DGA01
DGA02
DGA03 PODIUM BC TOWERS B&C

DGA04
DGA05 PODIUM A TOWER A

FOR COORDINATES TO FW & SW POP UPS REFER TO HBA DRAWINGS

FOR DETAILS OF SEWER EASEMENTS SE1 TO SE5 REFER TO DRAWING VRS-ROC-ZZ-DR-C-SE1

SE5

SADDLE CONNECTION TO EXISTING 1470mm BRICK COMBINED SEWER AS AGREED WITH UU. INVERT LEVEL IS APPROXIMATE AND TO BE CONFIRMED ON-SITE.

RIVER IRK

DANTZIC STREET

BROMLEY STREET

MH10
CL 29.78
IL 25.31

1470Ø CWS

IL 25.50m

F1.009 225Ø

NEW OUTFALL TO THE RIVER IRK.

POSITION OF EXISTING CSO AS SURVEYED BY JRL

S1.009 300Ø 1:200

IL 27.227

(S1.28) FLOW CONTROL MANHOLE WITH INTEGRAL HYDROBRAKE OPTIMUM OR SIMILAR APPROVED. DISCHARGE RESTRICTED TO 38.9 l/s, 2.0m HEAD. REF: SHE-0244-3650-2000-3650. INCLUDES ADDITIONAL 2.4l/s DISCHARGE ALLOWANCE FROM BROMLEY STREET

MH12
CL 29.64
IL 25.17

1700Ø CWS

1500Ø CWS

MANHOLE TO BE FITTED WITH NON-RETURN FLAP VALVE ON INLET PIPE E.G. MISSION MULTI N (MULTI300N) OR EQUIVALENT APPROVED

1.2mØ FP MCANN STORMCEPTOR HYDRODYNAMIC SEPARATOR OR EQUIVALENT APPROVED FOR REMOVAL OF ANY RESIDUAL SILTS AND HYDROCARBONS FROM THE SURFACE WATER RUN-OFF PRIOR TO DISCHARGE TO THE RIVER IRK

(S1.25) FLOW CONTROL MANHOLE WITH INTEGRAL HYDROBRAKE OPTIMUM OR SIMILAR APPROVED. DISCHARGE RESTRICTED TO 24.0 l/s, 1.5m HEAD. REF: SHE-0209-2400-1500-2400

