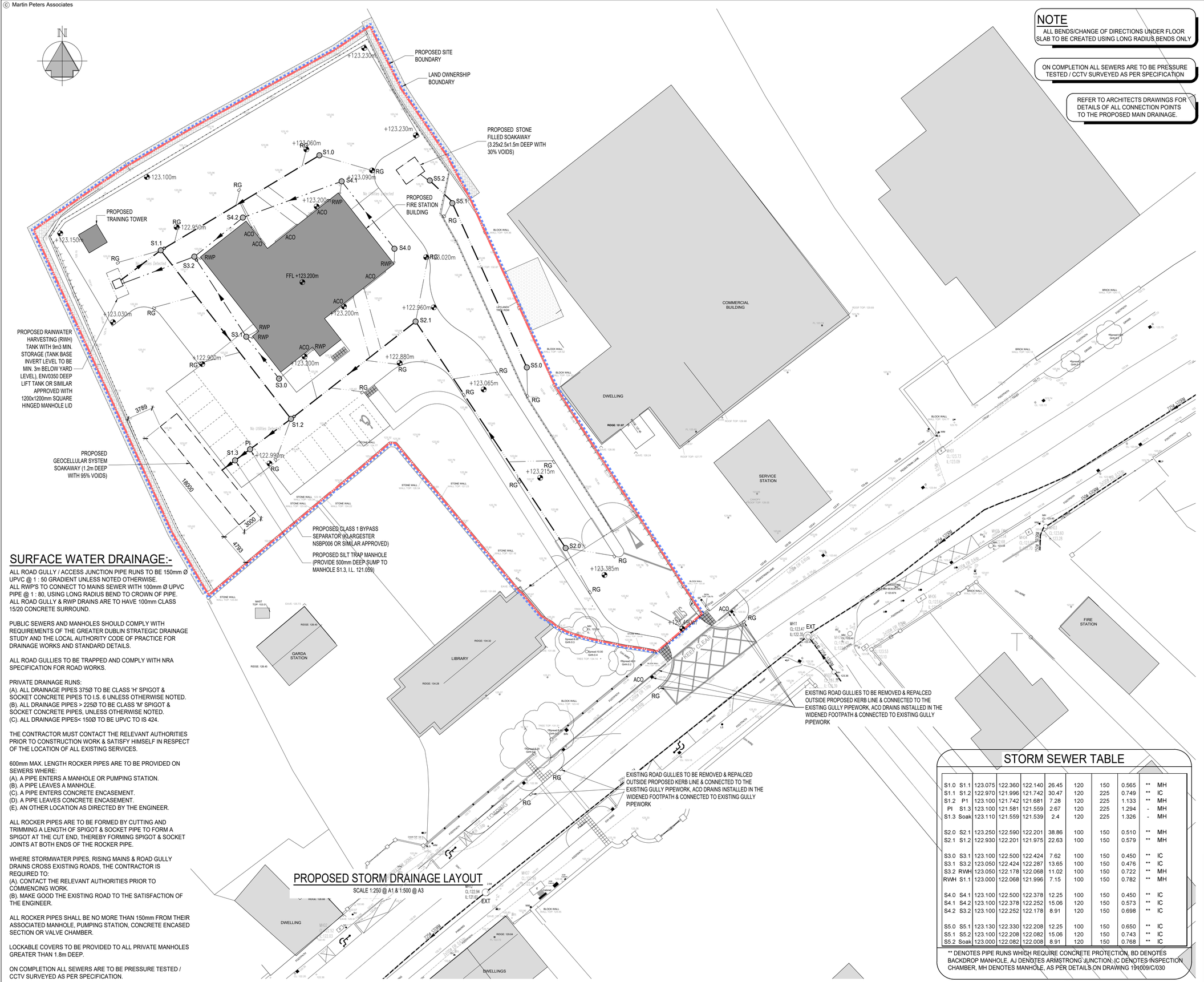
A1



PROPOSED STORM DRAINAGE LAYOUT

SCALE 1:250 @ A1 & 1:500 @ A3

SURFACE WATER DRAINAGE:-

ALL ROAD GULLY / ACCESS JUNCTION PIPE RUNS TO BE 150mm Ø UPVC @ 1 : 50 GRADIENT UNLESS NOTED OTHERWISE.
ALL RWP'S TO CONNECT TO MAINS SEWER WITH 100mm Ø UPVC PIPE @ 1 : 80, USING LONG RADIUS BEND TO CROWN OF PIPE.
ALL ROAD GULLY & RWP DRAINS ARE TO HAVE 100mm CLASS 15/20 CONCRETE SURROUND.

