

THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF INSPIRE DESIGN & DEVELOPMENT LTD'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. INSPIRE DESIGN & DEVELOPMENT LTD ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. © INSPIRE DESIGN & DEVELOPMENT LTD 2020

NOTES:

- ALL MANHOLES AND SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED /CERTIFIED ON SITE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS
- MAINTENANCE AND CONSTRUCTION ARE TO BE AS PER MANUFACTURE'S INSTRUCTIONS
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY

KEY

- CONCRETE SURROUND TO BE GEN3 C20
- GRANULAR BEDDING AND SURROUND MATERIAL 20mm NOMINAL SINGLE SIZE UNEXCAVATED MATERIAL
- PLACED MATERIAL / CAPPING LAYER
- SUB-BASE COARSE GRADED AGGREGATE
- SELECTED EXCAVATED MATERIAL SHALL BE PLACED IN NO GREATER THAN 225mm LAYERS COMPLYING WITH THE CIVIL ENGINEERING SPECIFICATION WITHIN SEWERS OF ADOPTION 7TH EDITION REF 5.3.4
- GRANULAR SUB-BASE MATERIAL (TYPE 1) DEPOSITED IN LAYERS NOT EXCEEDING 225mm IN UNCONSOLIDATED LAYERS AND THEN FULLY COMPACTED.

REV	DATE	NAME	CHECK	NOTE
-----	------	------	-------	------

DRAWING STATUS:

