

PODIUM BC
TOWERS B&C

PODIUM A
TOWER A

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

SE5

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

MH F1.22 FITTED WITH
NON-RETURN VALVE
PIPE

The logo for the School of Urban and Environmental Engineering (SU SE4) at Southeast University. It features a large, stylized 'S' and 'E' in black, with a blue 'SU' and a blue '4' integrated into the design. The background is white with faint, light blue geometric patterns.

SE3

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- 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
 RAINWATER PIPE & 150Ø CONNECTION
 ROAD GULLY & 150Ø CONNECTION
 YARD GULLY & 110Ø CONNECTION
 ACO 150Ø 10.0 BRICKSLOT TWINSLT WITH SUMP UNIT (SU) & ACCESS UNIT (AU)
 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
 FLOOR GULLIFY

NOTES

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIAL DRAWINGS AND SPECIFICATIONS
3. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY. 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 CAST INTERFACES.
6. CLASS 2 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 FOOT AND PEDESTRIAN AREAS ONLY AND UNDER ALL FOUNDATIONS AND WHERE PIPES LAID WITHIN 0m OF FOUNDATIONS.
7. CONNECTIONS TO EXISTING PUBLIC SEWERS IN ACCORDANCE WITH UTILITY 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 SET 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 1424 AND KITEMARKED IF RECESSED COVERS ARE SPECIFIED THEN IN ACCORDANCE WITH BRITISH ASSOCIATION ETC. 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. REF TO ARCHITECTS PLANS FOR PRECISE LOCATION SETTING OUT INFORMATION AND DETAILS.
12. FOR SETTING OUT DIMENSIONS OF SSS, SVPS, RWPS, FLOOR GULLYS & OTHER DRAINAGE POP UP LOCATIONS, REF 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 SLOPED TO SUFFICIENT SLOPE 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 LENGTH RADIUS BENDS IS ACCEPTABLE PROVIDED THEY ARE KEPT TO A MINIMUM AND USED WHERE UNAVOIDABLE.
15. AT LEAST ONE SOIL PIPE AT EACH END 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 LIFTED AND CUT/ SURVEYED UPON COMPLETION BY 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 DISCHARGE.

INFO	DATE	DESCRIPTION	PAW	JAN
C10	04/22/92	LEGEND UPDATED TO SUIT AS BUILT RECORDS	PAW	AR
C10	12/09/24	CHANGES AS CLOUDED	PAW	AR
C8	22/09/23	LEGEND UPDATED	PAW	AR
C7	14/06/22	UPDATED TO SUIT H&B AND BFL LAYOUTS FOR PODIUM A, SUIT H&B IS CORRECTED	PAW	AR
C7	19/04/22	UPDATED TO SUIT H&B AND BFL LAYOUTS FOR PODIUM A & MIRRISSE A	PAW	AR
C5	08/04/22	TOWER B/ELEVOT DRAWING ADDED	PAW	AR
C4	21/03/22	TOWER B/ELEVOT DRAWING ADDED, LVLOD C/E REFERRED TO SUIT SSL	PAW	AR
C3	09/03/22	POP UP POSITIONS AND BGD UPDATED	PAW	AR
C2	11/02/22	NON-RETURN VALVE SPEC ADDED	PAW	AR
C1	08/02/22	ISSUED FOR CONSTRUCTION REVISED SCALE FORMERLY ISSUED AS DGA01	WDC	PAW
REV	DATE	DETAILS	DRN	CH

DRAWING STATE

CONSTRUCTION

RIBA STAGE

STAGE 5



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CONSULTING

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

CLIENT

FEC

PROJECT TITLE

VICTORIA RIVERSIDE

DRAWING TITLE

BELOW GROUND DRAINAGE
GENERAL ARRANGEMENT

SHEET 2 of 5

DRAWING No.	REV.
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