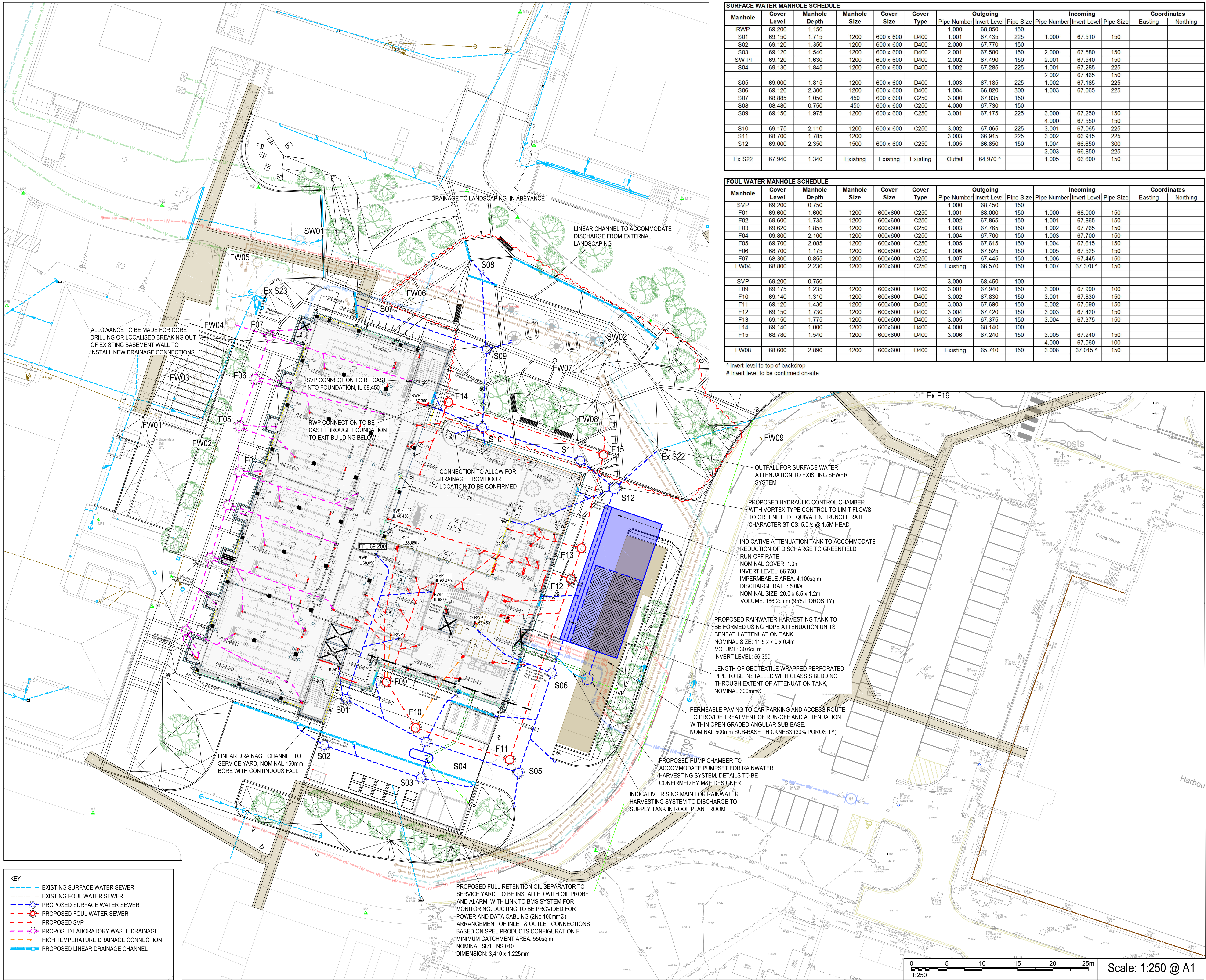


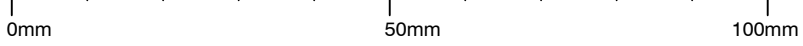


SURFACE WATER MANHOLE SCHEDULE											
Manhole	Cover Level	Manhole Depth	Manhole Size	Cover Size	Cover Type	Pipe Number	Outgoing Invert Level	Pipe Size	Pipe Number	Incoming Invert Level	Pipe Size
RWP	69.200	1.150				1.000	68.050	150			
S01	69.150	1.715	1200	600 x 600	D400	1.001	67.435	225	1.000	67.510	150
S02	69.120	1.350	1200	600 x 600	D400	2.000	67.770	150			
S03	69.120	1.540	1200	600 x 600	D400	2.001	67.580	150	2.000	67.580	150
SW PI	69.120	1.630	1200	600 x 600	D400	2.002	67.490	150	2.001	67.540	150
S04	69.130	1.845	1200	600 x 600	D400	1.002	67.285	225	1.001	67.285	225
									2.002	67.465	150
S05	69.000	1.815	1200	600 x 600	D400	1.003	67.185	225	1.002	67.185	225
S06	69.120	2.300	1200	600 x 600	D400	1.004	66.820	300	1.003	67.065	225
S07	68.885	1.050	450	600 x 600	C250	3.000	67.835	150			
S08	68.480	0.750	450	600 x 600	C250	4.000	67.730	150			
S09	69.150	1.975	1200	600 x 600	C250	3.001	67.175	225	3.000	67.250	150
									4.000	67.550	150
S10	69.175	2.110	1200	600 x 600	C250	3.002	67.065	225	3.001	67.065	225
S11	68.700	1.785	1200	600 x 600	C250	3.003	66.915	225	3.002	66.915	225
S12	69.000	2.350	1500	600 x 600	C250	1.005	66.650	150	1.004	66.650	300
									3.003	66.850	225
Ex S22	67.940	1.340	Existing	Existing	Existing	Outfall	64.970 ^		1.005	66.600	150

FOUL WATER MANHOLE SCHEDULE											
Manhole	Cover Level	Manhole Depth	Manhole Size	Cover Size	Cover Type	Pipe Number	Outgoing Invert Level	Pipe Size	Pipe Number	Incoming Invert Level	Pipe Size