S1.11
CL 30.20
IL 29.10

S1.28
CL 29.70
IL 27.33

S1.27
CL 30.60
IL 27.40

S1.25
CL 31.13
IL 27.838

S1.26

S1.24
CL 30.22
IL 29.12

S1.18 ✱
CL 30.11
IL 28.92

F1.14
CL 30.112
IL 29.22

F1.15
CL 30.006
IL 28.58

F1.13
CL 30.03
IL 28.63

F1.12
CL 30.034
IL 29.12

F1.10
CL 30.083
IL 29.17

F1.8
CL 30.1
IL 29.00

F2.5
CL 30.27
IL 28.75

F2.4
CL 30.286

F2.001

F2.002

F1.007

MH F1.22 FITTED WIT NON-RETURN VALVE PIPE

S1.009 300Ø 1:200

S1.008 300Ø 1:200

S15.000 150Ø 1:98

S12.000 150Ø 1:16

S9.004 300Ø 1:150

S8.000 150Ø 1:100

F3.000 150Ø 1:8

150Ø 1:80

F1.009 225Ø 1:150

F1.008 225Ø 1:150

150Ø

580 x 750 CWS

BD 28.923

BD 29.90

225Ø

RWP

FG

SU

RG

SE4

SE3

DISABLED

SITE BOUNDARY
EXISTING COMBINED SEWER
SEWER TO BE ABANDONED
DIVERTED COMBINED SEWER
EXTENT OF PODIUM ABOVE
ABOVE GROUND POTABLE WATER STORAGE TANKS. REFER TO M&E INFORMATION
EXTENT OF TOWER CRANE BASE
RAIN GARDEN
PERMEABLE PAVEMENT
ATTENUATION TANK
SURFACE WATER DRAIN
SURFACE WATER MANHOLE/ INSPECTION CHAMBER
RWP RAINWATER PIPE & 150Ø CONNECTION
RG ROAD GULLY & 150Ø CONNECTION
YG YARD GULLY & 110Ø CONNECTION
SU AU ACO 150D 10.0 BRICKSLOT TWINSLOT WITH SUMP UNIT (SU) & ACCESS UNIT (AU)
SU ACO HEXDRAIN BRICKSLOT WITH SUMP UNIT & CORNER UNIT
100Ø PERFORATED PIPE
PERMAVOID DIFFUSER UNIT & 150Ø CONNECTION
FOUL WATER DRAIN
FOUL WATER MANHOLE/ INSPECTION CHAMBER
FOUL WATER CONNECTION 150Ø
FG FLOOR GULLEY
✱ DENOTES CHAMBER TO BE FITTED WITH EJCO (PETER SAVAGE) PRESSURE RATED PS754 COVER & FRAME CAST INTO SLAB. REFER TO TYPICAL DETAIL

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NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
3. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
4. BEFORE STARTING ANY WORKS, CONTRACTOR TO CHECK INVERT LEVELS AND POSITIONS OF EXISTING DRAINS, SEWERS, INSPECTIONS CHAMBERS AND MANHOLES AGAINST INFORMATION SHOWN ON THIS DRAWING.
5. ROCKER PIPES ARE TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.
6. CLASS Z CONCRETE SURROUND TO BE PROVIDED FOR PIPES WITH COVER LESS THAN 1.2m ABOVE THE CROWN OF THE PIPE FOR ROADS AND 0.6m FOR SOFT AND PEDESTRIAN AREAS ONLY AND UNDER ALL FOUNDATIONS AND WHERE PIPES LAID WITHIN 1m OF FOUNDATIONS.
7. CONNECTIONS TO EXISTING PUBLIC SEWERS IN ACCORDANCE WITH UNITED UTILITIES REQUIREMENTS, TO BE APPROVED / AGREED WITH THE WATER AUTHORITY.
8. PROPOSED COVER LEVELS ARE APPROXIMATE AND SHALL BE CHECKED BY THE CONTRACTOR ON SITE TO SUIT THE EXACT FINISHED LEVEL AND GRADIENT.
9. ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND 'SEWERS FOR ADOPTION' 7th EDITION.
10. ACCESS COVERS AND FRAMES SHALL COMPLY WITH THE LOADINGS SPECIFIED AND TO BS EN 124 AND KITEMARKED OR IF RECESSED COVERS ARE SPECIFIED THEN IN ACCORDANCE WITH FACTA ASSOCIATION EQUIVALENT. ALLOW FOR RECESS MANHOLE COVERS TO ACCEPT LANDSCAPE ARCHITECT FINISHES TO ALL NON-ASPHALT EXTERNAL AREAS.
11. THE PROPOSED BUILDING LAYOUTS SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. REFER TO ARCHITECTS PLANS FOR PRECISE LOCATION SETTING OUT INFORMATION AND DETAILS
12. FOR SETTING OUT DIMENSIONS OF SS'S, SVP'S, RWP'S, FLOOR GULLY'S & OTHER DRAINAGE 'POP UP' LOCATIONS, REFER TO ARCHITECTS OR MECHANICAL & ELECTRICAL ENGINEERS DRAWINGS.
13. ALL DRAINAGE PIPEWORK SHOWN SHALL BE 100mm DIAMETER FOR FOUL AND 150mm FOR SURFACE WATER UNLESS NOTED OTHERWISE. ALL DRAINAGE PIPEWORK SHALL BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED.
14. ALL UNDERSLAB DRAINAGE SHALL BE LAID AT GRADIENTS OF 1:80 MIN. FOR FOUL PIPEWORK AND 1:100 MIN. FOR SURFACE WATER UNLESS NOTED OTHERWISE. ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE. USE OF SHORT LONG RADIUS BENDS IS ACCEPTABLE PROVIDED THEY ARE KEPT TO A MINIMUM AND USED WHERE UNAVOIDABLE.
15. AT LEAST ONE SOIL PIPE AT THE HEAD OF EACH FOUL RUN SHALL BE VENTED TO THE ATMOSPHERE. ALL RAINWATER PIPES SHALL HAVE ABOVE GROUND RODDING ACCESS.
16. ALL PRIVATE DRAINAGE PIPEWORK FOR FOUL AND SURFACE WATER SYSTEMS HAVE BEEN DESIGNED ON THE BASIS OF UPVC TO BS EN 1401-1, UNLESS NOTED OTHERWISE.
17. CONCRETE ENCASEMENT OF THE PIPEWORK SHALL BE REQUIRED WHERE THE VERTICAL CLEARANCE BETWEEN TWO PIPES CROSSING IS LESS THAN 300MM.
18. WHERE NEW DRAINAGE IS SITUATED WITHIN 5 METRES OF NEW OR EXISTING TREES THE PIPEWORK SHALL BE ENCASED IN CONCRETE TO REDUCE THE RISK OF ROOT INGRESS.
19. ALL NEW DRAINAGE INSTALLATIONS TOGETHER WITH ANY EXISTING DRAINAGE RETAINED SHALL BE JETTED AND CCTV SURVEYED UPON COMPLETION. CONTRACTOR TO ENSURE THAT THE DRAINAGE SYSTEM IS FULLY OPERATIONAL, FREE OF EXCESS DEBRIS/SILT AND ALL IDENTIFIED FAULTS RECTIFIED.
20. SURFACE WATER DRAINAGE DESIGN HAS BEEN DEVELOPED ON THE BASIS OF THE PREVIOUSLY AGREED DISCHARGE RATES AND POINTS OF CONNECTION BETWEEN CIVIC ENGINEERS AND MCC LLFA.

