GLADESIDE ROAD

GREENWOOD ROAD

NORTH

387780N

387760N

387740N

387720N

387820E

+50.600

450 SEWER

Assumed line of existing 150mm branch drain connecting to existing combined MH

Existing manhole to be grubbed up & back filled

Attenuation Tanks
2.1m wide x 1.35m deep x 14m long ECC EcoCell attenuation tanks installed in accordance with manufactures specification. Min 300mm soil cover over

Attenuation Tanks
2.1m wide x 1.35m deep x 14m long ESS EcoCell or similar attenuation tanks installed in accordance with manufactures specification. Min 300mm soil cover over

Attenuation Tanks
13m wide x 0.15m deep x 13m long ESS AquaDrain 50 Modular GeoVoid or similar attenuation tanks installed in accordance with manufactures specification to terrace garden..
Min 300mm soil cover over

SWIC-10
CL=
IL=
with hydrobrake flow restrictor with 5l/sec discharge rate

New 1350mm dia PCC MH (type 4) to United Utility plc Standard Details

375mm surface water sewer

150 dia @ 1:80

150 dia @ 1:100

225 dia @ 1:100

100 dia @ 1:80

2B 62sqm

2B 61sqm

1B 40sqm

2B 64sqm

1B 40sqm

2B 63sqm

1B 40sqm

1B 40sqm

2B 61sqm

1B 42sqm

1B 43sqm

40no. cycles

lobby +51.450

+51.450

+51.290

riser

lift

Balcony

GF plinth +51.450

Residents garden

REFUSE COLLECTION POINT

Ramp to basement car park

Permeable paving to ramp to car park

waste

Existing tree 1

Existing tree 2

Existing tree 3

Existing tree 4

Existing tree 5

Existing tree 6

EAVES LEVEL

RIDGE LEVEL

GRASS

TARMAC

CONC

TP

WM

ST

FH

MH

RS

DRAINAGE KEY

- EXISTING FOUL SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED FOUL SEWER
- PROPOSED SURFACE WATER SEWER
- DIRECTION OF FLOW
- S-MH SURFACE WATER MANHOLE
- S-IC SURFACE WATER INSPECTION CHAMBER
- F-MH FOUL WATER MANHOLE
- F-IC FOUL WATER INSPECTION CHAMBER
- RWP SEALED RAIN WATER PIPE WITH BACK INLET GULLY
- WG SEALED WASTE GULLY
- SVP SOIL WASTE & VENT PIPE

GROUND FLOOR PLAN

PRELIMINARY

Below Ground Drainage

1. All proposed drainage levels shown on the drawings are taken from the levels provided on the Architects/Survey drawings and **must** be confirmed by the contractor on site **prior** to excavating trenches etc. All invert levels are to the underside of any pipes, inspection chambers, manholes or tanks and it is the contractors responsibility to check these prior to commencing works. Any discrepancies are to be reported to STL Projects Ltd as soon as possible to allow for re-assessment where necessary.
2. All new below ground drainage is to be of 100mm diameter, unless noted otherwise, Hepworth Supersleeve vitreous clay pipework to BS65:1981 laid and bedded to manufacturer's instructions to sizes dependant upon loading conditions and gradients within their recommendations, to comply with BS 8301:1985 together with parts H1, 2 & 3 of the Building Regulations.
3. Jointing shall be either flexible pushfit cuplings or by sealing rubber "o" rings in polyester mouldings.
4. Drains to be laid in suitable trench bedding classes for the specific application and in accordance with all relevant British Standards and Building Regulations at the time of installation.
5. Where pipes run beneath solid floors, roads or are close to the surface then these should be encased in minimum 150mm concrete.
6. Where pipes run through walls then suitable precast concrete lintels are to be installed over the line of the pipe and the voids filled with gravel to prevent loading from the walls to the pipes.
7. No drainage pipes are to be laid beneath or within 45 degrees of the underside of a foundation.
8. Pipes are to be laid on a gradual fall as shown on the drawings to suit invert levels shown, although minimum falls of 1:40 for 100mm diameter foul sewers and 1:100 for 100mm diameter surface water pipes are used unless calculated otherwise.
9. Wherever possible, surface water should be discharged into suitable water storage units or directly into a soakaway positioned at least 5m from any structure.
10. Where drainage runs exceed 20m in length then intermediate rodding eyes/inspection chambers should be installed.
11. All new gullies should be back inlet gullies, BIG's, for rodding purposes.
12. All new soil vent pipes should have rodding access covers.
13. All new manholes are to be of suitable design for the application and in accordance with all relevant British Standards and Building Regulations at the time of installation.
14. Proprietary plastic inspection chambers are required at a change in direction, max 1.0m deep, whilst masonry or precast concrete ring chambers are required below this depth.
15. Brickwork manhole construction to be of 225mm class "B" engineering brickwork in 1:3 cement/mortar.
16. Brick or concrete ring manholes to be built up off minimum 150mm thick concrete base. Benching of concrete base to be formed around drainage inlets to a smooth finish and fall to outlet.
17. Cast iron steps to BS1247:1975 shall be provided where depth of chamber exceeds 1000mm. All external MH covers shall be medium duty galv. steel to BS497 unless located within carriageways or car parks where heavy duty cast iron are to be used.
18. Manhole cover to be seated in recessed steel frames and sealed with grease on 100mm thk concrete frame base with 600x600mm min opening.
19. Any internal chambers shall be fitted with a double seal bolt down cover with an "inlay" access for finishes and set in greased frame.
20. Proprietary u.p.v.c inspection chambers to have 150mm min sulphate resisting conc base.

The Copyright of this drawing belongs to STL Projects Ltd and shall not be used or reproduced in any form without its express permission. The moral right of the Author is hereby asserted - Copyright © 2000. Do not scale from this drawing - Work to figured dimensions only. All dimensions to be confirmed with Architect, where applicable, or checked on site prior to the execution of any work. For the avoidance of doubt all dimensions are measured to wall structure and not the finishes unless otherwise stated. Where any discrepancy is found to exist within or between drawings and/or documents it should be reported to the engineer immediately. STL Projects Ltd shall not be liable for any use of drawings & documents for any purpose other than for which the same were prepared by or on behalf of STL Projects Ltd. This drawing is to be read in conjunction with all other relevant information.

STL
CONSULTING STRUCTURAL ENGINEERS
1 Barkers Lane Sale Cheshire M33 6RP
t. 0161 969 3218
e. info@stlprojectsltd.co.uk
www. stlprojectsltd.co.uk

Details
0 500 1000 mm

Plans
0 1 2 3 4 5 m

Revisions:

Date	Revision Details

- ISSUED AS WORKING DRAWING
- CLIENT APPROVED
- PRELIMINARY

Client: ECS Capital Ltd

Project: Land at Greenwood Rd/ Gladesides Rd

Title: PROPOSED EXTENSION DRAINAGE

Drawn:	Scale:
MSR	1:125
Checked by:	**Date:** 23/09/19

Drawing No. 19-3704 D01 | P4