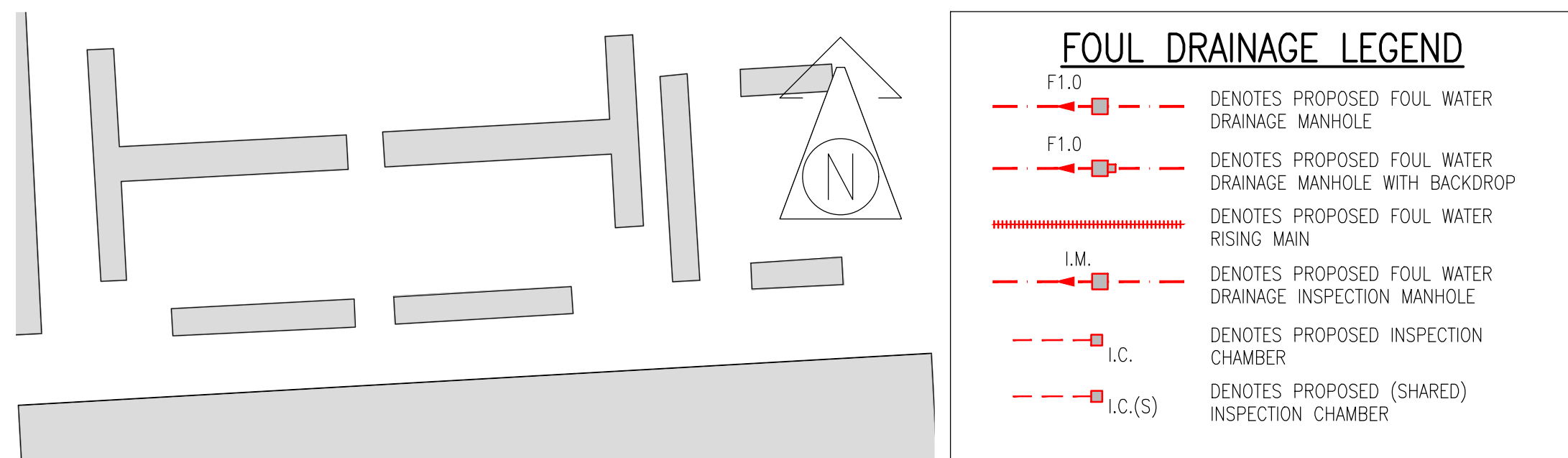


GENERAL DRAINAGE NOTES:

- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE NOTED.
- ALL LEVELS ARE IN METRES ABOVE DATUM UNLESS OTHERWISE NOTED.
- ALL PIPE DIAMETERS ARE NORMAL.
- THE CONTRACTOR MUST CONTACT THE RELEVANT AUTHORITIES PRIOR TO CONSTRUCTION WORK, & SATISFY HIMSELF IN RESPECT TO THE LOCATION OF ALL EXISTING SERVICES.
- ALL SEWER & DRAIN PIPES ARE CLASS 'C' uPVC UNLESS OTHERWISE STATED.
- ALL BEDDING TO SEWERS IS CLASS 'B' UNLESS OTHERWISE NOTED.
- ALL MANHOLES CAN BE EITHER PRECAST CONCRETE RING MANHOLES OR BLOCKWORK UNLESS OTHERWISE STATED.
- 600mm MAX. LENGTH ROCKER PIPES ARE TO BE PROVIDED ON SEWER WHERE:
 - A PIPE ENTERS A MANHOLE OR PUMPING STATION.
 - A PIPE LEAVES A MANHOLE.
 - A PIPE ENTERS CONCRETE ENCASEMENT.
 - A PIPE LEAVES CONCRETE ENCASEMENT.
 - ANY OTHER LOCATION AS DIRECTED BY THE ENGINEER.
- ALL SEWER ROCKER PIPES ARE TO BE FORMED BY CUTTING & TRIMMING A LENGTH OF SPIGOT & SOCKET PIPE TO FORM A SPIGOT AT THE CUT END, THEREBY FORMING SPIGOT & SOCKET JOINTS AT BOTH ENDS OF THE ROCKER PIPE.
- WHERE SEWER PIPES OR RISING MAINS CONNECT TO EXISTING MANHOLES, THE CONTRACTOR IS REQUIRED TO:
 - CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK.
 - MAKE GOOD THE EXISTING CHAMBER WALL AT THE PROPOSED POINT OF PENETRATION & ADJUST THE EXISTING BENCHING TO THE SATISFACTION OF THE ENGINEER.
- WHERE SEWER PIPES, RISING MAINS OR ROAD GULLY DRAINS CROSS EXISTING ROADS, THE CONTRACTOR IS REQUIRED TO:
 - CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK.
 - MAKE GOOD THE EXISTING ROAD TO ITS ORIGINAL SPECIFICATION AS APPROVED BY THE ENGINEER.
- MINIMUM FALLS INDICATED ON DRAINAGE PIPES, LEVELS TO BE REVISED IF MANHOLE LOCATIONS ARE MODIFIED BY CONTRACTOR.
- CONCRETE PROTECTION TO BE PROVIDED AROUND ALL PIPES UNO.
- ALL BRANCH & PERIMETER DRAINAGE ARE TO BE DETAILED BY ARCHITECT.
- PROPRIETARY ACCESS JUNCTIONS TO BE USED TO DEPTHS OF 600mm OR LESS.
- 450x450mm INSPECTION CHAMBERS TO BE USED AT DEPTHS OF 600-1000mm.
- MANHOLES TO DETAILS TO BE USED AT DEPTHS OVER 1000mm.
- ROAD GULLIES TO BE PROVIDED SO THAT MAX AREA CONTRIBUTING TO A SINGLE GULLEY IS 180m².
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH 'RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS', DEPARTMENT OF THE ENVIRONMENT.
- ALL STORM MANHOLE BASES TO BE PRECAST CONCRETE PRE-BENCHED OFF SITE.



