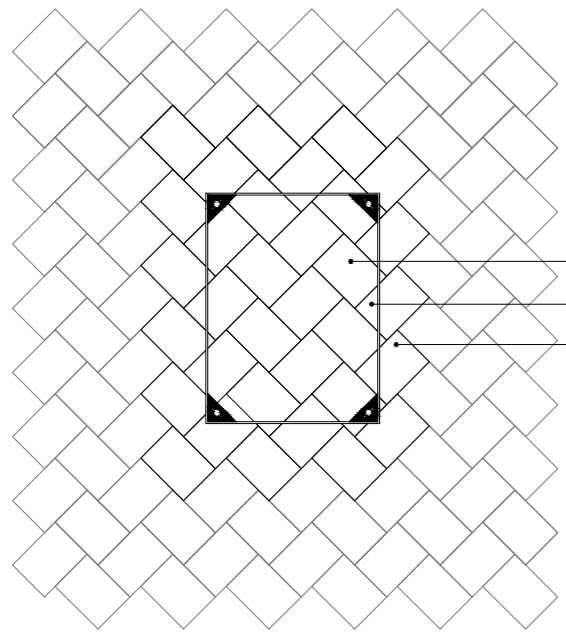


TYPICAL RECESSED UNIT SERVICE COVER INTRUSION SURFACE TREATMENT

MANHOLE COVER TYPE: As specified by Others
BLOCK INFILL TYPE: To match adjacent paved unit surrounds
BLOCK UNIT DIMENSIONS: To match adjacent paved unit surrounds
COLOUR: To match adjacent paved unit surrounds
BOND: To match adjacent paved unit surrounds

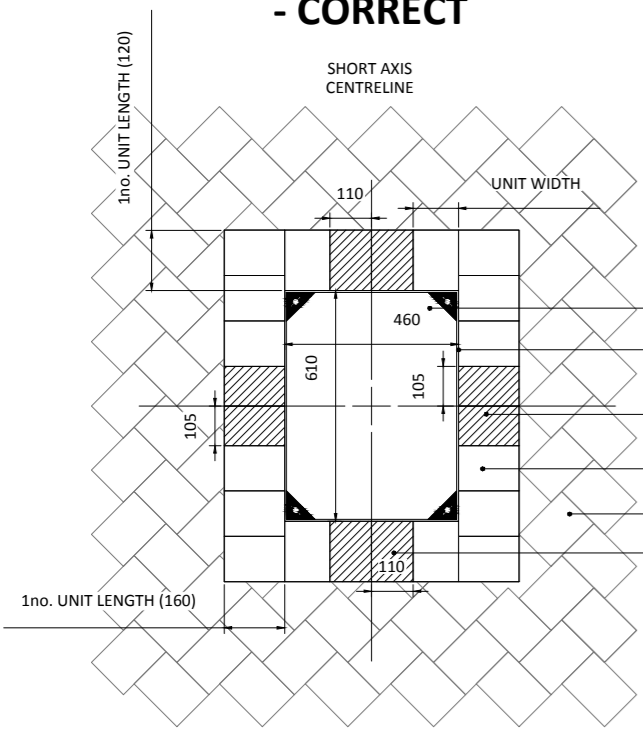


TYPICAL RECESSED MANHOLE COVER INTRUSION
 UNITS CUT TO MATCH ADJACENT PAVED UNIT SURROUNDS
 ADJACENT PAVED UNIT SURROUNDS

