

APPENDIX 3

DAYLIGHTING ENVELOPES



- 3.1 Calculation of daylighting angle
- 3.2 Daylighting envelope
- 3.3 Daylighting envelope for maximum HEIGHT on northern boundary of Devon Street within the BUSINESS A ENVIRONMENT AREA
- 3.4 Daylighting envelope for maximum HEIGHT on southern boundary of Devon Street within the BUSINESS A ENVIRONMENT AREA
- 3.5 HEIGHT of BUILDING relative to ROAD and SIDE BOUNDARIES within the INDUSTRIAL F ENVIRONMENT AREA
- 3.6 Location of boundaries facing south west, south and south east
- 3.7 Daylighting envelope for SHELTER BELTS and PLANTATION FORESTRY within the RURAL ENVIRONMENT AREA

Diagram 3.1 Calculation of daylighting angle

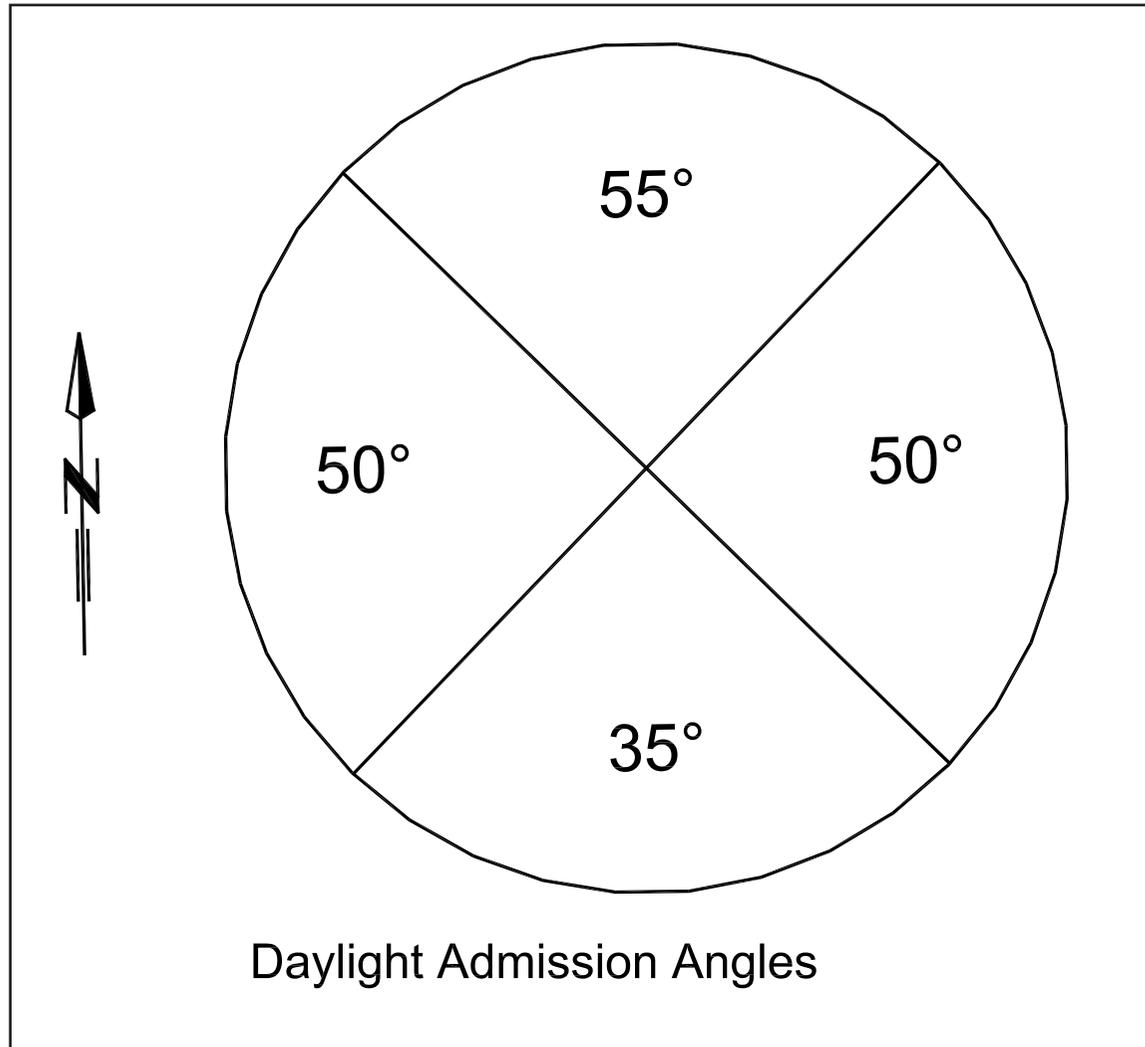
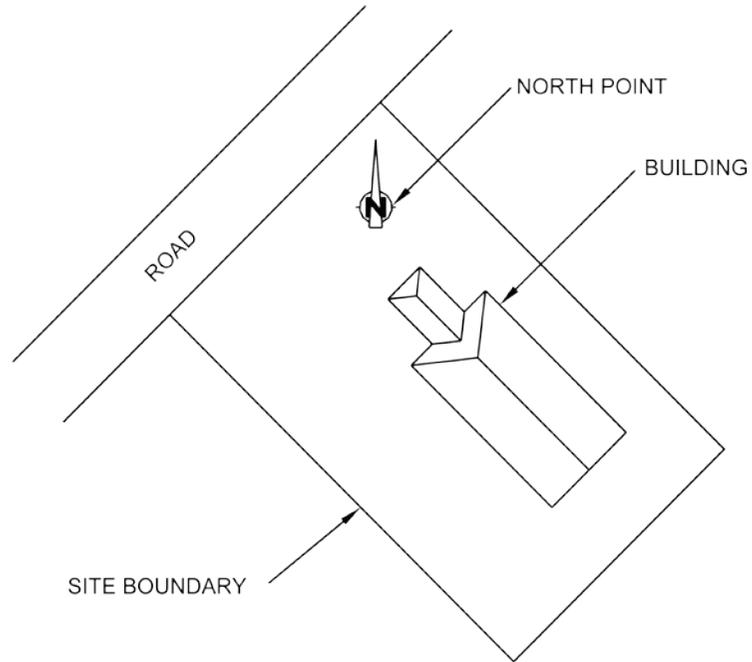


