DRAINAGE ABOVE GROUND SOIL AND VENT PIPES (SP/SVP) : - PIPES , FITTINGS AND ACCESSORIES: UPVC TO BS 4514. KITEMARK CERTIFIED, PIPE Ø 110MM, PROVIDE ACCESS POINT AT EACH FLOOR LEVEL. WHERE SOIL PIPE NOTED AS SVP, PIPE TO BE TAKEN THROUGH ROOF VOID AND FITTED TO PROPRIETARY THRU' VENT TILE BY ROOF TILE MANUFACTURER, OR FITTED WITH PROPRIETARY FLASHING AND FLASHING COWLING TO PIPEWORK, WITH VENT TERMINAL TO SVP. PROVIDE ACCESS POINT AT LOW LEVEL, OR PROVIDE AAV AS NOTES

AIR ADMITTANCE VALVE (AAV): - PROVIDE WHERE NOTED, AAV TO BE LOCATED 1250MM ABOVE FFL, OTHERWISE AS NOTED FOR SP/SVP. PROVIDE ACCESS PONT AT LOW LEVEL. PROVIDE 50MM Ø CARAVAN VENTS TO PIPEWORK BOXING, LOCATED 1NO. AT HIGH LEVEL, 1NO. AT LOW LEVEL.

VERTICAL PIPE ENCASEMENT:- ALL VERTICAL PIPES NOTED ABOVE TO BE WITHIN FULL HEIGHT DUCTWORK BOXING OUT,UNLESS NOTED OTHERWISE ON LAYOUT, WITH ACCESS PANEL AT LOW LEVEL TO COINCIDE WITH PIPE ACCESS POINT. DUCT TO BE 50X50MM SW FRAMEWORK OR 50MM METAL C STUD WITH 12.5MM PLASTERBOARD FACE,(TAPED JOINTS OR SKIMMED, CONTRACTORS CHOICE) OR PROPRIETARY DUCT CASING(CONTRACTORS CHOICE). WHERE VERTICAL PIPEWORK PASSES THROUGH HABITABLE ROOMS / SEPARATE DWELLING, ALL PIPES WITHIN DUCT TO BE FULLY LAGGED WITH MINIMUM 25MM UNFACED MINERAL WOOL, MINIMUM DENSITY 15KG/CU.M. MAINTAIN GAP BETWEEN LAGGING & DUCT FACE.

LOW LEVEL WASTE PIPE ENCASEMENT;- 100MM HIGH S/W FRAMEWORK WITH WBP PLYWOOD FACE, (FLOOR FINISH TAKEN UP FACE) WITH 18MM WBP PLYWOOD REMOVABLE CAPPING TO TOP. WHERE TWO PIPES OR FALLS REQUIRE OR PROVIDE PENDOCK PROFILE OR EQUIV. PRODUCT TO SUIT

WASTE PIPES (WP):- TO BE TO BS 5255 PIPE DIAMETERS:- KITCHEN SINK 50MM,, WASH HAND BASIN 32MM, W.C. 110MM ALL WASTE PIPES TO BE TRAPPED, MINIMUM DEPTH OF SEAL 75MM. WHERE WASTE PIPE RUNS EXCEED 4METRES PROVIDE BBA APPROVED AAVS ABOVE THE APPLIANCE SPILL OVER LEVEL. WASTE PIPES TO EITHER DISCHARGE BELOW A TRAPPED GULLY GRATING OR INTO SP/SVP VIA PROPRIETARY WASTE MANIFOLD OR BOSSED JUNCTIONS. INTERNALLY ALL WASTE AND DRAINAGE PIPES TO HAVE RODDING ACCESS/EYES AT CHANGES IN DIRECTION AND BE ADEQUATELY CLIPPED/SUPPORTED AND PROVIDED WITH 30 MINUTES FIRE PROTECTION WHERE PASSING THROUGH FLOORS.

