

NOTES:

- ALL DIMENSIONS ARE IN METRES (m) AND ELEVATIONS ARE IN METRES ABOVE ORDNANCE DATUM (m AOD), UNLESS OTHERWISE STATED. DO NOT SCALE FROM THIS DRAWING.
- THE DETAILS SHOWN ON THIS DRAWING HAVE BEEN PRODUCED FOR RIBA STAGE 4 AND ARE NOT SUITABLE FOR CONSTRUCTION.
- THE TOPOGRAPHICAL, DRAINAGE, AND UTILITIES GPR SURVEY INFORMATION SHOWN IS BASED ON INFORMATION PROVIDED OTHERS. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE SURVEY INFORMATION.
- THE PROPOSED SITE MASTERPLAN SHOWN IS BASED ON INFORMATION PROVIDED BY HLM ARCHITECTS, RECEIVED 11/08/26. SITE LAYOUTS ARE SUBJECT TO ONGOING COORDINATION AND FURTHER DESIGN DEVELOPMENT. DRAINAGE & SUDS DESIGN SHOWN IS SUBJECT TO CHANGE BASED ON THE PROPOSED SITE MASTERPLAN. RAINWATER DOWNPIPE LOCATIONS ARE BASED ON INFORMATION RECEIVED FROM HLM ARCHITECTS ON 17/06/2026. AS REQUESTED BY BCBC, ALL RAINWATER DOWNPIPES (RWP) ARE TO BE EXTERNAL TO MITIGATE THE RISK OF INTERNAL LEAKAGE.
- DRAINAGE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SEWERS FOR ADOPTION 7, BUILDING REGS APPROVED DOCUMENT H, AND WG STATUTORY STANDARDS FOR SUSTAINABLE DRAINAGE.
- DUE TO RISK OF SUBSIDENCE FROM LIMESTONE SOLUTION FEATURES, ALL SUDS FEATURES ARE TO BE INSTALLED WITH IMPERMEABLE LINERS. LEVEL AND CONDITION OF OUTFALL IS TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL LINEAR DRAINAGE CHANNEL PRODUCTS TO BE ACO (OR ENGINEER APPROVED EQUIVALENT), ALL GRATINGS TO LINEAR DRAINAGE CHANNELS TO BE 'HEELSAFE'.

NOTES (CONTINUED):

- ALL PROPRIETARY PRODUCTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER / SUPPLIER SPECIFICATIONS AND INSTALLATION GUIDANCE.
- ARTIFICIAL PITCH AND MUGA DRAINAGE DESIGN TO COORDINATED WITH THE SPORTS PITCH SPECIALIST SUB-CONTRACTOR.
- SOME SURFACE WATER DRAINAGE FEATURES HAVE NOT BEEN SHOWN AT THIS STAGE FOR CLARITY ON THE 1:500 SCALE DRAWING (E.G. SOME FILTER DRAINS, CHANNEL DRAINS SERVING PATHS, CANOPY RWPs, BACK OF RETAINING WALL DRAINAGE ETC.). ALLOWANCES TO BE MADE FOR COSTING.
- DRAINAGE OF RETAINING WALLS, CUTTINGS, SLOPES, AND LAND DRAINAGE REQUIREMENTS TO BE CONFIRMED IN COORDINATION WITH GEOTECHNICAL ENGINEER.
- SURFACE WATER DRAINAGE PROPOSALS ARE SUBJECT TO A FULL SAB APPROVALS PROCESS WITH THE LOCAL SAB AUTHORITY. NO DRAINAGE WORKS ARE TO COMMENCE UNTIL A FULL SAB APPROVAL HAS BEEN GRANTED.
- WHERE PROPOSED DRAINAGE SERVES MORE THAN TWO PROPERTIES, OR ENTERS PUBLIC OWNED AREAS, A S104 ADOPTION AGREEMENT WILL BE REQUIRED. S104 ADOPTION SUBJECT TO APPROVAL WITH DCWW.
- WHERE PROPOSED DRAINAGE CONNECTS INTO THE EXISTING PUBLIC SEWER NETWORK, A S106 CONNECTION AGREEMENT WILL BE REQUIRED. S106 CONNECTION POINTS ARE SUBJECT TO AGREEMENT BY DCWW.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER SCHEME CIVIL ENGINEERING DRAWINGS AND DOCUMENTS.