Diagram 3.1 Calculation of daylighting angle

1. Orient the building plan towards the north as shown below.



2. Place the daylight admission angles circle (see sheet 1) on the plan so the north point is pointing in the same direction as that on the building plan and the circle is touching the inside of the site boundary concerned (as shown below).

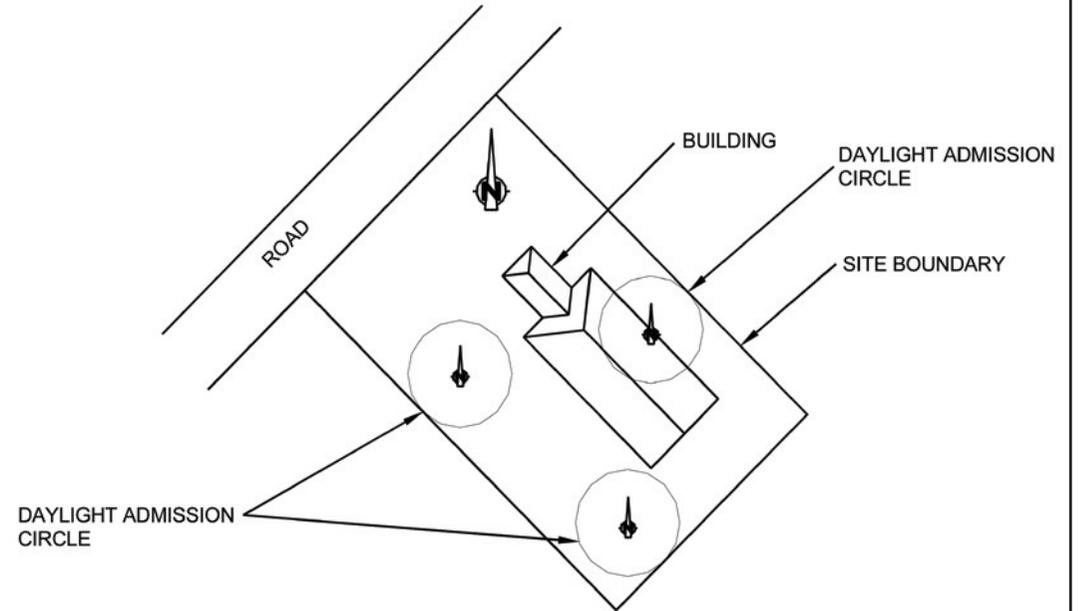


Diagram 3.1 Calculation of daylighting angle

3. Read off the angle closest to the point (arc) of contact of the circle to the site boundary. This is the daylight angle that should be used to calculate the daylighting envelope.

4. If the closest point of contact of the circle to the site boundary occurs on the line between angles on the daylight admission angles circle, the smaller angle should be used to calculate the daylighting envelope as shown below.

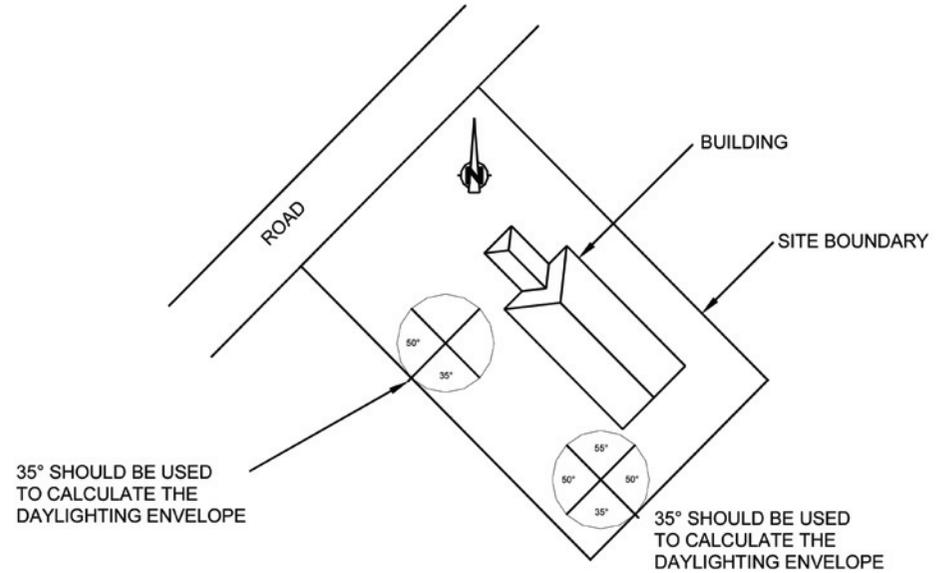
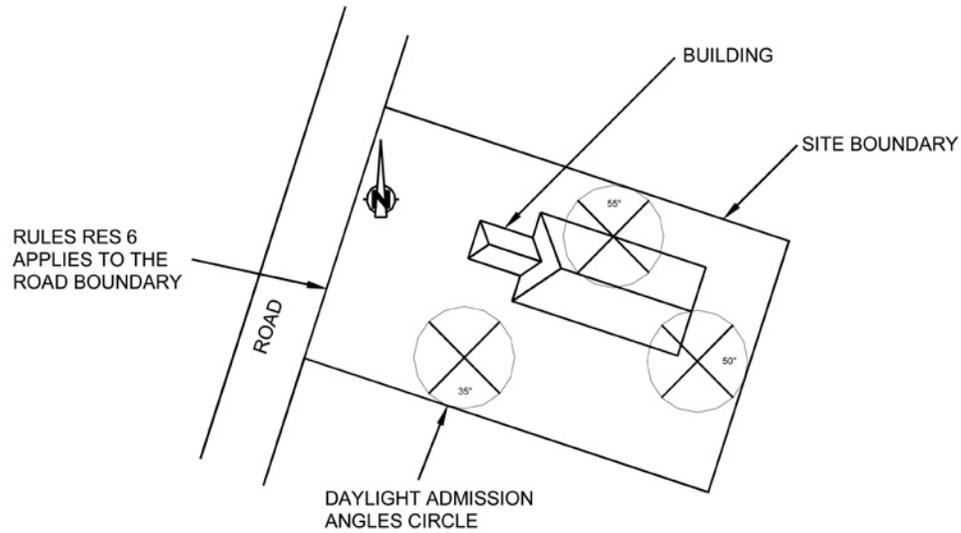


