



THIS DRAWING IS COPYRIGHT © CAMBRIA CONSULTING LTD.  
DO NOT SCALE FROM THIS DRAWING.

CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE WORKED FROM. DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO CAMBRIA CONSULTING LIMITED BEFORE PROCEEDING.

THE CONTRACTOR IS TO REFER TO THE SPECIFICATION, FULL SCHEDULE OF RESIDUAL RISKS IN THE CONTRACT DOCUMENTATION AND ALSO TO INFORMATION FROM OTHER DESIGNERS, IN PARTICULAR THE M&E CONSULTANT REGARDING EXISTING LIVE SERVICES.

THIS SYMBOL IS USED TO HIGHLIGHT INSTANCES OF RISK WITHIN THE CONSTRUCTION PROCESS. ALWAYS CHECK FOR LATER REVISIONS OF THIS DRAWING.

- KEY:
- PROPOSED SW DRAINAGE
  - PROPOSED FW DRAINAGE
  - PROPOSED TREATED EFFLUENT FW DRAINAGE
  - PROPOSED OVERFLOW COWL
  - PROPOSED HIT & MISS KERBING
  - PROPOSED KERB DRAIN
  - PROPOSED LAND DRAIN
  - PROPOSED RAINWATER HARVESTING TANK
  - PROPOSED RAINWATER HARVESTING FEED
  - PROPOSED RAINGARDEN INLET
  - PROPOSED ORIFICE FLOW CONTROL CHAMBER WITH WIER WALL AND MESH GUARD (PLASTIC)
  - PROPOSED HYDROBRAKE FLOW CONTROL CHAMBER WITH LEVEL OVERFLOW
  - PROPOSED SURFACE WATER CULVERT HEADWALL
  - PROPOSED SURFACE WATER ROAD GULLY
  - INDICATIVE RAINWATER PIPE
  - PROPOSED CELLULAR STORAGE
  - PROPOSED SEWAGE TREATMENT PLANT
  - PROPOSED RAINGARDEN
  - PROPOSED PERMEABLE PAVING (ROAD)
  - PROPOSED PERMEABLE PAVING (FOOTPATH)
  - PROPOSED DISTRIBUTION TRENCH
  - PROPOSED FILTER STRIP
  - EXISTING WATERCOURSE
  - PROPOSED CULVERT
  - SITE BOUNDARY

P03	SITE LAYOUT REVISED	DC	BW	BW
				12/02/24
P02	RAIN GARDENS REMOVED	DC	BW	BW
				28/11/23
Rev.	Description	By	Chk	App

Client:  
**DRAYCOTT GROUP**

Project:  
**JUNCTION 37 M4**

Drawing Title:  
**PROPOSED DRAINAGE STRATEGY PLAN (SHEET 1)**

Drawing No.  
**CC2507 CAM XX XX DR C 0501**

Status:  
**S1 PRELIMINARY**

Scale @A1:  
**1:250**

**CAMBRIA**  
Constructive Thinking

Civil & Structural Engineers  
Cambria House  
16 Plas St. Pol de Leon  
Penarth Marina  
Cardiff, CF64 1TR

T 029 2099 3333  
E admin@cambria.co.uk  
W www.cambria.co.uk  
@cambria\_uk  
uk.linkedin.com/in/cambria\_uk

RAINGARDEN FEATURE  
300mm DEPRESSION  
\*400mm ENGINEERED TOPSOIL  
300mm OPEN GRADED DRAINAGE LAYER WITH UNDERDRAIN.  
AREA 78m<sup>2</sup>  
APPROX VOL. 39m<sup>3</sup>  
\* TOPSOIL WILL NEED TO BE INCREASED IF ACCOMMODATING TREES WITHIN RAINGARDENS

OFFLINE SDS GEOLITE 400  
CELLULAR ATTENUATION TANK  
DEPTH = 1.0m  
VOLUME = 260m<sup>3</sup>

RAINGARDEN FEATURE  
300mm DEPRESSION  
\*400mm ENGINEERED TOPSOIL  
300mm OPEN GRADED DRAINAGE LAYER WITH UNDERDRAIN.  
AREA 357m<sup>2</sup>  
APPROX VOL. 179m<sup>3</sup>  
\* TOPSOIL WILL NEED TO BE INCREASED IF ACCOMMODATING TREES WITHIN RAINGARDENS

RAINGARDEN FEATURE  
300mm DEPRESSION  
\*400mm ENGINEERED TOPSOIL  
300mm OPEN GRADED DRAINAGE LAYER WITH UNDERDRAIN.  
AREA 84m<sup>2</sup>  
APPROX VOL. 42m<sup>3</sup>  
\* TOPSOIL WILL NEED TO BE INCREASED IF ACCOMMODATING TREES WITHIN RAINGARDENS

DISTRIBUTION TRENCH TO SPREAD  
ACROSS THE NORTHERN BOUNDARY  
OF THE SITE TO MIMIC THE EXISTING  
SITE CONDITIONS

HYDROBRAKE FLOW CONTROL

RAINWATER HARVESTING  
TANK  
STORAGE VOLUME = 25m<sup>3</sup>  
1m DEEP, ROOF  
CATCHMENT AREA = 530m<sup>2</sup>

LAND DRAIN TO COLLECT RUNOFF FROM THE  
ACCESS ROAD EMBANKMENT

EXISTING CHANNEL TO REMAIN  
DAYLIGHTED IF POSSIBLE

NRW MONITORING CHAMBER PRIOR TO  
DRAINAGE INTO THE WATERCOURSE. SUBJECT  
TO NRW DISCHARGE LICENSE

