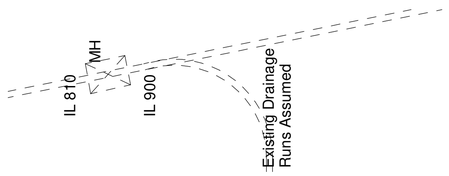
Part H2: Foul Drainage Below Ground

Existing Drainage

A All existing drainage runs are assumed and shall be ascertained by Contractor upon commencement of work. Contractor should allow for dye tests to be carried out to ascertain direction and flow of pipework.
Where ground conditions are poor or trees are present the contractor should allow for a CCTV survey to be carried out to affected drains.
Where existing drains are suspected to be in the vicinity of or run under the area of building a CCTV survey should be allowed for and carried out to ascertain the condition of pipes and need to move or replace them.
where practicable new pipework should be laid so that the drainage run is outside the footprint of the building. Where a drain run is to pass under the building, no more than two connections should be possible into this route.



New Drainage

A All new drains to be 100 mm dia Hepworths supasleeve vitrified clay pipes laid in straight lines at 1 in 40 m falls on trimmed trench bottoms with flexible joints, backfilled with selected as dug materials.
Provide 150 mm dia sleeve pipe with reinforced concrete lintels over a flexible joint each side where drains pass through foundation brickwork.
New 100 mm drains laid to falls and surrounded with 150 mm concrete where they pass under building, to connect to existing drain in yard immediately adjacent to extension.
Alternative: Subject to ground conditions and agreement with BCO plastic pipework may be used
Using either Hepworth PlastiDrain plain end 110 160 and 200 dia pipes with separate flexible connectors or Ultrarib fully socketed system in 150, 225 and 300 dia , this type has a unique ring seal jointing system preventing seal dislodging during connection.

B Provide new 100 mm svp in position shown to collect waste from sanitaryware.
Connection of bath waste pipe into svp to be min 200 mm below connection of WC, svp to connect into main drains via slow radius curve (min 300 mm radius) and to cease 900 mm above head height of nearest window - head of pipe to be connected to a tile terminal with flexible hose connector. Provide lead collar at junction of roof where svp terminates roof structure. Box in svp as shown with 12.5 mm plasterboard, filled and taped joints with skim finish, provide glass fibre insulation to lag pipe.
Air admittance valves to be fitted to soil pipe in a position not liable to freezing, above the flood level of the highest sanitary fitting being served.

Inspection Chambers

A The contractor shall excavate for and construct new inspection chambers, size 450 mm dia to depths as shown on drawings in precast concrete bedded to manufacturers instructions with 450 mm dia medium duty manhole covers and frames set in mortar.
Provide all necessary bending and channelling to suit connections, all to the approval of the Local Authority Inspector. Storm and foul manholes greater than 930 depth to comprise of 215 mm brick chambers to BS3921 internal dimensions 1200 x 750 mm build off 150 mm thick concrete (1:2:4) slab. All connections formed in half channels and finished with 1:3 cement/sand benching.

Part H3: Rainwater Drainage

Rainwater Disposal

A It is now a requirement that all new rainwater is taken to soakaway; subject to percolation test.
If ground conditions do not permit soakaway, they can then be taken to existing surface water drain.
If the entire system is on a soakaway - Client should apply for reduction in water bill
Where percolation proves that a soakaway is not possible, stormwater may be connected into existing mains drainage but this must be via a trap. (to satisfy H1) , or to a nearby watercourse

B See Rainwater Runoff Calculations for Downpipe and Gutter sizing.
Provide a rainwater gutter, fixed level or with one outlet at right end, fixed at the end.
Distance from the stop end to the outlet to be no greater than 50 x the depth of the gutter

C New trapped storm water gullies with grating and frame to gulley to be provided at ground level in positions shown.
Rainwater goods in accordance with BS 4514.
New rainwater pipes to connect in new storm gulley with combined rodding access, with stoneware bends and 150 mm concrete bed and surround.

