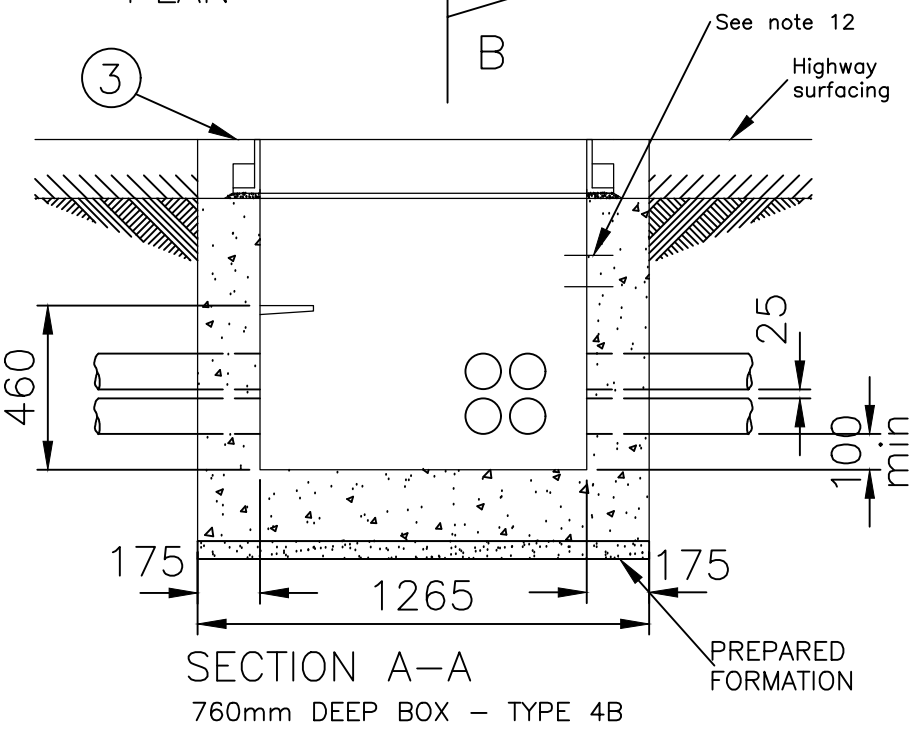
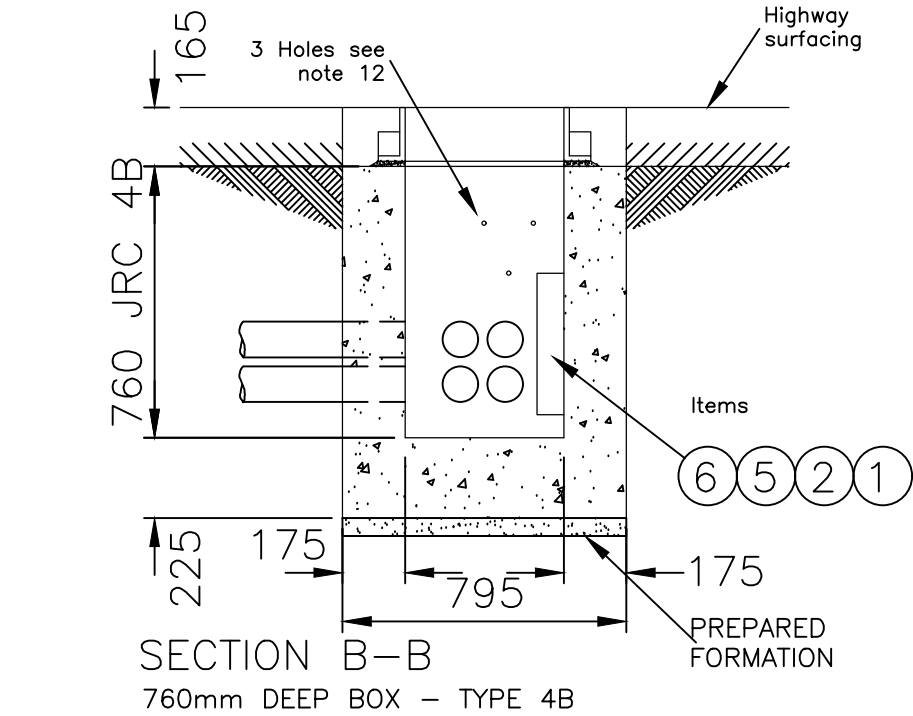
A2 A3	DRN OMS CKD OMS	MATERIAL —	General Drawing Review Note added re minimum duct depths. Minor drafting mods	E	JOINT BOX CARRIAGEWAY JRC 4 A & B CONCRETE		REFERENCES SPEC LN 550 CN15562	
	CERTIFICATION DESIGNER BT CLIENT BT	FINISH —						
	BT T&S Design 12.07.19							
DATE Dec 2007			AMENDMENT	ISSUE	Openreach	ALA944	CN 15644	SHT 01 OF 03



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 CARRIAGEWAY 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

JRC 4A 635mm DEEP  
JRC 4B 760mm DEEP



TOLERANCES:– CN15456

- BEDDING MATERIAL ±5  
VOIDAGE 0.5%  
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 BARS ALIGNMENT  
VERTICAL & HORIZONTAL ±15mm  
NEAR FACE TO FAR FACE ±15mm  
STEEL CAGE GRID PATTERN ±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