

FOUL DRAINAGE

ALL DRAINAGE OTHER THAN NOTED IS EXISTING.
PROVIDE & INSTALL SINK, WASH BASIN, BATH & WC TO POSITIONS SHOWN ON DRAWING.
ALL BELOW GROUND FOUL DRAINS TO BE LAID AT A MINIMUM FALL OF 1:80

PLUMBING

INTERNAL WASTE PIPES TO BE PROVIDED AS FOLLOWS:
ALL WASTE FITTINGS TO HAVE 75mm DEEP SEAL TRAPS & SEPERATE CONNECTIONS TO SVP's & ARE TO BE INSTALLED IN ACCORDANCE WITH BS 5572.
TRAPS SHOULD BE REMOVABLE OR FITTED WITH A CLEANING EYE.
ALL PIPE FITTING & JOINTS SHOULD BE CAPABLE OF WITHSTANDING AN AIR TEST OF POSITIVE PRESSURE OF AT LEAST 38mm WATER GAUGE FOR AT LEAST THREE MINUTES.
WAIST TO WASH HAND BASIN TO BE 32mm DIA. FOR RUNS NOT EXCEEDING 1,7m & 40mm DIA. FOR RUNS UP TO 3m.
SHOWERS TO HAVE 40mm DIA. TRAP FOR RUNS UP TO 3m LENGTH OR 50mm DIA. PIPE WITH 75mm DIA. DEEP SEAL TRAPS MAX. 4m LG.
WC PAN WITH OUTLET LESS THAN 32mm DIA. OF TRAP REQUIRED 75mm DEPTH OF SEAL, GREATER THAN 80mm REQUIRES 100mm DIA. TRAP.
WASTE PIPES OVER 1.7m LONG TO HAVE ANTI-SYMPHONIC TRAPS.

SOIL & VENT PIPES

TO BE 100mm DIA. UPVC TO BS 5572 TO TERMINATE A MINIMUM OF 900mm ABOVE ANY OPENING INTO THE BUILDING WITHIN 3000mm WITH PRE-FORMED FLASHING WHERE PASSING THROUGH ROOF.
VENTILATED DISCHARGE STACKS MAY TERMINATE INSIDE A BUILDING WHEN FITTED WITH AN AIR ADMITTANCE VALVE.
SOIL PIPES TO BE WRAPPED WITH 25mm MINERAL WOOL INSULATION HELD IN PLACE WITH CHICKEN WIRE & ENCASED IN BOXING OF 38*30 SW FRAMING, FACED WITH TWO LAYERS OF 12.5mm PLASTERBOARD, JOINTS TO BE STAGGERED & FINISHED WITH A PLASTER SKIM.
PROVISIONS TO BE MADE FOR ACCESS TO SVP AT EACH FLOOR LEVEL
WC'S TO HAVE A 100mm DIA. PVC DISCHARGE & VENT STACK WITH LONG RADIUS BEND AT BASE, AND ACCESS AT G/FLOOR FOR RODDING PURPOSE.
JUNCTIONS AT BRANCH PIPES SHOULD BE MADE WITH A SWEEP OF 25mm RADIUS OR AT 45 DEGREES. A BRANCH PIPE SHOULD NOT DISCHARGE INTO A STACK WHICH WOULD CAUSE CROSS FLOW INTO ANOTHER BRANCH PIPE.
A BRANCH PIPE SHOULD NOT DISCHARGE INTO A STACK LOWER THAN 450mm ABOVE THE INVERT LEVEL OF THE TAIL OF THE BEND AT THE FOOT OF THE STACK.
OPPOSED CONNECTIONS WITHOUT SWEPT ENTRIES NOT EXCEEDING 65mm SHOULD BE OFFSET 110mm ON A 100mm DIA. STACK OR 250mm ON A 150mm DIA.STACK
THE BEND AT THE FOOT OF THE VENTILATED STACK SHOULD HAVE AS LARGE A RADIUS AS POSSIBLE, AT LEAST 200mm.
SVP TO BE RUN TO NEW OR EXISTING INSPECTION CHAMBER.
FOUL UNDERGROUND DRAINAGE IN 110mm UPVC PIPES WHICH SHOULD BE LAID ON A GRANULAR BED (150mm MIN THK) TO FALLS 1:40.