FOR APPROVAL

CLIENT

ASHWOOD HOMES LTD



PROJECT

WOODROFFE

DRAWING TITLE

CONSTRUCTION DETAILS
SHEET 1

DRAWN	CHECKED	APPROVED
-------	---------	----------

AJS	CR	CR
-----	----	----

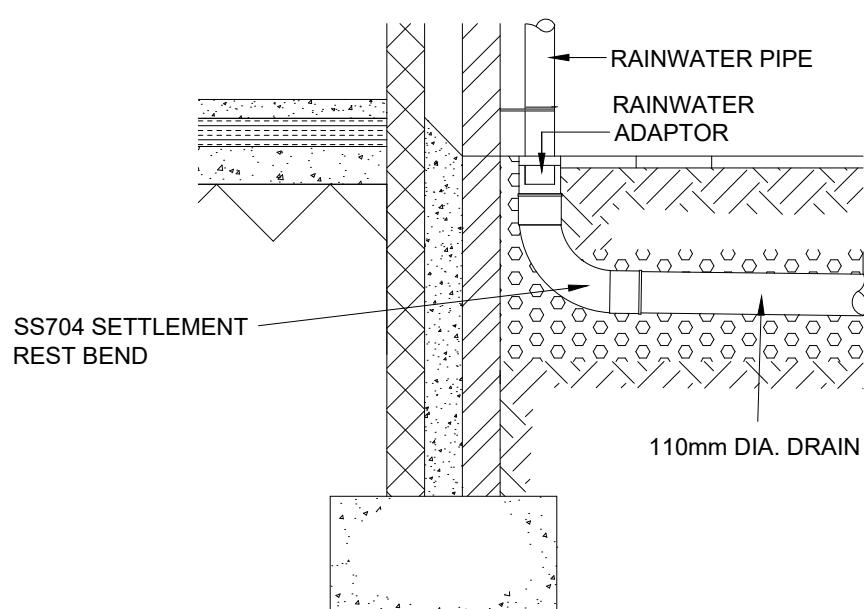
DATE	SCALE @ A1
------	------------

16 March 2020	N.T.S
---------------	-------

DRAWING No.	REVISION No.
-------------	--------------

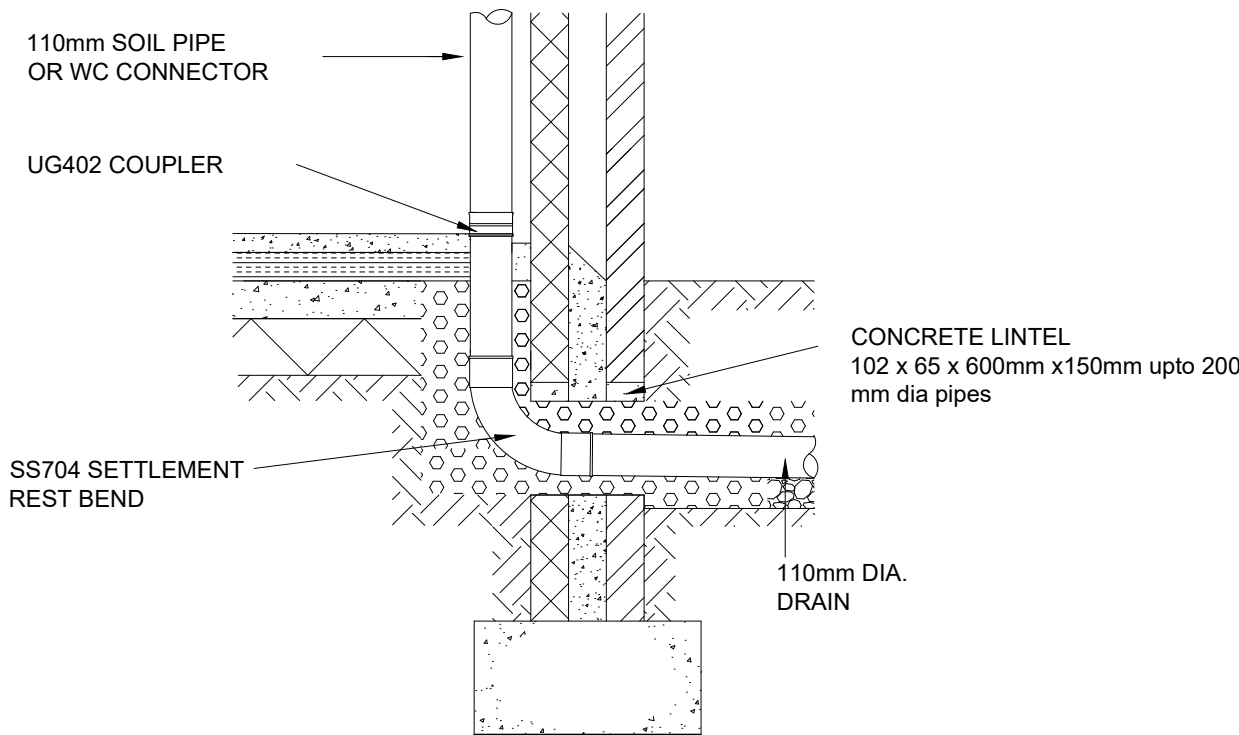
AHL-1413-01-DR-010

EXTERNAL RAINWATER PIPE CONNECTION

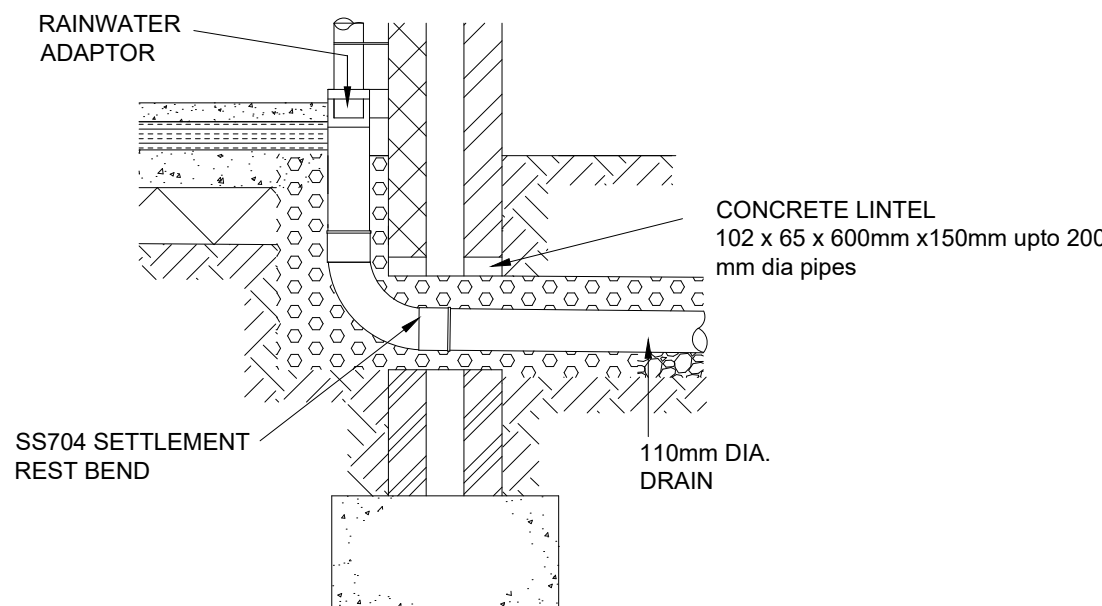


WHERE A COMBINED DRAINAGE SYSTEM IS BEING USED, A TRAPPED GULLY SHOULD BE USED AT THE BASE OF THE RAINWATER PIPE.

