

Section C-C 1:100

**SPECIFICATION**

**Decking**  
Deck may be Timber, Metal or Concrete and shall be designed by the project engineer. All deck types must be free from pitting and projections and should be suitably finished to receive the vapour controlling layer.  
The deck must be constructed to have a minimum cross fall, to roof drains of 1 in 80 after all deflection and tolerance calculations.  
Where decking is to be laid to an angle of 10 degrees or greater, consult with the Moy Materials Tech. Dept.

**Surface Preparation**  
Primer - Apply Impertene bitumen primer at ratio 4m. Sq. per litre and Allow to dry.  
Vapour Control Layer  
Parabase 3kg modified bitumen vapour barrier membrane torch bonded with 100mm side and end laps, sealed and detailed to envelope insulation board.  
Where high internal water vapour pressure is anticipated, consult Moy Materials Ltd. for advice on 'oil cored vapour barriers.

**Thermal Insulation**  
Paratorch PIR foam composite bitumen impregnated Hunton fibreboard faced insulation to achieve the specified thermal performance value. Install butt jointed and staggered, incorporating 75mm Moy Materials Ltd. angle fillets at upstands and kerbs.

**Waterproofing Base Layer**  
Paralon Top 5 3mm Polyester reinforced (non woven textile reinforced) Elastoplastic modified bitumen base sheet membrane, with Ter motene hot melt film finish to underside modified bitumen base sheet membrane fully bonded with 100mm side and end laps.

**Cap Sheet**  
Paralon NT4 4mm Anti Root, British & Irish Agreement Board Certified, BS476 AA fire rated 4.8kg / M2 sanded surface, non woven continuous polyester thread reinforced, metalocenic resin modified, root resistant, Elastoplastic modified bitumen compound membrane with 100mm side and 150mm end laps.

The substrate shall be clean and dry. Membrane shall be installed using a propane gas torch, by a registered installer of the Paralon roof waterproofing system. All stages of the installation shall be monitored by the waterproofing system manufacturers and regular site inspection reports shall be submitted to the project Architect's and Main Building Contractor.

Carry out visual inspection and waterproofing integrity test prior to installation of green roof system.

**General Detailing**  
Parapets and Exposed Field Area - Form Paralon upstand detail at parapet upstands extending membranes to form continuous D.P.C. under cappings. Paralon ARD/HS plus to be used on all upstands and all field areas to be exposed while in service. Form upstands to terminate a minimum of 150mm above the finished surface levels with Paralon membrane termination under approved metal cover flashing or clamping bar detail.

Form all upstands to terminate not less than 150mm above the finished level of the vegetation layer or pebble boarder as appropriate. I Determined Parameters, provided by the Roof Waterproofing System Supplier or Project Engineer / Architect.

**Drainage**  
Roof Outlets - Install Harmer AV Cast Aluminium Anti Vortex Outlets by Moy Materials Ltd. sized in accordance with project specific rainwater design calculations to BS EN 12056, cast in LM6 Aluminium Silicone Alloy to BS 1490:1988. complete with clamping ring and domical metal leaf grating, sized and supplied by waterproofing system manufacturer and incorporated in total roof system warranty.

**Inspection & Irrigation Box** Install APP KSE15 Inspection Box with lockable cover and drainage openings. Surround inspection box with 300mm wide band of washed round gravel nominal size 30mm.

**Diadem Extensive Green Roof Elements**  
Protective Fleece  
Install VLU 300 Protective Fleece with 100mm end and side laps.  
Drainage & Reservoir Board  
Install CE approved Diadem DE-25 Drainage and Reservoir Board, overlap at sides and ends by one row.

**Filtration Fleece**  
Install polypropylene VLF-150 filtration fleece. Overlap by 100mm at side and end laps. At edges and terminations dress filtration fleece up to beneath the surface of the vegetation support course.

**Root Zone Growth Medium**  
Install minimum 50mm deep layer of FLL compliant standard extensive roof garden growth substrate by Moy Materials Ltd.

**Vegetation Layer**  
Install Moy Materials Ltd. Irish Grown, pre-cultivated sedum mix blanket, containing the following species;  
Sedum Acre Aureum, Sedum Album Coral Carpet, Sedum Album mini, Sedum Album Aithum, Sedum Hispanicum, Sedum Summer Glory, Sedum Reflexum, Sedum Weihenstephaner Gold, Sedum Voodoo.