SVP	69.200	0.750				1.000	68.450	150			
F01	69.600	1.900	1200	600x600	C250	1.001	68.000	150	1.000	68.000	150
F02	69.600	1.735	1200	600x600	C250	1.002	67.865	150	1.001	67.865	150
F03	69.620	1.855	1200	600x600	C250	1.003	67.765	150	1.002	67.765	150
F04	69.800	2.100	1200	600x600	C250	1.004	67.700	150	1.003	67.700	150
F05	69.700	2.085	1200	600x600	C250	1.005	67.615	150	1.004	67.615	150
F06	68.700	1.175	1200	600x600	C250	1.006	67.525	150	1.005	67.525	150
F07	68.300	0.855	1200	600x600	C250	1.007	67.445	150	1.006	67.445	150
FW04	68.800	2.230	1200	600x600	C250	Existing	66.570	150	1.007	67.370 ^	150
SVP	69.200	0.750				3.000	68.450	100			
F09	69.175	1.235	1200	600x600	D400	3.001	67.940	150	3.000	67.990	100
F10	69.140	1.310	1200	600x600	D400	3.002	67.830	150	3.001	67.830	150
F11	69.120	1.430	1200	600x600	D400	3.003	67.690	150	3.002	67.690	150
F12	69.150	1.730	1200	600x600	D400	3.004	67.420	150	3.003	67.420	150
F13	69.150	1.775	1200	600x600	D400	3.005	67.375	150	3.004	67.375	150
F14	69.140	1.000	1200	600x600	D400	4.000	68.140	100			
F15	68.780	1.540	1200	600x600	D400	3.006	67.240	150	3.005	67.240	150
									4.000	67.560	100
FW08	68.600	2.890	1200	600x600	D400	Existing	65.710	150	3.006	67.015 ^	150

^ Invert level to top of backdrop
Invert level to be confirmed on-site

Responsibility is not accepted for errors made by others in scaling from this drawing.
All construction information should be taken from figured dimensions only.



GENERAL NOTES:

- DO NOT SCALE DRAWINGS. WORK TO FIGURED DIMENSIONS ONLY.
- ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, ELECTRICAL, MECHANICAL AND INFRASTRUCTURE DRAWINGS
- ALL DIMENSIONS IN MM EXCEPT LEVELS WHICH ARE IN METRES.
- STRUCTURAL ENGINEER TO BE NOTIFIED OF ANY UNFORESEEN STRUCTURES.
- REFER TO GENERAL NOTES DRAWING No. 80000
- LOCATION AND ROUTING OF EXISTING SEWERS BASED ON SUBSCAN TOPOGRAPHICAL AND SERVICES SURVEY, REFERENCE 12VCS02.
- ROUTING OF SEWERS TO THE SOUTH OF THE BUILDING TO BE CONFIRMED WHERE SURVEY INFORMATION IS INCOMPLETE DUE TO POTENTIAL BLOCKAGES. CAMPUS RECORD DRAWINGS INDICATE ALTERNATIVE ROUTING OF SEWERS WITHIN THE PERIMETER ROADS.
- CONDITION OF EXISTING SEWERS BASED ON CCTV SURVEY UNDERTAKEN BY SUBSCAN, REFERENCE 8885.
- INDICATIVE ROUTING OF PROPOSED DRAINAGE SUBJECT TO CONFIRMATION OF LANDSCAPE STRATEGY IN RELATION TO THE EXISTING TREES AND ASSOCIATED ROOT PROTECTION AREAS.
- CONTRACTOR TO PROVIDED TEMPORARY PROTECTION TO EXISTING DRAINAGE NETWORK TO ENSURE OUTFALL THE WHITERNIGHTS LAKE IS NOT CONTAMINATED.
- SURFACE WATER DRAINAGE FROM THE PROPOSED BUILDING TO BE LIMITED TO GREENFIELD EQUIVALENT RUNOFF RATE IN ACCORDANCE WITH LOCAL PLANNING POLICY.
- SURFACE WATER DISCHARGE TO BE LIMITED TO 5.0 L/S IN ACCORDANCE WITH GUIDANCE CONTAINED IN EA/DEFRA PUBLICATION RAINFALL RUN-OFF MANAGEMENT FOR DEVELOPMENT.
- ATTENUATION SIZING BASED ON ACCOMMODATING ALL FLOWS UP TO THE 1 IN 100 YEAR RETURN PERIOD, PLUS 40% ALLOWANCE FOR CLIMATE CHANGE.
- PIPE MATERIALS TO BE APPROPRIATE TO ANTICIPATED DISCHARGE TO THE BELOW GROUND DRAINAGE SYSTEMS:
 - SURFACE WATER DRAINAGE - PLASTIC, NITRILE JOINTS
 - FOUL WATER DRAINAGE - CLAY / PLASTIC, SBR JOINTS
 - LABORATORY WASTE DRAINAGE - CLAY / VULCANISHE, EPDM JOINTS
 - AUTOCLOVE CONNECTIONS - STAINLESS STEEL, EPDM JOINTS
- NO ALLOWANCE HAS BEEN INCLUDED FOR SPECIFIC DRAINAGE SYSTEMS FOR CHEMICAL SPILLAGE WITHIN THE SERVICE YARD. IT IS ASSUMED THAT THE SCHOOLS HAVE MANAGEMENT PROTOCOLS ARE IN PLACE REGARDING HANDLING AND TREATMENT OF POTENTIAL SPILLAGES.
- TRADE EFFLUENT CONSENT MAY BE REQUIRED FOR DISCHARGE OF CHEMICALS TO THE FOUL WATER SEWER NETWORK. IT IS ASSUMED THAT THE EXISTING LABORATORY FACILITIES ACROSS THE CAMPUS HAVE AN EXISTING CONSENT FROM THAMES WATER.
- ALL BELOW GROUND RAINWATER PIPE CONNECTION TO BE 150mmØ, UNLESS INDICATED OTHERWISE.
- ALL BELOW GROUND FOUL WATER PIPE CONNECTION TO BE 100mmØ, UNLESS INDICATED OTHERWISE.

D4 P01 16/03/2018 ISSUE FOR APPROVAL

STATUS	REV	DATE	DESCRIPTION
CONSULTANT			

AECOM

CLIENT NAME
University of Reading

REVISOR
AIDAN BINDING

CHECKED BY
DAVID MULKERRIN

PROJECT
Health & Life Sciences
University of Reading

DRAWING TITLE
PROPOSED MAIN WORKS DRAINAGE
GENERAL ARRANGEMENT

SUITABILITY STATUS
D4 Manufacture / Procurement

As indicated @ A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | CLASS | NUMBER
1459939-ACM-00-XX-DR-S-ZZZZ-D0002

REVISION
P01