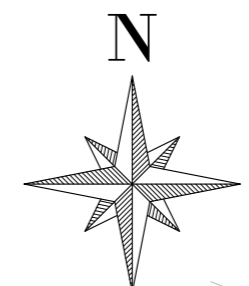
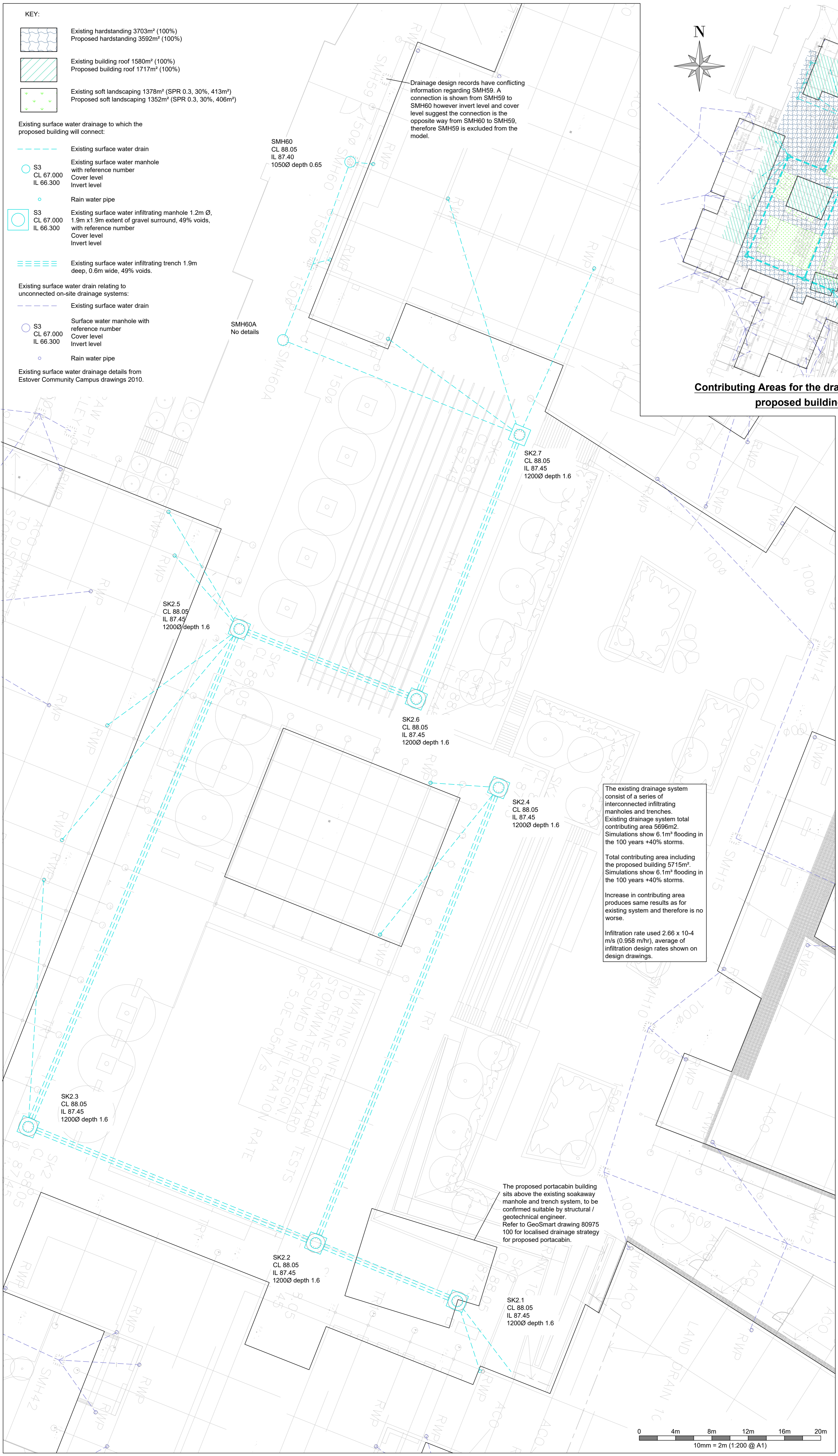


- KEY:**
- Existing hardstanding 3703m² (100%)
Proposed hardstanding 3592m² (100%)
 - Existing building roof 1580m² (100%)
Proposed building roof 1717m² (100%)
 - Existing soft landscaping 1378m² (SPR 0.3, 30%, 413m²)
Proposed soft landscaping 1352m² (SPR 0.3, 30%, 406m²)
- Existing surface water drainage to which the proposed building will connect:
- Existing surface water drain
 - Existing surface water manhole with reference number
Cover level
Invert level
 - Rain water pipe
 - Existing surface water infiltrating manhole 1.2m Ø,
1.9m x 1.9m extent of gravel surround, 49% voids,
with reference number
Cover level
Invert level
 - Existing surface water infiltrating trench 1.9m
deep, 0.6m wide, 49% voids.
- Existing surface water drain relating to unconnected on-site drainage systems:
- Existing surface water drain
 - Surface water manhole with reference number
Cover level
Invert level
 - Rain water pipe
- Existing surface water drainage details from Estover Community Campus drawings 2010.