DURGO AIR ADMITTANCE VALVES

DURGO AIR ADMITTANCE VALVES ARE FOR USE IN ABOVE-GROUND DRAINAGE SYSTEMS, DESIGNED IN ACCORDANCE WITH BS EN 12380:2002
DURGO VALVES PROVIDE A MEANS OF VENTILATION TO THE DRAINAGE SYSTEM TO PREVENT THE LOSS OF WATER SEALS IN TRAPS AND CONSEQUENT RELEASE OF FOUL AIR INTO THE BUILDING.
FOR UP TO & INCLUDING FOUR DWELLINGS, ONE, TWO OR THREE STORIES IN HEIGHT, ADDITIONAL DRAIN VENTING IS NOT REQUIRED. WHERE A DRAIN SERVES MORE THAN FOUR SUCH DWELLINGS EQUIPED WITH THE VALVE, THE DRAIN SHOULD BE VENTED ACCORDING TO THE FOLLOWING RULE, EITHER BY A CONVENTIONAL OPEN-TOPPED VENTLATING STACK OR DISCHARGE STACK.
DURGO AIR ADMITTANCE VALVES TO BE FITTED IN A VERTICAL POSITION ABOVE THE PIPE BEING VENTILATED.

TRADITIONAL CLAY PIPES

EXISTING DRAINAGE PIPES PASSING UNDER PROPOSED EXTENSION TO BE TESTED, REPAIRED AND REPLACED AS NECESSARY AND PROTECTED AS NOTED.
ALL PIPES PASSING BUILDING UNDER TO BE ENCASED IN 150mm CONCRETE
ALL PIPES PASSING UNDER WALL TO BE BRIDGED OVER BY 150mm RC LINTEL

UPVC PIPES

EXISTING DRAINAGE PIPES PASSING UNDER PROPOSED EXTENSION TO BE TESTED, REPAIRED AND REPLACED AS NECESSARY AND PROTECTED AS NOTED.
ALL PIPES PASSING UNDER BUILDING TO BE SURROUNDED WITH 100mm MINIMUM OF GRANULAR OR OTHER FLEXIBLE MATERIAL FILLING.
ALL PIPES PASSING UNDER WALL TO BE BRIDGED OVER BY 150 mm RC LINTEL. LEAVE A 50mm GAP AROUND PIPE WHICH SHOULD BE FILLED WITH A MINERAL FIBRE.

FOUL DRAINAGE TESTING & INSPECTION

EXISTING DRAINAGE PASSING UNDER PROPOSED BUILDING TO BE TESTED FOR WATERTIGHTNESS EITHER BY AIR TEST OR WATER TEST.
PIPES TO BE REPAIRED/REPLACED AS NECESSARY & PROTECTED.

AIR TEST:
FOR PIPES UP TO 300mm DIA, THE PIPE SHOULD BE PRESSURIZED UP TO A PRESSURE OF 110mm WATER GAUGE FOR & HELD FOR APPROXIMATELY 5 MINS PRIOR TO TESTING.
FOLLOWING THIS THE PIPE SHOULD BE ABLE TO HOLD AN INITIAL 100 mm PRESSURE WITH A MAXIMUM LOSS OF HEAD ON A MANOMETER OF 25 mm IN A PERIOD OF 7 MINUTES

WATER TEST:
FOR PIPES UP TO 300mm DIA, THE SYSTEM SHOULD BE FILLED WITH WATER UP TO A DEPTH OF 500mm ABOVE THE LOWEST INVERT IN THE TEST SECTION & A MINIMUM DEPTH 100mm MEASURED AT THE HIGHEST INVERT IN THE TEST SECTION. THIS MAY BE LEFT FOR A PERIOD (ONE HOUR IS GENERALLY SUFFICIENT) TO CONDITION THE PIPE.
THE TEST PRESSURE SHOULD THEN BE MAINTAINED FOR A PERIOD OF 30 MINUTES, BY TOPPING UP THE WATER LEVEL AS NECESSARY SO SO THAT IT IS WITHIN 10mm OF THE REQUIRED LEVEL THROUGHOUT THE TEST. THE LOSSES PER SQUARE METRE OF SURFACE AREA SHOULD NOT EXCEED 0.15 LITRES FOR TEST LENGTHS WITH ONLY PIPELINES OR 0.20 LITRES FOR TEST LENGTHS INCLUDING PIPELINES AND MANHOLES, OR 0.40 LITRES FOR TESTS WITH ONLY MANHOLES & INSPECTION CHAMBERS ALONE.