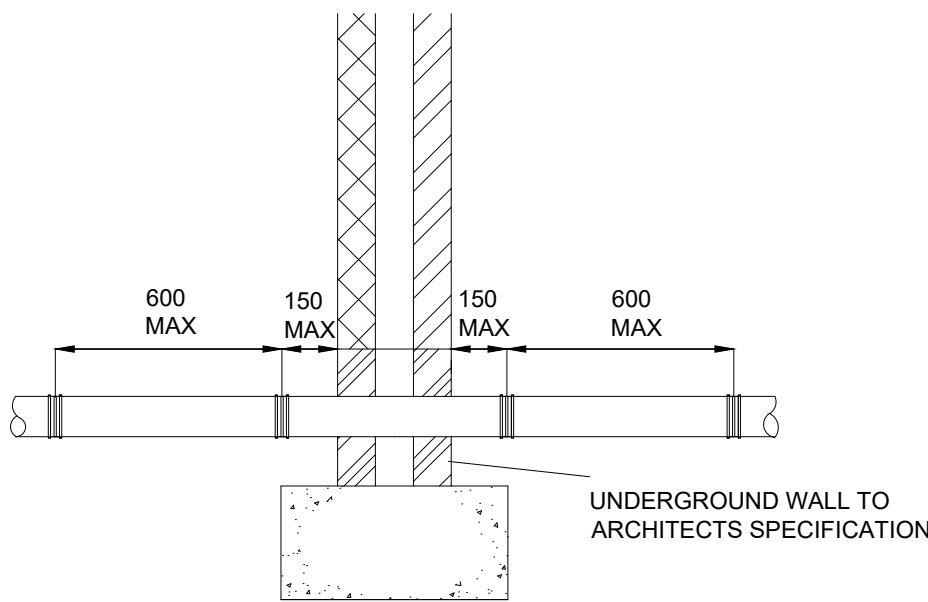
SOIL PIPE/WC CONNECTION



RAINWATER PIPE CONNECTION.



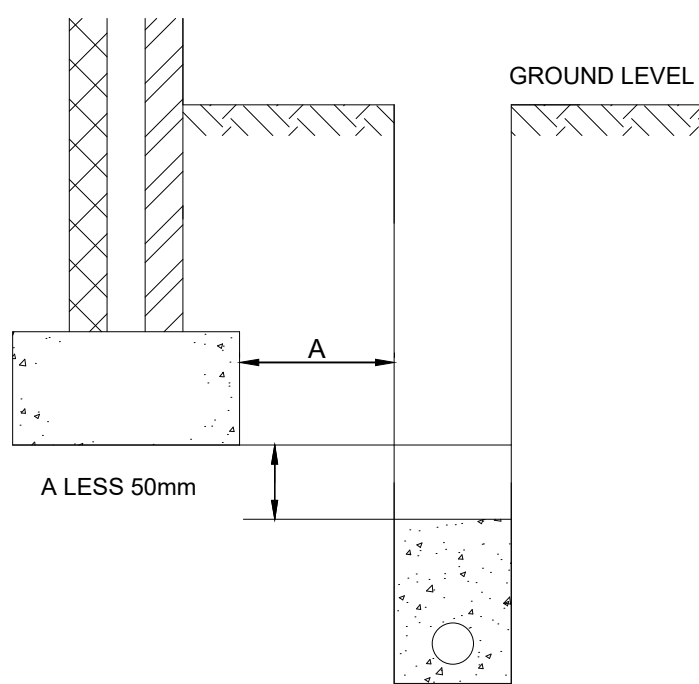
PIPES THROUGH WALLS



SHORT LENGTH OF PIPE BEDDED IN WALL WITH JOINTS WITHIN 150mm OF EACH WALL FACE.