SANITARYWARE

i) ALL SANITARY APPLIANCES TO BE LOW WATER USE TYPE, WITH WRAS APPROVED FLUSH AND FITTINGS THROUGHOUT

ii)TYPICAL SPECIFICATION - 4/2 LITRE DUAL-FLUSH WC / 1.7 LITRE/MIN WASH HAND BASIN TAPS

iii) WC'S TO BE WALL HUNG CERAMIC PANS SUITABLE FOR LEISURE, HOTEL AND COMMERCIAL ENVIRONMENTS, CONCEALED CISTERN, FLUSH OPERATION TO BE IR SENSOR FLUSH, CISTERMISTER EASYFLUSH OR EQUIV.

iv) URINALS TO BE, CERAMIC URINAL WITH CONCEALED TRAP SUITABLE FOR LEISURE, HOTEL AND COMMERCIAL ENVIRONMENTS, OPERATED BY IR SENSOR FLUSH CONTROLLERS, WITH CISTERMISTER OR EQUIVALENT URINAL FLUSH CONTROL VALVE TO REDUCE WATER CONSUMPTION AND WASHROOM ODOURS. TO BE INSTALLED ON THE SUPPLY PIPE TO THE URINAL CISTERN. PROVIDE APPROPRIATE SIZED CONCEALED CISTERN SYSTEM TO SUIT URINAL INSTALLATION, ALL TO BE WRAS APPROVED FLUSH AND FITTINGS

v) PROVIDE CERAMIC URINAL PRIVACY DVIDER BETWEEN URINALS

vi) WHBS TO WC'S TO BE WALL HUNG CERAMIC BOWLS, SINGLE TAP HOLE, GRATED BASIN WASTE ONLY - NO PLUG, PROVIDE SENSOR THERMOSTATIC TAP WITH ASSOCIATED MIXER VALVE UNIT, CISTERMISTER NOVATAP 3.5 L / MINUTE MAX FLOW OR EQUIV. TAP, MAX 3.6L/MINUTE FLOW RESTRICTION, ANY / ALL TO BE WRAS APPROVED FLUSH AND FITTINGS, .

vii) WHEELCHAIR WC PROVIDE FULL DOCUMENT M COMPLIANT TOILET FACILITIES WITH WALL HUNG WC, INC ASSOCIATED FRAMEWORK, CONCEALED CISTERN, WITH WRAS APPROVED FLUSH AND FITTINGS. LABC (LANTAC) APPROVED PACKS COMPLIANT TO BS8300. FLUSH TO BE IR SENSOR FLUSH - DDA & PART M COMPLIANT - CISTERMISTER EASYFLUSH OR EQUIV.

vii) KITCHEN SINK TO TEA STATION, STAINLESS STEEL BOWL & HALF DRAINER, WASTE AND PLUGS TO BOTH WITH MIXER TAP.

viii) KITCHEN SINK TO SCOUTS KITCHEN TBC BY CLIENTS.

RAINWATER GOODS :- TO MATCH EXTG IN COLOUR PROFILE AND LOCATION - WHERE REPLACING EXTG, TO NEW LOCATIONS AS EXTG, ALL AS MANUF SPEC & DETAILS, AS FOLLOWS. 75MM RWP, GUTTERING HALF ROUND 112MM BC / TO MATCH EXTG , COLOUR BLACK DIA TO BE VERIFIED BY MANUF.

FIRE STOPPING OF PIPES :- READ IN CONJUNCTION WITH SPECIFICATION AND M&E DRAWINGS AND SPECIFICATION

i) SOIL PIPES AND PIPEWORK WITH Ø GREATER THAN 40MM:- WHERE SOIL PIPES (110MM Ø) PASS THROUGH COMPARTMENT WALLS AND FLOORS THEY ARE TO BE FITTED WITH PROPRIETARY FIRE COLLAR, TESTED TO BS 476, AND FITTED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

ii) PIPES OF 40MM Ø OR LESS THROUGH STRUCTURE:- FIRE STOP AROUND PIPE WITH MINERAL FIBRE INSULATION TO FILL ALL VOIDS.

iii) ALL PIPEWORK OPENINGS IN ENCLOSURE CASINGS TO BE AS SMALL AS POSSIBLE AND SEALED WITH INTUMESCENT MASTIC.