SEALING DISUSED DRAINS

DRAINS OR SEWERS LESS THAN 1.5m DEEP WHICH ARE IN OPEN GROUND SHOULD AS FAR AS PRACTICABLE BE REMOVED. OTHER PIPES SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION AND GROUT FILLED TO ENSURE THAT RATS CANNOT GAIN ACCESS.
LARGER PIPES (225mm AND ABOVE) SHOULD BE GROUT FILLED TO PREVENT SUBSIDENCE OR DAMAGE TO BUILDING SERVICES IN THE EVENT OF COLLAPSE.

EXISTING INSPECTION CHAMBER

BREAK INTO EXISTING INSPECTION CHAMBER AT INVERT LEVEL PROVIDE NEW HALF CHANNEL AT BASE. CONSTRUCT STEEP BENCHING AROUND NEW SYSTEM, WHICH SHOULD BE TROWELLED SMOOTH.

NEW INSPECTION CHAMBER

FORM NEW INSPECTION CHAMBER AT POSITION SHOWN ON DRAWING FROM ENGINEERING BRICKS ON A 150mm CONCRETE SLAB. OR INSERT A PREFABRICATED UPVC CHAMBER AT POSITION SHOWN ON DRAWING WHICH SHOULD BE TO THE APPROVAL OF THE BUILDING INSPECTOR.

NEW OSMA INSPECTION CHAMBER

SIT CHAMBER BASE ON A MINIMUM OF 100mm BED OF AS-DUG OR GRANULAR MATERIAL, MAKE PIPE CONNECTIONS.
ASSEMBLE CHAMBER TO REQUIRED INVERT LEVEL. SURROUND THE CHAMBER WITH THE SAME MATERIAL AS USED FOR THE BEDDING TO A WIDTH OF 150mm. CONTINUE THE SIDE FILL UP TO THE LEVEL REQUIRED FOR THE 150mm CONCRETE PLINTH ON WHICH THE SINGLE SEAL COVER AND FRAME WILL SIT.

WATER SERVICES

HOT & COLD WATER SUPPLIES ARE TO BE PROVIDED TO NEW SANITARY FITTINGS BY EXTENSION FROM MAINS SUPPLY (COLD) & FROM EXTG. HEATING SYSTEM (HOT)

PUBLIC SEWERS

IF A PUBLIC SEWER IS KNOWN TO BE WITHIN 3000 mm OF THE PROPOSED BUILDING WORK. IT SHOULD BE ACCURATELY LOCATED BY THE APPLICANT OR ASSIGNED BUILDER PRIOR TO COMMENCEMENT OF FOUNDATION EXCAVATIONS. IN ORDER THAT THE EFFECT OF THE WORKS CAN BE DETERMINED.

BUILDING OVER A PUBLIC SEWER

WHERE A PUBLIC SEWER IS TO BE BUILT OVER, THE CONDITION OF THE PUBLIC SEWER SHOULD BE CAMERA SURVEYED OR FULLY EXPOSED AND DETERMINED AS SATISFACTORY. OR THE AFFECTED LENGTH OF PIPEWORK BEING REPLACED WITH NEW.

BUILDING WITHIN 3000 mm OF PUBLIC SEWER

ALL FOUNDATIONS WITHIN 3000 mm OF A PUBLIC SEWER TO BE TAKEN DOWN TO 150mm BELOW THE INVERT LEVEL OF THE PUBLIC SEWER. NO STRUCTURES (FOOTINGS, WALLS ETC) TO RUN PARALLEL TO THE LINE OF THE PUBLIC SEWER WITHIN 500 mm.
CROSSINGS TO BE ADEQUATELY SUPPORTED USING PRE-CAST OR APPROPRIATELY DESIGNED IN-SITU, CONCRETE LINTELS OR BEAMS.

