

**LEGEND:**

- SITE BOUNDARY: Solid red line
- UPVC TWINWALL SURFACE WATER DRAINAGE OR SIMILAR APPROVED: Dashed blue line
- SURFACE WATER DRAINAGE: Dashed green line
- PRECAST / INSITU CONCRETE MANHOLE: Circle with square symbol
- 600mm x 600mm SW INSPECTION CHAMBER: Square with 'X' symbol
- UPVC TWINWALL PERFORATED SURFACE WATER DRAINAGE OR SIMILAR APPROVED: Dashed green line with circles
- FILTER DRAIN / d1505 DRAINAGE MATERIAL WRAPPED IN GEOTEXTILE: Dashed purple line
- EXISTING SURFACE WATER DRAINAGE: Solid blue line
- EXISTING SURFACE WATER DRAINAGE TO BE DECOMMISSIONED: Dashed blue line
- EXISTING WASTEWATER DRAINAGE: Dashed orange line
- EXISTING WASTEWATER DRAINAGE TO BE DECOMMISSIONED: Dashed orange line
- EXISTING COMBINED DRAINAGE: Dashed yellow line
- EXISTING COMBINED DRAINAGE TO BE DECOMMISSIONED: Dashed yellow line
- WASTEWATER DRAINAGE PIPE uPVC 80 OR SIMILAR APPROVED: Dashed orange line with circles
- WASTEWATER PRECAST DRAINAGE MANHOLE / INSPECTION CHAMBER: Circle with square symbol
- TRAPPED ROAD GULLY: Square with 'G' symbol
- FLOW CONTROL: Solid red line with circles
- CHANNEL DRAIN TO LANDSCAPE ARCHITECT SPECIFICATION: Dashed red line
- LINEAR SLOT DRAIN WITH SUMP OUTLET ACO MD150 No. 20.0 (OR EQUAL APPROVED): Dashed red line
- ROOF EXTENT: Shaded grey area

**GENERAL NOTES:**

- ALL NOTED LEVELS ARE TO ORDNANCE DATUM, MALIN HEAD.
- REFER TO ARCHITECT'S LAYOUT FOR ALL SET-OUT INFORMATION.
- REFER TO ARCHITECT / LANDSCAPE ARCHITECT'S DESIGN DRAWINGS FOR DETAILS OF PROPOSED SURFACE FINISHES AND LANDSCAPING.
- ALL SURFACE WATER DRAINAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE GREATER DUBLIN REGION CODE OF PRACTICE FOR DRAINAGE WORKS, THE BUILDING REGULATIONS PART H AND THE SITE DEVELOPMENT SPECIFICATION.
- ALL WASTEWATER DRAINAGE IS TO BE INSTALLED IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE, THE BUILDING REGULATIONS PART H AND THE SITE DEVELOPMENT SPECIFICATION.
- ALL DRAINAGE COVER LEVELS ARE TO BE COORDINATED WITH THE PROPOSED ROAD DESIGN LEVELS AND ARCHITECT & LANDSCAPE ARCHITECT DESIGN FINISH DETAILS.
- ALL LIVE CONNECTIONS TO NETWORKS THAT ARE TO BE DECOMMISSIONED, TO BE RE-CONNECTED TO NEW INFRASTRUCTURE, PRIOR TO DECOMMISSIONING.
- ALL CONNECTIONS TO NEW DRAINAGE NETWORKS ARE TO BE MADE AT AN ANGLE OF 90° OR IN THE DIRECTION OF FLOW.
- THE CONTRACTOR IS TO VERIFY INVERT LEVEL AT PROPOSED CONNECTION TO EXISTING SEWERS, PRIOR TO ANY OTHER WORKS BEING CARRIED OUT, AND MAKE ANY DISCREPANCIES KNOWN TO THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF PRESENCE ALL EXISTING UTILITIES, IF ANY, ALONG ROUTE OF PROPOSED DRAINAGE NETWORKS - BY INTRUSIVE INVESTIGATION OR EQUAL.
- EXISTING PUBLIC SEWER TO BE JET CLEANED AND CCTV SURVEYED PRIOR TO, AND AFTER PROPOSED CONNECTIONS FROM NEW NETWORK.
- ALL NEW DRAINAGE INFRASTRUCTURE TO BE JET CLEANED AND CCTV SURVEYED, WITH ANY NOTED DEFECTS REMEDIATED, ON COMPLETION OF WORKS, TO THE SATISFACTION OF THE LOCAL AUTHORITY.
- REFER ARCHITECT DESIGN DRAWINGS FOR DETAILS OF GREEN ROOFS, AND EXACT EXTENT.
- ALL SuDS ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CIRIA C753 AND DCC'S SuDS DESIGN AND EVALUATION GUIDELINE, AND SUBJECT TO DESIGN APPROVAL FROM DCC.