C. ISOLATION OF SERVICES - CLIENTS REPRESENTATIVE TO IDENTIFY TO CONTRACTOR ON SITE

BELOW GROUND DRAINAGE NOTES, **EXISTING DRAINS:**- PRIOR TO COMMENCEMENT OF WORKS CONTRACTOR TO ASCERTAIN LOCATION OF EXISTING DRAINAGE SYSTEM, CHECK ALL INVERT LEVELS, INVESTIGATE ALL EXISTING ON SITE DRAINAGE RUNS AND POINTS OF CONNECTION. ALL REDUNDANT PIPEWORK TO BE EITHER REMOVED OR SEALED TO APPROVAL OF LOCAL AUTHORITY AND BE IN ACCORDANCE WITH SECTIONS 59, 62, AND 82 OF THE BUILDING ACT 1984. DISCONNECTION IS TO BE AS CLOSE AS POSSIBLE TO THE POINT OF CONNECTION. DRAINS LESS THAN 1.5M IN OPEN GROUND ARE WHERE POSSIBLE TO BE REMOVED, OTHER PIPES ARE TO BE GROUT FILLED AND SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION TO PREVENT VERMIN ACCESS. WHERE PROPOSED PIPEWORK IS TO BE CONNECTED TO EXISTING CONTRACTOR TO ENSURE EXISTING PIPEWORK IS NOT DAMAGED (USE PROPER CUTTING EQUIPMENT), JOINT IS WATERTIGHT (PURPOSE-MADE REPAIR COUPLINGS), AND THAT DIFFERENTIAL SETTLEMENT DOES NOT OCCUR BETWEEN NEW AND EXISTING PIPES (PROPER BEDDING DETAILS). RODENT CONTROL:- ASCERTAIN FROM LOCAL AUTHORITY WHETHER SPECIAL MEASURES ARE REQUIRED TO CONTROL RODENTS. SHOULD MEASURES BE REQUIRED PROVIDE ONE OF THE FOLLOWING RODENT BARRIERS TO APPROVAL OF LOCAL AUTHORITY, i) ENLARGED SECTION ON DISCHARGE STACK TO PREVENT RODENTS CLIMBING OR ii) FLEXIBLE DOWNWARD FACING FINS IN THE DISCHARGE STACK, OR iii) ONE WAY VALVES. PROVIDE METAL CAGES ON VENTILATOR STACK TERMINALS. COVER AND GRATINGS TO GULLIES TO BE SOLID PLASTIC OR METAL WHICH SHOULD BE FIXED IN PLACE.

WORKMANSHIP:- ALL TO BE IN ACCORDANCE WITH BS 8000, PART 14. DURING CONSTRUCTION DRAINS AND SEWERS, WHICH ARE LEFT OPEN SHOULD BE COVERED WHEN WORK IS NOT IN PROGRESS. PROTECT FROM DAMAGE BY CONSTRUCTION TRAFFIC AND HEAVY MACHINERY.

TESTING AND INSPECTION:- WATERTIGHTNESS:- AFTER LAYING TEST FOR WATERTIGHTNESS BY EITHER AIR TEST OR WATER TEST. AIR TEST FOR PIPES UP TO 300MMØ THE PIPE IS TO BE PRESSURIZED UP TO A PRESSURE OF 110MM WATER GAUGE FOR AND HELD FOR APPROX. 5 MINUTES PRIOR TO TESTING. FOLLOWING THIS THE PIPE SHOULD HOLD AN INITIAL 100MM PRESSURE WITH A MAXIMUM LOSS OF HEAD ON A MANOMETER OF 25MM IN A PERIOD OF 7 MINUTES. WATER TEST FOR PIPES UP TO 300MM Ø THE SYSTEM SHOULD BE FILLED WITH WATER UP TO A DEPTH OF 500MM ABOVE THE LOWEST INVERT LEVEL AND A MINIMUM DEPTH OF 100MM AT THE HIGHEST INVERT LEVEL. LEAVE FOR 1 HOUR TO CONDITION THE PIPE. THE TEST PRESSURE SHOULD THEN BE MAINTANED FOR A PERIOD OF 30 MINUTES, BY TOPPING UP THE WATER LEVEL AS REQUIRED SO THAT IT IS WITHIN 10MM OF THE REQUIRED LEVEL THROUGHOUT THE TEST. THE LOSSES PER SQ. METER OF SURFACE AREA SHOULD NOT EXCEED 0.15 LITRES FOR TEST LENGTHS WITH PIPELINES ONLY OR 0.20 LITRES FOR TEST LENGTHS INC.PIPELINES AND MANHOLES, C.40 LITRES FOR TESTS WITH ONLY MANHOLES AND INSPECTION CHAMBERS ALONE.

PIPES PASSING THROUGH STRUCTURES:- WHERE PIPES MUST BE CAST IN OR FIXED TO STRUCTURES (INC. MANHOLES.) PROVIDE SHORT LENGTH OR ROCKER PIPES NEAR EACH EXTERNAL FACE W/FLEXIBLE JOINT AT EACH END.

PIPE SIZE (DN)	DISTANCE TO 1ST. JOINT FROM STRUCTURE (MM)	LENGTH OF PIPE MAXIMUM (MM)
100	150	600

WHERE PIPELINES NEED NOT BE CAST IN OR FIXED TO STRUCTURES (EG. WALLS/FOOTINGS) PROVIDE EITHER:-

A) SHORT LENGTH OR ROCKER PIPES AS ABOVE OR

B) AN OPENING IN STRUCTURE TO GIVE 50MM MINIMUM CLEARANCE AROUND PIPELINE AND CLOSELY FIT RIGID SHEET TO EACH FACE OF OPENING TO PREVENT INGRESS OF FILL OR VERMIN.

BEDDING DETAILS:- (ALL COVER DIMENSIONS ARE TO CROWN OF PIPE.)

I) PIPES UNDER BUILDINGS:-

A) PIPES WITHIN 300MM OF UNDERSIDE OF GROUND FLOOR SLAB TO BE BEDDING CLASS Y (CONCRETE ENCASEMENT CAST INTEGRAL WITH SLAB.)

B) PIPES IN EXCESS OF 300MM FROM UNDERSIDE OF GROUND FLOOR SLAB TO BE BEDDING CLASS F (GRANULAR BED)

II)PIPES IN LANDSCAPED AREAS:-

A) PIPES WITH LESS THAN 300MM COVER, BEDDING CLASS Z (CONCRETE SURROUND 150MM THICK)

B) PIPES WITH GREATER THAN 300MM, BUT LESS THAN 600MM COVER TO HAVE REINFORCED CONCRETE COVER SLAB PROTECTION, WITH MINIMUM 300MM BEARING ONTO ORIGINAL GROUND, WITH COMPRESSIBLE FILLER/MATERIAL UNDER, AND WITH GRANULAR SURROUND TO PIPE AND 75MM OVER CROWN OF PIPE.

C) PIPES WITH GREATER THAN 600MM COVER, BEDDING CLASS F (GRANULAR BED)

III) PIPES UNDER FOOTPATHS, PATIOS, CARPARKING:-

A)PIPES WITH LESS THAN 400MM COVER BEDDING CLASS Z (CONCRETE SURROUND 150MM THICK)

B)PIPES WITH GREATER THAN 400MM COVER, BEDDING CLASS F (GRANULAR BED)

IV)PIPES UNDER ROADS (OBTAIN AGREEMENT OF HIGHWAYS DEPARTMENT PRIOR TO COMMENCEMENT OF WORKS)

A)PIPES WITH LESS THAN 1200MM COVER, BEDDING CLASS Z (CONCRETE SURROUND)

B)PIPES WITH GREATER THAN 1200MM COVER, BEDDING CLASS F (GRANULAR BED)

V) TRENCHES / PIPES NEAR BUILDINGS

A) PIPES LESS THAN 1 METRE FROM BUILDNG TO BE ENCASED IN CONCRETE TO A LEVEL NOT LESS THAN TO UNDERSIDE OF FOUNDATION.