FLOW CONTROL CHAMBER
PROPOSED VORTEX FLOW CONTROL DEVICE TO RESTRICT DISCHARGE RATE TO 7.7 L/S (GRR Q-BAR). **HYDROBRAKE OPTIMUM OR ENGINEER APPROVED EQUIVALENT.**
IL: 22.600 OL: 24.550
DESIGN HEAD: 1.95m
DESIGN FLOW: 7.7 L/S

SURFACE WATER OUTFALL MANHOLE
PROPOSED NEW MH INSTALLED ON-LINE OF EXISTING DCWW SURFACE WATER SEWER. DETAILED DESIGN OF CONNECTION AND S106 TO BE AGREED WITH DCWW.

DRAINAGE LEVELS PROVIDED BY DCWW RECORDS, EXACT INVERT LEVELS AND CONDITION TBC BY FURTHER SURVEY

PROPOSED EARTH BUND INSTALLED AT BASIN PERIMETER (MIN. CL = 24.60). TO BE INSTALLED WITH V-NOTCH WEIR ON WESTERN EDGE TO MITIGATE FLOOD RISK TO EXISTING PROPERTIES.

WESTERN EXTENT OF SUDS BASIN TO BE RETAINED WITH VEGETATED BAGWORK SYSTEM TO PROTECT AGAINST EXCAVATION OF EXISTING HEDGEROW / BAT CORRIDOR

BASIN 2
MIN. TOB = 24.600m AOD
MAX. BOB = 22.900m AOD

RAINGARDEN
MIN. TOB = 24.600m AOD
MAX. BOB = 24.300m AOD
MAX 1:3 SIDE SLOPES

PROPOSED LAND DRAINAGE RUN TO BE INSTALLED PARALLEL TO NORTHERN FENCE LINE, TO MITIGATE SW FLOOD RISK ALONG THIS BOUNDARY.

WATER BUTTS PROPOSED AT THE BASE OF RWPs TO PROVIDE A MEANS OF RAINWATER RE-USE FOR RESIDENTIAL GARDEN WATERING ETC.

GEOCELLULAR ATTENUATION SYSTEM
SDS GEOLIGHT (OR ENGINEER APPROVED EQUIVALENT) TO PROVIDE ATTENUATION FOR 1:100-YEAR + 40% CC DESIGN STORM.
MIN. POROSITY = 95% IL = 22.800
MIN. CL = 25.653 L = 48m W = 37m D = 1.5m
NET. VOL. = 2425m³ VOL. = 2553m³

PERMEABLE PAVING WITHIN CAR PARK TO PROVIDE SURFACE WATER TREATMENT AND INTERCEPTION OF RUNOFF.

DRAINAGE IN THIS AREA TO BE COORDINATED WITH ARCHITECT, LANDSCAPE ARCHITECT, MEP ENGINEER AND POOL SPECIALIST.

ALLOWANCES TO BE MADE FOR POTENTIAL PROPRIETARY TREATMENT DEVICES (IN LIEU OF GREEN SUDS) FOR ROOF RUNOFF. DUE TO PRESENCE OF EXTERNAL POOL BACKWASH TANK / SYSTEM, EXTERNAL POOL BACKWASH TANK DESIGN TBC WITH POOL SPECIALIST.

RWH TANK TO PROVIDE RAINWATER RE-USE AND INTERCEPTION. TANK VOLUME = 74m³. REFER TO RWH SPECIALIST AND MEP ENGINEER DESIGN FOR DETAILED RWH SPECIFICATION.

EXTERNAL MINIBUS DROP-OFF AREA TO BE DRAINED VIA GREEN SUDS FEATURES TO PROVIDE TREATMENT AND AND INTERCEPTION OF ROAD RUNOFF.

