

Notes:

Proposed Solar Carport installation consists of single and double (gulls wing) cantilevered car ports to suit single or double bay car parking layouts.

The design consists generally of structural laminated timber support frames typically at 7.5 metre (3 car bay) centres - with other bay widths used to adjust to best fit where appropriate.

Laminated structural timber purlins span between the laminated timber frames and support extruded aluminium slide in mounting rails with integral surface water drainage channels / cross channels.

Laminated timber main frame columns are bolted to galvanised steel above ground foundation beams anchored to the ground using 4No. Spirafix ground anchors (foundation size / anchor number to be confirmed by pull out tests)

Where car park surface is laid to fall bases are to be levelled using threaded rods / nuts / washers and any gaps between base on ground filled with appropriate structural grout.

Solar panels and slide in mounting rails are to be installed from below using suitable scissor lift platforms or other staging once the main laminated timber structure has been erected.

PLANNING

Revision	Description	Date	Drawn



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Client: Endress & Hauser Ltd

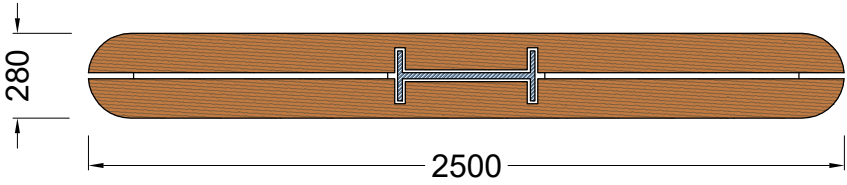
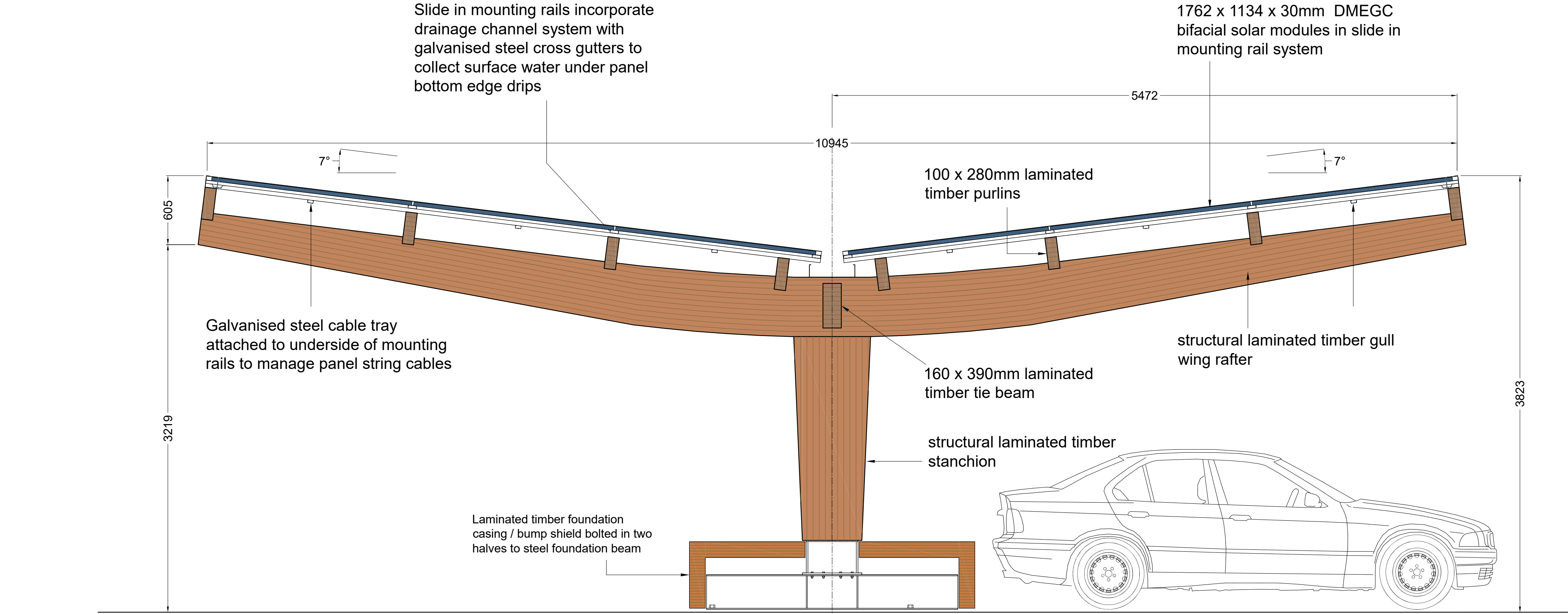
Project: Roof & Carport mounted Solar PV - Manchester M23 9NF