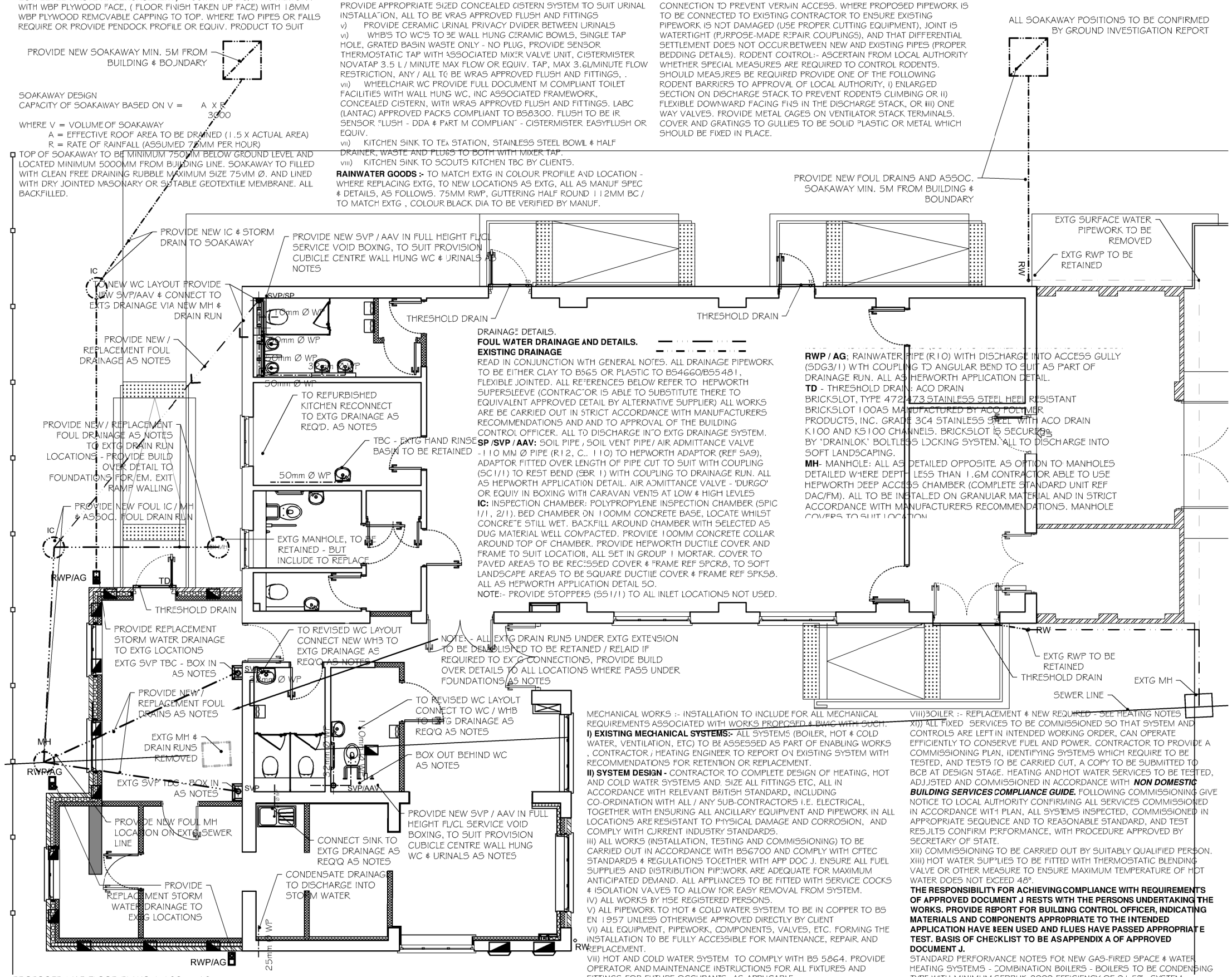
B) PIPES GREATER THAN 1 METRE FROM BUILDING TO BE ENCASED IN CONCRETE UP TO LEVEL EQUAL TO CRITICAL LEVEL. (CRITICAL LEVEL IS DMM LOWER THAN LEVEL OF FOUNDATION BOTTOM. D MM BEING THE HORIZONTAL DISTANCE OF THE SIDE OF THE TRENCH FROM THE FOUNDATIONS MINUS 150MM.

VI) BUILDING OVER PIPEWORK - ALL WORKS TO UNDERTAKEN TO THE APPROVAL OF LOCAL DRAIN AUTHORITY. ENTER INTO A BUILDING OVER SEWER AGREEMENT

1 WHERE PIPE INVERT IS LESS THAN 2M EXTEND FOUNDATION TO TO BELOW PIPE INVERT. FORM OPENING TO GIVE MINIMUM 50MM CLEARANCE AROUND PIPE, WITH OPENING MASKED WITH RIGID SHEET MATERIAL TO PREVENT INGRESS OF FILL OR VERMIN. FILL VOID WITH COMPRESSIBLE SEALANT TO PREVENT INGRESS OF GAS.

2 WHERE PIPE INVERT IS MORE THAN 2M OR WHERE PIPE PASSES UNDER FOUNDATION FOUNDATION TO BE DESIGNED AS A LINTEL, SPANNING OVER PIPE, EXTENDING MINIMUM 1500MM EITHER SIDE OF PIPE ALL DESIGNED SO THAT NO LOAD IS TRANSMITTED ONTO THE DRAIN.

Rev.
C



PROPOSED M&E FLOOR PLANS 1:100 @ A3

MECHANICAL WORKS :- INSTALLATION TO INCLUDE FOR ALL MECHANICAL REQUIREMENTS ASSOCIATED WITH WORKS PROPOSED & BWIC WITH SUCH.