BASIN 1
MIN. TOB = 29.100m AOD
MAX. BOB = 28.500m AOD
MAX 1:3 SIDE SLOPES

DRAINAGE TO PERMEABLE MUGA AND ARTIFICIAL PITCH SHOWN INDICATIVELY AT THIS STAGE - TO BE DESIGNED IN COORDINATION WITH SPECIALIST SPORTS PITCH SUPPLIER / CONTRACTOR.

PROPOSED DRY SWALE, FENCING, MAINTENANCE PATHS, PLAY EQUIPMENT ETC. TO BE COORDINATED WITH LANDSCAPE ARCHITECT.

PROPOSED DRY SWALE TO PROVIDE INTERCEPTION FOR WESTERN ROOF AREAS NOT SERVED BY RWH SYSTEM OR BASIN.

RAINGARDEN FEATURES TO TREAT AND INTERCEPT RUNOFF FROM SOUTHERN COURTYARD AND CONVEY SURFACE WATER AROUND THE SOUTH OF THE BUILDING

EXTERNAL PLANT SLABS TO BE SERVED BY DIRECT CONNECTIONS TO FOUL - E.G. EXTERNAL FOUL GULLIES / MEP PLANT DRAINS / CONDENSATE PIPES. REFER TO PROPOSED FOUL DRAINAGE GA.

SOUTHERN ACCESS ROAD TO BE SERVED BY DRY SWALE. SOUTHERN ACCESS TO BE SURFACED WITH ASPHALT DUE TO POTENTIAL UTILITIES / SERVICE CORRIDORS. REFER TO MEP ENGINEER DESIGN FOR EXTERNAL UTILITY ROUTING.

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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 DCWW SW SEWER, FOUL SEWER AND EASEMENT
-  EXISTING SURFACE WATER DRAINAGE (FROM GPR SURVEY RECORDS)
-  PROPOSED SURFACE WATER CARRIER DRAIN (150mm UNLESS NOTED OTHERWISE)
-  PROPOSED SURFACE WATER PERFORATED PIPE (150mm UNLESS NOTED OTHERWISE)
-  PROPOSED SURFACE WATER CHAMBER / MANHOLE
-  PROPOSED RODDING EYE / OVERFLOW GULLY
-  PROPOSED RAINWATER PIPE
-  PROPOSED GEO-CELLULAR ATTENUATION SYSTEM (SDS)
-  PROPOSED DIFFUSER BOX
-  PROPOSED FLOW CONTROL (HYDROBRAKE)
-  PROPOSED CASTELLATED KERB (MARSHALLS EDEN KERB)
-  PROPOSED LINEAR CHANNEL DRAINAGE (ACO)
-  PROPOSED COMBINED KERB DRAINAGE (ACO KERBDRAIN)
-  PROPOSED SuDS FEATURE
-  PROPOSED PERMEABLE PAVING (BLOCK PAVED AREAS)
-  PROPOSED PERMEABLE SURFACE (ALL WEATHER PITCH, MUGA, EXTERNAL PLAY AREAS)

P05	ISSUED FOR PRE-APPLICATION CONSULTATION (PAC)	JW	RW	BW
				17/08/26
C02	ISSUED FOR RIBA STAGE 4	JW	RW	BW
				23/06/26
P04	ISSUED FOR PRE-APPLICATION CONSULTATION (PAC)	JW	RW	BW
				29/05/26
C01	ISSUED FOR RIBA STAGE 3 NOT SUITABLE FOR CONSTRUCTION	JW	RW	BW
				27/03/26
P03	ISSUED FOR RIBA STAGE 3	JW	RW	BW
				20/03/26
P02	PLANNING PRE-APP ISSUE. RWH TANK LOCATION UPDATED, SUDS AND SW NETWORK UPDATED TO SITE LAYOUT.	JW	RW	BW
				18/02/26

Rev. Description By Chk App



Project: HERONSBRIDGE SCHOOL

Cambria Project No. CC2856

Drawing Title: PROPOSED SURFACE WATER DRAINAGE OVERVIEW GA

Drawing No. HER - CAM - ZZ - XX - D - C - 000501

Project	Originator	Function	Spatial	Form	Disc.	Number
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Scale @A1:	Status Code:	Revision Status:	Rev.
1:500	S3	REVIEW & COMMENT	P05

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