



Legend:

- Proposed Foul Water Chamber
- Proposed Combined Water Chamber
- Soil Vent Pipe/stub Stack
- Rainwater Pipe
- Proposed Floor Gully
- Proposed Level

Linetype Legend:

- Overall Site Boundary
- Existing Foul Sewer
- Existing Storm Sewer
- Existing Electrical (Low Voltage)
- Existing Electrical (High Voltage)
- Existing Telecoms
- Existing Water
- Existing Gas
- Existing Cable TV
- Proposed Foul Drain
- Proposed Storm Drain
- Proposed Combined Drain
- Slab Edge (Refer to Structural Plans)

Symbols & Abbreviations:

Ø	- Diameter	FFL	- Finished Floor Level
SVP	- Soil Vent Pipe	SSL	- Structural Slab Level
SS	- Stub Stack	CI	- Cast Iron pipe
RWP	- Rainwater Pipe	PVC	- uPVC pipe
RE	- Rodding Eye	VC	- Vitrified clay pipe
BD	- Back Drop	PE	- Polyethylene Pipe
FW.01	- Foul Water Manhole Reference	IT	- Interceptor Trap
SW.01	- Surface Water Manhole Reference		
CW.01	- Combined Water Manhole Reference		
IL	- Invert Level		
CL	- Cover Level		
CD	- Channel Drain		
SD	- Silt Drain		
LD	- Lift Drain		
FG	- Floor Gully		
SG	- Shower Gully		
YG	- Yard Gully		
PS	- Pump Station		

Design Notes :

Existing Site Area:	501 m ²
Proposed Site Area:	548 m ²
Total Existing Impermeable Area:	501 m ²
Total Proposed Impermeable Area:	548 m ²
Existing Peak rate run off from Impermeable Areas:	7.0 l/s
Proposed restricted Surface Water discharge rate:	5 l/s
Total Attenuation for 100YS + 30%CC:	15.7 m ³
Existing peak foul water rate:	< 1.0 l/s
Proposed peak foul water rate (xx units):	tbc l/s

NOT FOR CONSTRUCTION

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Drawing Status

PRELIMINARY

Project

AMBASSADORS THEATRE

Title

UPPER BASEMENT SERVICES LAYOUT

Date

SEP 2014

Scale

A1@1:100

Drawn

LM

Engineer

LM

Project No

140352

Drawing No

C101

Revision

P1

NOTES:

- Invert levels and positions of existing drains / chambers / sewers where new connections are to be made must be checked and confirmed to the engineer prior to the commencement of any works.
- All drainage works shall be carried out in accordance with the requirements of the Local Authority, the Environment Agency and in conjunction with all relevant British Standards, Codes of Practice and 'Sewers for Adoption' 7th Edition and any addendums as appropriate.
- All drainage shall comply with the typical details and the requirements of BS EN 752 and Part H of the Building Regulations.
- Any part of the existing drainage system to be retained as part of the new scheme shall be cleaned and inspected. Any structural defects shall be repaired using appropriate and approved means.
- For setting-out dimensions of SVP's, RWP's etc. refer to Architect's or Mechanical Engineer's drawings. Positions shown are indicative and subject to final design.
- All foul and RWP connections shall be 100mm diameter unless otherwise specified.
- All precast concrete units used in the drainage works shall be manufactured using sulphate resisting cement.
- Manhole covers and frames shall be to BS EN 124 and shall be Kitemarked. Covers and frames shall be heavy duty D400 in carriageways and vehicular areas and medium duty B125 in footways and soft landscaping. In blocked concrete paved areas covers shall be recessed fabricated steel. All recessed covers shall in accordance with the FACTA association gradings.
- All internal inspection chambers to be recessed, double sealed with screw down covers.
- Cover levels are to be adjusted locally to suit finished ground levels.
- At least one soil pipe at the head of each foul run shall vent to the atmosphere.
- Existing drainage to be removed is to be broken out to bed level and void backfilled with granular material, compacted in layers not exceeding 250mm.
- All drain runs from SVP's, stub stacks or FW gullies to be laid at 1:40 gradient unless otherwise stated. All RWP's to be laid 1:80 min unless otherwise stated.
- All manholes / inspection chambers in block paved areas, to have recessed covers. MH covers in paved areas to have cover & frame orientated 'square' with paving to minimise cut slabs or blocks.
- All private drainage to be laid to levels shown using flexibly jointed pipes, either uPVC to BS 4660 and BS 5481 or vitrified clayware to BS EN 295. Pipes below structural building slabs or basements shall be Cast Iron to BS 437.
- Rodding eyes, etc are to be laid to manufacturers minimum cover and depth to allow adequate fall from adjoining unit.
- All proposed trees to have appropriate tree barrier details linking pits to ensure roots are directed away from drainage.
- Where new sewers are constructed within 5m of a new or existing tree the sewer shall be concrete encased against root intrusion. Refer to drainage details.
- All new drainage to be jetted and CCTV surveyed on completion. Contractor to make sure that the drainage is fully operational. Refer to Drainage maintenance manual for maintenance details.
- All runs connecting into the public drainage network to be vitrified clay, extra length to BS EN 295 or BS65 with plain sleeved or socketed flexible joints.
- CDM note: All pipework, silt traps, catchpits, trapped gullies and attenuation tanks to be regularly inspected every three months and cleared out on a regular frequency for the first nine months. After this period the frequency can be reduced to every six months. Porous surface to be regularly swept three times a year to remove the silt.
- This drawing is to be read in conjunction with all relevant Conisbee drawings.
- HEALTH AND SAFETY: The works shall be carried out by specialist competent and experienced contractors who are members of a recognised national organisation. Operatives shall have received full and appropriate training for the operations they are to undertake. All work shall be carried out in accordance with all pertinent Health and Safety Regulations.

READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER RELEVANT DRAWINGS. DO NOT SCALE FROM THIS DRAWING.