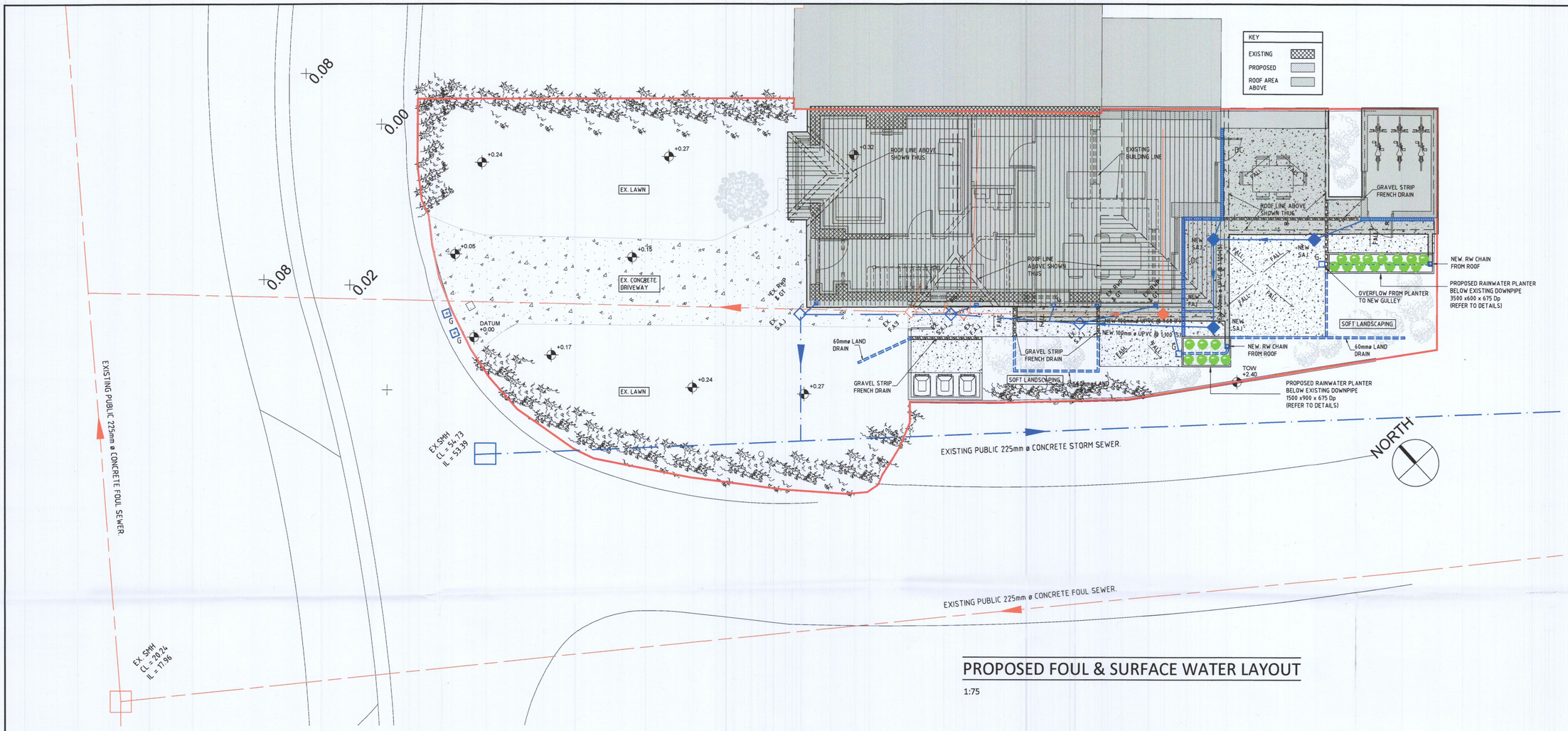

PROPOSED FOUL & SURFACE WATER LAYOUT

1:75

DRAINAGE NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS
2. ALL FOUL SEWERS TO BE FULLY SEALED UPVC PIPES IN ACCORDANCE WITH I.S. EN 1401-1
3. ALL INTERNAL MANHOLE COVERS TO BE DOUBLE SEALED RECESS 'SET-IN' TYPE
4. ALL EXTERNAL MANHOLE COVERS TO BE ROUND GRADE ON 400 E.N. 124
5. ALL EXISTING REDUNDANT PIPEWORK, GULLYS, MANHOLES ETC. TO BE FULLY REMOVED AND BACKFILLED/MADE GOOD ETC. ANY REDUNDANT INTERNAL PIPEWORK TO REMAIN SHOULD BE CAPPED AND FULLY SEALED.
6. CONTRACTOR TO CAREFULLY SURVEY & LOCATE ALL EXISTING DRAINAGE AND ENSURE ALL REMAINING DRAINAGE CONNECTIONS ARE RECONNECTED TO NEW DRAINAGE SYSTEM, INCLUDING EXISTING S.V.P.'S
7. ANY REPAIRS NECESSARY DUE TO DAMAGE BY THE CONTRACTOR WILL BE AT THE CONTRACTORS EXPENSE.
8. ALL WORKS AND TEMPORARY DISCONNECTION OF SERVICES TO BE PHASED AND AGREED WITH THE CLIENT AND DESIGN TEAM.
9. PRIOR TO COMMENCEMENT, CONTRACTOR TO CARRY OUT FULL INVESTIGATION INCLUDING CCTV SURVEY AND LEVELS ETC. OF ALL EXISTING DRAINAGE.
8. CONTRACTOR TO CARRY OUT PRESSURE TESTING OF ALL NEW DRAINAGE FOR INSPECTION BY THE ENGINEER AND TO CARRY OUT A CCTV SURVEY OF COMPLETED DRAINAGE NETWORK. SURVEY OF INVERT LEVEL OF ALL PIPES AND ACCESS POINTS TO BE SENT TO THIS OFFICE FOR APPROVAL PRIOR TO BACKFILLING.
9. ALL WORKS TO FOUL LINE TO CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE & WASTEWATER INFRASTRUCTURE STANDARD DETAILS (LATEST VERSIONS BY IRISH WATER.)