The blanket shall be installed in whole blankets of 1 x 1.5m at all perimeters. Blanket shall be installed on the day of delivery and shall be thoroughly watered in with a sprinkler head hose or watering can. Ensure regular watering until the Sedum blanket layer has become well established. Do not allow any foot traffic or the storing of materials upon the installed sedum blanket.  
(Alternate varieties include Grass / Herb / Sedum mixes and reinforced mixes for high pitch roof applications).

**Pebble Boarders**  
Install a boarder 400mm wide of round washed pebbles with a nominal diameter of 25 - 50mm at roof perimeters and at all penetrations of the structural slab such as vents and roof lights. Pebble used shall be free of fines and cracked or broken stone. Install Diadem: KLS-10 recycled PE gravel board 100mm high.

**Or**  
Install Diadem: KLS-12 stainless steel / Galv. Steel / Aluminum 120mm high separation device.

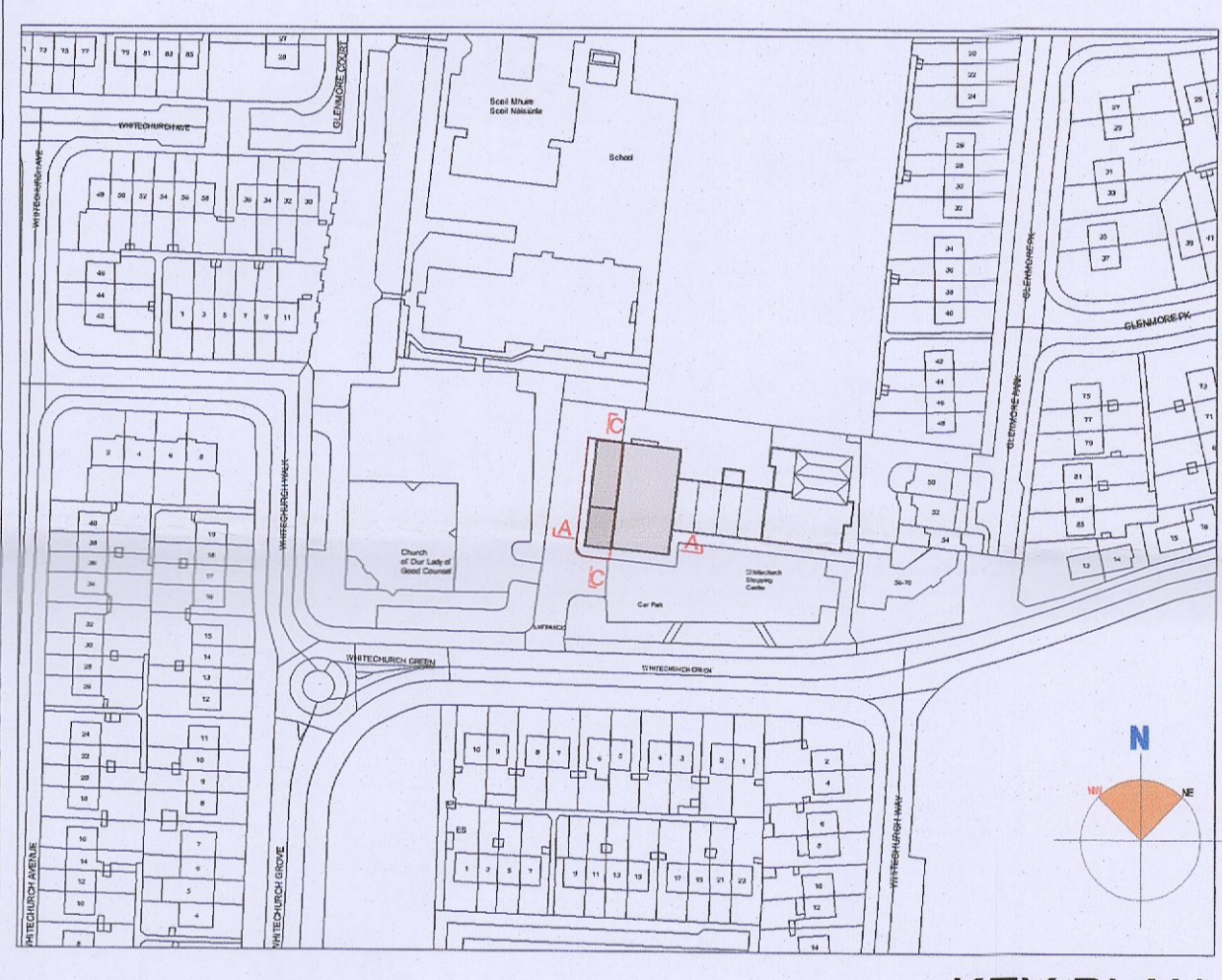
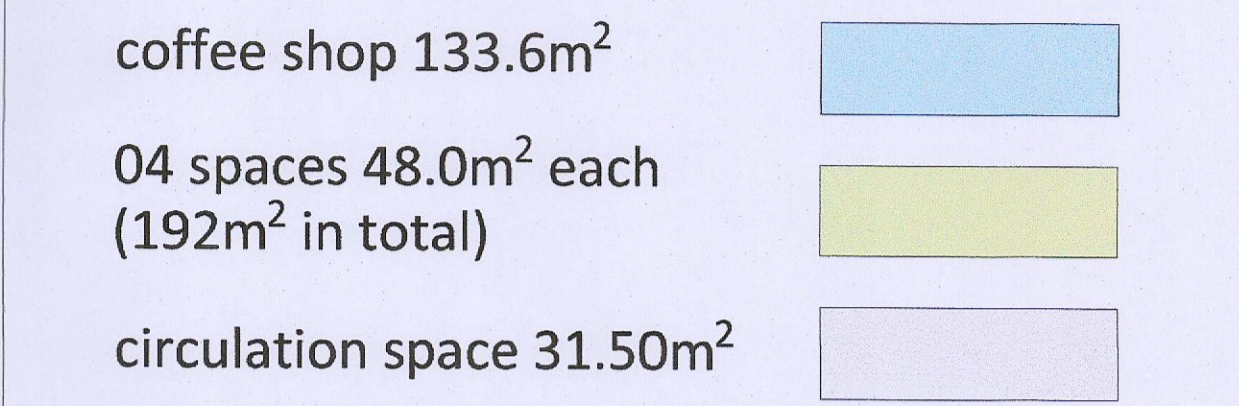
**Detailing**  
A wide range of proprietary components are available for separation and demarcation of pedestrian and green areas. There are numerous options for the treatment of roof edges and for drainage at terminations and thresholds. Please consult with the Technical Dept. at Moy Materials Ltd. for advice on available options.

