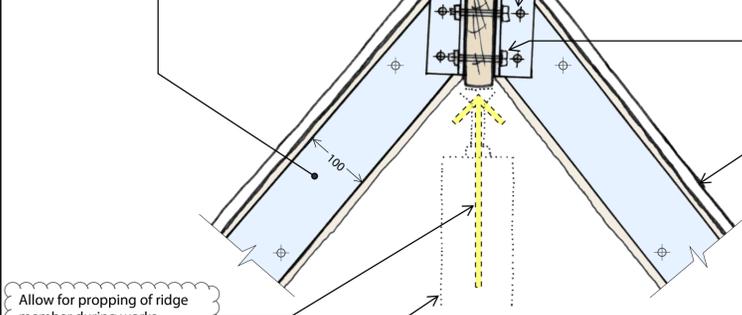


Central pair of rafters (at mid-span of purlins) to be strengthened.
Provide 100mm wide plates on both sides along full length of each central rafter. Plates to be 6mm thick.
Plates to be bolted together through timber using M12 bolts installed (staggered) at 400mm spacing along length of rafter.



Allow for propping of ridge member during works (propping shown indicatively)

Existing steel frame to be removed.

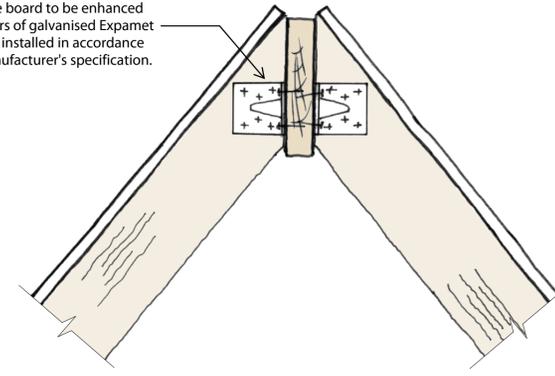
DETAIL 01
1:5

Top of strengthening plates on each rafter to be bolted together using pairs of 50x50 steel angles (125mm long). Provide 2No M12 bolts to connect assembly together at the top of each rafter.
Trim top corner of angle as necessary to avoid clashing with sarking boards.

Angles also to be bolted together through existing timber ridge board, using 2No M12 bolts for each pair of angles.

Allow for locally removing existing roof boarding to facilitate installation of new plates.

Connection between each rafter and ridge board to be enhanced using pairs of galvanised Expamet brackets, installed in accordance with manufacturer's specification.



DETAIL 04 - RAFTER/RIDGE DETAIL
1:5

- notes
1. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and the specification.
 2. Refer to drawing 1993/01/111 for relevant plan drawings and general notes.

ISSUED FOR TENDER

Provide pair of 90x90x8 angles (150mm long) installed either side of rafter. Angles to be bolted together through rafter and steel strengthening plates using 2No M12 bolts.

Connecting angles to be fixed into timber purlin using M10 coach screws (100mm long), located to avoid clashing with other coach screws.

Allow for propping of purlin member during works (propping shown indicatively)

Existing steel frame to be removed.

DETAIL 02
1:5

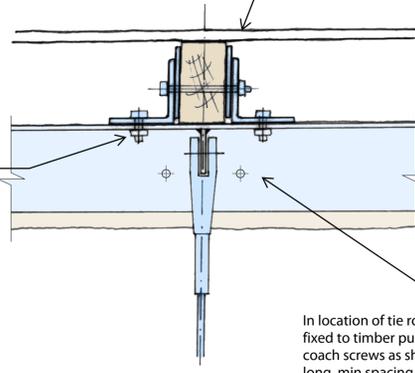
Pair of steel strengthening plates to be installed either side of central rafter.

New steel angle to be inserted to strengthen each existing purlin. Provide 125x75x10 unequal angle along full length of purlin. For detail of fixing of angle to purlin, refer to detail X-X.

10mm diameter stainless steel rod (Ancon or similar) to be provided and installed strictly in accordance with manufacturer's instructions. Rod to be fixed at either end to fin plate (60mm x 60mm x 8mm thk) welded to steel angle (on centreline of timber rafter). Provide isolation detail between tension rod fork connector and fin plate. Rod to be tightened once all structural strengthening has been installed and prior to the roof finishes being relaid.

Connecting angles to be fixed into steel angle on purlin using M12 bolts as shown.

Allow for locally removing existing roof boarding to facilitate installation of new plates and connections.



DETAIL X-X
1:5

In location of tie rod, angle to be fixed to timber purlin using 2No M10 coach screws as shown (100mm long, min spacing 100mm). Along length of purlin, steel angle to be fixed using M10 coach screws at 300mm spacing (staggered).

Connection between each rafter and purlin to be enhanced using pairs of skew screws.

Pack any gap that may be found between new steel angle and face of rafter (due to deflected shape of purlin).

Angle to be fixed to each rafter using M10 coach screw (100mm long).

Angle to be fixed to top of each purlin using coach screws - refer to detail X-X.

DETAIL 05 - RAFTER/PURLIN DETAIL
1:5

Pair of steel strengthening plates to be installed either side of central rafter.

Allow for locally removing existing roof boarding to facilitate installation of new plates and connections.

Existing timber eaves beam.

Existing timber post at mid-span of eaves beam.

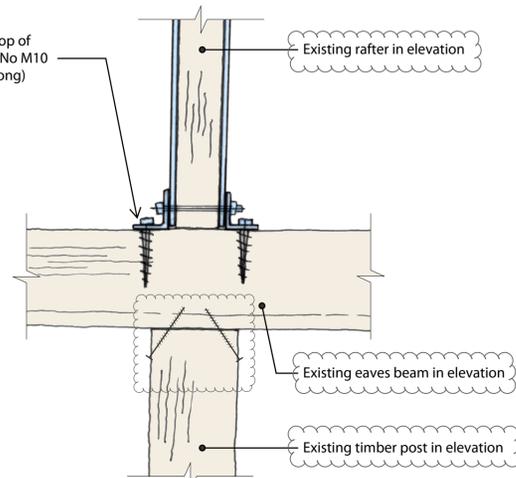
DETAIL 03
1:5

Each angle to be fixed into top of existing eaves beam using 2No M10 coach screws (min 100mm long)

Bottom of strengthening plates on each rafter to be bolted together using pairs of 50x50 steel angles (125mm long). Provide 2No M12 bolts to connect assembly together at the base of each rafter. Trim top corner of angle as necessary to avoid clashing with sarking boards.

Connection between eaves beam and central timber post to be enhanced using skew screws (5.5mm dia wood screws, 90mm long) - 2No each side of post

Existing steel frame to be removed.



DETAIL Y-Y
1:5

Connection between each rafter and eaves beam to be enhanced using pairs of galvanised Expamet brackets, installed in accordance with manufacturer's specification.

Existing timber eaves beam.

DETAIL 06 - RAFTER/EAVES BEAM DETAIL
1:5

B	16.02.26	ISSUED FOR TENDER. NOTES ADDED/AMENDED.	TB
A	02.02.26	DETAIL 05 AMENDED. NOTES ON EXISTING BOARDING AMENDED.	TB
-	13.08.25	ISSUED FOR COMMENT	TB

job
VANDYKE ROAD CEMETERY LYCHGATE

title
PROPOSED REMEDIAL WORKS DETAILS SHEET 1

drawn	checked
TB	DR
date	scale (original - A1)
AUG '25	AS SHOWN

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