GENERAL LEGEND

- PROPOSED SITE BOUNDARY
- EXISTING SPOT LEVEL & ELEVATION
- PROPOSED BUILDING
- EXISTING BUILDING
- PROPOSED UNIT NUMBER
- PROPOSED ROAD & PARKING FALLS
- PROPOSED ENTRANCE ARROW



FOUL DRAINAGE TABLE

SD Pipe Section	U/S CL	U/S IL	D/S IL	Pipe Dia	Gradient	Note
	(m)	(m)	(m)	(mm)	1 in ...	
F1.0 to F1.1	97.650	96.300	95.590	150	60	
F1.1 to F1.2	99.400	95.590	95.475	150	60	
F1.2 to F1.3	99.100	95.475	95.295	150	150	
F1.3 to F1.4	98.400	95.295	95.150	150	150	
F1.4 to F1.5	97.850	95.150	95.075	150	150	
F1.5 to F1.6	97.500	95.075	94.965	225	150	
F1.6 to F1.7	97.330	94.965	94.740	225	150	
F1.7 to F1.8	97.100	94.740	94.710	225	160	
F1.8 to F1.9	97.050	94.710	94.665	225	160	
F1.9 to F1.10	97.000	94.665	94.600	225	160	
F1.10 to F1.11	97.000	94.600	94.425	225	60	
F1.11 to F1.12	97.100	94.425	94.295	225	180	
F1.12 to PS	96.700	94.295	94.235	225	198	
* F2.0 to F2.1	97.200	96.115	95.820	150	60	
* F2.1 to F2.2	97.100	95.820	95.300	150	60	
F2.2 to F1.5	97.250	95.300	95.075	150	150	
F3.0 to F3.1	97.000	95.650	94.990	150	60	
F3.1 to F3.2	96.700	94.990	94.740	150	60	
F3.2 to F1.12	96.800	94.740	94.295	150	20	
F4.0 to F4.1	96.700	95.350	95.205	150	60	
F4.1 to F1.11	96.750	95.205	94.425	150	60	
F5.0 to F1.8	97.400	96.050	95.550	150	60	
F6.0 to EXT	96.400	94.870	94.765	225	45	

NOTE

- * = CONCRETE PROTECTION WILL BE PROVIDED OVER PIPES
- uPVC PIPES ASSUMED AS THE DRAINAGE MATERIAL, PLEASE NOTIFY ENGINEER IF DIFFERENT.
- BD DENOTES BACKDROP MANHOLE

TESTING OF SEWERS:

- FOUL & SURFACE WATER SEWERS TO BE TESTED EITHER BY WATER OR AIR TEST. IF THE AIR TEST IS CARRIED OUT & THE RESULTS SHOW A FAILURE THEN A WATER TEST SHALL BE SUBSEQUENTLY CARRIED OUT TO DETERMINE ACCEPTANCE OR REJECTION.
- WATER TESTS CARRIED OUT SHALL BE TESTED IN UNDER A HEAD OF WATER IN ACCORDANCE WITH BS 8301 1995, & CARRIED OUT FOR A MINIMUM OF 30 MINUTES.
- THE CONTRACTOR IS TO ENGAGE AN ENGINEER WITH PROFESSIONAL INDEMNITY INSURANCE TO SUPERVISE ALL AIR/WATER TESTS ON MAINS BEFORE BACKFILLING.
- ON COMPLETION OF ALL SEWERS DRAINS & GULLIES, ALL SEWERS SHALL BE FLUSHED OUT & LEFT FREE FROM DEFECT & OBSTRUCTION & SUBSEQUENTLY A CCTV SURVEY SHALL BE CARRIED OUT BY AN INDEPENDENT CONTRACTOR OF THE AS BUILT DRAINAGE. THE CCTV SURVEY SHALL INCLUDE A REPORT & DVD & SHALL BE SUBMITTED TO THE ENGINEER & ARCHITECT PRIOR TO PRACTICAL COMPLETION.
- ON COMPLETION OF ALL SEWERS, DRAINS & GULLIES AN AS-BUILT SURVEY MUST BE SUBMITTED INCLUDING LOCATION OF MANHOLES RELATIVE TO THE BUILDING OUTLINE, COVER, INVERT LEVELS & PIPE DIAMETERS TO THE ENGINEER & ARCHITECT FOR THEIR REVIEW PRIOR TO PRACTICAL COMPLETION.

NOTES:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SERVICE ENGINEERS DRAWINGS & SPECIFICATIONS.
- ALL LEVELS ARE STRUCTURAL UNLESS NOTED OTHERWISE.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.
- DO NOT SCALE - WORK TO FIGURE DIMENSIONS ONLY.

Issue register				
Rev.	Date	Description	Drawn	Checked
PL1	01.03.24	PLANNING ISSUE	GG	TD
PL2	31.07.24	RSA COMMENTS INCORPORATED	GG	TD
PL3	09.08.25	PLANNING UPDATE ISSUE	GG	TD
PL4	19.08.25	PLANNING UPDATE ISSUE	GG	TD

PLANNING

PROPOSED FOUL DRAINAGE LAYOUT

Date:	28.02.24	Scale:	1:500 @ A1 / 1:1000 @ A3
Drawn By:	G.GOODSON	Checked By:	T.DELANEY
		Approved By:	N.PATTERSON

Client: LAOIS COUNTY COUNCIL

Job Description: PROPOSED HOUSING DEVELOPMENT TYRRELLS LAND, PORTLOAISE, CO. LAOIS		
Project No:	Drawing Ref:	Rev:
23KK001	C-015	PL4

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