**Wastewater Network Design Table**

USMH	USCL (m)	PN	USIL (m)	Slope (1:X)	DSL (m)	Dia (mm)
F1	25.100	F1.000	23.675	112.30	23.365	225
F2	24.790	F2.000	23.365	200.00	23.236	225
F3	26.520	F2.001	23.236	200.00	23.210	225
F4	26.520	F2.002	23.210	200.00	23.111	225
F5	25.470	F2.003	23.111	200.00	23.065	225
F6	25.310	F2.004	23.065	200.00	22.937	225
F7	25.010	F2.005	22.937	200.00	22.816	225
F8	25.000	F2.006	22.816	200.00	22.778	225
F9	24.790	F1.001	22.778	200.00	22.687	225
F10	24.650	F1.002	22.687	200.00	22.518	225
F11	24.300	F1.003	22.518	200.00	22.358	225
F12	24.880	F3.000	23.455	52.40	23.135	225
F13	24.560	F3.001	23.135	100.00	22.887	225
F14	24.570	F3.002	22.887	94.80	22.358	225
F15	24.050	F1.004	22.283	200.00	22.019	225
F16	23.560	F1.005	22.019	200.00	21.965	225
F17	23.270	F4.000	21.845	88.30	21.414	225
F18	24.770	F5.000	23.345	97.10	23.205	225
F19	24.630	F5.001	23.205	135.00	23.075	225
F20	24.500	F5.002	23.075	84.50	22.815	225
F21	24.240	F5.003	22.815	74.10	22.560	225
F22	24.080	F6.000	22.655	200.00	22.560	225
F23	24.080	F5.004	22.560	200.00	22.529	225
F24	24.000	F5.005	22.529	22.20	21.795	225
F25	23.220	F5.006	21.795	86.20	21.550	225
F26	23.280	F7.000	21.855	200.00	21.726	225
F27	23.410	F7.001	21.726	66.40	21.550	225
F28	23.420	F5.007	21.550	200.00	21.414	225
F29	23.840	F4.001	21.414	200.00	21.209	225
F30	23.590	F4.002	21.209	200.00	21.174	225

