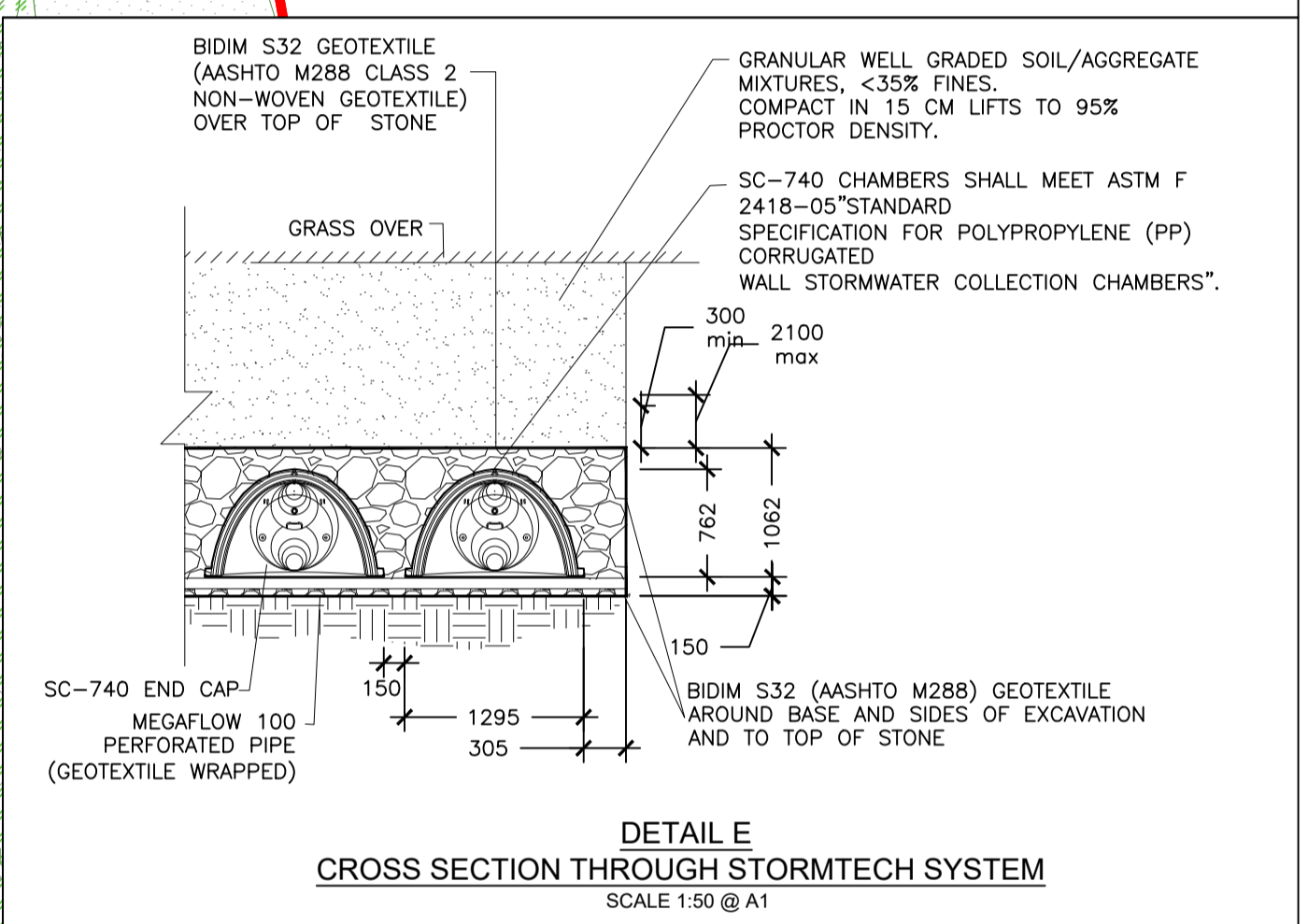


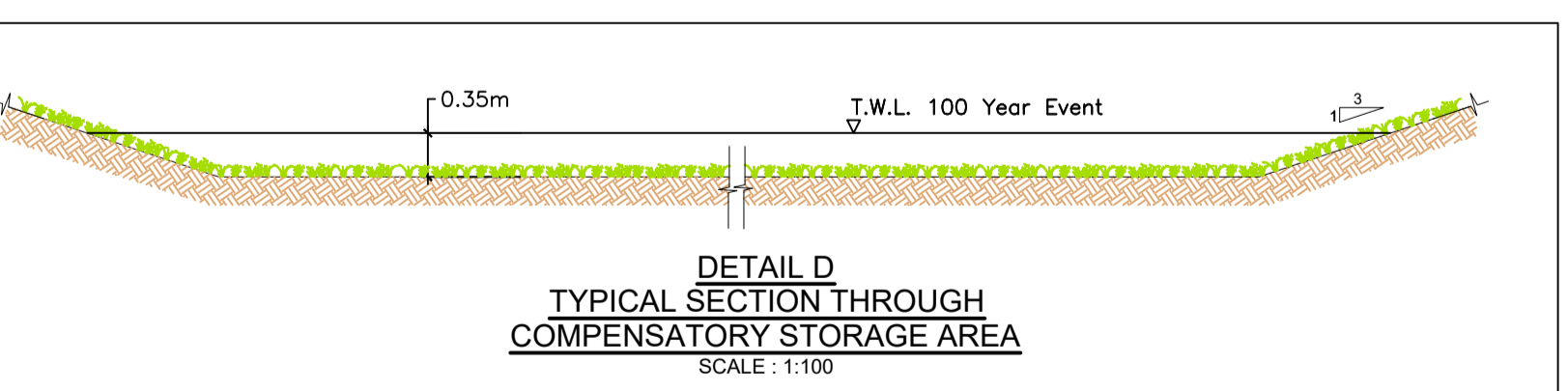
