

Site Details

26,317m² / 2.632ha : Development area

7,210m² / 0.721ha : Proposed impermeable area

5.0 l/s : Proposed Q100+40% climate change storm discharge rate to sewer (49% Betterment)

Storage Areas:

Area 1 (Club House & Units 1-6 - Attenuation Pond 1) : 225m³

Area 2 (Permeable Paving with 500mm deep Voided Stone) : 225m³

Development impermeable areas to be drained into the ordinary watercourse via attenuation ponds and voided stone with minimum SUDs treatment to Cria753, via gravity and pumped sewers.

All drainage to be constructed in accordance with Sewers for Adoption 6th Edition and Building Regulations Part H.

Layout subject to detailed level and FFL design.

A CCTV survey of the as-built drainage is to be undertaken by the Contractor and provided to the Engineer for final approval

Sewer details shown are taken from STW sewer records and are to be confirmed by Contractor prior to commencement of the works

Minimum pipe cover to soffits to be as per The Building Regulations 2010 Part H for thermoplastic pipes:

• 0.6m in pedestrian or landscaped areas

• 0.9m in vehicle accessible areas

Any pipes with cover to soffit less than those stated above are to have a Class Z concrete pipe bed & surround

Internal foul drain pipe minimum gradients:

• 1:80 from SVP & WC to IC

• 1:40 from Basin & Sink to IC

Refer to Architect's/M&E drawings for pipe sizes and setting-out information.

1 Mesh Screens

Mesh screen to be placed over the outlet pipe of chamber during site construction works and removed immediately prior to the first occupancy of the dwellings served by the sewers

2 Proposed Outfall

Proposed storm outfall to ditch subject to LLFA and Environmental Agency approval

3 Existing Attenuation Basin

Online basin to store surface water runoff on site prior to discharge

4 Discharge Rate

Storm discharge from site restricted to 5.0l/s. for a 1in100 year +40% climate change storm event, using a flow control chamber. Subject to approval with LLFA.

5 Discharge Conditions

Drainage discharge rate, water quality criteria and surface water ditch headwall construction subject to the Approval of the Environment Agency prior to commencement of the works.

6 Existing Watercourse Connection

Connection subject to Ordinary watercourse consent and discharge is subject to LLFA Approval.

7 Hydro-Brake Flow Control Chamber

Proposed manhole Ø1200 fitted with a Hydro-Brake and 500mm sump (silt trap) to restrict private surface water discharge.