**Commercial Storm Water Network Design Table**

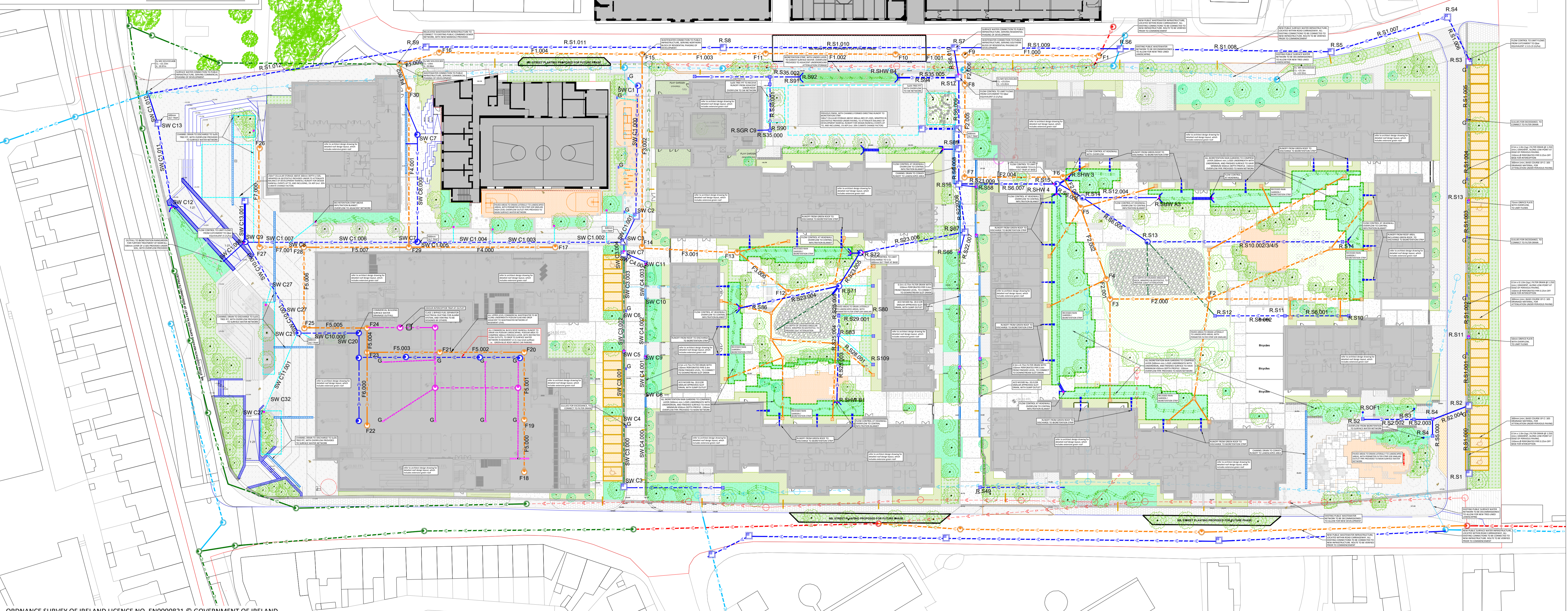
USMH	USCL (m)	PN	USIL (m)	Slope (1:X)	DSL (m)	Dia (mm)
SW C1	24.000	SW C1.000	23.100	120.00	22.818	225
SW C2	24.400	SW C1.001	22.818	166.60	22.773	225
SW C3	25.180	SW C3.000	23.800	199.60	23.708	225
SW C4	24.950	SW C3.001	23.708	199.40	23.624	225
SW C5	24.750	SW C3.002	23.624	200.10	23.573	225
SW C6	24.800	SW C3.003	23.573	200.30	23.274	225
SW C7	24.850	SW C4.000	23.950	200.00	23.830	225
SW C8	24.850	SW C4.001	23.830	150.00	23.766	225
SW C9	24.780	SW C4.002	2.700	149.50	2.603	225
SW C10	24.610	SW C4.003	23.710	199.50	23.661	225
SW C11	24.700	SW C4.004	23.661	100.90	23.603	150
SW C7	24.500	SW C3.004	23.274	100.30	23.241	150
SW C3	24.400	SW C1.002	22.773	166.60	22.665	225
SW C4	24.300	SW C1.003	22.665	166.60	22.568	225
SW C5	24.300	SW C1.004	22.568	166.60	22.507	225
SW C6	24.300	SW C1.005	22.507	166.60	22.451	225
SW C7	24.000	SW C8.000	23.100	100.10	22.822	150
SW C7	24.300	SW C1.006	22.451	166.60	22.250	225
SW C8	24.300	SW C1.007	22.250	138.90	22.167	225
SW C20	24.000	SW C10.000	23.100	79.40	22.900	150
SW C21	23.800	SW C10.001	22.000	22.90	21.700	150
SW C27	23.500	SW C11.000	22.600	28.30	22.466	150
SW C32	23.500	SW C11.001	22.466	172.00	22.333	150
SW C27	23.500	SW C10.002	21.700	100.10	21.631	150
SW C27	23.500	SW C10.003	21.631	100.10	21.494	150
SW C38	23.650	SW C13.001	22.750	129.10	22.600	150
SW C9	23.500	SW C1.008	21.419	14.40	20.892	225
SW C10	22.500	SW C1.009	20.817	240.00	20.773	300
SW C11	22.500	SW C1.010	20.773	240.00	20.736	300
SW C12	22.500	SW C1.011	20.736	184.50	20.617	300
SW C13	22.300	SW C1.012	20.617	240.00	20.584	300