Diagram 3.2 Daylighting envelope

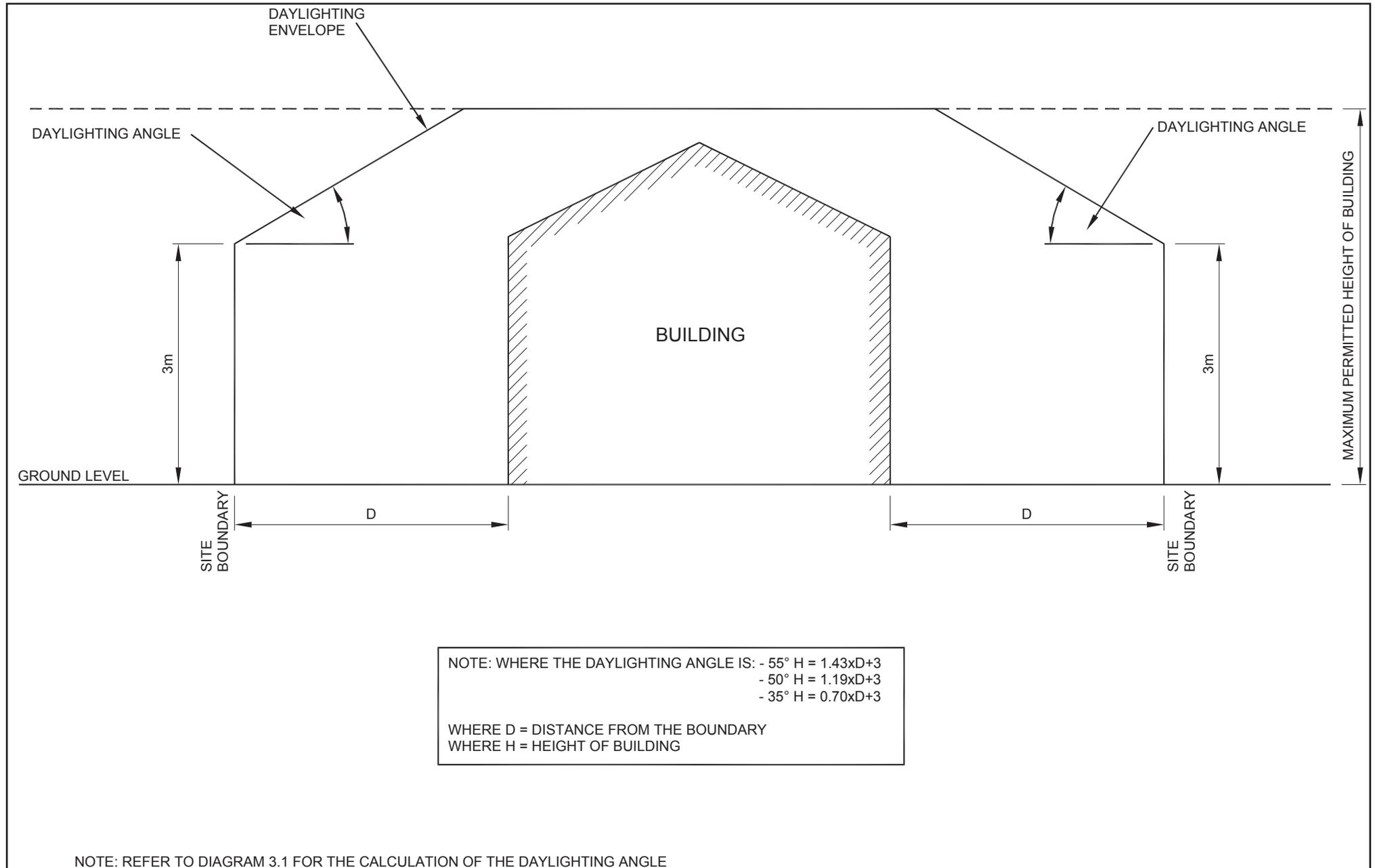


Diagram 3.3 Daylighting envelope for maximum HEIGHT on northern boundary of Devon Street within the BUSINESS A ENVIRONMENT AREA