10. ALL DRAINS WITH COVER LESS THAN 0.6m IN PAVED AREAS AND LESS THAN 1.2m UNDER ROADS TO BE WRAPPED IN A MEMBRANE AND BEDDED AND SURROUNDED IN C20/25 CONCRETE. A 20mm GAP SHALL BE PROVIDED IN THE CONCRETE SURROUND AT PIPE JOINTS AND NOT MORE THAN 6m APART. ALL OTHER PIPEWORK SHALL BE BEDDED AND SURROUNDED IN GRANULAR MATERIAL TO SPECIFICATION.

EXISTING DRAINAGE NOTES

1. CONTRACTOR TO CARRY OUT A DILAPIDATION SURVEY OF THE EXISTING CORRIDOR AND COURTYARD AND ALL AREAS INTERESTED BY THE UPGRADE WORKS PRIOR TO COMMENCEMENT.
2. CONTRACTOR TO ALLOW FOR NECESSARY STORAGE/OVERPUMPING OF SEWAGE DURING THE DURATION OF THE WORKS TO ENSURE EXISTING TOILET FACILITIES ARE OPERATIONAL.
3. CONTRACTOR PARKING, DELIVERY AND STORAGE TO BE FULLY AGREED WITH CLIENT PRIORI TO COMMENCEMENT.
4. CONTRACTOR TO ALLOW FOR ALL NECESSARY RE-CONNECTION OF EXISTING BRANCHES/OUTLETS ETC TO REPLACEMENT SEWER THAT MAY NOT BE SHOWN ON DRAWINGS.

LEGEND:

- EX FMH — EXISTING FOUL SEWER — EX FMH
- FMH — PROPOSED FOUL SEWER — FMH
- EX SMH — EXISTING STORM SEWER — EX SMH
- SMH — PROPOSED STORM SEWER — SMH
- REDUNDANT PIPEWORK
- F.A.J. S.A.J. = PROPOSED A.J. WAVIN 315 WAJ UP TO 600mm DEPTH (OR SIMILAR APPROVED) (GALVANISED LIDS AND SEATING TO ALL A.J's)
- F.I.C. S.I.C. = PROPOSED INSPECTION CHAMBER. WAVIN TEGRA 600 (OR SIMILAR APPROVED) (GALVANISED LIDS AND SEATING TO ALL I.C's)
- BIGT = BACK INLET GULLEY TRAP
- R.W.D.P = RAIN WATER DOWN PIPE (REFER TO ARCHITECTS DRAWINGS FOR LOCATIONS)
- RG = ROAD GULLEY
- DC = DRAINAGE CHANNEL
- = PROPOSED LEVELS
- = EXISTING LEVELS

PROPOSED SUDS PROVISION

SUSTAINABLE URBAN DRAINAGE SYSTEM (SUDS) PROVISION

IT IS PROPOSED TO PROVIDE A SUDS PROVISION FOR THE DEVELOPMENT IN THE FORM OF TWO FLOW-THROUGH RAINWATER DOWNPIPE GARDEN PLANTERS.

