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LAYOUT DESIGN GUIDE

CONTEMPORARY DESIGN | SUN | SHADE | RAIN PROTECTION | TEMPERATURE CONTROL

(866) 438-2964

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sales@retractableawnings.com

www.retractableawnings.com



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This guide represents a small sample of the endless possibilities and configurations available. These designs are provided to inspire your creativity for implementation of the RA Opening Roof System. Configurations can be altered, combined and reworked to suit any project. Frames can be created out of steel, wood, aluminum extrusions, rolled aluminum or even vinyl. Structures can be built with or without header beams, attached directly to the house walls, or completely freestanding. The RA Opening Roof System can also be used to retrofit existing structures. Anything is possible with the RA Opening Roof System.

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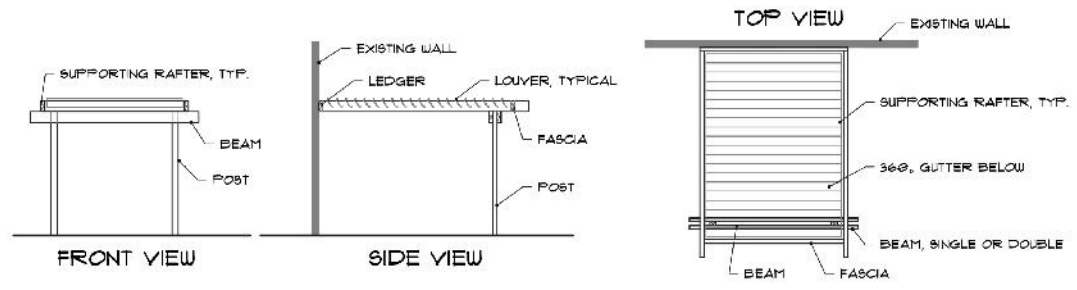
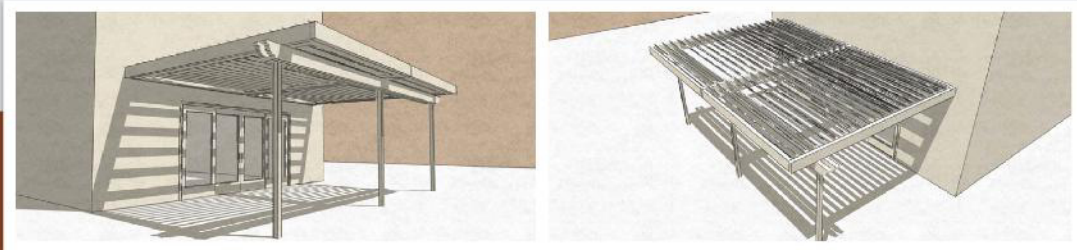
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PARALLEL

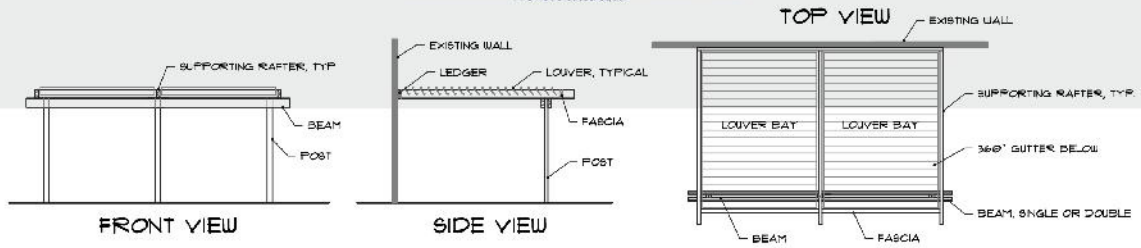


ATTACHED CANTILEVER DESIGN
Cover attached to building, with header beam, overhang past beam.