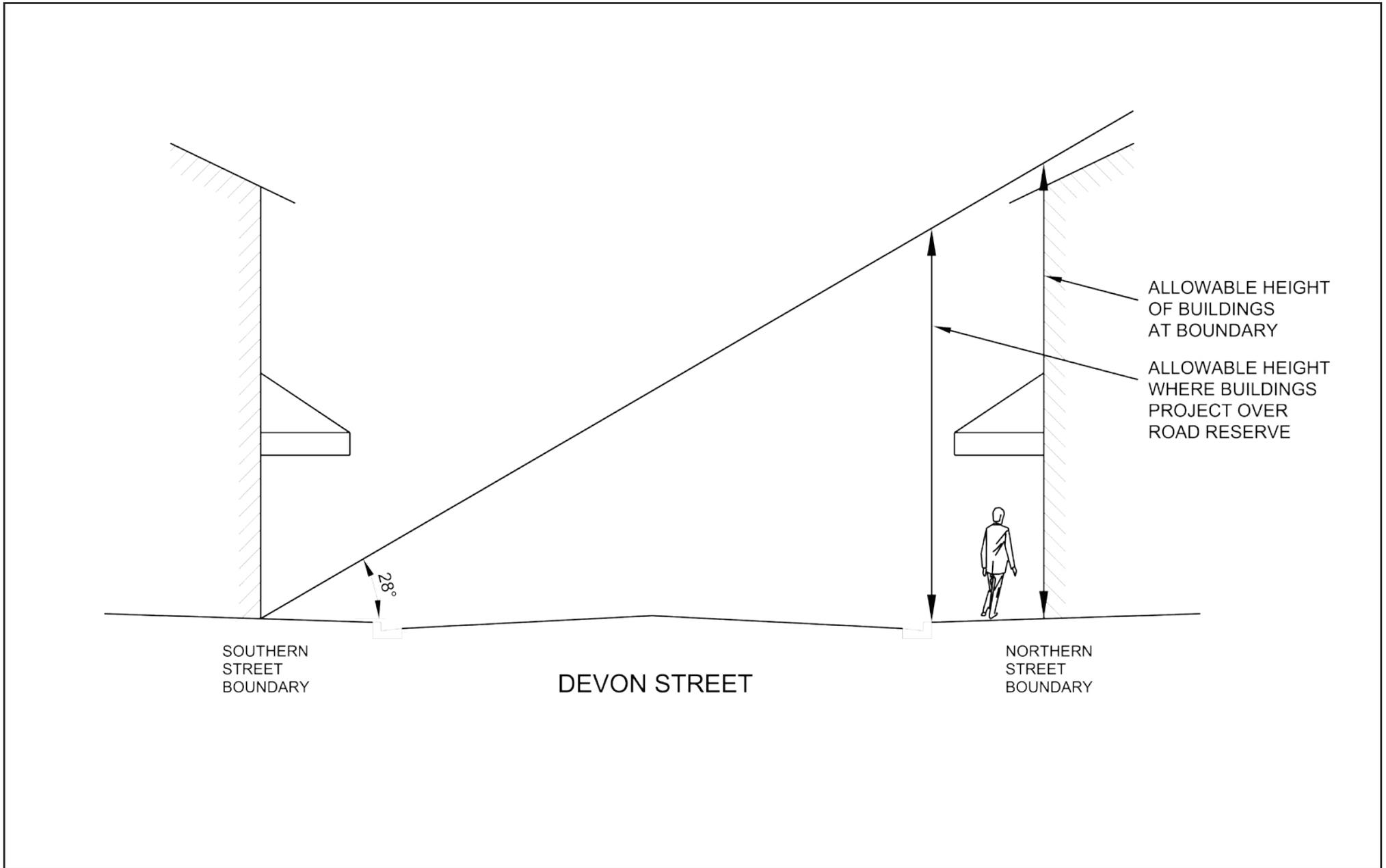


Diagram 3.4 Daylighting envelope for maximum HEIGHT on southern boundary of Devon Street within the BUSINESS A ENVIRONMENT AREA