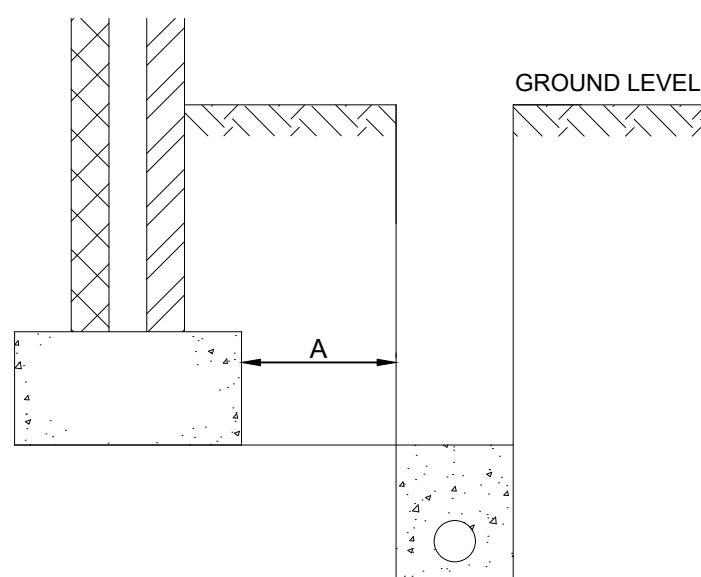
ADJACENT ROCKER PIPES OF 600mm MAX.LENGTH WITH FLEXIBLE JOINTS.

PIPES NEAR BUILDINGS



WHERE DIMENSION A IS GREATER THAN 1.0m, CONCRETE FILL TRENCH TO THIS LEVEL.

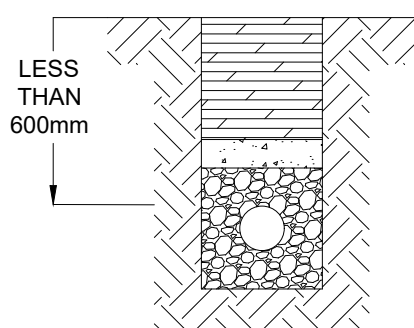
PIPES NEAR BUILDINGS



WHERE DIMENSION A IS LESS THAN 1m, CONCRETE FILL TRENCH TO LEVEL OF UNDERSIDE OF FOUNDATIONS.

PROTECTION FOR PIPES

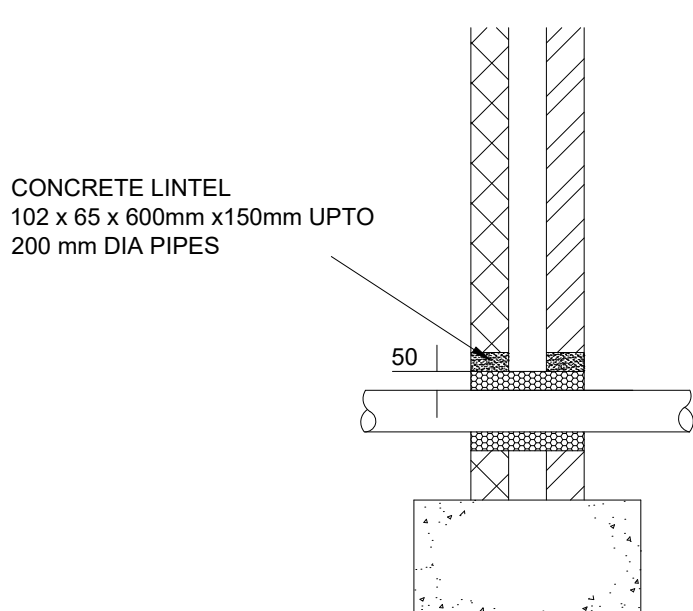
- PIPES LAID AT SHALLOW DEPTHS IN NON-TRAFFICKED AREAS.



PIPES LAID IN NON TRAFFICKED AREAS, E.G. IN GARDENS WITH LESS THAN 600MM OF COVER, SHOULD BE PROTECTED AGAINST DAMAGE BY PLACING PAVING SLABS OR SIMILAR OVER THEM ACROSS THE WHOLE WIDTH OF THE TRENCH.

