BLOCK LAYOUT
SCALE: 1:2000
GRID REF: E=299094, N=517065
POST CODE: CA28 6XD

PHASE 2

OFFLINE GEO-CELLULAR STORAGE AREA 2
(FOR ALL STORMS ABOVE THE 1:30YR)
MIN COVER LEVEL: 115.026
BASE LEVEL: 114.156
VOLUME: 88.20m³
AREA: 210m²
(BASED ON 1 LAYER OF 1000X500X420 GEO CELLS)

OFFLINE GEO-CELLULAR STORAGE AREA 1 (S6)
(FOR ALL STORMS ABOVE THE 1:30YR UPTO 1:100YR+40%CC)
COVER LEVEL: 125.150
INVERT LEVEL: 122.771
VOLUME: 88.20m3
AREA: 105m²
(BASED ON 2 LAYERS OF 1000X500X420 GEO CELLS)

KEY:
- Foul water sewer
- Storm water sewer
- Combined sewer
- Back drop manhole (all backdrops will be in accordance with figure B16 of the DCG)
- Existing UU sewer
- Sewer Easement
- Gully (150mm connection)

NOTES:
1. No dimensions are to be measured from this drawing.
2. All levels shown are in metres unless otherwise shown.
3. This drawing is to be read in conjunction with all relevant Architects, Planning and Infrastructure Design drawings.
4. The position and levels of all existing drains are to be confirmed on site by the Contractor before commencing the works and any discrepancies reported immediately to the engineer.
5. All private drainage is to constructed in accordance with th latest edition of the Building Regulations Part H (Drainage & Waste Disposal) and to BSEN752 (Building Drainage).
6. All adoptable drainage is to be in accordance with the requirements of Sewers for Adoption 6th Edition and the Sewerage Undertaker/Council.
7. All connections to existing public sewers are to be made to the satisfaction of the Sewerage Undertaker and the Local Authority.
8. Existing drains being abandoned are to be dealt with in the following manner:
   i) Within 1.0m of proposed ground levels, drains are to be excavated out.
   ii) Deeper than 1.0m of proposed ground levels drains are to be grouted with a 1:10 cement:sand mix.
9. Any existing gully connections being abandoned are to be sealed with a concrete plug not less than 300mm thick at a level of 1.0m below ground.
10. Concrete protection of pipework is to be provided as follows: -
    i) All pipework within pedestrian / kerb areas with a cover less than 600mm.
    ii) All pipework beneath areas subject to vehicular overrun with a cover less than 1.2m.
11. All pipework within manholes are to be laid soffit to soffit.
12. Any gradients of drains are indicative only and The Contractor shall install drains to the invert levels shown for each manhole.
13. Any co-ordinate information regarding manholes is to the centre of the manhole.
14. Cover levels of the manholes are provisional and subject to adjustment to suit the finished ground levels.
15. The use of short radius bends for changes in direction is not permitted, only long radius bends or 2 No. are to be used.
16. Connections to corner drains are to be "Y" junctions.
17. Manhole covers and frames are to be in accordance with BS EN 124 and the following criteria:-
    Vehicular areas: Class D400 double triangular 150mm minimum frame depth non-cover & frame with three-point cover seating.
    Pedestrian areas only: Class B125 double triangular 150mm minimum frame depth non-cover & frame with three-point cover seating.
18. Heavy duty cover slabs are to be used with Class D400 frames.
19. Gully gratings and channel covers are to be in accordance with BS EN 124 as follows:
    i) Areas subject to vehicular overrun: Class D400 minimum.
    ii) Areas not subject to vehicular overrun: Class C250.
20. Gully gratings are to be double triangular ductile iron with a non-rock design and a 135mm deep frame.
21. Outside of sewers to be 1.0m (min) from kerb line.
22. Outside of manholes to be 0.5m (min) from kerb line.
23. All non-adoptable foul and surface water pipes to be 100 diameter unless noted otherwise.
24. Proposed 225mm diameter inspection chambers to be laid at a maximum depth of 600mm below GL.
25. Proposed 450mm diameter inspection chambers to be laid at a maximum depth of 3000mm below GL.
26. Installation of all pipework, manholes, gullies & channels etc are to be laid to manufacturers specification.

DESIGN NOTE
INDICATIVE SITE BOUNDARY

DESIGN NOTE
S1 HYDROBRAKE MANHOLE NO 3
DISCHARGE RATE: 10.00l/s
HEAD:1.898, MIN ORIFICE SIZE 150Ø
REF: CTL-SHE-0130-1000-1898-1000

DESIGN NOTE
S1 TO BE FITTED WITH A NON RETURN VALVE

DESIGN NOTE
REFER TO UTILITY SURVEY FOR EXACT POSITION OF THE EXISTING APPARATUS WITHIN IN THIS AREA

DESIGN NOTE
COVER LEVEL, INVERT LEVEL, CONDITION AND POSITION OF ALL EXISTING SEWERS IS TO BE ASCERTAINED BEFORE COMMENCEMENT ONSITE

DESIGN NOTE
APPROVAL TO BE IN PLACE WITH UNITED UTILITIES BEFORE CONNECTION IS MADE TO THE PUBLIC SEWER SYSTEM

DESIGN NOTE
S11 HYDROBRAKE MANHOLE NO 2
DISCHARGE RATE: 5.40l/s
HEAD:2.400, MIN ORIFICE SIZE 150Ø
REF: CTL-SHE-0191-5400-2400-5400

DESIGN NOTE
S3 HYDROBRAKE MANHOLE NO 1
DISCHARGE RATE: 8.70l/s
HEAD:2.577, MIN ORIFICE SIZE 150Ø
REF: CTL-SHE-0165-8700-2577-8700

DESIGN NOTE
SEWER EASEMENT POSITION AND WIDTHS TO BE AGREED WITH UNITED UTILITIES BEFORE COMMENCEMENT ON SITE.

ALL COVER & INVERT LEVEL INFORMATION HAS BEEN TAKEN FROM AVAILABLE TOPOGRAPHICAL SURVEY DATA OR UNITED UTILITY RECORDS. EXISTING PUBLIC FOUL AND SURFACE WATER SEWERS ARE TO BE ABOVE GROUND PROBED, ROUTED AND INTERNALLY SURVEYED WITH ALL INFORMATION PASSED TO SITE INFRASTRUCTURE SERVICES LTD FOR REVIEW PRIOR TO COMMENCEMENT ON SITE

UNDER NO CIRCUMSTANCES SHALL ANY PROPOSED LEVELS BE AMENDED WITHOUT THE PRIOR CONSULTATION WITH SITE INFRASTRUCTURE SERVICES LTD

SITE LAYOUT
SCALE: 1:200
GRID REF: E=299094, N=517065
NATIONAL GRID REF: NX990171
POST CODE: CA28 6XD

Rev	Amendment	Date	Drawn
G	AMENDED TO NEW LAYOUT	13.05.2022	CML
F	AMENDED TO LU COMMENTS DATED 27.02.22	18.02.2022	CML
E	AMENDED TO LU COMMENTS	11.02.2022	CML
D	DETENTION BASIN REPLACED WITH GEO CELLULAR STORAGE AREA #3 PER CLIENTS INSTRUCTIONS	11.01.2022	CML
C	INITIAL ISSUE	06.01.2022	CML

PROVISIONAL Subject to UU Approval

Client: gleeson — Building Homes, Changing Lives.

Project Title: Ivy Mills, CUMBRIA

Drawing Title: PHASE 1 S104 AGREEMENT PLAN

Scales: 1:200 @ A0

Drawn: CML | Date: 06.01.22

Ref: GHC-IM-C-10-01 | Rev: D

Site Infrastructure Services Ltd
[redacted]