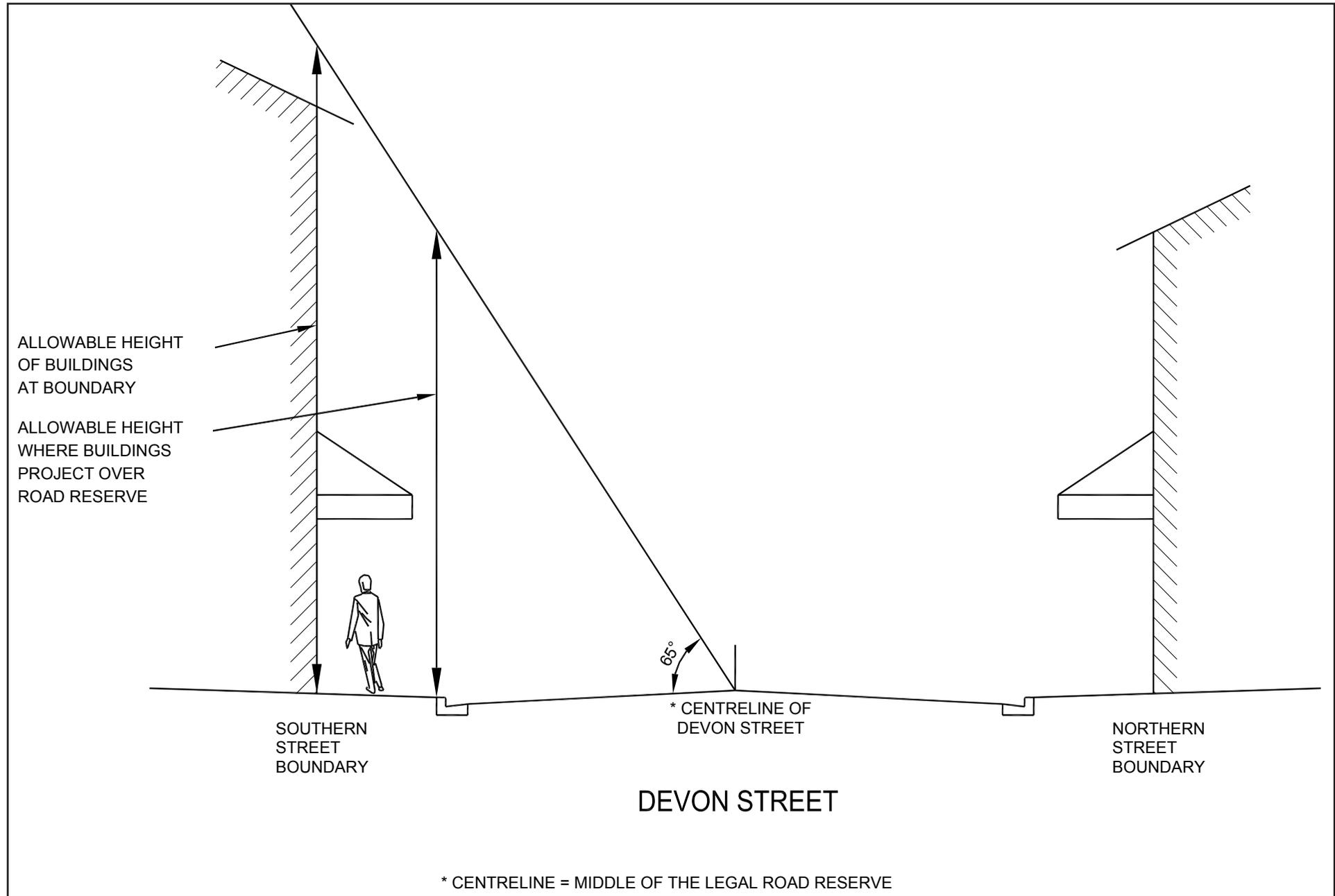


Diagram 3.5

HEIGHT of BUILDING relative to ROAD and SIDE BOUNDARIES within the INDUSTRIAL F ENVIRONMENT AREA