A LAYER OF GRANULAR MATERIAL OF 75mm MIN THICKNESS MUST BE LAID BETWEEN PIPES AND PROTECTION

PIPES THROUGH WALLS



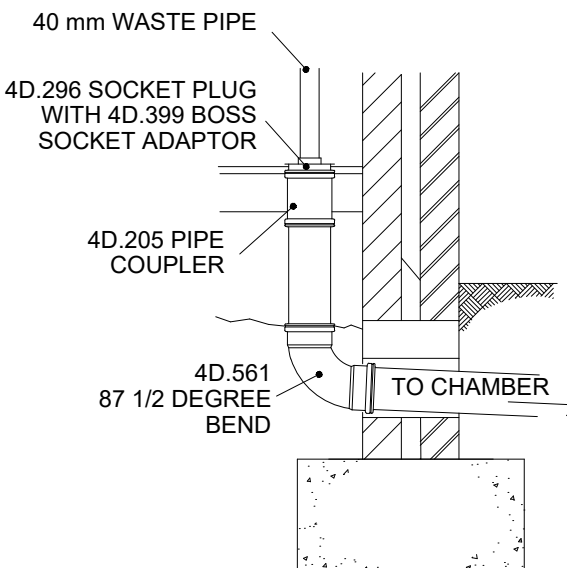
CONCRETE LINTEL
102 x 65 x 600mm x150mm UPTO
200 mm DIA PIPES

ARCH OR LINTEL OPENING TO GIVE 50mm SPACE ALL AROUND THE PIPE.

MASK OPENING ON BOTH SIDES OF THE WALL WITH RIGID SHEET MATERIAL SUCH AS 15 mm CEMENT BOARD OR EQUIVALENT APPROVED BY BUILDING CONTROL TO PREVENT ENTRY OF FILL OR VERMIN.

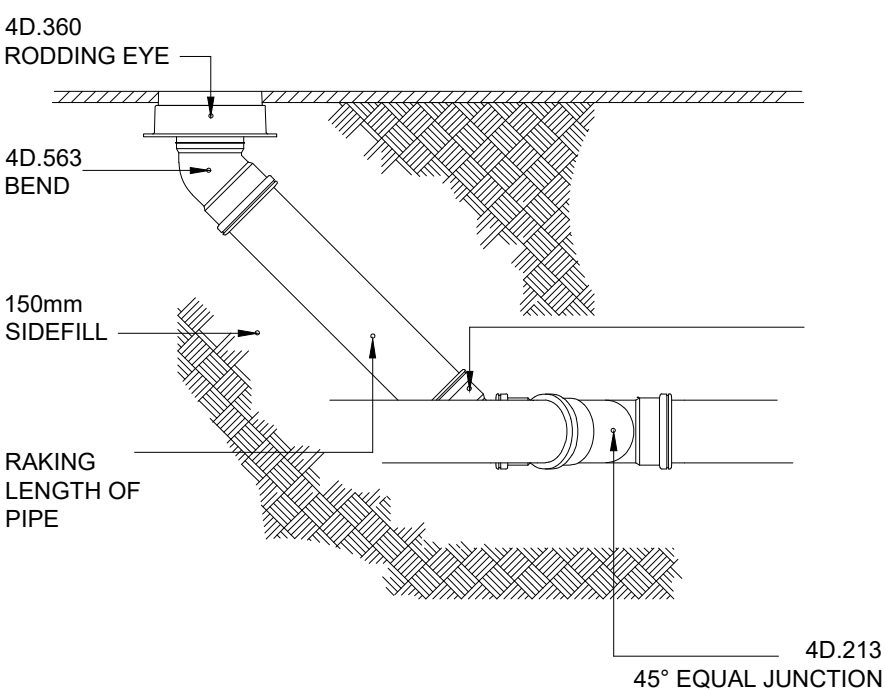
IMPORTANT FILL VOID WITH EXPANDING FOAM COMPRESSIBLE MATERIAL TO PREVENT ENTRY OF GAS.