THE SEWER

THE SEWER IS DEEMED TO BE "MINOR" I.E. NOT MORE THAN 225mm IN DIAMETER & LESS THAN 3 METRES DEEP.

MANHOLES

NO INTERNAL PUBLIC MANHOLES ARE PERMITTED.
NEW MANHOLES ON THE PUBLIC SEWER LINE TO BE BUILT IN EITHER BRICK OR CONCRETE SECTIONS & WOULD NEED TO BE AT LEAST 500mm FROM THE FOUNDATIONS/WALLS.

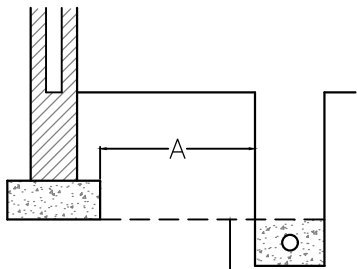
SEWER PIPES

EXISTING UPVC PIPES RUNNING UNDER PROPOSED EXTENSION MUST BE REPLACED WITH WITH NEW 100mm VITRIFIED CLAY MATERIAL PIPEWORK & LAID WITH A 150mm THICK GRANULAR BED & SURROUND IN ACCORDANCE WITH SEWERS FOR ADOPTION (7th EDITION)

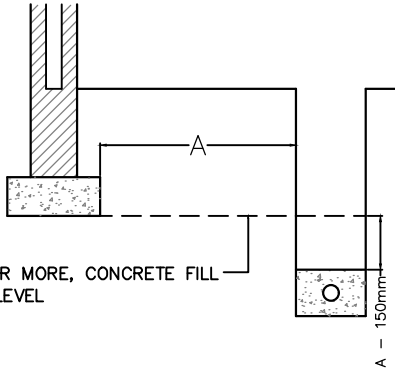
PROPOSED EXTENSION

THE PROPOSED EXTENSION WORK IS A DOMESTIC EXTENSION. AND WILL NOT CAUSE ANY ACCESS POINT OR MORE THAN 6 METRES OF THE SEWER TO BE BUILT OVER.

CLIENT/BUILDER SHOULD LIAISE WITH LOCAL WATER AUTHORITY TO AQUIRE A BUILD OVER AGREEMENT AS NECESSARY.



WHERE A IS LESS THAN 1m CONCRETE FILL TRENCH TO THIS LEVEL



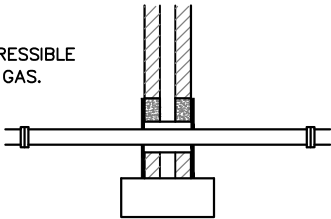
WHERE A IS 1m OR MORE, CONCRETE FILL TRENCH TO THIS LEVEL

PIPE RUNS NEAR BUILDINGS
(Scale 1 :50)

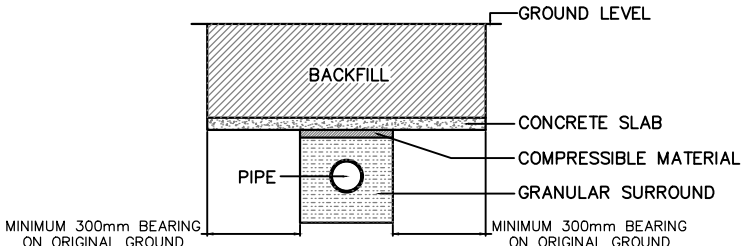
ARCH OR LINTELLED OPENING TO GIVE 50mm SPACE ALL AROUND THE PIPE

MASK OPENING BOTH SIDES WITH RIGID SHEET MATERIAL TO PREVENT ENTRY OF FILL OR VERMIN.

IMPORTANT FILL VOID WITH COMPRESSIBLE SEALANT TO PREVENT ENTRY OF GAS.