Contributing Areas for the drainage system to which the proposed building will connect



The existing drainage system consist of a series of interconnected infiltrating manholes and trenches. Existing drainage system total contributing area 5696m². Simulations show 6.1m³ flooding in the 100 years +40% storms.

Total contributing area including the proposed building 5715m². Simulations show 6.1m³ flooding in the 100 years +40% storms.

Increase in contributing area produces same results as for existing system and therefore is no worse.

Infiltration rate used 2.66 x 10⁻⁴ m/s (0.958 m/hr), average of infiltration design rates shown on design drawings.

The proposed portacabin building sits above the existing soakaway manhole and trench system, to be confirmed suitable by structural / geotechnical engineer. Refer to GeoSmart drawing 80975 100 for localised drainage strategy for proposed portacabin.

- Notes:**
1. Do not scale from this drawing.
 2. All dimensions are in millimeters unless otherwise stated.
 3. This drawing to be read in conjunction with all other relevant drawings and documents.
 4. All drainage to be constructed to SSG Design and Construction Guidance, current British standards and building regulations and other relevant standards.
 5. Exact locations of rain water downpipes and other internal drainage down pipes to be confirmed by architect / M&E engineer. Internal SVPs and other internal foul drainage to be designed by M&E engineer. Rain water pipe connections to have rodding access, sump and grated cover. Above ground drainage and pipes to be designed by M&E engineer. Contractor to confirm locations of existing services prior to commencement on site and to arrange for any necessary diversions, lowering or protection works as required.
 6. All specialist drainage components such as attenuation tanks, flow control and pumping stations to be designed and installed as per manufacturers requirements.
 7. Cover levels to be confirmed by landscape architect. Cover levels and invert levels are in meters unless otherwise stated. If cover levels change from assumed then drainage design should be re-assessed, especially in regards to extreme events.
 8. Extent of linear drainage channel to perimeter of building and thresholds to highway boundary to be confirmed by architect, design as per manufacturer. Linear channels to have rodding access, sump and grated cover. Linear drains to manufacturer design.
 9. Infiltration features to be positioned at least 1m above ground water table and focused infiltration features to be positioned 5m from buildings and 10m from other infiltration systems unless otherwise specified by a structural / geotechnical engineer.
 10. Private surface water pipes to be 1000Ø with minimum fall of 1:100 unless otherwise stated.
 11. Private foul pipes to be 100mm Ø with minimum fall of 1:40 unless a WC is connected then minimum gradient 1:80, unless otherwise stated.
 12. Minimum cover to thermoplastic pipes in garden or patio areas 0.6m, in driveway 0.9m, in road 1.2m, otherwise concrete protection will be required.
 13. Access chamber cover class A15 for garden and patio, B125 for driveway, C250 for lightly trafficked roads or small private carparks.
 14. As the site has previously been developed an existing suitable discharge point may already be present on the site. A survey of existing drainage should be undertaken to confirm.
 15. Design is for planning purposes only and not for construction. Design should be confirmed prior to construction to ensure all available information is considered and any assumed information should be verified.
 16. Design is based on pdf print. Design should be verified and checked once accurate digital information is available.
 17. Design should be reviewed in light of any additional information or on validation or otherwise of any assumptions. The design incorporates the use of a pump. If the electricity or pump fails the property could flood. Pump and ring main design by others.

P01	09.04.24	Initial issue	MG	DS
Rev	Date	Detail	Drwn	Chkd

Client: **MBSS Ltd**

Project: **Cann Bridge School
Two Storey Building
Classroom Special School**

Drawing Title: **Existing Surface Water
Drainage Layout**



Suite 9-11, 1st Floor, Old Bank Buildings, Bellstone, Shrewsbury, SY1 1HU

Drawn by:	Checked by:	Date:
MG	DS	April 2024

Scale:	Status:
1:200 @ A1	Preliminary
Drawing No:	Issue:
80975 102	P01