I) EXISTING MECHANICAL SYSTEMS:- ALL SYSTEMS (BOILER, HOT & COLD WATER, VENTILATION, ETC) TO BE ASSESSED AS PART OF ENABLING WORKS , CONTRACTOR / HEATING ENGINEER TO REPORT ON EXISTING SYSTEM WITH RECOMMENDATIONS FOR RETENTION OR REPLACEMENT.

II) SYSTEM DESIGN - CONTRACTOR TO COMPLETE DESIGN OF HEATING, HOT AND COLD WATER SYSTEMS AND SIZE ALL FITTINGS ETC, ALL IN ACCORDANCE WITH RELEVANT BRITISH STANDARD, INCLUDING CO-ORDINATION WITH ALL / ANY SUB-CONTRACTORS I.E. ELECTRICAL, TOGETHER WITH ENSURING ALL ANCILLARY EQUIPMENT AND PIPEWORK IN ALL LOCATIONS ARE RESISTANT TO PHYSICAL DAMAGE AND CORROSION, AND COMPLY WITH CURRENT INDUSTRY STANDARDS.

III) ALL WORKS (INSTALLATION, TESTING AND COMMISSIONING) TO BE CARRIED OUT IN ACCORDANCE WITH BS6700 AND COMPLY WITH CITEC STANDARDS & REGULATIONS TOGETHER WITH APP DOC J. ENSURE ALL FUEL SUPPLIES AND DISTRIBUTION PIPEWORK ARE ADEQUATE FOR MAXIMUM ANTICIPATED DEMAND. ALL APPLIANCES TO BE FITTED WITH SERVICE COCKS & ISOLATION VALVES TO ALLOW FOR EASY REMOVAL FROM SYSTEM.

IV) ALL WORKS BY HSE REGISTERED PERSONS.

V) ALL PIPEWORK TO HOT & COLD WATER SYSTEM TO BE IN COPPER TO BS EN 1057 UNLESS OTHERWISE APPROVED DIRECTLY BY CLIENT

VI) ALL EQUIPMENT, PIPEWORK, COMPONENTS, VALVES, ETC. FORMING THE INSTALLATION TO BE FULLY ACCESSIBLE FOR MAINTENANCE, REPAIR AND REPLACEMENT.

VII) HOT AND COLD WATER SYSTEM TO COMPLY WITH BS 5864. PROVIDE OPERATOR AND MAINTENANCE INSTRUCTIONS FOR ALL FIXTURES AND FITTINGS FOR FUTURE OCCUPANTS, AS APPLICABLE.

VIII)BOILER :- REPLACEMENT & NEW REQUIRED - SEE HEATING NOTES

XI) ALL FIXED SERVICES TO BE COMMISSIONED SO THAT SYSTEM AND CONTROLS ARE LEFT IN INTENDED WORKING ORDER, CAN OPERATE EFFICIENTLY TO CONSERVE FUEL AND POWER. CONTRACTOR TO PROVIDE A COMMISSIONING PLAN, IDENTIFYING SYSTEMS WHICH REQUIRE TO BE TESTED, AND TESTS TO BE CARRIED OUT, A COPY TO BE SUBMITTED TO BCB AT DESIGN STAGE. HEATING AND HOT WATER SERVICES TO BE TESTED, ADJUSTED AND COMMISSIONED IN ACCORDANCE WITH ***NON DOMESTIC BUILDING SERVICES COMPLIANCE GUIDE.*** FOLLOWING COMMISSIONING GIVE NOTICE TO LOCAL AUTHORITY CONFIRMING ALL SERVICES COMMISSIONED IN ACCORDANCE WITH PLAN, ALL SYSTEMS INSPECTED, COMMISSIONED IN APPROPRIATE SEQUENCE AND TO REASONABLE STANDARD, AND TEST RESULTS CONFIRM PERFORMANCE, WITH PROCEDURE APPROVED BY SECRETARY OF STATE.

XII) COMMISSIONING TO BE CARRIED OUT BY SUITABLY QUALIFIED PERSON.

XIII) HOT WATER SUPPLIES TO BE FITTED WITH THERMOSTATIC BLENDING VALVE OR OTHER MEASURE TO ENSURE MAXIMUM TEMPERATURE OF HOT WATER DOES NOT EXCEED 48°.