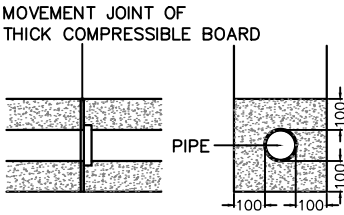


PIPES PENETRATING WALLS
(Scale 1 :50)



PROTECTION FOR PIPES LAID IN SHALLOW DEPTHS
(MINIMUM SIZES)

TYPICAL DETAIL
(Scale 1 : 50)



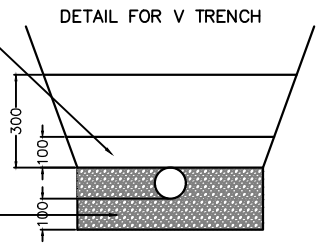
JOINTS FOR CONCRETE ENCASED PIPES
(MINIMUM SIZES)

TYPICAL DETAIL
(Scale 1 : 50)

BEDDING FOR FLEXIBLE PIPES

SELECTED FILL OR GRANULAR FILL FREE FROM STONES LARGER THAN 40mm.

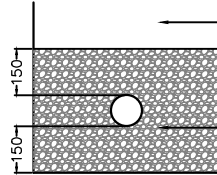
GRANULAR MATERIAL: FOR FLEXIBLE PIPES THE GRANULAR MATERIAL SHOULD CONFORM TO BS EN 1610 ANNEX B TABLE B.15 & SHOULD BE SINGLE SIZE MATERIAL OR GRADED MATERIAL FROM 5mm UP TO A MAXIMUM SIZE OF 10mm FOR 100mm PIPES, 14mm FOR 150mm PIPES. COMPACTION FRACTION MAXIMUM 0.15 FOR CLASS F.



TYPICAL DETAIL
(Scale 1 :25)

BEDDING FOR RIGID PIPES

CLASS F: BEDDING FACTOR 1.5 GENERALLY SUITABLE FOR ALL SOIL CONDITIONS.



SELECTED FILL: FREE FROM STONES LARGER THAN 40mm, LUMPS OF CLAY OVER 100m, TIMBER, FROZEN MATERIAL, VEGETABLE MATTER.

GRANULAR MATERIAL: FOR RIGID PIPES THE GRANULAR MATERIAL SHOULD CONFORM TO BS EN 1610 ANNEX B TABLE B.15 & SHOULD BE SINGLE SIZE MATERIAL OR GRADED MATERIAL FROM 5mm UP TO A MAXIMUM SIZE OF 10mm FOR 100mm PIPES, 14mm FOR 150mm PIPES. COMPACTION FRACTION MAXIMUM 0.15 FOR CLASS F.

TYPICAL DETAIL
(Scale 1 :25)

Rev Date Description

This drawing is intended for Planning & Building Regulation applications only & is not a detailed working drawing.
Building works not to commence until the necessary Planning & Building control approvals have been granted.
Contractors, subcontractors & suppliers are to check all relevant dimensions, site & building levels before commencing any shop drawings, fabrications, or building works.
Any discrepancies found in dimensions or levels to be reported to MARTECH Ltd thus enabling further checks to be carried out.
Methods of construction & materials used are the responsibility of the building contractor assigned to the project.

All new works to be carried out in accordance with Building Regs 2010 and all current codes of practice
(Drawings subject to revision until fully approved by building control)

A3 SHEET

Measurements shown are in millimeters
PAPER SIZE A3 - SCALE 1:100
0.00 m 1.00 m 2.00 m 3.00 m 4.00 m 5.00 m
PAPER SIZE A3 - SCALE 1:50
0.00 m 1.00 m 2.00 m 3.00 m 4.00 m

A3 SHEET

Drawing Title
PROPOSED NOTES & DETAILS

Client
Mr & Mrs M Holebrook

Home Address
36 Nichol Road
Chandlers Ford
Eastleigh
Hants SO53 5AS

Site Address
36 Nichol Road
Chandlers Ford
Eastleigh
Hants SO53 5AS

Scale
As Shown
Project Number
2223-109

Date
May 2023
Drawing Number
13
Rev
0

MARTECH
BUILDING DESIGN Ltd
& CAD Draughting Services

Terry Marston
Project Designer

Mobile: 07775 982 104
Email: martech@talktalk.net