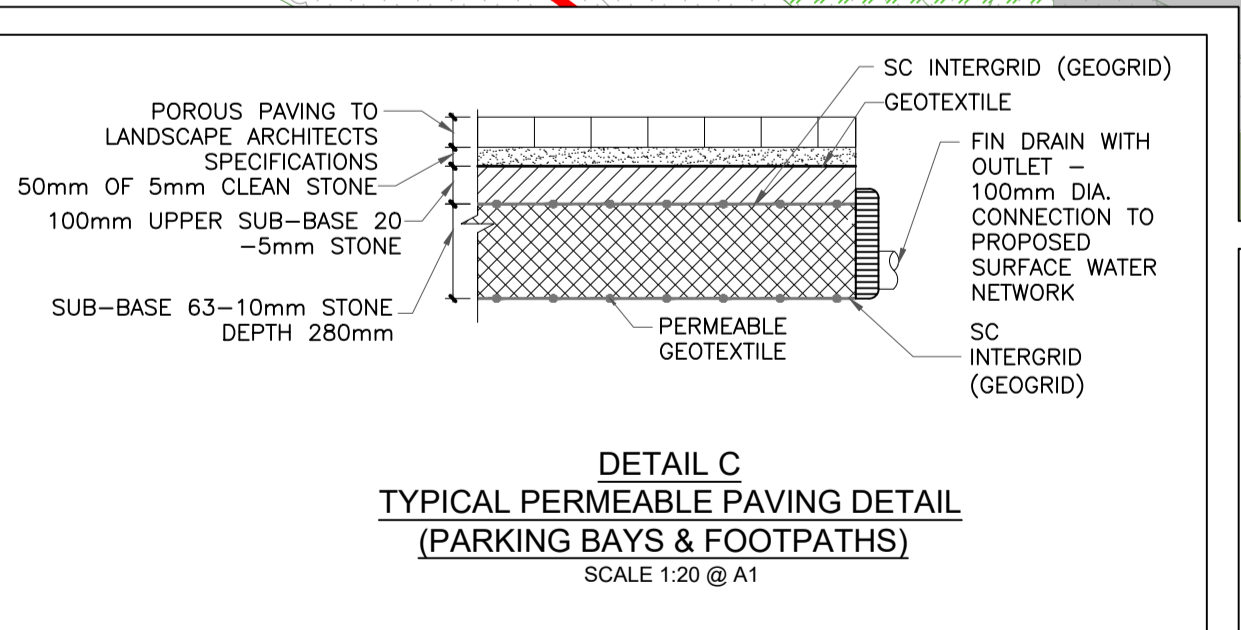