Drawing: Solar Carport Side Elevations / Sections (Timber Frame)

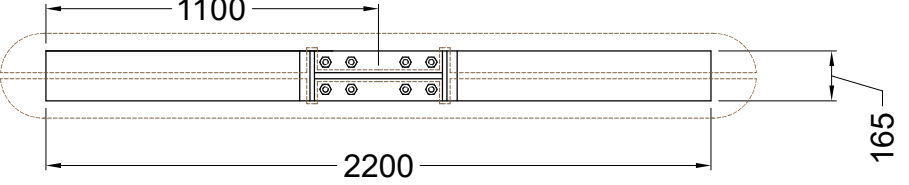
Scale: 1:25 @ A1 Drawn by: RTH

Date: November 2024 Checked by:

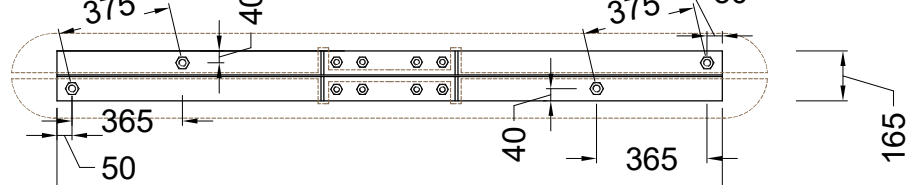