REV	DATE	DETAILS	DRN.	CHK.
INFO 1	04.09.25	SEWER EASEMENTS ADDED	PAW	JAS
C10	08.11.24	UPDATED TO SUIT AS BUILT RECORDS	ARJ	PAW
C9	12.09.24	CHANGES AS CLOUDED	ARJ	PAW
C8	22.09.23	LEGEND UPDATED	PAW	ARJ
C7	14.06.22	UPDATED TO SUIT HBA AND BFL LAYOUTS FOR PODIUM A. S1.25 IL CORRECTED	PAW	ARJ
C6	19.04.22	UPDATED TO SUIT HBA AND BFL LAYOUTS FOR PODIUM A & MIDRISE A	PAW	ARJ
C5	08.04.22	TOWER A DRAINAGE UPDATED	PAW	ARJ
C4	21.03.22	TOWER B LVL01 DRAINAGE ADDED/UPDATED. LVL00 CL's REFINED TO SUIT SSL.	PAW	ARJ
C3	09.03.22	POP UP POSITIONS AND BGD UPDATED	PAW	ARJ
C2	11.02.22	NON-RETURN VALVE SPEC ADDED	ARJ	PAW
C1	08.02.22	ISSUED FOR CONSTRUCTION. REVISED SCALE FORMERLY ISSUED AS DGA01	WDC	PAW

DRAWING STATUS
CONSTRUCTION

RIBA STAGE
STAGE 5

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DRAWN	DATE	SCALES
ARJ	SEP 21	1:100
CHECKED	DATE	THE ABOVE SCALES APPLY WHEN PLOTTED AT A1 SIZE. --DO NOT SCALE--
PAW	SEP 21	
APPRVD.	DATE	EMAIL FOR DRAWINGS
JAS	SEP 21	info@rocconsulting.com

CLIENT
FEC

PROJECT TITLE
VICTORIA RIVERSIDE

DRAWING TITLE
BELOW GROUND DRAINAGE GENERAL ARRANGEMENT SHEET 2 of 5

DRAWING No.	REV.
VRS-ROC-ZZ-XX-DR-C-DGA02	INFO 1

4212

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