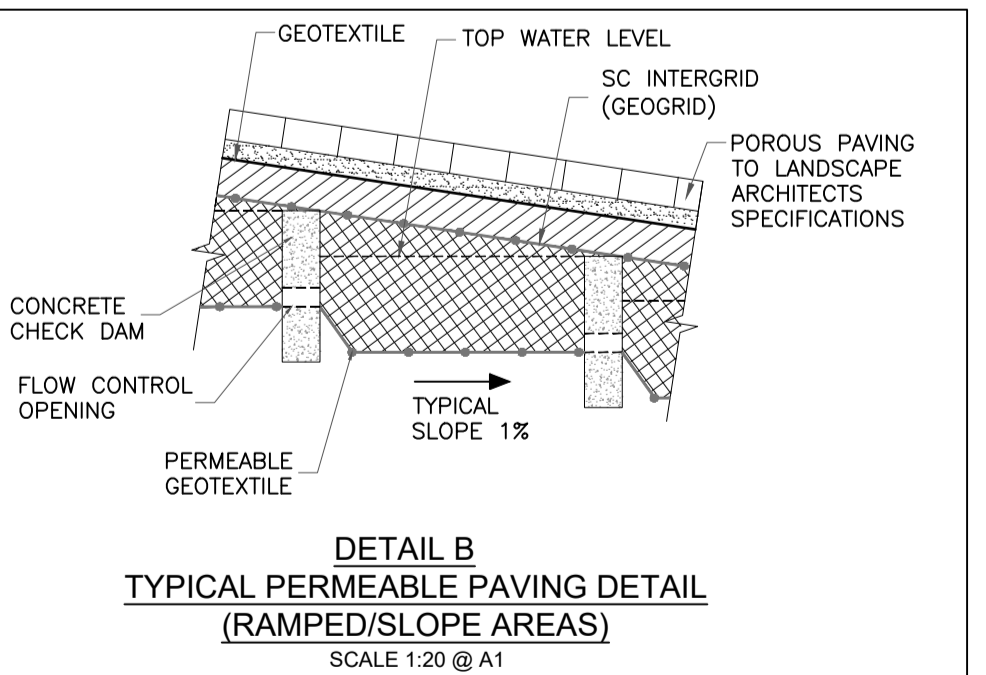
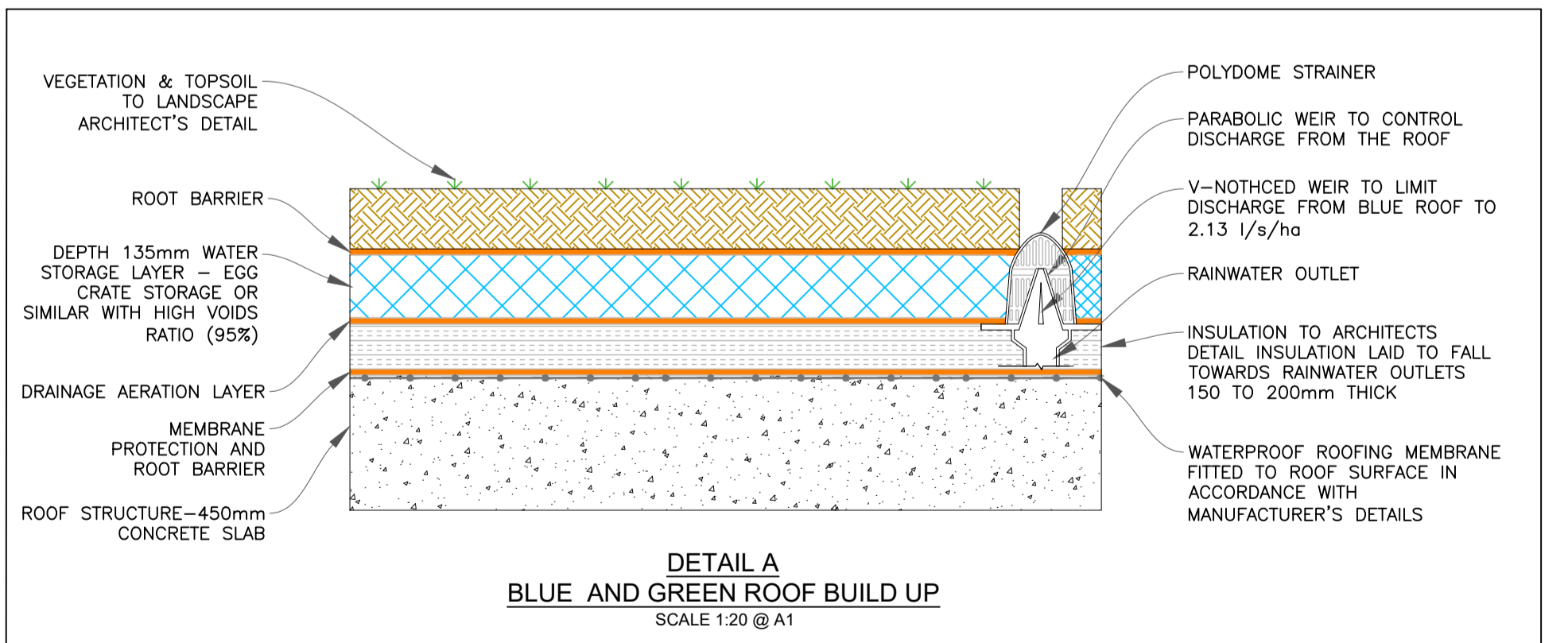
LEGEND:

- Redline Boundary
- Proposed Blue / Green Roof - Depth 135mm Thick Water Storage Layer
- Proposed Permeable Paving - 220mm Thick Sub-base Storage Layer
- Proposed Surface Water Carrier Pipe
- Existing Surface Water Carrier Pipe
- Proposed Surface Water Manhole
- Existing Surface Water Manhole
- Proposed detention basin
- Proposed Flood Compensatory Storage
- Proposed Surface Water Fin Drain

- Notes:**
- This drawing is to be read in conjunction with the Engineering Services Report.
 - All drainage to be constructed in accordance with the Greater Dublin Regional Code of Practice for Drainage Works and Local Authority Requirements.
 - Apartment connection (omitted for clarity) shall comprise 100mm dia. (min) pipes discharging to the adjacent Surface Water Sewer.
 - Surface water attenuation and SuDS proposals shall comprise of Permeable Paving and Blue / Green Roofs and a StormTech underground attenuation.
 - Runoff from the proposed development shall be restricted to 2.13 l/s/ha (QBAR) which equates to 0.80 l/s.
 - Attenuated runoff from development to discharge to existing public network.
- Attenuation Requirements**
- Total attenuation required: 296.81m³ = 112.78 m² roofs / 71.05 m² road / 112.98 m² Parking bays and footpaths
 - Total volume provided in roofs: 116.84 m³
 - Total volume provided in stormtech underground attenuation: 120 m³
 - Total volume provided in parking bays and footpaths: 112.98 m³
 - Total storage provided: 349.82 m³



PLAN LAYOUT
SCALE: 1:200 @ A1



No.	Revision	Date	By	Chkd	App'd
P01	WORK IN PROGRESS	16/08/2023	AS	CMG	SK
P02	WORK IN PROGRESS - ISSUED FOR CO-ORDINATION PURPOSES	29/08/2023	AS	CMG	SK
P03	PLANNING SUBMISSION	29/09/2023	AS	CMG	SK

ROD
ROUGHAN & O'DONOVAN
Consulting Engineers
Civil - Structural - Transportation - Environmental

Arena House, Arena Road, Sandyford, Dublin 18, Ireland
t +353 (0) 1 294 0800
f +353 (0) 1 294 0820
www.rod.ie

Project Title	HOUSING AT HOLYWELL, SWORDS, COUNTY DUBLIN												
Drawing Title	SURFACE WATER DRAINAGE LAYOUT Sheet 1 of 1												
Drawing Number	HHP	-	ROD	-	XX	-	XX	-	DR	-	C	-	0030
Scale (A1)	1:200	Date:	AUGUST 2023	Job No:	23.130	Rev:	P03						