

OPTION 1

CONCRETE SLAB

MANHOLE SHAFT USING A FRAME & COVER CARRIAGEWAY NO.1

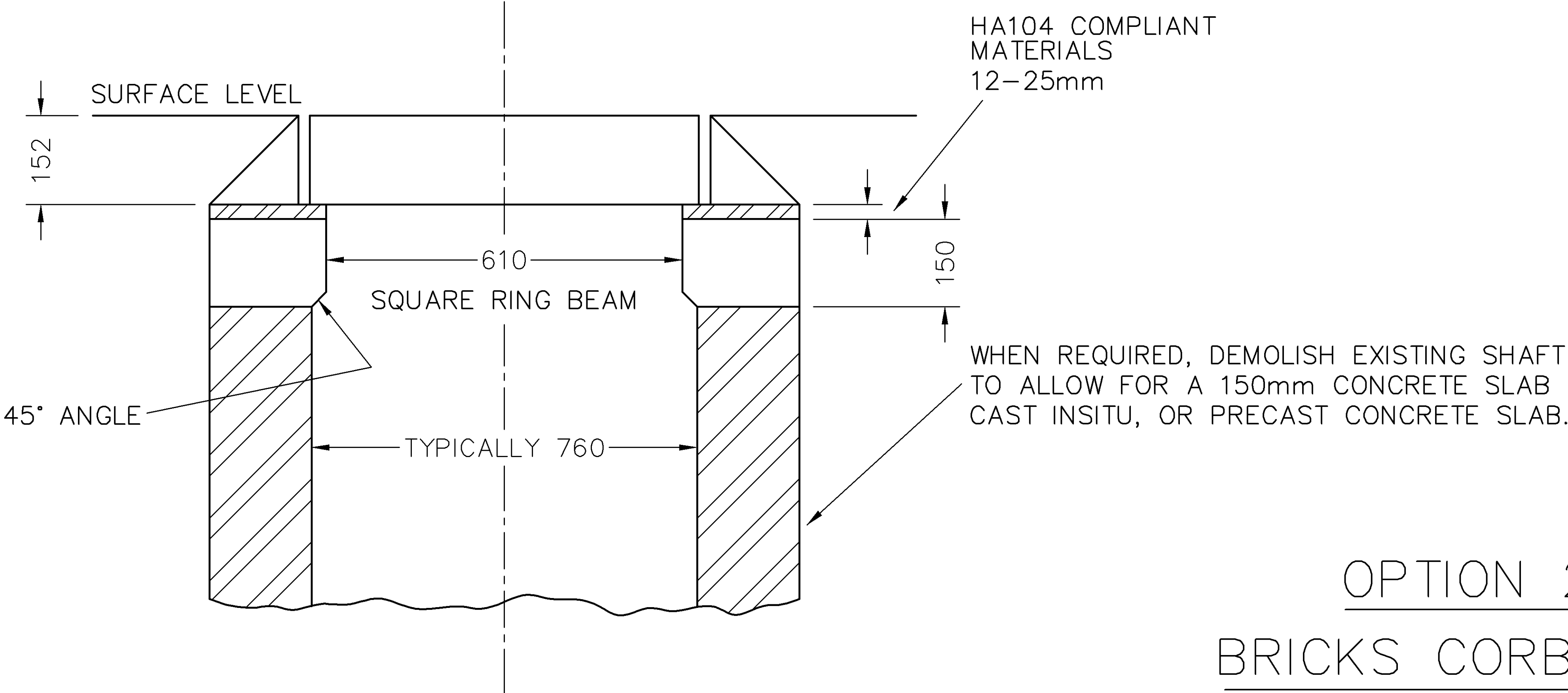
TABLE 1

CARRIAGEWAY FRAMES & COVERS REQUIRE THE FOLLOWING
INTERNAL CLEAR OPENING DIMENSIONS: –

FRAME & COVER No. 1	610 x 610	MANHOLE SHAFT
FRAME & COVER No. 2	1220 x 680	JRCX 12
FRAME & COVER No. 3	1820 x 680	JRCX 11 & 14

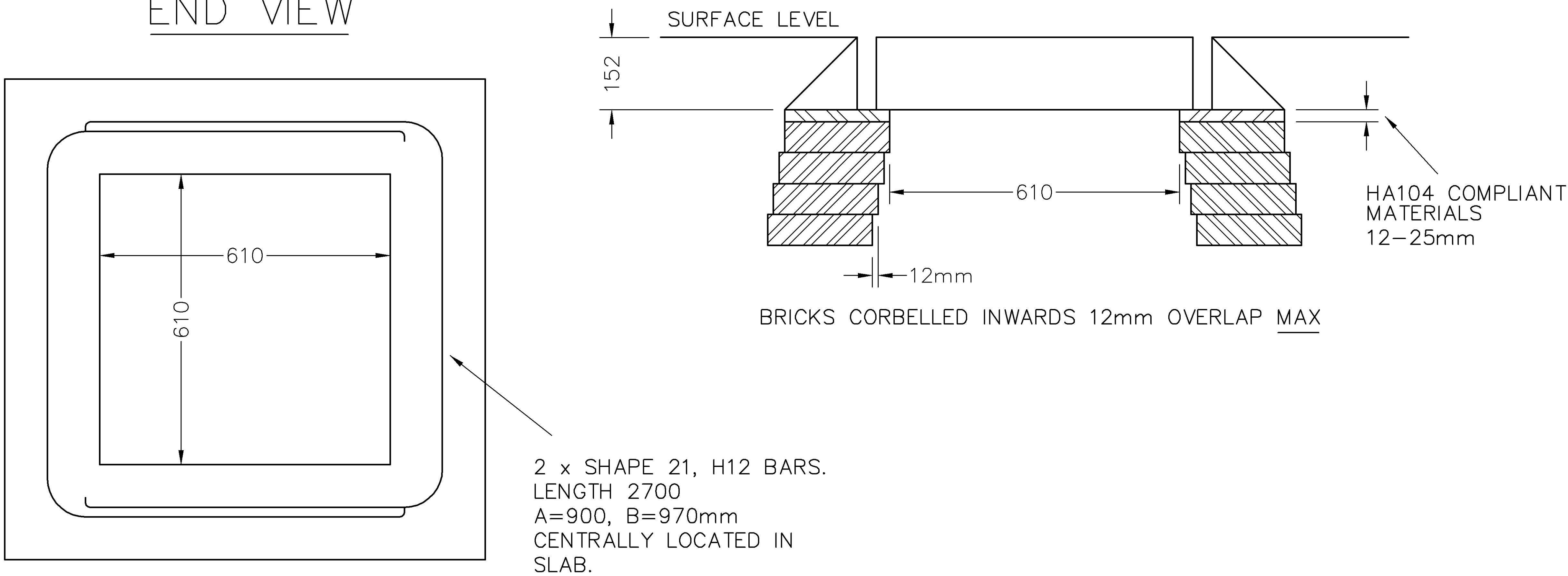
NOTES: –

- WHERE AN EXISTING BRICK OR CONCRETE MANHOLE SHAFT HAS A LARGER INTERNAL OPENING THAN THAT STATED IN TABLE 1 REFER TO FIGURE 1. ANY STEPS MANHOLE THAT IS REMOVED SHALL BE REPLACED AS PER CN1153,1961 & LN550 PART 11.
- WHERE AN EXISTING BRICK OR CONCRETE MANHOLE SHAFT HAS A REDUCED INTERNAL OPENING THAN THAT STATED IN TABLE 1, DEMOLISH SHAFT AND REBUILD TO CN1153.
- WHERE AN EXISTING CONCRETE CHAMBER HAS REDUCED INTERNAL OPENING DIMENSIONS THAN THAT STATED IN TABLE 1 REFER TO SHEET 2 OPTION 1 OR 2.
- WHERE AN EXISTING BRICK CHAMBER HAS REDUCED INTERNAL OPENING DIMENSIONS THAN THAT STATED IN TABLE 1 REFER TO SHEET 2 OPTION 1 ONLY.
- FIGURE 1 SHEET 3 REFERS TO AN EXISTING CONCRETE CHAMBER WITH A ROOF BEAM THAT REQUIRES ONLY MINIMAL CUTTING BACK TO ACCEPT A FRAME & COVER CARRIAGEWAY No.3.
- WHERE AN EXISTING FOOTWAY MANHOLE SHAFT IS GREATER THAN 610 X 610mm REFER TO FIGURE 2 SHEET 3. HA104 COMPLIANT MATERIAL CAN BE USED TO INSTALL THE FRAME.
- ALL DEMOLITION OF EXISTING CONCRETE SLABS SHALL BE BY SKILL SAWS AND THE MINIMUM USE OF PNEUMATIC HAMMERS. ALL REINFORCEMENT BARS CUT SHALL BE TREATED WITH A RUST INHIBITOR OR CAPPED WITH RESIN MORTAR.
- ALL FRAME & COVER CARRIAGEWAY INSTALLATIONS SHALL BE TO SPECIFICATION LN550 (PART 9) FOR BT TERM CONTRACTORS, OR LN320 HIGHWAY AUTHORITY CONTRACTORS, USING HA104 COMPLIANT BEDDING MATERIALS ONLY. THE FRAME & COVER TO BE BEDDED ON TYPICALLY 12mm–25mm BED.
- ALL CONCRETE USED SHALL BE MINIMUM GRADE C32/40, ALL BRICKS USED ARE TO BE CLASS B ENGINEERING OR BETTER. IF A PRECAST SLAB, MIN. C32/40, IS USED IT SHALL BE BEDDED WHERE REQUIRED WITH RESIN MORTAR.
- IN ALL INSTALLATION CASES THE REPLACED FRAME & COVER SHALL BE CENTRALLY LOCATED AND FULLY SUPPORTED ON ALL FOUR WALL SLABS.
- ALL WORK & CURING TIMES TO BE AS PER SPECIFICATION LN550 OR LN320.



OPTION 2

BRICKS CORBELLED



PLAN VIEW

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 1:10

A2 A3	DRN D.O CKD J.P/G.C.M	MATERIAL	REFS TO HA104 COMPLIANT MATERIALS ADDED.	G	TOLERANCES	RENEWING EXISTING FRAMES & COVERS WITH FRAME AND COVER CARRIAGEWAY NO.S 1, 2 AND 3 AND FOOTWAY FRAME AND COVER NO. 5	REFERENCES SPEC LN550
	CERTIFICATION DESIGNER EDWARD CLIENT N/A						FINISH
	DATE 6/4/60	D.CUSSELLE S.A.D 24/09/09					
AMENDMENT			ISSUE	OPENREACH	BEA3		CN 1750