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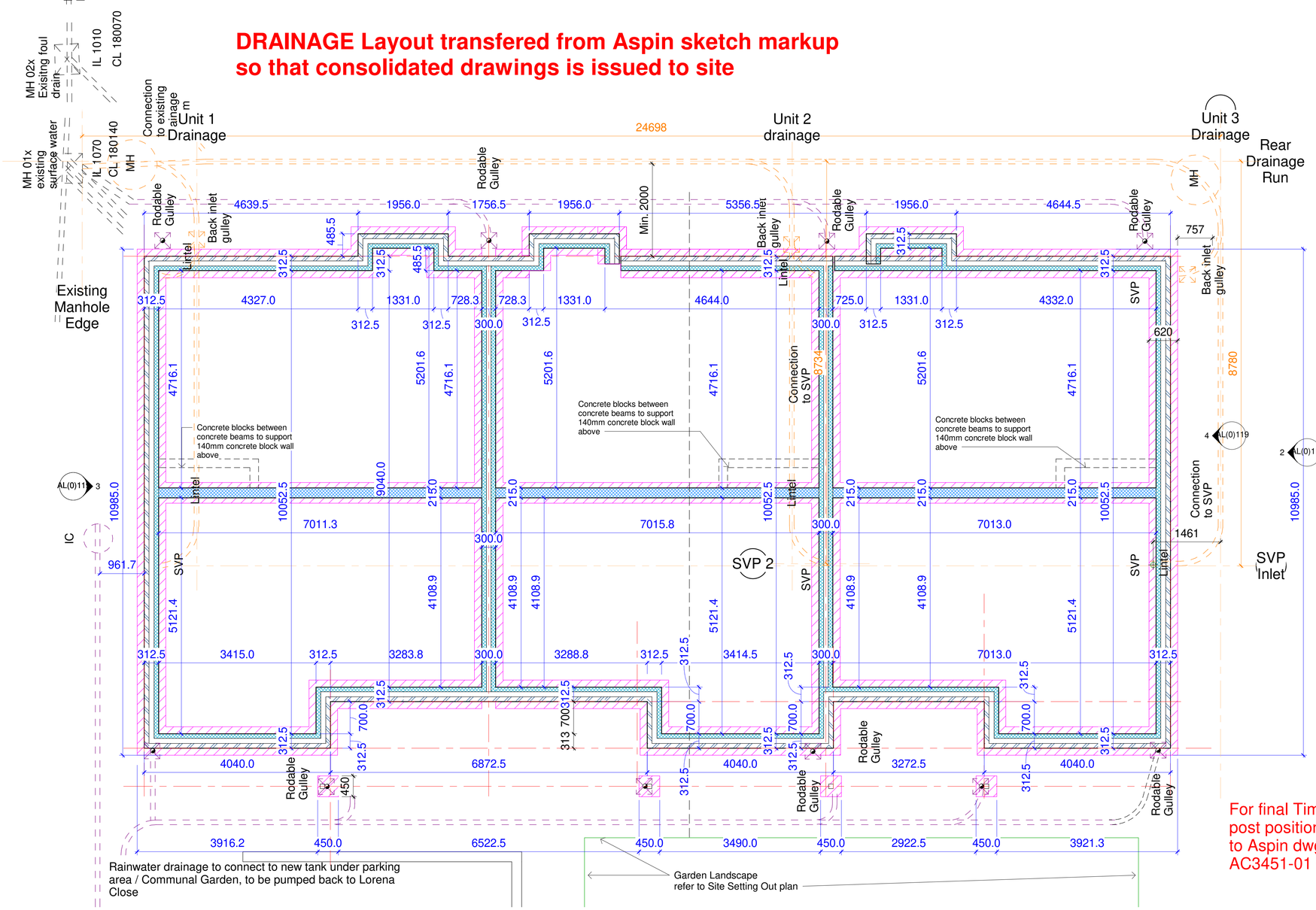
Rev.	Drawn	Comments	Date
A	OH	Sleeper Wall Added following comment from Beam & Block Floor Manufacturer	07/08/15
B		Rear RWP's moved. IC's removed from rainwater pipework	11/08/15
C	SS	Foundations dims removed and wall dimesnions added. Fence line added and dims added to fence.	14/12/17
D	SS	Building extended by 6 bricks and bungalows amended to cottages. Layouts reconfigured and regularised.	16/01/18
E	SS	Internal spine wall thickness amended following comments from beam and block manufacturer. Spine wall dog leg removed and spine wall straightened following discussion with SE. Blockwork above to be supported on blocks between concrete floor beams following discussion with SE.	22/01/18
F	SS	RWP positions amended following amendments to roof.	02/02/18
G	SS	Party wall blocks and inner leaf of external wall blocks amended.	23/08/18

DRAINAGE Layout transfered from Aspin sketch markup so that consolidated drawings is issued to site



2 Foundations & Drainage Layout
1 : 50

215mm 7.3kN Concrete Block

12.5mm pre-finish plasterboard

140mm 7.3kN Concrete Aggregate Block

140mm 3.6kN Concrete Aggregate Block

Tarmac Toplite Standard Aircrete Block 3.6N
100mm Internal leaf of external walls

Tarmac Toplite 7 Aircrete Block 7.3N 100mm Party wall blocks

GTEC CSR70 m/f firrings with 12.5mm plasterboard either side with 25mm acoustic insulation where shown

1 Wall Key
1 : 20

For final Timber post positions refer to Aspin dwg AC3451-01 C01

GRAPHIC SCALE: 1:50

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Architects : Interior Architecture : Conservation : Landscape

Client
James W.Bostock

Project
Block One Two Bed Cottages at Former Prize Buildings Site, Turnhall Road, Biddulph ST8 6HH

Title
Drainage & Foundations Layout

Status
Construction

Date 01/12/16 Drawn OH
Scale @A1 As Indicated Checked BSP
Project No. Drawing No. Dwg Status Rev
13-062 AL(2)101 G

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