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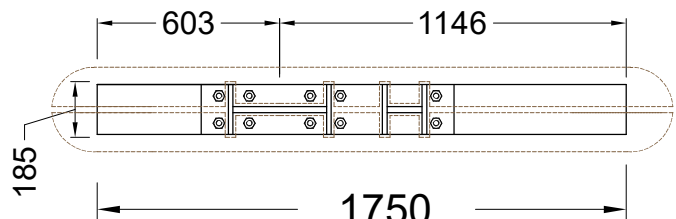
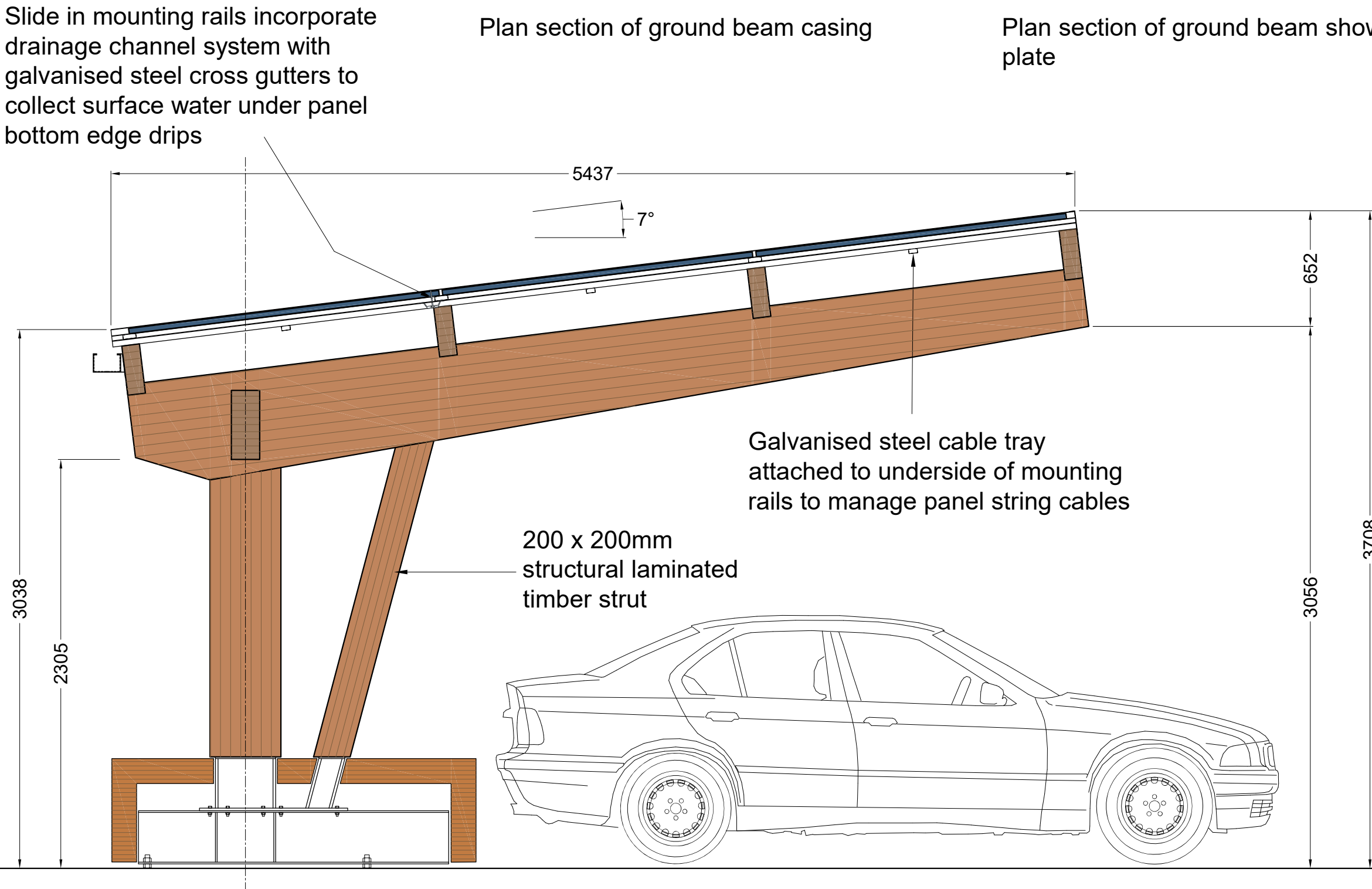
Plan section of ground beam casing



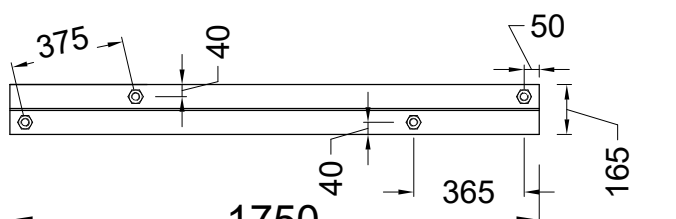
Plan section of ground beam showing stanchion bolting plate