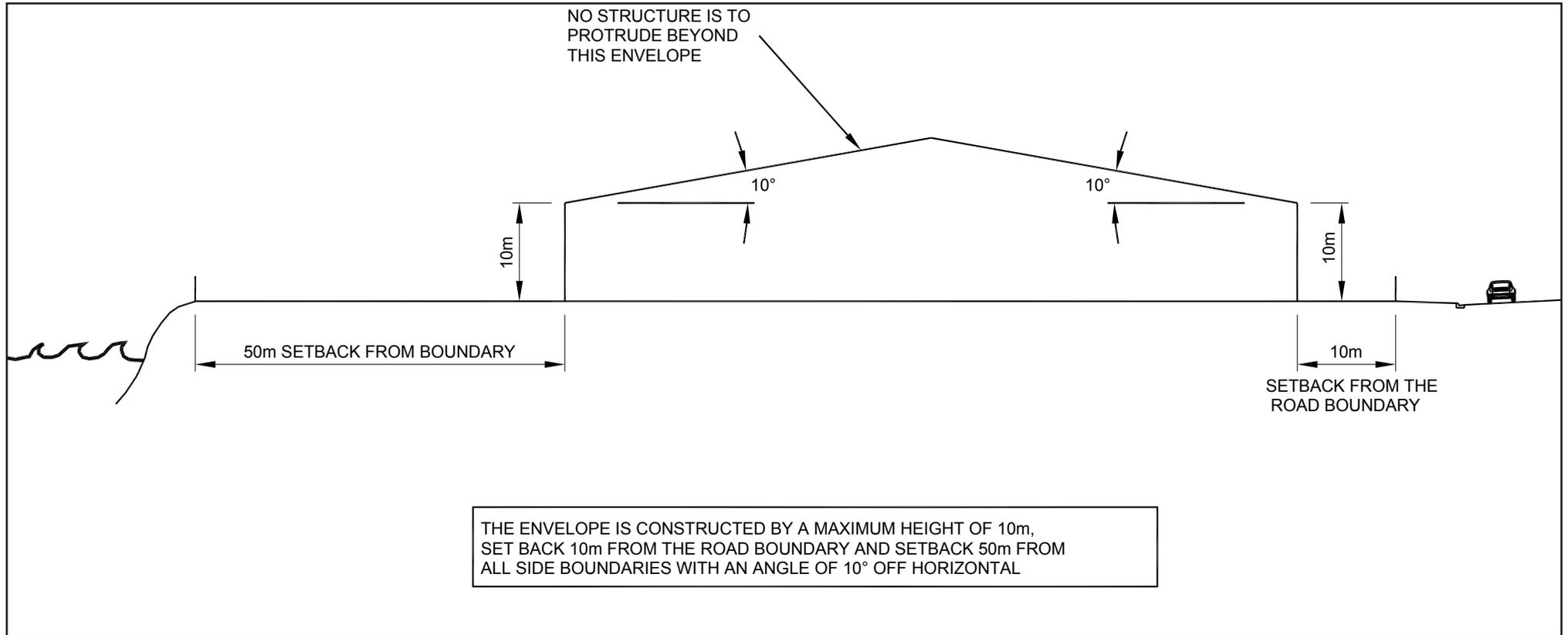


Diagram 3.6

Location of boundaries facing south west, south and south east