INTERNAL WASTE PIPE CONNECTION



40 mm WASTE PIPE
4D 296 SOCKET PLUG WITH 4D.399 BOSS SOCKET ADAPTOR
4D.205 PIPE COUPLER
4D.561 87 1/2 DEGREE BEND
TO CHAMBER

RODDING EYE



4D.360 RODDING EYE

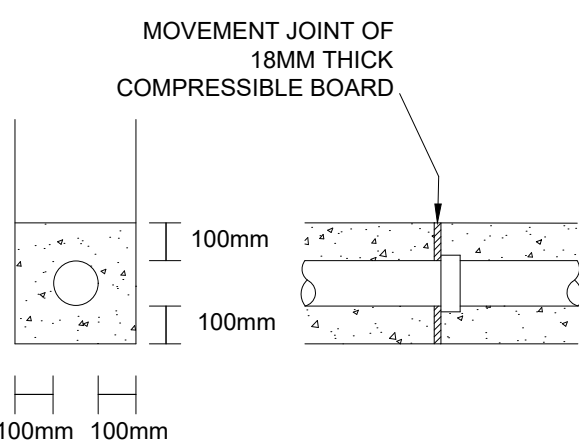
4D.563 BEND

150mm SIDEFILL

RAKING LENGTH OF PIPE

4D.213 45° EQUAL JUNCTION

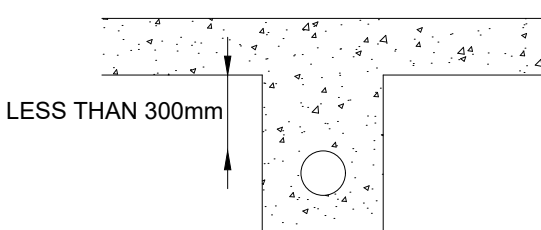
JOINT FOR CONCRETE ENCASED PIPE



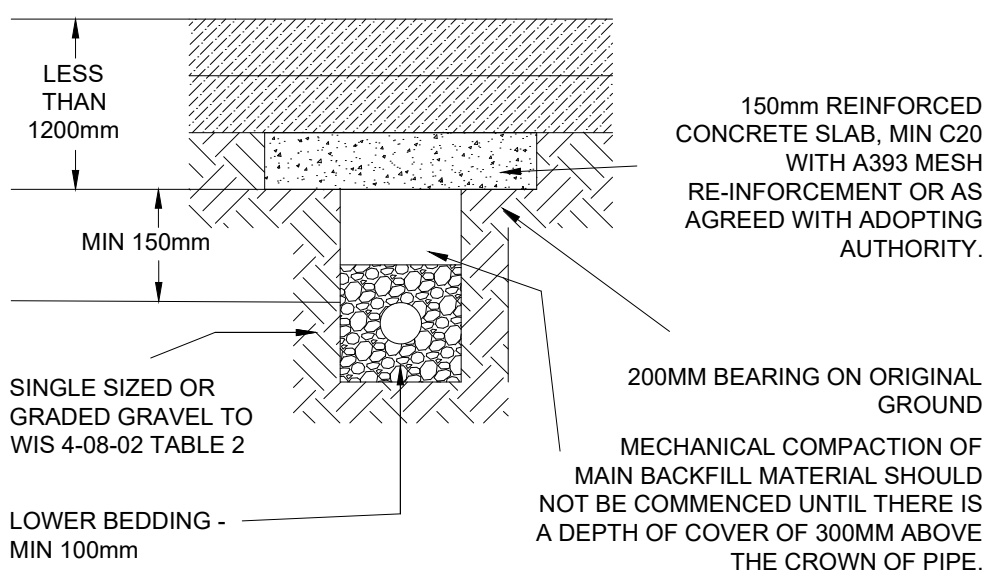
WHERE PIPES ARE SURROUNDED IN CONCRETE TO PROTECT NEARBY FOUNDATIONS, AN 18mm COMPRESSIBLE BOARD, E.G. FIBREBOARD OR POLYSTYRENE SHOULD BE PLACE AROUND THE PIPE AT EACH JOINT.

PIPES LAID AT SHALLOW DEPTHS UNDER BUILDINGS

WHERE THE CROWN OF THE PIPE IS WITHIN 300mm OF THE UNDERSIDE OF THE SLAB, THE PIPEWORK SHOULD BE SURROUNDED WITH 150mm CONCRETE AS AN INTEGRAL PART OF THE FLOOR SLAB.



PIPES LAID AT SHALLOW DEPTHS IN ADOPTABLE TRAFFICKED AREAS.