THE RESPONSIBILITY FOR ACHIEVING COMPLIANCE WITH REQUIREMENTS OF APPROVED DOCUMENT J RESTS WITH THE PERSONS UNDERTAKING THE WORKS. PROVIDE REPORT FOR BUILDING CONTROL OFFICER, INDICATING MATERIALS AND COMPONENTS APPROPRIATE TO THE INTENDED APPLICATION HAVE BEEN USED AND FLUES HAVE PASSED APPROPRIATE TEST. BASIS OF CHECKLIST TO BE AS APPENDIX A OF APPROVED DOCUMENT J.

STANDARD PERFORMANCE NOTES FOR NEW GAS-FIRED SPACE & WATER HEATING SYSTEMS - COMBINATION BOILERS - BOILERS TO BE CONDENSING TYPE WITH MINIMUM SEDBUK 2009 EFFICIENCY OF 91.5%. SYSTEM CIRCULATION - HEATING & HOT WATER PRIMARY CIRCUITS TO HAVE FULLY PUMPED CIRCULATION. WHERE MANU. ADVISE INSTALLATION OF A BY-PASS - PROVIDE AUTOMATIC BYPASS VALVE & FOLLOW RECOMMENDATIONS ON MINIMUM PIPE LENGTH.

SYSTEM PREPARATION & WATER TREATMENT - SYSTEM TO BE THOROUGHLY CLEANED AND FLUSHED OUT BEFORE INSTALLING A NEW / REPLACEMNT BOILER. PROVIDE INHIBITOR, BUILDCERT OR EQUAL, IN ACCORDANCE WITH MANU' RECOMMENDATIONS.

COMMISSIONING:- ON COMPLETION OF INSTALLATION OF BOILER, HOT WATER STORAGE SYSTEM AND ASSOCIATED EQUIPMENT (PIPEWORK, PUMPS, & CONTROLS) ALL ARE TO BE COMMISSIONED IN ACCORDANCE WITH MANU. INSTRUCTIONS. FULLY EXPLAIN ENERGY EFFICIENT SYSTEM OPERATION TO USER & PROVIDE ALL MANUALS. THE BENCHMARK COMMISSIONING CHECKLIST CAN BE USED TO INDICATE COMPLIANCE - COPY TO BE PROVIDED TO END USER, AGENT & BCO, COPY TO BE RETAINED BY INSTALLER.

CONTROLS - A) BOILER INTERLOCK - WIRE SYSTEM SO THAT WHEN NO DEMAND FOR HW OR HEATING THE BOILER & PUMP ARE SWITCHED OFF. B) ZONING - SCOUT HALL & OFFICE EACH AS SEPARATE INDEPENDENT SYSTEMS TO HAVE AT LEAST 2NO SPACE HEATING ZONES EACH, WITH INDEPENDENT CONTROLLED CIRCUITS. C) SPACE HEATING - EACH CIRCUIT TO BE PROVIDED WITH INDEPENDENT TIME CONTROL AND EITHER i) ROOM THERMOSTAT IN A REFERENCE ROOM TOGETHER WITH TRVS TO ALL OTHER RADIATORS OR ii) INDIVIDAL NETWORKED RADIATOR CONTROLS IN EACH ROOM ON THE CIRCUIT.D) INSULATION :- ALL HEATING AND HOT WATER PIPEWORK PIPEWORK IS TO BE FULLY INSULATED

NOTE - ALL DRAINAGE DETAILS INC SOAKAWAYS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERS SPEC & DETAILS

SCALE 1:100 @ A3

0 0.5 1.0 2.5

- NOTE -

All dimensions to be checked on site by contractor prior to commencement of any & all works & manufacture of prefabricated items. Any discrepancy or query to be reported and clarified before any associated / all work proceeds. All construction to be in accordance with current relevant Trade and Professional Standards and Guidelines, Statutory requirements and product manufacturers specifications and details. Read drawing in conjunction with finishing specification, workmanship specification, all other associated drawings issued and details which may be issued from time to time.

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Revision
A 20-10-2017 Notes & details amended
B 27-10-2017 Manhole changed to 450 Plastic
C 22-12-2017 Details amended

Title
24A GLOUCESTER RD
ALMONDSBURY
BS32 4HA

Description
PROPOSED GROUND FLOOR DRAINAGE PLANS

Drg. No 16/0115/204C

Date MAY 2017 **Scale** NOTED @ A3

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