CDM Regulations 2015

All design work has been carried out with full consideration given to health and safety. Where possible risks have been removed from the design. It is not always possible to remove all risks in the design and those remaining risks have been identified below. The contractor is responsible for ensuring these risks have been allowed for in methods of working and that only competent workers are employed to undertake these works.

DR1: Encountering existing services
DR2: Undermining of existing structures
DR3: Traffic management during construction

⚠ Indicates a residual risk

Structured Raingarden
Length 15.00m
Width 1.00m
Depth 0.8m
Soil void ratio 22%

Coordination to be undertaken for final location of outfall pipework with location of existing services

Structured Raingarden
Length 38.50m
Width 1.00m
Depth 0.8m
Soil void ratio 22%

Structured Raingarden
Length 27.00m
Width 1.00m
Depth 0.8m
Soil void ratio 22%

Existing foul outfall route from main Ipsen NDP site

Hit and miss kerbing to allow surface water from access road to drain into the raingarden

Existing chamber

Location of chamber and connection point to be confirmed once coordinated with existing infrastructure

Flow Control - HydroBrake
CTL-SHE-0048-1100-1080-1100
Discharge rate 1.2 l/s

Hit and miss kerbing to allow water from access road to fall into raingarden

Structured Raingarden
Length 43.00m
Width 1.00m
Depth 0.8m
Soil void ratio 22%

Geocellular Attenuation Tank1
Length 48.00m
Width 7.5m
Depth 0.4m
Provisional storage 136.8m³
Gradient 1:200
Void ratio 95%

Geocellular Attenuation Tank 2
Length 30.00m
Width 5.0m
Depth 0.4m
Provisional storage 57.0m³
Gradient 1:200
Void ratio 95%

Structured Raingarden
Length 3.00m
Width 1.00m
Depth 0.8m
Soil void ratio 22%

Notes

1. This drawing is to be read in conjunction with all relevant surveys and architectural drawings.
2. Third party information has been used to complete this design. Land Studio are not liable for this information.
3. Dimensions given are in millimetres unless otherwise specified.
4. Levels are in metres AOD.
5. Surface water features designed to manage a 1 in 100 year (1% AEP) plus 40% climate change plus 10% urban creep event without flooding off site with a discharge of 1.2l/s and a minimum of 229m³ of attenuation provided within the site.
6. Existing drainage and services location and levels must be checked prior to any works commencing and any discrepancies in dimensions or details should be drawn to the attention of the engineer.
7. All surface water pipework are to be structured wall HDPE to BS EN 13476, kitemarked, agrement certifed or CE marked.
8. All inspection chambers to be polypropylene in accordance with BS EN 13598, agrement certified. Minimum internal diameter 450mm fitted with D400 bolted chamber covers and frames.
9. All pipework to be Class Z concrete encased where cover is less than 1.2m in vehicular areas, 0.9m in pedestrian areas and 0.6m elsewhere.
10. Refer to landscape architect plan for details of planting within SuDS features.
11. All trenches within 5m of tree roots to include tree root protection membrane. Trenches within tree root protection zones (RPA) should retain existing soil levels and any roots >25mmØ should be discussed with an arborculturlist prior to affecting tree root system.

Key

- Site Planning Boundary
- Proposed surface water chamber and pipework
- Proposed geocellular attenuation tank
- Existing Surface Water System
- RWP — Proposed rainwater downpipe
- Structured Raingardens
- Existing Private Rising Main
- Existing Public Sewer Connection

Revision	Date	Description	Drawn	Apprvd.
P04	19.06.26	Hatching removed	AW	LS
P03	18.06.26	Green line Updated	AW	LS
P02	02.04.26	Issued for Planning	AW	LS
P01	01.04.26	Issued for Planning	PE	LS

N

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Client Ipsen

Project Ipsen East, MSCP

Drg Title Drainage General Arrangement

Created on	Created by	Approved by
23.02.26	AW	LS

Scale	Size	Workstage
1:250	A1	Stage 3

Drg No. 498-LST-XX-XX-DR-D-0100

Suitability S3

Revision P04

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