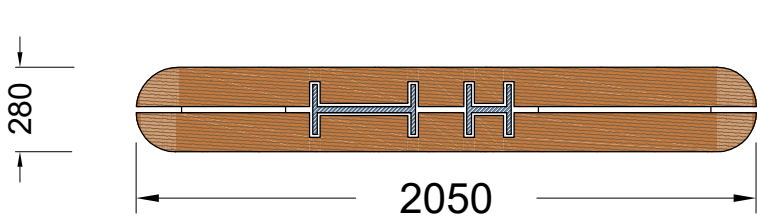
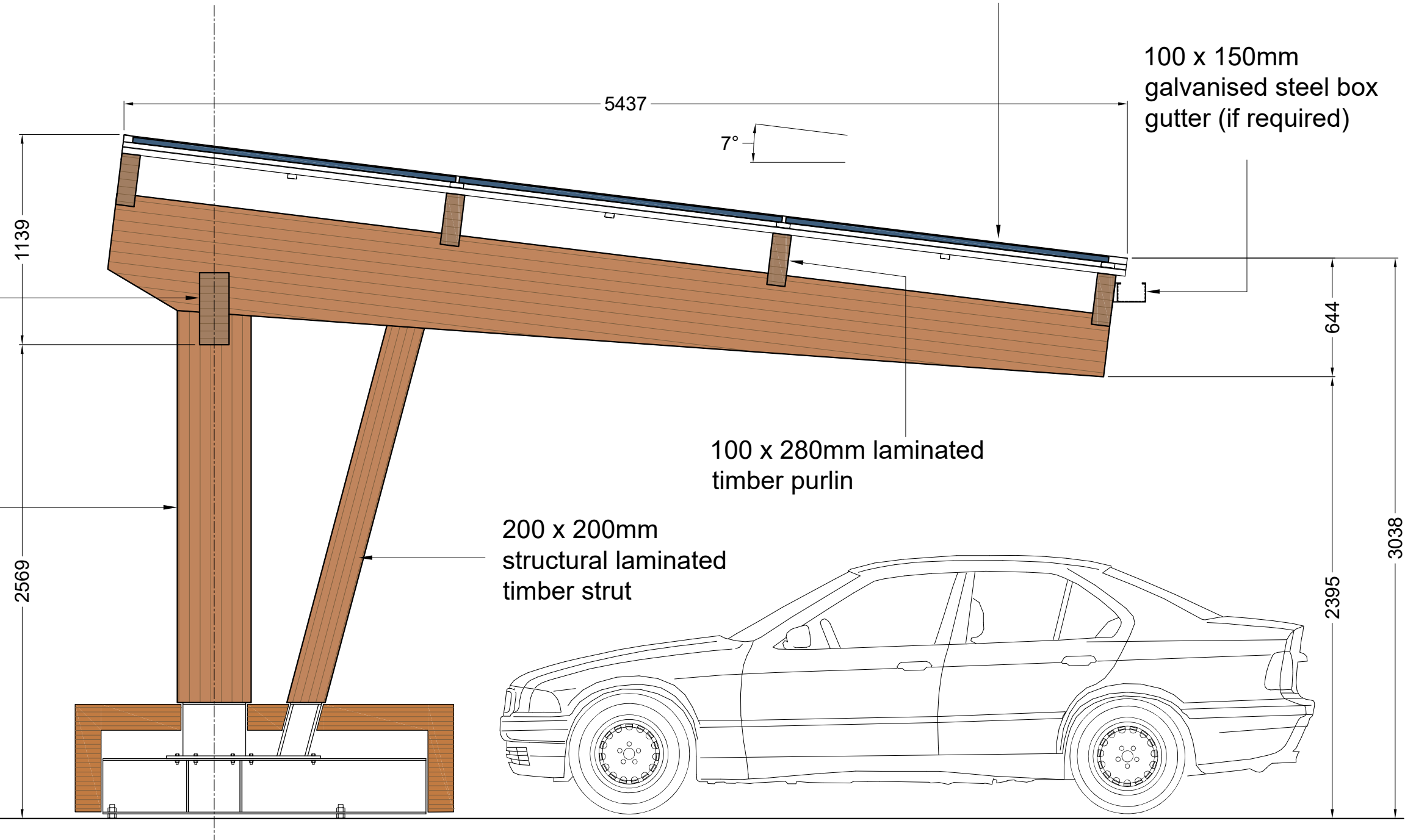
Plan section of ground beam showing ground anchor points



Plan of frame base



Plan section of ground beam showing ground anchor points



Plan section of ground beam casing