**Maintenance**  
Access to the green roof is via a openable AOV in the common area of the third floor and using a fall arrest system for safety.  
Extensive green roof systems are inherently low maintenance, but shall require a minimum of two maintenance visits annually.

NOTE:  
Do not scale from this drawing, written dimensions only to be used. This drawing is for planning purposes only & not for construction. Levels shown are for information purposes only & may not relate to O.S. Main Head Datum.  
For actual O.S. Main Head Datum always refer to the Site Layout Plan.  
DDA Architects Ltd. retain copyright and ownership of this design which is not transferable.

**MATERIALS**

- BRICK:** Cooksbridge or similar approved.
- PARAPET:** Grey Aluminum to parapet, smooth finish
- RENDER:** White Render Finish
- WINDOWS:** UPVC Frame with RAL 2016 colour finish



**Proposed Site Boundary** (Red line)  
**Site Ownership** (Blue line)

PROJECT  
**CENTRA, WHITECHURCH, RATHFARNHAM**

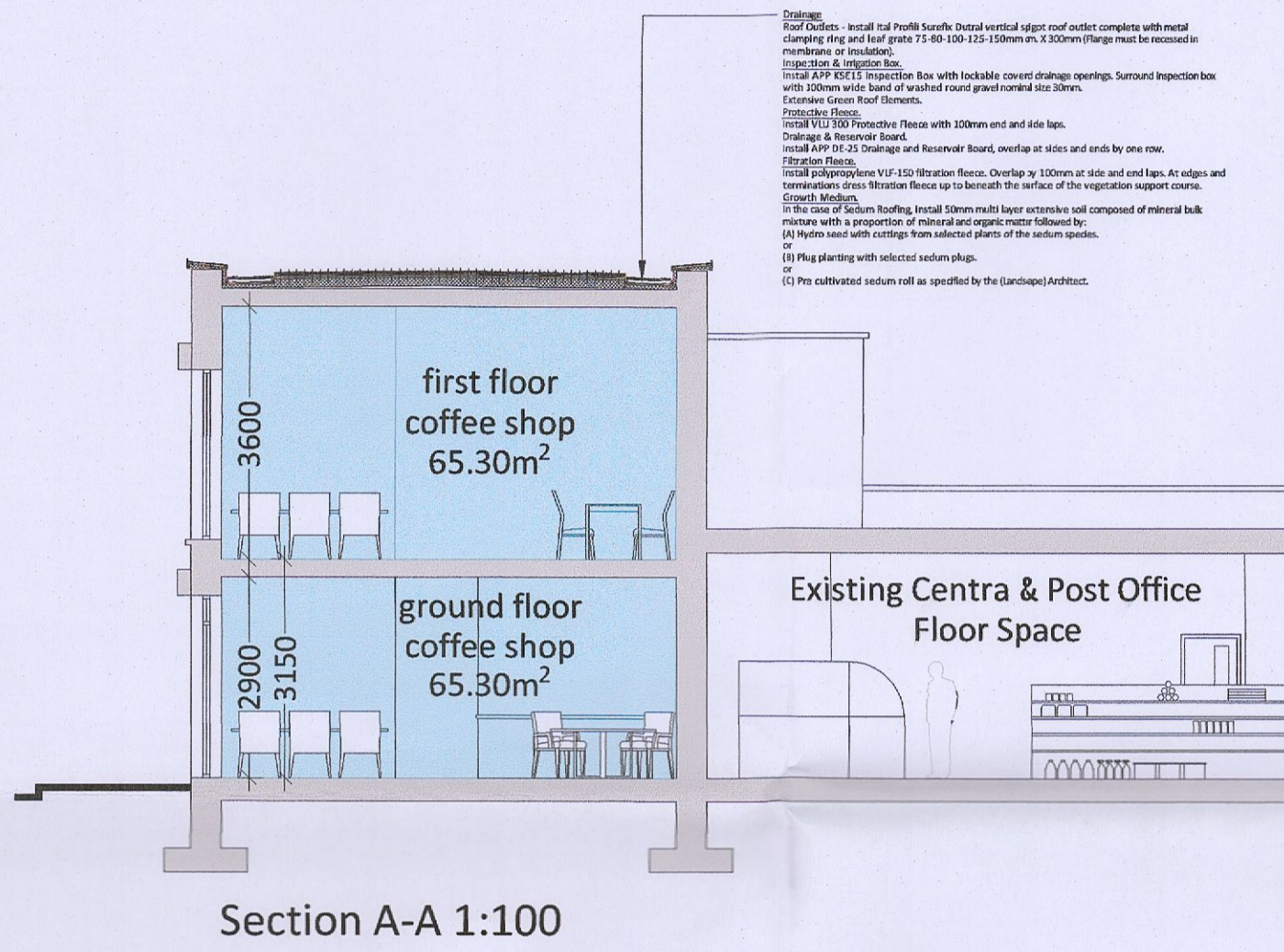
CLIENT  
**DAMIEN & PETER FUREY**

**DDA** Dughan Dooley Architects ARCHITECTS AND PLANNING CONSULTANTS  
62 Brighton Square, Rathgar, Dublin 6, D06A TV29  
Tel: +353 (0)1 490 0499  
Email: info@ddaarch.ie  
Web: www.ddaarch.ie

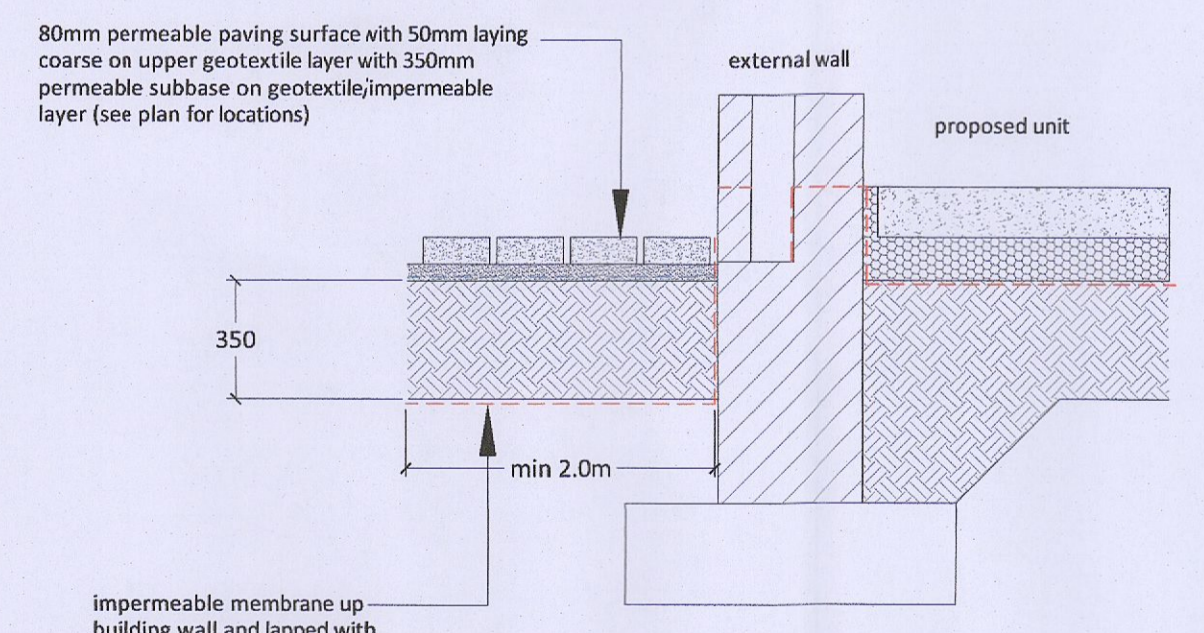
**RIAI** The Royal Institute of Architects in Ireland

