



**Wastewater Network Design Tables**

USWH	USCL (m)	Pipe Number	USIL (m)	Dia (mm)	Slope (1%)	DSL (m)
F1	80.470	F1.000	79.120	150	60.0	78.752
F2	79.840	F1.001	78.123	150	75.0	77.718
F3	79.400	F1.002	77.718	150	135.0	77.676
F4	80.530	F2.000	79.180	150	60.0	78.887
F5	80.250	F2.001	78.887	150	60.0	78.492
F6	79.600	F1.003	77.676	150	135.0	77.653
F7	79.600	F1.004	77.653	150	135.0	77.579

**Surface Water Network Design Table**

USWH	USCL (m)	PN	USIL (m)	Slope (1%)	DSL (m)	Dia (mm)
S1	81.570	S1.000	80.220	52.90	79.450	150
S2	80.500	S1.001	79.450	100.00	79.375	150
S3	81.660	S2.000	80.310	70.80	79.820	150
S4	80.870	S2.001	79.820	29.50	79.450	150
S5	80.500	S1.002	79.075	147.00	79.025	225
SDUMMY	87.100	S3.000	85.750	36.00	85.500	150
SDUMMY	86.850	S3.001	85.500	36.00	85.215	150
SDUMMY	86.570	S3.002	85.215	20.00	84.604	150
SDUMMY	85.880	S3.003	84.604	22.00	84.050	150
SDUMMY	85.230	S3.004	84.050	28.00	83.595	150
SDUMMY	84.950	S3.005	83.595	100.00	83.469	150
SDUMMY	84.860	S3.006	83.469	70.00	83.249	150
SDUMMY	84.600	S3.007	83.249	21.00	82.509	150
SDUMMY	83.870	S3.008	82.509	22.00	80.666	150
SDUMMY	82.060	S3.009	80.666	35.00	79.497	150
SDUMMY	80.870	S3.010	79.497	30.00	79.188	150
SDUMMY	80.540	S3.011	79.188	60.00	79.033	150
SDUMMY	80.500	S3.012	79.033	50.00	78.725	150
S6	80.350	S3.013	78.650	170.00	78.579	225
S7	80.150	S1.003	78.579	170.00	78.430	225
S8	80.140	S1.004	78.410	170.00	78.361	225
S9	79.610	S1.005	78.086	114.00	77.960	300
S10	80.220	S4.000	78.795	170.00	78.709	225
S11	80.190	S4.001	78.709	64.00	78.351	225
S12	79.480	S1.006	77.980	245.00	77.927	300
S13	79.490	S1.007	77.927	245.00	77.828	300
S14	80.300	S5.000	78.875	45.00	78.369	225
S15	79.540	S1.008	77.828	65.00	77.730	300
S16	79.400	S1.009	77.730	60.00	77.423	300
S17	78.890	S1.010	77.423	17.00	76.979	300

**LEGEND**

- PROPOSED SURFACE WATER NETWORK
- PROPOSED WASTEWATER NETWORK
- EXISTING WASTEWATER NETWORK
- PROPOSED HOPE WASTEWATER RISING MAIN
- PROPOSED ATTENUATION
- PROPOSED PERVIOUS PARKING AREA
- PROPOSED PERVIOUS PAVED YARD
- PROPOSED FILTER TRENCH

- NOTES**
- ALL NOTE LEVELS ARE TO ORDNANCE DATUM, MAIN 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 DESIGN FINISH DETAILS.
  - 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 TO ARCHITECT'S DRAWINGS FOR DETAILS OF PRIVATE DRAINAGE.
  - ALL COVER LEVELS ARE TO BE COORDINATED WITH ROAD DESIGN LEVELS AND LANDSCAPE ARCHITECT'S PROPOSED FINISH LEVELS.