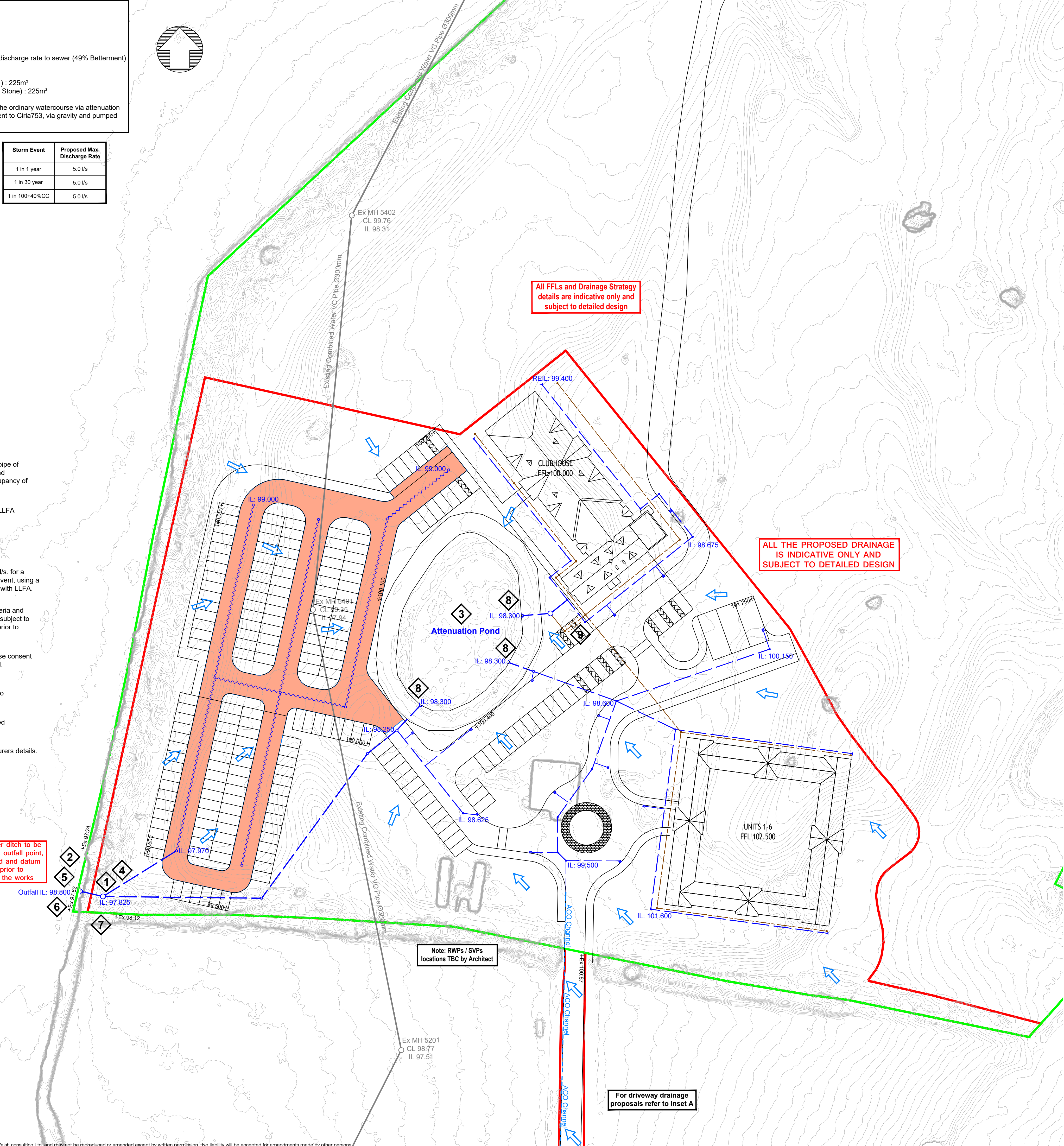
8 Concrete Headwalls

New precast concrete headwall constructed within the attenuation pond.

9 Proposed Foul Treatment Tank

Proposed foul treatment tank to manufacturers details.

Existing surface water ditch to be surveyed at proposed outfall point, using same local grid and datum as site survey, prior to commencement of the works



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Inset A

Inset A provides a detailed view of the drainage system's connection to the existing infrastructure. It shows the ACO Channel running along the site boundary, with various manholes (MH) and inspection points (IP) marked. The inset includes a legend for the symbols used, such as the ACO Channel, MH, and IP. The inset also shows the connection to the existing watercourse and the proposed outfall point.

General Notes

1. DO NOT SCALE.

2. This drawing is to be read in conjunction with all other relevant drawings and details.

3. Should there be any conflict between the details indicated on this drawing and those on other drawings the Engineer should be informed PRIOR to construction on site.

4. Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. Should the Contractor commence site work prior to such approval being given it is entirely at their own risk.

5. Sketch proposals are for illustrative purposes only and as such are subject to detailed site investigation including ground conditions / contaminants, drainage, design and planning / density negotiations.

6. All dimensions are in millimetres unless otherwise stated.

7. The Farrow Walsh Consulting Designers Risk Assessments for this project must be reviewed PRIOR to the commencement of any works on site.

NOTES

1. This drawing is for Planning purposes only and is not to be used for Construction.

2. This drawing to be read in conjunction with all other relevant Engineers and Architect's details.

3. All work is to be carried out in accordance with the current British Standards, codes of practice, building regulations and with Sewers for Adoption 6th Edition guidance.

4. The exact position, level, size and use of existing sewers to be confirmed on site. Any discrepancies to be reported to the Engineer prior to commencement of works.

5. All uncovered and shallow pipework to be protected against construction traffic as part of the Contractors temporary works requirements.

6. All connections to road gullies and channels shall be 150mm nominal bore pipework.

7. All pipework to be U-PVC type in accordance with WIS 4-35-01 unless otherwise noted.

8. All pipes connecting to adopted manholes up to and including 300mm dia. to be Wavin Ultrarib or similar approved.

9. All pipes connecting to adopted manholes greater than 300mm dia. to be Concrete or approved U-PVC.

10. All pipework entering and exiting manholes to be connected with pipe soffits level.

11. All works are to be to the satisfaction of the Engineer, Building Officer, Severn Trent Water, local authority Highway & Flood Planning Officer.

12. All insitu services and drainage networks are to be located and protected as necessary by the Contractor prior to the commencement of the works.

LEGEND

Site Boundary

Application Boundary

1200mm dia. IC

450mm dia. IC Max Depth 3.0m

Surface Water 150mm dia. Pipe

Foul Water 100mm dia. Pipe

Existing 300mm dia. Pipe

Rodding eye (storm only)

Perforated Pipe

Voided stone to provide treatment for the private access

Exceedance flow direction

Yard Gully

P4

Drainage Strategy updated to suit comments received from LLFA dated 13.03.2020, which include amended outfall, ILs and outline level proposals.

BM

OP

JD

23.03.20

P3

Site layout and respective drainage strategy updated to suit updated application boundary, which no longer includes eastern section.

BM

CB

JD

04.02.20

P2

Site boundary amended to reflect Land Title Plan, SV pump added to eastern region and overland flood arrows added as requested by LLFA 02.10.2018.

BM

CB

JD

11.10.18

P1

Issued for Planning.

BM

CB

JD

06.09.18

Rev

Description of updates

Drawn

Checked

Approved

Date

Revision Schedule

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FOR PLANNING

Client:

Statue Homes

Project:

Market Bosworth Golf Leisure and Country Retreat, Market Bosworth

Title:

Drainage Strategy

Drawn:

Checked:

Approved:

Date:

Scale:

BM

CB

JD

September 2018

1:500 @ A1

Drawing No.

FW1219-D-401

Revision:

P4