DRAWING TITLE  
**PROPOSED GREEN ROOF & SUDS DETAILS**

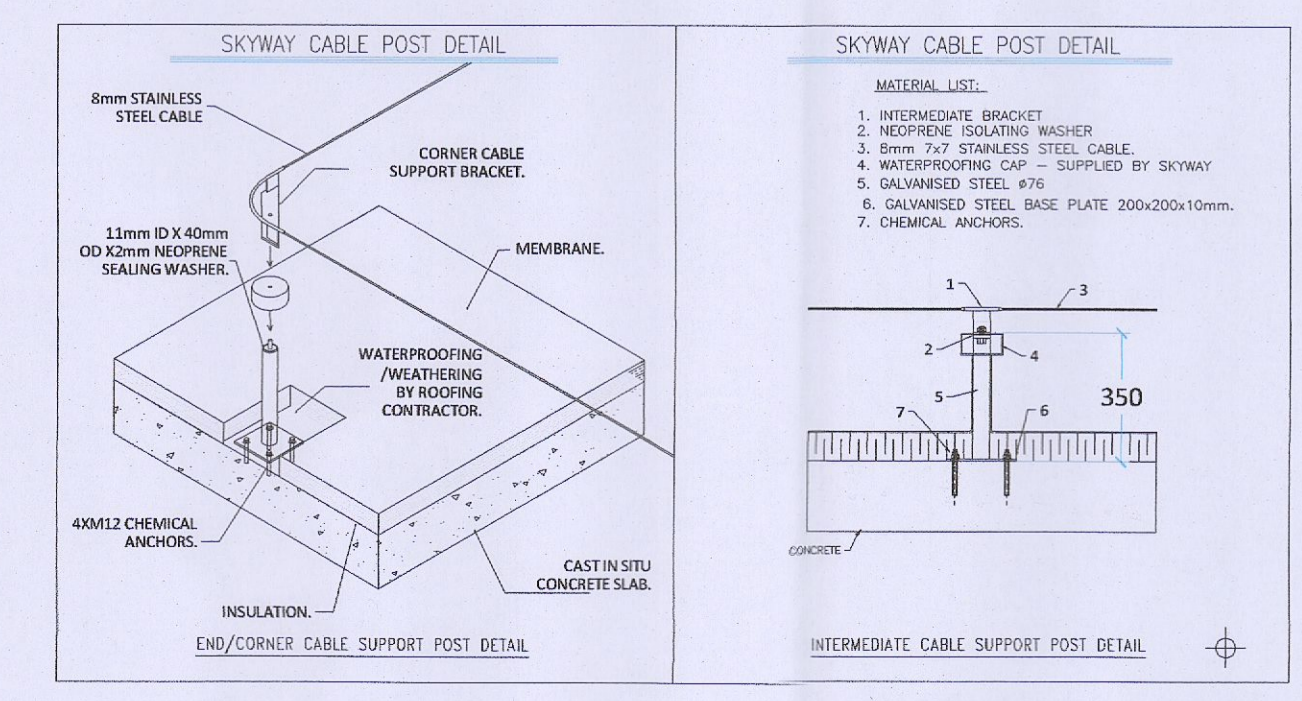
SCALE @ A3: <b>1:100@A1 &amp; 1:20@A1</b>	STAGE: <b>PLANNING SUBMISSION</b>
DRAWN BY: <b>AC</b>	CHECKED: <b>PD</b>
PROJECT NO: <b>22-004</b>	DATE: <b>July 2022</b>
DRAWING NO: <b>22-004-FI-22.010</b>	REVISION: <b>-</b>