1. ONE SERVING THE PROPOSED REAR SINGLE STOREY KITCHEN/DINING ROOM EXTENSION ROOF,
2. THE OTHER TO THE PROPOSED STORAGE / BBQ ROOF RUN-OFF.

DETAILS FOR THE FLOW-THROUGH PLANTERS ARE DETAILED BELOW.

THE ROOF RAINWATER, NOTED ABOVE, WILL DISCHARGE DIRECTLY TO THE RAINWATER PLANTERS. TYPICALLY, WATER WILL SOAK INTO THE SOIL IN THE PLANTER AND BE TAKEN UP INTO THE PLANTING. DURING HEAVY RAINFALL, EXCESS WATER WILL POND IN THE PLANTER, WHICH IS THEN PROPOSED TO OVERFLOW TO SURFACE WATER GULLIES.

THE RAINWATER PLANTERS PROPOSED WILL SLOW THE FLOW OF RAINFALL FROM THE PROPOSED ROOF AREAS TO THE DRAINAGE SYSTEM. THE STONE, SAND & SOILS, AND THE VEGETATION IN THE PLANTER WILL PROVIDE INFILTRATION AND TREATMENT OF THE RUN-OFF BY REMOVING POLLUTANTS AND REDUCE THE NEED OF OFFSITE CONVEYANCE.

IN ADDITION TO THE ABOVE, THE PROPOSED PAVING TO THE SIDE AND REAR OF THE EXTENSION IS PROPOSED TO BE DRAINED TO THE GARDEN VIA GRAVEL STRIPS WITH LAND DRAINS. THIS IS TO RECREATE THE EXISTING SITUATION.
(NOTE: THE MAJORITY OF THE REAR PATIO IS COVERED BY ROOF AREA THAT IS PROPOSED TO BE DISCHARGED TO THE RAINWATER PLANTERS)

RAIN GARDEN FLOW-THROUGH PLANTER BOX DETAIL

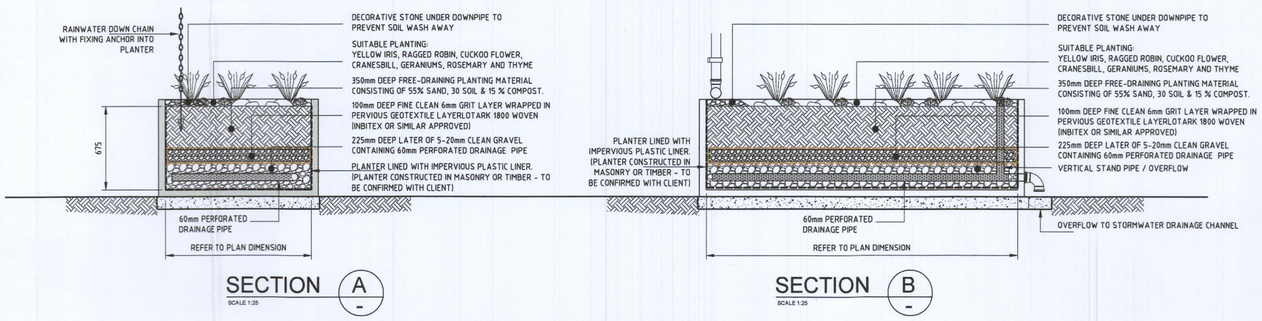

IMAGE EXAMPLE OF RAIN GARDEN PLANTER BOX DETAIL

(FROM SOUTH DUBLIN COUNTY COUNCIL PUBLICATION, A HOUSEHOLDERS GUIDE TO SuDS)

REV:	DESCRIPTION:	DATE:
A	ADDITIONAL INFROMATION	01/04/23

STATUS: ADDITIONAL INFORMATION

CUNNINGHAM
CIVIL & STRUCTURAL ENGINEERS
T: 01 558 9793
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E: info@cccs.ie
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Blackrock
Co. Dublin

CLIENT: DERMOT & MARGARET FINNERTY

ARCHITECT: BRENNAN FURLONG ARCHITECTS
VERNON HOUSE, 2 VERNON AVE
CLONTARF 3

PROJECT: ALTERATIONS & EXTENSION TO 2 HAYDEN'S PARK VIEW, LUCAN, Co. DUBLIN

TITLE: FOUL & SURFACE WATER LAYOUT

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
AS SHOWN	MARCH' 23	JM	GC

PROJECT NO:	DRAWING NO:	REVISION:
22040	10	A