PROPOSED HEADWALL TO BE INSTALLED AT OUTLET TO STREAM. SECURITY SCREEN IN ACCORDANCE WITH CR1A C786 TO BE FITTED TO HEADWALL

PROPOSED CONNECTION TO STREAM

PROPOSED FULL RETENTION KLARGESTER PETROL INTERCEPTOR CLASS 1 INSTA015 OR SIMILAR APPROVED TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION

PROPOSED FLOW CONTROL CHAMBER WITH PENSTOCK AT INLET HYDROBREAK BY HYDRO INTERNATIONAL OR SIMILAR APPROVED TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION

DESIGN HEAD = 1.2m  
DESIGN FLOW = 2.0 l/s

PROPOSED ATTENUATION STORMTECH OR SIMILAR APPROVED BED LEVEL: 77.422m AOD  
TOP WATER LEVEL: 78.288m AOD  
AREA: 120m²  
DEPTH: 1.2m  
POROSITY: 0.95  
STORAGE VOLUME: 136.8³

INTERCEPTION STORAGE PROVIDED FOR THE FIRST 5mm OF RAINFALL: 25.11m³ REQUIRED

TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION

DEPTH OF BASE COURSE WITH A MINIMUM POROSITY OF 30% TO BE IN ACCORDANCE WITH CL505 OF TII SPECIFICATIONS FOR ROAD WORKS: 0.4m

600mm SILT TRAP

SINGLE STORY OUTBUILDING ON FOOTPRINT OF HISTORIC STRUCTURE

PERMEABLE PAVED YARD, TO BE IN ACCORDANCE WITH ARCHITECT DETAILS

PROPOSED 6hr. EMERGENCY STORAGE FOR WASTEWATER PUMP STATION. 12m³ EMERGENCY STORAGE TO BE PROVIDED

PROPOSED WASTEWATER PUMP STATION TO BE PROVIDED IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE

PROPOSED VALVE CHAMBER IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE

PROPOSED FLOW METER IN ACCORDANCE WITH IRISH WATER CODE OF PRACTICE

PROPOSED 600mm WIDE, 1.2m DEEP FILTER DRAIN WITH 150mm PERFORATED PIPE IN ACCORDANCE WITH TII STANDARD DETAILS

SINGLE STORY OUTBUILDING ON FOOTPRINT OF HISTORIC STRUCTURE

PROPOSED 80mm Ø HOPE WASTEWATER RISING MAIN

PERVIOUS PAVING TO BE PROVIDED IN ALL IN-CARTLAGE CAR PARKING. 300mm BASE COURSE TO BE PROVIDED. STONE TO BE IN ACCORDANCE WITH CL505 OF TII SPECIFICATION FOR ROAD WORKS AND HAVE A MINIMUM POROSITY OF 30%

EXISTING KATHARINE TYNAN HOUSE

PROPOSED 600mm WIDE, 1.2m DEEP FILTER DRAIN WITH 150mm PERFORATED PIPE IN ACCORDANCE WITH TII STANDARD DETAILS

PROPOSED 600mm WIDE, 1.2m DEEP FILTER DRAIN WITH 150mm PERFORATED PIPE IN ACCORDANCE WITH TII STANDARD DETAILS

Existing farm gate to be removed

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Rev No.	Date	Revision Note	Drn by	Chkd by	Rev No.	Date	Revision Note	Drn by	Chkd by
P01	25.05.21	SUITABLE FOR INFORMATION	DOM	IC					
P02	01.06.21	STAGE COMPLETE - SUITABLE FOR PLANNING	DOM	IC					
P03	16.11.21	SUITABLE FOR INFORMATION	EH	MK					
C01	26.11.21	STAGE COMPLETE - SUITABLE FOR PLANNING	EH	MK					

- FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL AND ENGINEERING DRAWINGS AND ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
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Client: HIBERNIA REIC  
Project: KATHARINE TYNAN HOUSE

Title: PROPOSED DRAINAGE DESIGN LAYOUT

Code	Originator	Zone	Level	Type	Role	Number	Status	Revision
H657	OCSC	XX	XX	DR	C	0500	A1	C01

Date: MAY '21 Scale: 1:500 @ A1 Drn by: DOM Chkd by: MK Aprvd by: PH

**PLANNING DRAWING.**  
NOT FOR CONSTRUCTION.  
ALL LEVELS GIVEN ARE RELATIVE TO ORDNANCE DATUM.  
THIS DRAWING HAS BEEN ISSUED FOR INFORMATION PURPOSES ONLY AND MUST NOT BE USED FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES