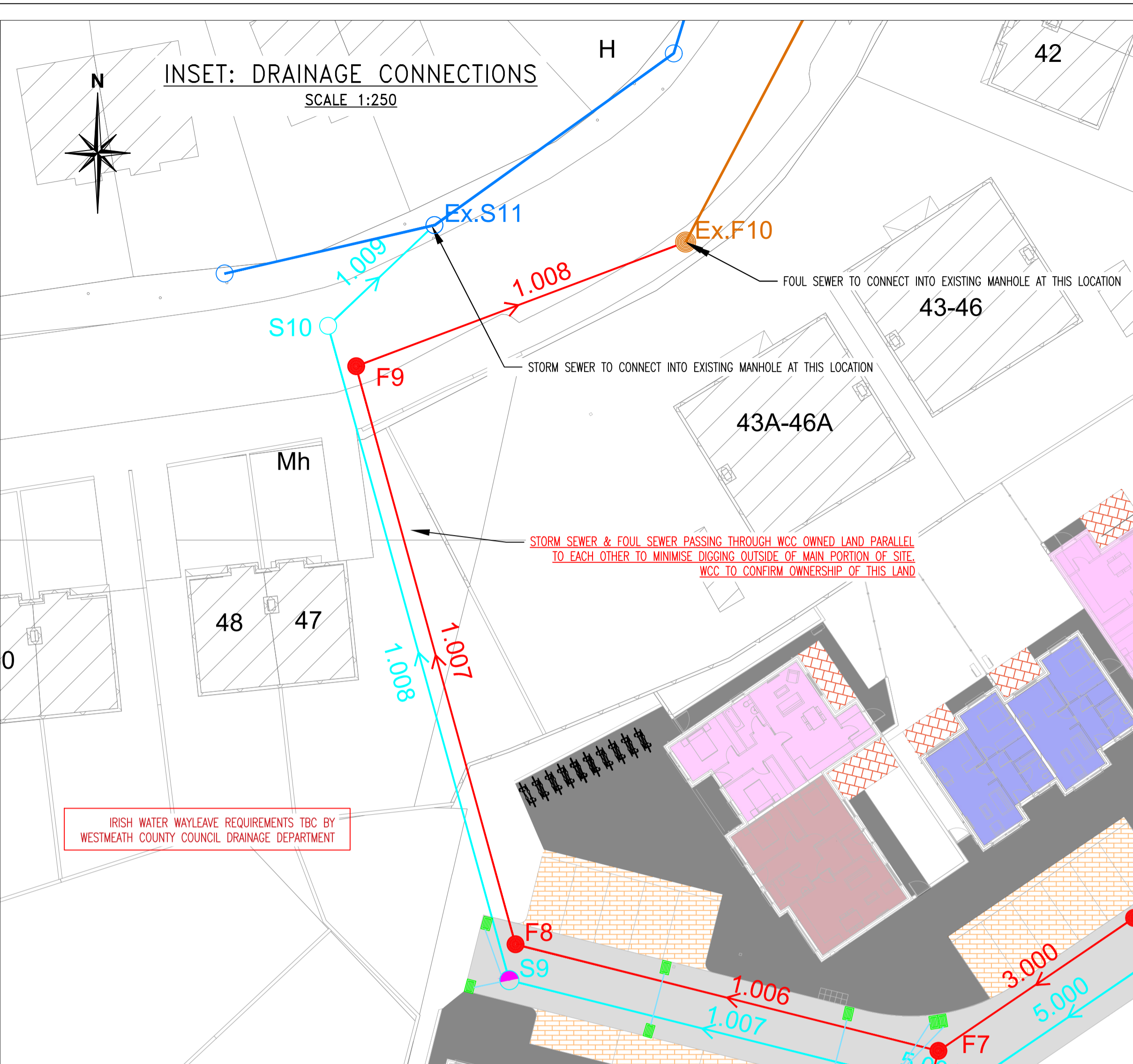


INDICATIVE DRAINAGE LAYOUT
SCALE 1:500



STORM Network 1											
Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Pipe Length	Number	Upstream Manhole		Downstream Manhole		Manhole Dia. (mm)	
						Invert	Cover	Number	Invert		Cover
1.000	225	150	uPVC	41.672	S1	97.468	99.199	S2	97.190	99.014	1200
1.001	225	150	uPVC	42.529	S2	97.190	99.014	S3	96.906	98.999	1200
1.002	300	150	uPVC	13.354	S3	96.831	98.999	S4	96.742	98.902	1200
1.003	300	150	uPVC	84.107	S4	96.742	98.902	S5	96.181	98.061	1200
1.004	300	150	uPVC	12.704	S5	96.181	98.061	S6	96.096	98.119	1200
1.005	300	320	uPVC	8.692	S6	96.096	98.119	S7	96.069	97.783	1200
1.006	375	325	CONC	48.507	S7	96.069	97.783	S8	95.920	97.291	1350
1.007	375	325	CONC	28.080	S8	95.920	97.291	S9	95.834	97.104	1350
1.008	225	175	uPVC	47.868	S9	95.834	97.104	S10	95.560	97.160	1350
1.009	225	175	uPVC	10.320	S10	95.559	97.160	S11	95.500	97.338	1200
2.000	225	150	uPVC	20.594	S12	97.043	99.190	S3	96.906	98.999	1200
3.000	300	320	uPVC	3.000	S13	96.105	98.256	S6	96.096	98.119	1200
4.000	225	150	uPVC	22.836	S14	96.371	97.639	S7	96.219	97.783	1200
5.000	150	125	uPVC	18.998	S15	96.333	97.481	S16	96.181	97.355	1200
5.001	150	125	uPVC	4.537	S16	96.181	97.355	S8	96.145	97.291	1200

FOUL Network 1											
Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Pipe Length	Number	Upstream Manhole		Downstream Manhole		Manhole Dia. (mm)	
						Invert	Cover	Number	Invert		Cover
1.000	225	60	uPVC	36.962	F1	98.116	99.200	F2	97.500	98.925	1200
1.001	225	60	uPVC	34.260	F2	97.500	98.925	F3	96.929	99.007	1200
1.002	225	150	uPVC	20.072	F3	96.929	99.007	F4	96.795	98.902	1200
1.003	225	150	uPVC	90.000	F4	96.795	98.902	F5	96.195	98.002	1200
1.004	225	150	uPVC	13.416	F5	96.195	98.002	F6	96.106	97.878	1200
1.005	225	150	uPVC	53.425	F6	96.106	97.878	F7	95.750	97.341	1200
1.006	225	150	uPVC	30.774	F7	95.750	97.341	F8	95.545	97.102	1200
1.007	225	200	uPVC	42.277	F8	95.545	97.102	F9	95.334	97.172	1200
1.008	225	200	uPVC	24.834	F9	95.334	97.172	F10	95.210	97.401	1200
2.000	150	150	uPVC	26.937	F11	96.745	97.670	F6	96.565	97.878	1200
3.000	225	60	uPVC	16.691	F12	96.028	97.452	F7	95.750	97.341	1200

- GENERAL NOTES:
1. ALL DIMENSIONS AND LEVELS TO BE VERIFIED ON SITE PRIOR TO COMMENCEMENT OF THE WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECT'S AND OTHER ENGINEERING DRAWINGS.

- DRAINAGE LAYOUT LEGEND
- PROPOSED uPVC STORM SEWER & 1200mm Ø MH
 - PROPOSED uPVC FOUL SEWER & 1200mm Ø MH
 - EXISTING STORM SEWER
 - EXISTING FOUL SEWER
 - PROPOSED FRENCH DRAIN
 - PROPOSED ROAD GULLY
 - PROPOSED ATTENUATION CELLULAR STORAGE

- DRAINAGE NOTES:
1. ALL FOUL DRAINAGE INFRASTRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATERS REQUIREMENTS AND THEIR CONSTRUCTION DETAIL IW-CDS-5030-03 JULY 2020.
 2. ALL DRAINAGE WORK TO BE CARRIED OUT IN ACCORDANCE WITH WESTMEATH COUNTY DEVELOPMENT PLAN, CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 6TH EDITION AND GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS
 3. ALL DRAINAGE CONNECTIONS FROM BUILDINGS TO CONFIRM TO THE BUILDING REGULATIONS 2010, PART H.
 4. CLASS E BEDDING TO ALL PIPES WITH COVER GREATER THAN 1.2m UNDER ROAD AND 0.9m UNDER OTHER AREAS
 5. THERMOPLASTIC STRUCTURED WALL PIPES SHALL COMPLY WITH THE PROVISIONS OF IS EN 13476 (2007 / 2009) AND WITH WIS 4-35-01 (2000). PIPES TO BE STIFFNESS CLASS (SN8) 8kN/m² AND TO BE CAPABLE OF DEMONSTRATING A JETTING RESISTANCE OF 2600PSI (180 BAR) WITHOUT DAMAGE IN ACCORDANCE WITH SECTION 3.13.3 OF IW-CDS-5030. (PIPE DIAMETERS 150mm UP TO 450mm)
 6. CONCRETE BED AND SURROUND TO PIPES WITH COVER LESS THAN 1.2m UNDER ROADS AND 0.9m UNDER OTHER AREAS
 7. LADDERS ARE REQUIRED IN MANHOLES WHERE THE DEPTH FROM COVER LEVEL EXCEEDS 3.0m
 8. ALL ABANDONED PIPE RUNS AND MANHOLES TO BE BROKEN OUT AND BACKFILLED WITH 15/20N LEAN MIX CONCRETE.
 9. ALL ROAD GULLIES AND MANHOLE COVERS TO BE TO EN 124 D400 IN ROADS AND B125 IN ALL OTHER PAVED AREAS, FOOTWAYS AND LANDSCAPED AREAS.

REV	DATE	DESCRIPTION	BY	APPR
C	12.04.22	UPDATED WITH LATEST LAYOUT	PM	MK
B	04.08.21	UPDATED WITH LATEST LAYOUT	PM	MK
A	07.07.21	UPDATED AFTER ROAD LEVEL CHANGES	PM	MK

DRAWING STATUS:
STAGE_2A

CLIENT:
WESTMEATH COUNTY COUNCIL

JOB DESCRIPTION:
PROPOSED 22No. HD AT O'GROWNEY TERRACE, MULLINGAR, CO. WESTMEATH

DRAWING TITLE:
INDICATIVE DRAINAGE LAYOUT

PROJECT No.:
P-3457

DRAWING No.:
C-302

REV. No.:
C

SCALE: AS SHOWN SHEET: A1 DATE: 24.06.21

DRAWN BY: SM CHECKED BY: MK APPROVED BY: PMCM

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