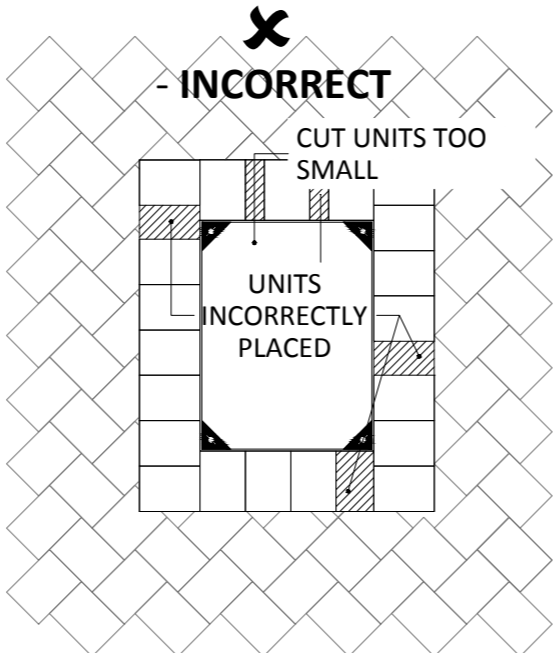
✓
- CORRECT

TYPICAL SERVICE COVER INTRUSION SURFACE TREATMENT

MANHOLE COVER TYPE: By Others.
SOLDIER COURSE TYPE: To match adjacent paved unit surrounds
UNIT DIMENSIONS: To match adjacent paved unit surrounds
COLOUR: To match adjacent paved unit surrounds



TYPICAL MANHOLE COVER INTRUSION
 MANHOLE COVER FRAME
 UNITS CUT TO SUIT & MIRRORED OVER CENTRELINE
 SOLDIER COURSE
 PAVED SURROUNDS
 UNITS CUT TO SUIT



✗
- INCORRECT

N.B. CUT UNITS TO BE CENTRED OFF THE LONG & SHORT AXIS CENTRELINE OF THE SERVICE/UTILITIES COVER FRAME.
 CENTRE LINE = MIRROR LINE = 1/2 WIDTH OR 1/2 LENGTH [OF THE MANHOLE COVER FRAME].
 MIRROR/COPY UNIT PLACEMENT ACROSS CENTRELINE.
 CUT UNITS: NOT LESS THAN APPROX. 1/3 FULL UNIT WIDTH. REASON: TO PREVENT ODD PLACEMENT OF CUT UNITS/SMALL UNIT 'SLIPS'.
 CUTS TO 1, 2, OR MORE PAVIOUR UNITS ARE THEREFORE POSSIBLE FROM THE CENTRELINE OUTWARDS.

WORKED EXAMPLE
 ASSUME MANHOLE FRAME = 460x610mm & PAVIOUR UNIT DIMENSIONS = 120x160mm

STEP 1: DETERMINE MANHOLE FRAME CENTRE DIMENSIONS

LONGITUDINAL FRAME CENTRE: 610/2 = 305
 TRANSVERSE FRAME CENTRE: 460/2 = 230

STEP 2: DETERMINE MINIMUM SIZE OF CUT UNIT

MINIMUM SIZE OF CUT UNIT: 120/3 = 40
 40x2 = 80mm

STEP 3: DETERMINE UNITS REQUIRED ACROSS TRANSVERSE SECTION OF MANHOLE FRAME

UNITS REQUIRED ACROSS FRAME WIDTH*:
 460/120 = 3.833 UNITS. GIVING 1 FULL UNIT + 0.833 UNIT (100mm approx) + 2 FULL UNITS CONCLUSION: MIRRORING NOT POSSIBLE. FAIL.

THEREFORE DETERMINE UNITS REQUIRED TO CENTRELINE:**
 230/120 = 1.916 UNITS. GIVING 1 FULL UNIT + 0.916 UNIT (110mm approx). CONCLUSION. CUT >80mm. MIRRORING POSSIBLE. RESOLVED.

STEP 4: DETERMINE UNITS REQUIRED ACROSS LONGITUDINAL SECTION OF MANHOLE FRAME

FRAME LENGTH + (SOLDIER COURSE BOTH SIDES) = 610 + (160x2) = 930
POTENTIAL UNITS REQUIRED ALONG WHOLE LENGTH*:
 930/120 = 7.75 UNITS (GIVING 3 FULL UNITS + 0.75 UNIT (90mm) + 4 FULL UNITS.) CONCLUSION: MIRRORING NOT POSSIBLE. FAIL.

UNITS REQUIRED TO CENTRE LINE:**
 465/120 = 3.875 UNITS (WHICH GIVES 3 FULL UNITS + 0.875 UNIT (105mm) TO CENTRE LINE. CONCLUSION. CUT >80mm. MIRRORING POSSIBLE. RESOLVED.

WHAT THE NUMBERS MEAN

***UNITS REQUIRED ALONG RUN:**
 ODD/EVEN WHOLE (INTEGER) NUMBER = RESOLVED. ODD NUMBER + DECIMAL = MIRRORING NOT POSSIBLE. FAIL. EVEN NUMBER + DECIMAL = DEPENDANT ON CUT SIZE.

DECIMAL FRACTION = CHECK MEETS MINIMUM SIZE OF CUT. I.E. DECIMAL >0.666 = YES. IF, NO (<0.666) = INCREASE NO. CUT BLOCKS AS REQUIRED.

****UNITS REQUIRED TO CENTRE LINE:**
 ODD/EVEN WHOLE (INTEGER) NUMBER = RESOLVED. ODD NUMBER + DECIMAL = @ EXACTLY 0.5 = YES (0.5 REPRESENTS (UNCUT) BLOCK PLACED HALF & HALF OVER CENTRE LINE), THEREAFTER: TO MEET MINIMUM SIZE OF CUT. EVEN NUMBER = RESOLVED. EVEN NUMBER + DECIMAL = AS ODD DECIMAL EQUIV.

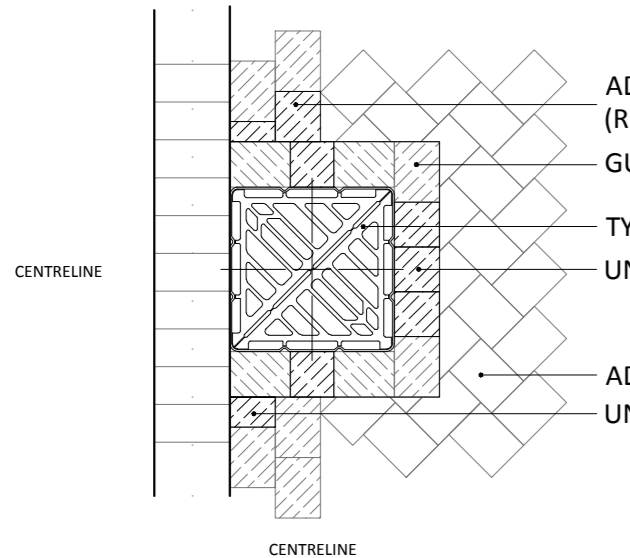
DECIMAL FRACTION = CHECK MEETS MINIMUM SIZE OF CUT. I.E. DECIMAL >0.666 = YES. IF, NO (<0.666) = INCREASE NO. CUT BLOCKS AS REQUIRED.

TYPICAL GULLY GRATE / DRAIN COVER INTRUSION INTO BLOCK PAVIOUR / SETTS SURFACE TREATMENT

GULLY GRATE TYPE: To match Civil Engineers design, specification & construction details
GULLY GRATE SURROUNDS: To match adjacent paved unit surrounds
BLOCK UNIT DIMENSIONS: To match adjacent paved unit surrounds
COLOUR: To match adjacent paved unit surrounds
BOND: Running, single course, mirrored over gully grate frame centreline

N.B. treat gully grate surrounds as separate from soldier course running parallel to kerb line. Reason: Distance between drain units are not necessarily block unit dimension dependant. Where gully grate frame flanges prevent direct block abutment; blocks shall be moved outward (to 100mm max.), centrally spaced, and the gap infilled using C35 air-entrained concrete to BS EN 206-1, hand trowelled finish.

SIDEWALK KERB SOLDIER COURSE CARRIAGEWAY



ADJACENT KERB LINE SOLDIER COURSE EDGE (ROWS & COURSING AS SPECIFIED)
 GULLY GRATE SURROUNDS (SINGLE SOLDIER COURSE)
 TYPICAL GULLY GRATE INTRUSION
 UNITS CUT TO SUIT & MIRRORED OVER CENTRELINE
 ADJACENT PAVED UNIT SURROUNDS
 UNITS CUT TO MAINTAIN SOLDIER COURSE BOND PATTERN

KEY

Notes

Drawing Revision

Rev	Date	Description
A	04/11/2015	Client name change.
.	02/10/2015	First issue.

Drawing Status

PLANNING

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Client

COUNTRYSIDE PROPERTIES (BICESTER) LTD.

Project

KINGSMERE, PHASE 1 LOCAL CENTRE

Drawing Title

GENERAL PAVING PRINCIPLES

Scale 1:20	Sheet Size A2	Date SEPT 2015
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Drawing No. 2226/LC/D001	Revision A
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