PUBLIC SEWERS AND MANHOLES SHOULD COMPLY WITH REQUIREMENTS OF THE GREATER DUBLIN STRATEGIC DRAINAGE STUDY AND THE LOCAL AUTHORITY CODE OF PRACTICE FOR DRAINAGE WORKS AND STANDARD DETAILS.

ALL ROAD GULLIES TO BE TRAPPED AND COMPLY WITH NRA SPECIFICATION FOR ROAD WORKS.

PRIVATE DRAINAGE RUNS:
(A). ALL DRAINAGE PIPES 375Ø TO BE CLASS 'H' SPIGOT & SOCKET CONCRETE PIPES TO I.S. 6 UNLESS OTHERWISE NOTED.
(B). ALL DRAINAGE PIPES > 225Ø TO BE CLASS 'M' SPIGOT & SOCKET CONCRETE PIPES, UNLESS OTHERWISE NOTED.
(C). ALL DRAINAGE PIPES< 150Ø TO BE UPVC TO IS 424.

THE CONTRACTOR MUST CONTACT THE RELEVANT AUTHORITIES PRIOR TO CONSTRUCTION WORK & SATISFY HIMSELF IN RESPECT OF THE LOCATION OF ALL EXISTING SERVICES.

600mm MAX. LENGTH ROCKER PIPES ARE TO BE PROVIDED ON SEWERS WHERE:
(A). A PIPE ENTERS A MANHOLE OR PUMPING STATION.
(B). A PIPE LEAVES A MANHOLE.
(C). A PIPE ENTERS CONCRETE ENCASEMENT.
(D). A PIPE LEAVES CONCRETE ENCASEMENT.
(E). AN OTHER LOCATION AS DIRECTED BY THE ENGINEER.

ALL ROCKER PIPES ARE TO BE FORMED BY CUTTING AND 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 STORMWATER PIPES, RISING MAINS & ROAD GULLY DRAINS CROSS EXISTING ROADS, THE CONTRACTOR IS REQUIRED TO:
(A). CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK.
(B). MAKE GOOD THE EXISTING ROAD TO THE SATISFACTION OF THE ENGINEER.

ALL ROCKER PIPES SHALL BE NO MORE THAN 150mm FROM THEIR ASSOCIATED MANHOLE, PUMPING STATION, CONCRETE ENCASED SECTION OR VALVE CHAMBER.

LOCKABLE COVERS TO BE PROVIDED TO ALL PRIVATE MANHOLES GREATER THAN 1.8m DEEP.

ON COMPLETION ALL SEWERS ARE TO BE PRESSURE TESTED / CCTV SURVEYED AS PER SPECIFICATION.

STORM SEWER TABLE

S1.0	S1.1	123.075	122.360	122.140	26.45	120	150	0.565	**	MH
S1.1	S1.2	122.970	121.996	121.742	30.47	120	225	0.749	**	IC
S1.2	P1	123.100	121.742	121.681	7.28	120	225	1.133	**	MH
PI	S1.3	123.100	121.581	121.559	2.67	120	225	1.294	-	MH
S1.3	Soak	123.110	121.559	121.539	2.4	120	225	1.326	-	MH
S2.0	S2.1	123.250	122.590	122.201	38.86	100	150	0.510	**	MH
S2.1	S1.2	122.930	122.201	121.975	22.63	100	150	0.579	**	MH
S3.0	S3.1	123.100	122.500	122.424	7.62	100	150	0.450	**	IC
S3.1	S3.2	123.050	122.424	122.287	13.65	100	150	0.476	**	IC
S3.2	RWH	123.050	122.178	122.068	11.02	100	150	0.722	**	MH
RWH	S1.1	123.000	122.068	121.996	7.15	100	150	0.782	**	MH
S4.0	S4.1	123.100	122.500	122.378	12.25	100	150	0.450	**	IC
S4.1	S4.2	123.100	122.378	122.252	15.06	120	150	0.573	**	IC
S4.2	S3.2	123.100	122.252	122.178	8.91	120	150	0.698	**	IC
S5.0	S5.1	123.130	122.330	122.208	12.25	100	150	0.650	**	IC
S5.1	S5.2	123.100	122.208	122.082	15.06	120	150	0.743	**	IC
S5.2	Soak	123.000	122.082	122.008	8.91	120	150	0.768	**	IC