**Residential Surface Water Network**

USMH	USCL (m)	PN	USIL (m)	Slope (1:X)	DSL (m)	Dia (mm)
R.S1	27.400	R.S1.000	26.000	100.10	25.825	150
R.SOF1	26.400	R.S2.001	25.790	20.00	25.697	150
R.S2	26.400	R.S2.002	25.697	60.10	25.476	150
R.S3	26.500	R.S2.003	25.476	20.00	25.233	150
R.S4	26.600	R.S5.000	25.700	20.00	25.485	150
R.S4	26.600	R.S2.004	25.233	119.90	25.149	75
R.S2	26.800	R.S1.001	25.074	251.30	25.005	150
R.S11	26.750	R.S1.002	25.005	249.20	24.935	150
R.S11	26.500	R.S1.003	24.935	249.50	24.865	150
R.S13	26.400	R.S1.004	24.865	249.80	24.796	150
R.S14	26.300	R.S1.005	24.796	249.20	24.716	150
R.S3	26.250	R.S1.006	24.716	30.00	24.283	225
R.S4	26.000	R.S1.007	24.283	80.00	23.888	225
R.S5	25.750	R.S1.008	23.888	100.00	23.339	225
R.S6	25.250	R.S1.009	23.339	100.10	22.908	225
R.S10	26.500	R.S6.001	25.650	80.00	25.443	225
R.S11	26.500	R.S6.002	25.443	166.60	25.333	225
R.S12	26.500	R.S6.003	24.694	166.60	24.616	225
R.S28	26.000	R.S6.004	24.616	166.60	24.538	225
R.S14	25.400	R.S10.002	24.161	40.00	24.109	75
R.S32	25.700	R.S10.003	23.959	150.00	23.880	225

**Residential Surface Water Network**

USMH	USCL (m)	PN	USIL (m)	Slope (1:X)	DSL (m)	Dia (mm)
R.S30	26.000	R.S10.004	23.880	150.00	23.720	225
R.S31	26.000	R.S10.005	23.720	150.00	23.635	225
R.S13	26.000	R.S6.005	23.635	120.00	23.465	225
R.S14	25.400	R.S6.006	23.465	80.00	23.370	225
R.S15	25.250	R.S6.007	23.370	47.20	22.829	150
R.S58	25.160	R.S21.009	24.220	101.10	24.175	75
R.S66	25.490	R.S22.007	24.886	99.60	24.828	75
R.S86	25.000	R.S23.004	23.992	174.80	23.460	225
R.S94	25.875	R.S25.003	24.156	150.00	24.055	225
R.S109	25.750	R.S28.001	25.022	100.40	24.904	150
R.S83	25.750	R.S25.004	24.055	100.10	24.005	225
R.S80	25.500	R.S29.001	24.871	100.00	24.782	150
R.S84	25.750	R.S25.005	24.005	21.70	23.653	225
R.S71	25.000	R.S23.005	23.460	100.10	23.357	225
R.S72	25.000	R.S23.006	23.357	100.20	23.080	150
R.S67	25.390	R.S22.008	23.080	100.10	22.955	150
R.S16	25.150	R.S6.008	22.754	150.00	22.693	225
R.S89	24.700	R.S34.000	23.700	99.70	23.595	150
R.S90	24.700	R.S34.001	23.595	100.10	23.513	150
R.S69	24.900	R.S6.009	22.693	100.20	22.509	225
R.S90	24.400	R.S35.001	23.420	100.10	23.281	225
R.S17	24.900	R.S6.010	22.288	99.50	22.208	225
R.S7	24.750	R.S1.010	22.133	492.70	22.011	300
R.S8	24.250	R.S1.011	22.011	401.80	21.818	300
R.S9	23.400	R.S1.012	21.818	401.80	21.636	300



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P01	12.05.21	SUITABLE FOR INFORMATION	AB	MK
P02	02.06.21	SUITABLE FOR INFORMATION	AB	MK
P03	17.06.2022	SUITABLE FOR INFORMATION	MK	IC
P04	27.09.22	SUITABLE FOR PLANNING	EH	MK

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 NOT FOR CONSTRUCTION.  
 ALL LEVELS GIVEN ARE  
 RELATIVE TO ORDNANCE DATUM.  
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Client: DUBLIN CITY COUNCIL  
 Project: PROPOSED DEVELOPMENT AT EMMET ROAD

Title: SuDS AND WASTEWATER NETWORKS  
 DESIGN LAYOUT

Code | Originator | Zone | Level | Type | Role | Number | Status | Revision  
 B967 - OCSC - Z - GF - DR - C - 0500 S4 P04

Date: MAY'21 Scale: 1:500 @ A1 Drn by: AB Chkd by: MK Aprvd by: AH