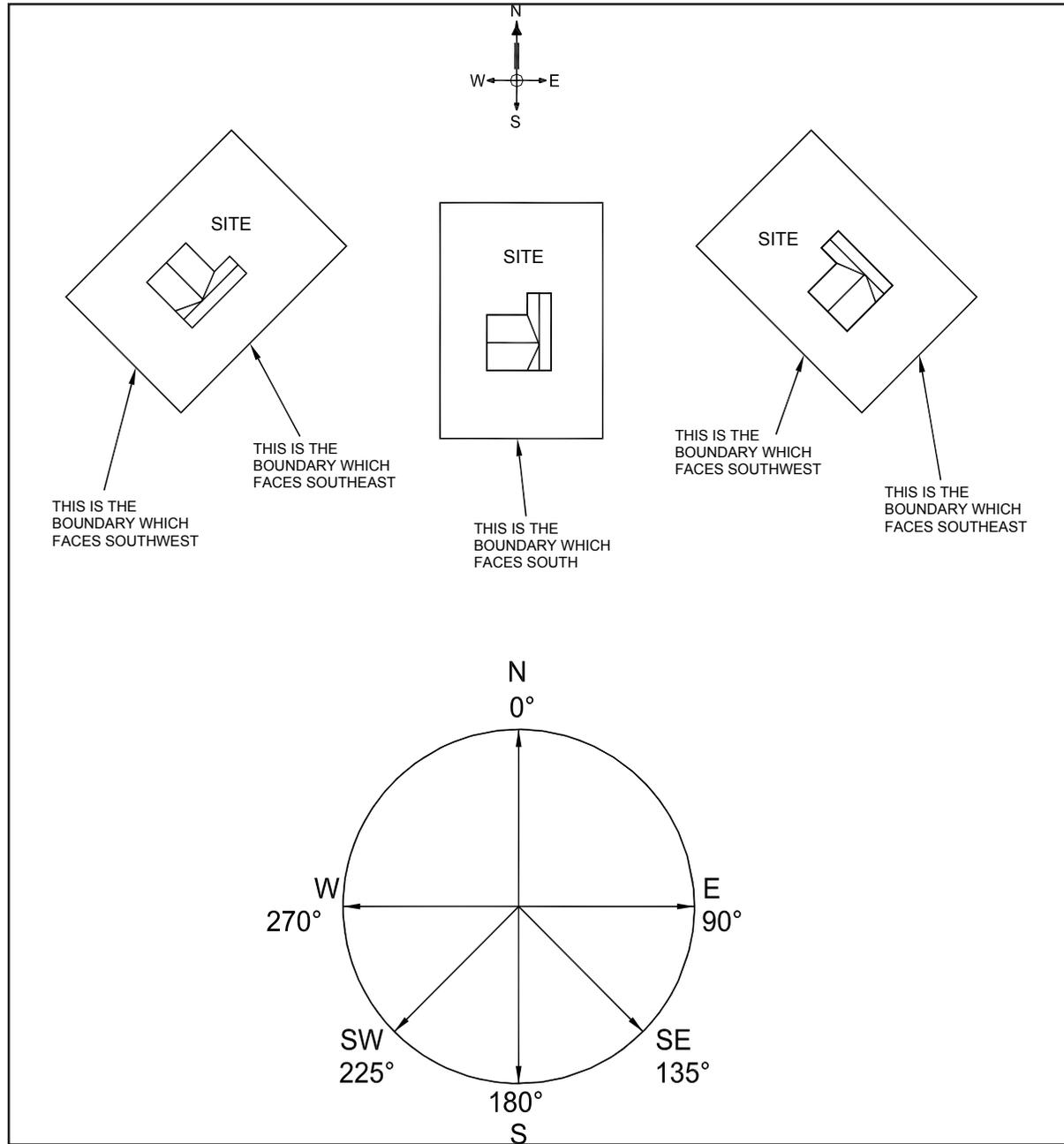


Diagram 3.7

Daylighting envelope for SHELTER BELTS and PLANTATION FORESTRY within the RURAL ENVIRONMENT AREA

