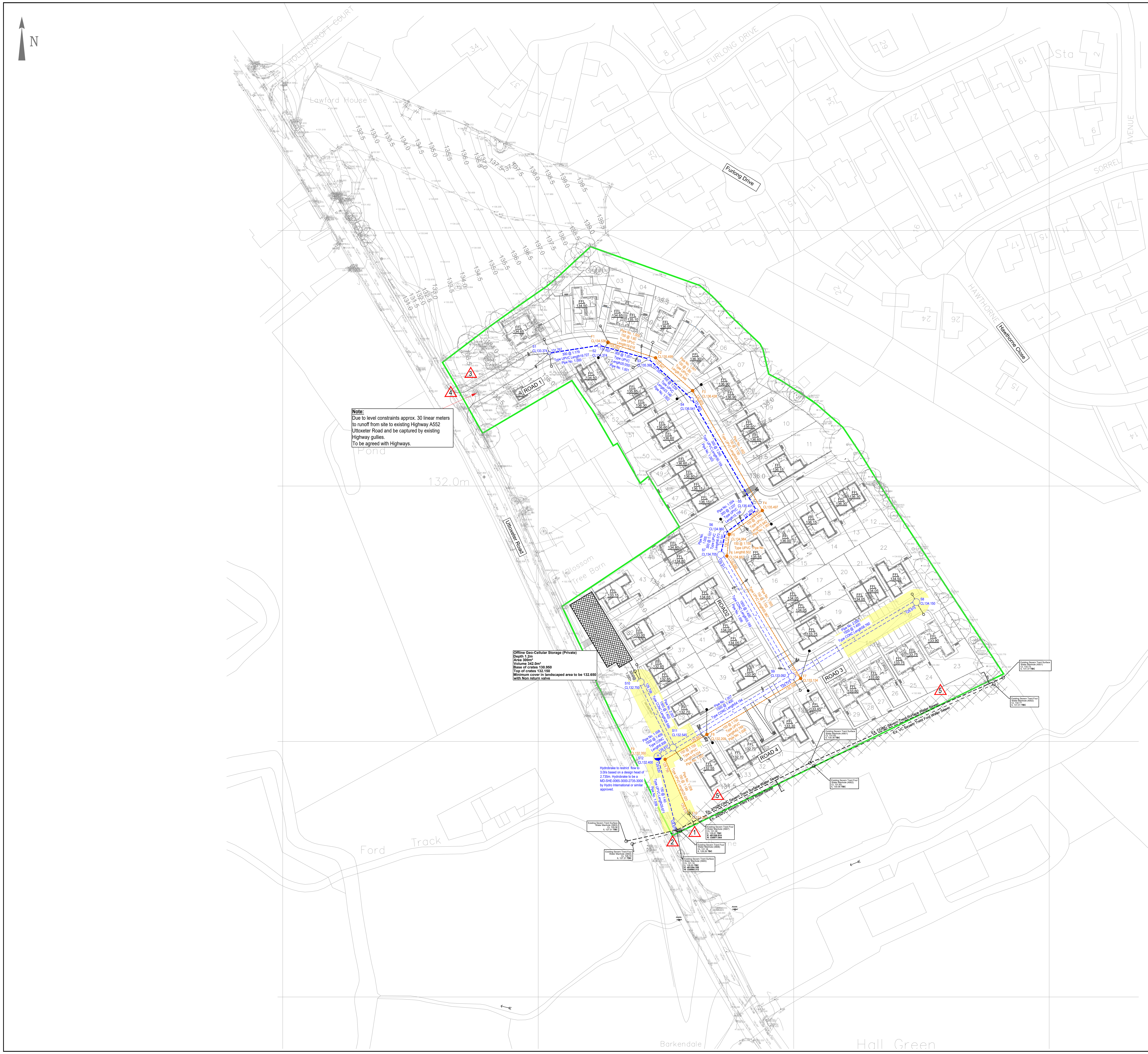

Note:
Due to level constraints approx. 30 linear meters to runoff from site to existing Highway A552 Uttoxeter Road and be captured by existing Highway gullies.
To be agreed with Highways.

Offline Geo-Cellular Storage (Private)
Depth 1.2m
Area 300m²
Volume 342.0m³
Base of crates 130.950
Top of crates 132.150
Minimum cover in landscaped area to be 132.650 with Non return valve

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing.
Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Notes

- All adoptable sewer works and material to be in accordance with DCG, The Relevant British/European and Severn Trent Standards/Requirements/Addendum and "Kitemarked".
- Manhole covers shall/must have a minimum clear opening of 675mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Severn Trent before any sewer works are carried out.
- Severn Trent is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly) . An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.
- Cover slabs must carry the BSI Kitemark or will be rejected by Severn Trent Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 675mm x 675mm for the Severn Trent specified cover size. Please refer to Concrete Pipe Systems Association (CPSA) , 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
- Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers to be laid in Class "S" Bedding (150mm granular bed and surround. Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provide above granular bed and surround.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2) .
- The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
- Severn Trent Water policy is not to accept Type "C" brick manholes and 1050mm dia manhole rings. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
- All lateral drains to be 150mm dia. laid at 1 in 100 gradient.

Drainage Legend:

● F1 —·—	Proposed foul water sewer and manhole
● S1 —·—	Proposed storm water sewer and manhole
●—·—·—	Proposed foul water lateral and connection
○— — —	Proposed surface water lateral and connection
G ☐------	Proposed road gully with Ø150 connecting pipe
●—·—	Existing Adoptable Foul water sewer and manhole
○—·—	Existing Adoptabled storm water sewer and manhole
HP	High points in carriageway
🟨	Proposed Drainage Easement
🟩	Site boundary
▨	Existing Drainage Easement

Prior to any construction, the contractor must confirm the precise invert level and pipe diameter of the receiving drainage system and must immediately advise RSK of any variation to that upon which the design has been based.

FFLs shown are pending completion of external works and private drainage design and are therefore subject to change.

All gullies to be constructed to Staffordshire standard detail 05-67B or 05-68C.

Note: The drainage works are subject to Technical Approval from **Severn Trent** and may therefore change

Design Information Identification	
1	Outfall subject to approval from the relevant authorities
2	Ultimate discharge is 3.1l/s based upon 5l/s/ha as agreed upon Planning App SMD/2018/0509
3	1:20 steepest longfall gradient proposed for Highways.
4	Approximately 30 linear M of new highway will need to drain to the existing road gullies within Uttoxeter Road. Alternatively new road gullies to be added at the site entrance and drain into the existing highway drain. These proposals are subject to approval from the LLFA & Highways.
5	Existing MHs to be surveyed and MH depths and pipe sizes to be recorded and reported to engineer - Design may therefore require updating.

Surface Water drainage philosophy

- Surface water drainage system is to drain via gravity to the existing Severn Trent Sewer to the south-eastern boundary.
- The total surface water discharge rate is 3.1 l/s based upon 5l/s/Ha as agreed under Planning App SMD/2018/0509
- Surface Water catchments allow for 10% Urban Creep from plot footprint
- CV value of 1 (summer) & 1 (winter) applied
- Plots 8-16 & 44-50 to utilise infiltration via permeable driveways, based on an infiltration rate of 0.07272m/hr calculated from the soakaway testing results within the Phase II Site Investigation.
- Below ground attenuation crates to be provided within the private drive area fronting Plots 38 & 43.
- Design is based on FEH data.
- Permeable paving to be utilised on all drives/shared driveways, for the areas which infiltration isnt suitable then the permeable paving is to drain back into the private drainage system.

Foul Water drainage philosophy

- Foul Water Network is to drain via gravity connection to the existing Severn Trent Foul Water Sewer to the south-eastern boundary.

The details provided on this drawing are subject to comments by all the relevant approving authorities. Until such time as all comments have been received and incorporated onto the drawings, all the information provided and costings, are used at Salboy risk and no liability will be accepted by RSK. Scheme based on Layout J1270-WS-TE102-R

Rev	Date	Amendment	Drawn	Chkd	Appd
P5	20.04.26	updated to suit latest layout J1270-WS-TE-102-R	JP	MAR	
P4	17.03.26	Permeable paving removed from drawing as its private and is indicated on the private drainage as requested by the LLFA	CB	MAR	
P3	14.01.26	Drainage updated to FEH data and layout J1270-WS-TE104.	DS	MAR	
P2	20.11.25	Permeable paving added to private/shared driveways, water butts added & the location of the private attenuation has been updated following comments from the LLFA	MAR		
P1	26.09.25	First Issue	CH	MAR	

LDE
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Client
SALBOY

Project Title
Daisy Bank Farm
Tean

Status
DETAILED DESIGN

Drawing Title
Adoptable Drainage Layout

Drawn	Date	Checked	Date	Approved	Date
CH	SEP 25	MAR	SEP 25		

Scale	Orig Size	Dimensions
1:500	A0	

Project No.	File Name
882930	40-01

Drawing No.

Project No.	Orig.	Vol./Sys.	Lev./Loc.	Type	Role	Draw. No.	Rev.
882930						40-01	P5

Scale 1:500
0 5 10 15 20 25m