** DENOTES PIPE RUNS WHICH REQUIRE CONCRETE PROTECTION, BD DENOTES BACKDROP MANHOLE, AJ DENOTES ARMSTRONG JUNCTION, IC DENOTES INSPECTION CHAMBER, MH DENOTES MANHOLE, AS PER DETAILS ON DRAWING 191009/C/030

GENERAL NOTES:-

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS & ENGINEERS DRAWINGS & SPECIFICATIONS.
2. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. ALL DISCREPANCIES TO BE NOTIFIED, IN WRITING TO ENGINEERS & ARCHITECTS FOR RESOLUTION.
4. ALL DIMENSIONS ON DRAWINGS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
5. FOR DETAILS AND SETTING OUT OF RWP, SVP, WVP & ALL OPENINGS SEE THE RELEVANT ARCHITECTS DRAWINGS.
6. FOR RADON BARRIER, D.P.C. & INSULATION DETAILS REFER TO ARCHITECTS DRAWINGS.

ABBREVIATIONS:-

BTM	BOTTOM
C/C	CENTRE TO CENTRE
CTRS	CENTRES
SFL	STRUCTURAL FLOOR LEVEL
FFL	FINISHED FLOOR LEVEL
TOC	TOP OF CONCRETE
TP	TOP
TOS	TOP OF STEEL
UNO	UNLESS NOTED OTHERWISE

GENERAL LEGEND:-

- DENOTES SITE BOUNDARY
- DENOTES LAND OWNERSHIP BOUNDARY
- DENOTES EXISTING BUILDINGS
- DENOTES PROPOSED BUILDING
- DENOTES EXISTING LEVELS
- FFL +0.000m — DENOTES PROPOSED BUILDING FINISHED FLOOR LEVEL

STORM DRAINAGE LEGEND:-

- EXT — DENOTES EXISTING STORM SEWER LINE & MANHOLE
- S1.1 — DENOTES PROPOSED STORM SEWER LINE & PROPOSED INSPECTION CHAMBER / MANHOLE
- S3.1 — DENOTES PROPOSED GREY WATER SEWER LINE & INSPECTION CHAMBER / MANHOLE
- DENOTES PROPOSED BACKDROP MANHOLE (SEWER LINE TYPE VARIES)
- RG D — DENOTES PROPOSED ROAD GULLY & CONNECTION PIPE TO THE MAIN STORM SEWER
- ACO — DENOTES PROPOSED ACO DRAIN AS PER THE ARCHITECTS PLANS & CONNECTION PIPE TO THE MAIN STORM SEWER
- RWP — DENOTES PROPOSED RAINWATER PIPE AS PER THE ARCHITECTS PLANS & CONNECTION PIPE TO THE GREY WATER SEWER

Issue Register

No.	Date	Description	Drawn	Checked	Approved
PL1	12/03/21	PLANNING ISSUE	RDS	EJQ	MJP

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Client: KILKENNY COUNTY COUNCIL

Project: FIRE STATION, URLINGFORD, CO. KILKENNY

Drawing Title: PROPOSED STORM DRAINAGE LAYOUT

Project No: 191009 | Scale: A1 - 1:250

Drawing No: 191009/C/005 | Rev: PL1

Drawn: RDS | Checked: EJQ | Date: 08/02/21