



PROPOSED RAINGARDEN
200mm DEPRESSION WITH 1:3 BATTERS.
TOPSOIL LAYER = 700mm
TYPE 3 STONE DEPTH = 400mm
AREA = 10m²

PROPOSED RAINGARDEN
200mm DEPRESSION WITH 1:3 BATTERS.
TOPSOIL LAYER = 700mm
TYPE 3 STONE DEPTH = 400mm
AREA = 10m²

PROPOSED RAINGARDEN
200mm DEPRESSION WITH 1:3 BATTERS.
TOPSOIL LAYER = 700mm
TRANSITION LAYER = 200mm
TYPE 3 STONE DEPTH = 400mm
AREA = 127m²
VOLUME = 24m³

HYDROBRAKE FLOW CONTROL
CHAMBER WITH RESTRICTED
DISCHARGE OF 15.1 l/s. NON RETURN
VALVE TO BE FITTED PRIOR TO
CONNECTION WITH PUBLIC COMBINED
SEWER.

DRAINAGE TO BE ABANDONED AND
GRUBBED UP. NEW CHAMBERS
INSTALLED WITHIN PLOT 17.

PERMEABLE BLOCK PAVING
PARKING BAY
CL 7.661
IL 6.931
500mm TYPE 3 SUB-BASE

PERMEABLE BLOCK PAVING
PARKING BAY
CL 7.800
IL 7.070
500mm TYPE 3 SUB-BASE

PERMEABLE BLOCK PAVING
PARKING BAY
CL 7.827
IL 7.097
500mm TYPE 3 SUB-BASE

25mm ORIFICE PLATE

25mm ORIFICE PLATE

HYDROBRAKE FLOW CONTROL
CHAMBER WITH RESTRICTED
DISCHARGE OF 24.4 l/s. NON RETURN
VALVE TO BE FITTED PRIOR TO
CONNECTION WITH PUBLIC COMBINED
SEWER.

EXISTING ROAD GULLY AND
SPURS SERVING CONSTABLES
CLOSE TO BE REMOVED.

FILTER TRENCH TO TAKE
DIRECT RUNOFF FROM NEW
HIGHWAY.
WIDTH = 750mm
MAX DEPTH = 1200mm
LENGTH = 14.67m

DRAINAGE TO BE
ABANDONED AND GRUBBED
UP. NEW CHAMBERS
INSTALLED WITHIN PLOT 31.

PROPOSED RAINGARDEN
200mm DEPRESSION WITH 1:3 BATTERS.
AREA = 15m²
VOLUME = 4m³
STONE DEPTH = 400mm

TANKED POROUS PAVING SYSTEM
(TOTAL IN SOUTHERN CATCHMENT)
CL 7.663
IL 6.933
500mm TYPE 3 SUB-BASE

TOPOGRAPHICAL SURVEY DOES NOT
INCLUDE POSITIONS OF EXISTING
CHAMBERS WITHIN THE PRIVATE REAR
GARDENS. POSITION OF COMBINED
SEWER IN THIS LOCATION SHOWN
INDICATIVELY ONLY.

SERVICE MARGIN MAINTAINED OUTSIDE
THE TANKED POROUS PAVING SYSTEM.
TRADITIONAL BLOCK PAVING WITH
MATCHING FINISHES.

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:	
	EXISTING COMBINED SEWER
	EXISTING FOUL SEWER
	EXISTING STORM SEWER
	EXISTING FOUL TO BE REMOVED
	EXISTING STORM TO BE REMOVED
	EXISTING GULLY AND SPUR TO BE REMOVED
	PROPOSED SURFACE WATER DRAINAGE
	TANKED PERMEABLE PAVING SYSTEM
	4.5m EASEMENT DCWW FROM CENTERLINE
	RAINWATER DOWNPIPE
	RAINWATER BUTT WITH OVERFLOW CONNECTION
	LINEAR DRAIN (ACO OR SIMILAR APPROVED)

P12	REVISED SITE PLAN	GJ LKM LKM	15/01/25
P11	REVISED SITE PLAN	GJ LKM BW	12/04/24
P10	GULLY POSITION AMENDED & 3 ADDITIONAL GULLY	GJ LKM BW	04/07/23
P09	RAINWATER BUTTS AND RAINWATER DOWNPIPES ADDED.	DC BW BW	12/12/22
P08	ISSUED FOR FULL SAB APPLICATION	DC BW BW	29/09/22
P07	MANHOLES, PERMEABLE PAVING AND CHANNEL DRAINS ADDED. TANKS REMOVED. ISSUED FOR TENDER.	AR BW BW	29/04/21
P06	ATTENUATION TANK/PAVING MOVED TO SUIT EASEMENT. NEW GULLIES ADDED. REVISED TO SUIT NEW LANDSCAPING.	AR BW BW	16/03/21
P05	EASEMENT AND ATTENUATION TANK AMENDED. RAIN GARDEN BOUNDARY DETAILED.	AR BW BW	11/02/2021
P04	LANDSCAPING LAYOUT AMENDED. RAIN GARDENS REVISED TO SUIT. ATTENUATION TANK REVISED TO SUIT.	AR BW BW	16/12/2020
P03	LANDSCAPING LAYOUT AMENDED. RAIN GARDENS REVISED TO SUIT.	BW BW BW	16/03/20
P02	SITE LAYOUT REVISED.	BW BW BW	30/01/20
P01	FIRST ISSUE	BW BW WJ	16/01/20
Rev.	Description	By	Chk App

Client:
LBC CONSTRUCTION

Project:
CONSTABLES CLOSE, NEWPORT

Drawing Title:
DRAINAGE STRATEGY

Drawing No.
CC2004 CAM ZZ 00 GA C 52 1101

Project No.	Org.	Vol.	Level	Type	Dis.	Class	No.

Suitability Status:	Scale @A1:	Rev.
CONSTRUCTION	1:250	P12

CAMBRIA
Constructive Thinking

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

T 029 2009 3333
E admin@cambria.co.uk
W www.cambria.co.uk
@cambriauk
uk.linkedin.com/in/cambriauk