LESS THAN 1200mm

MIN 150mm

SINGLE SIZED OR GRADED GRAVEL TO WIS 4-08-02 TABLE 2

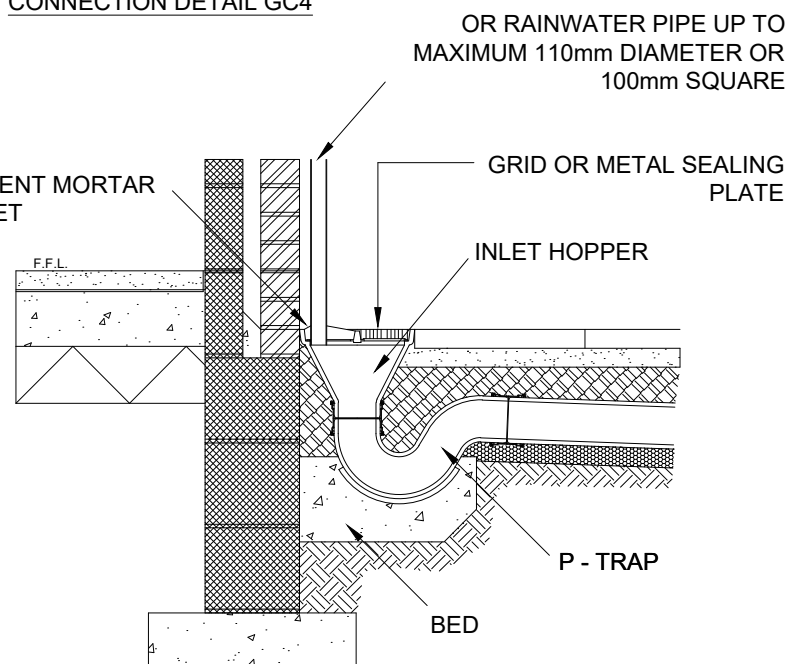
LOWER BEDDING - MIN 100mm

150mm REINFORCED CONCRETE SLAB, MIN C20 WITH A393 MESH RE-INFORCEMENT OR AS AGREED WITH ADOPTING AUTHORITY.

200MM BEARING ON ORIGINAL GROUND
MECHANICAL COMPACTION OF MAIN BACKFILL MATERIAL SHOULD NOT BE COMMENCED UNTIL THERE IS A DEPTH OF COVER OF 300MM ABOVE THE CROWN OF PIPE.

SIDEFILL MATERIAL TO BE PLACED EVENLY ON BOTH SIDES OF PIPE, TAKING CARE TO WORK UNDER THE LOWER QUADRANT OF PIPE, ENSURING THE PIPE IS NOT LIFTED. BOTH SIDES OF THE TRENCH SHOULD BE FILLED SIMULTANEOUSLY TO AVOID HORIZONTAL MOVEMENT OF THE PIPE.

VERTICAL INLET HOPPER, TRAPPED. CONNECTION DETAIL GC4



OR RAINWATER PIPE UP TO MAXIMUM 110mm DIAMETER OR 100mm SQUARE

CEMENT MORTAR FILLET

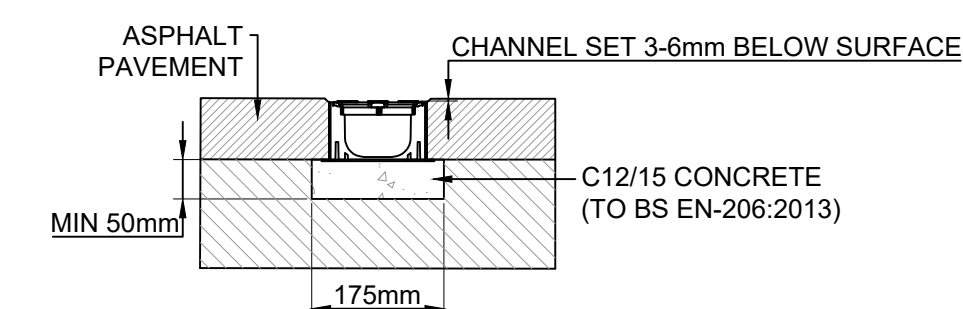
GRID OR METAL SEALING PLATE

INLET HOPPER

P - TRAP

BED

ACO HEXDRAIN CHANNEL



ASPHALT PAVEMENT

MIN 50mm

175mm

CHANNEL SET 3-6mm BELOW SURFACE

C12/15 CONCRETE (TO BS EN-206:2013)

BLOCKS LAID AS A SOLDIER COURSE

MIN 50mm

CHANNEL SET 3-6mm BELOW SURFACE

POLYMER MODIFIED MORTAR (RONAFIX MORTAR MIX C OR SIMILAR)

C12/15 CONCRETE (TO BS EN-206:2013)