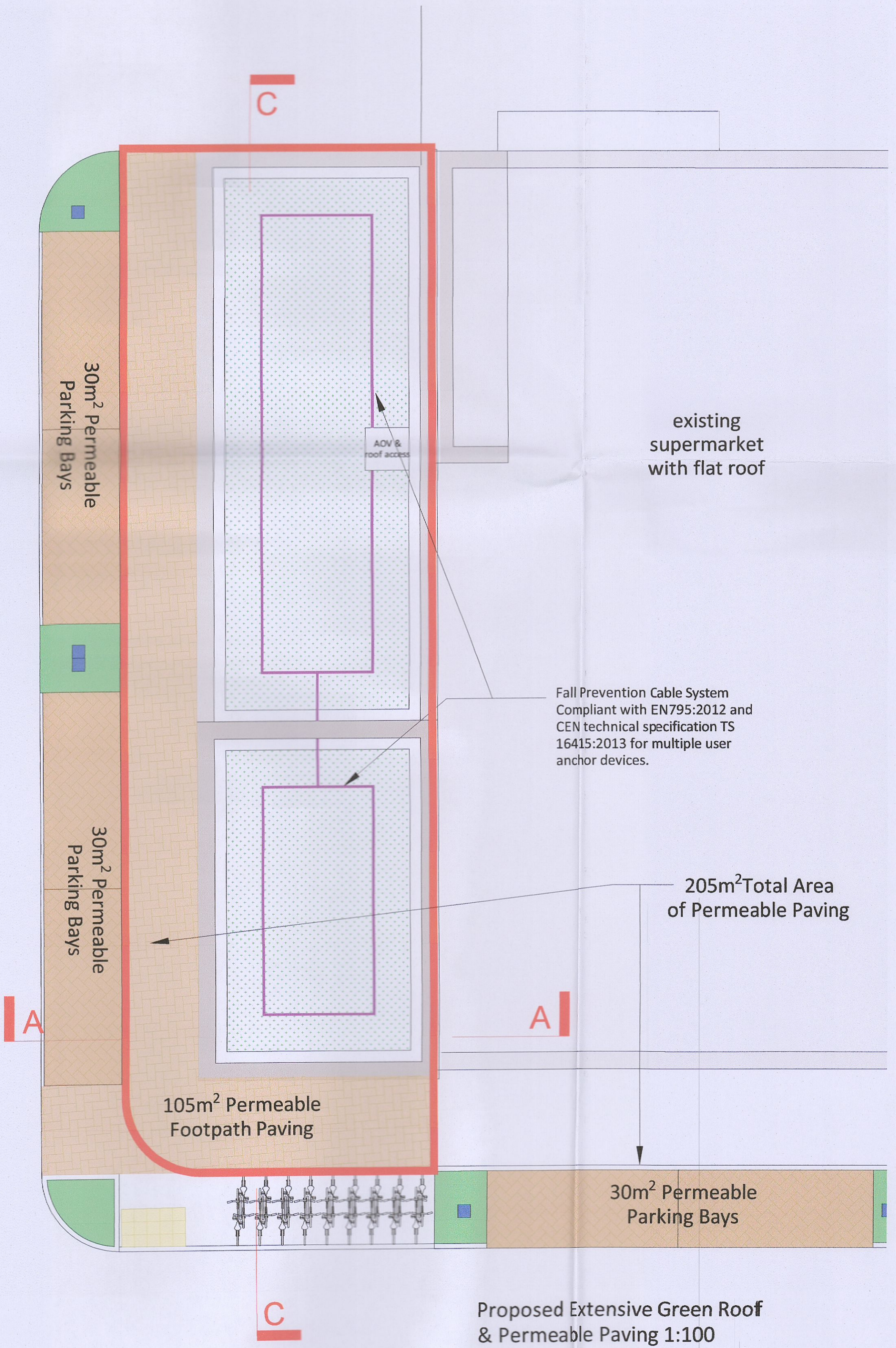
Section A-A 1:100



Typical Permeable Paving Detail 1:20



Fall Arrest System Details (nts)



Proposed Extensive Green Roof & Permeable Paving 1:100