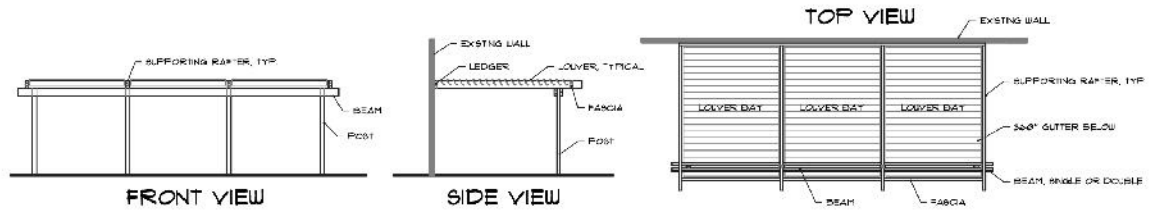
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PARALLEL



ATTACHED CANTILEVER DESIGN

Cover attached to building, with header beam, overhang past beam, two RA bays.



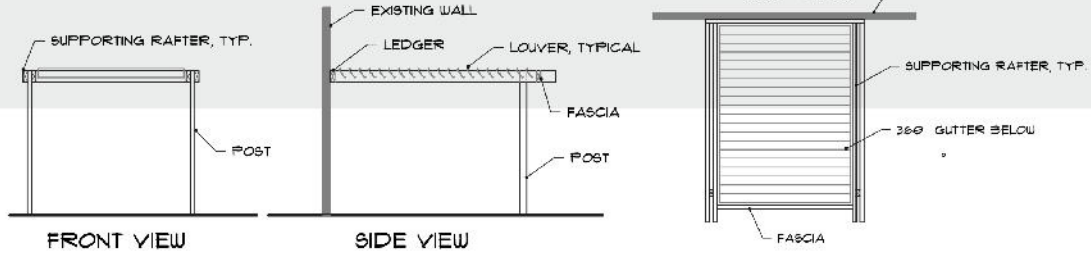
ATTACHED CANTILEVER DESIGN

Cover attached to building, with header beam, overhang past beam, three RA bays.

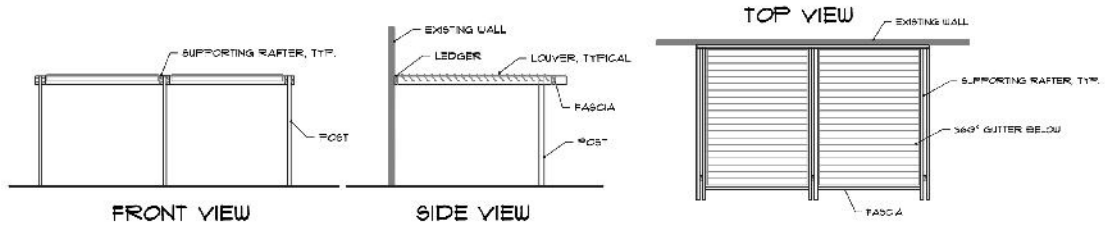


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PARALLEL



ATTACHED, SIMPLY SUPPORTED, DOUBLE RAFTER DESIGN
Cover attached to building, with double rafters, posts between rafters.

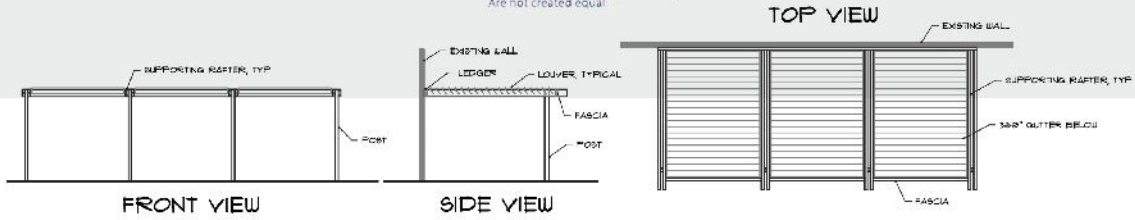


ATTACHED, SIMPLY SUPPORTED, DOUBLE RAFTER DESIGN
Cover attached to building, with double rafters, posts between rafters, two bay design.

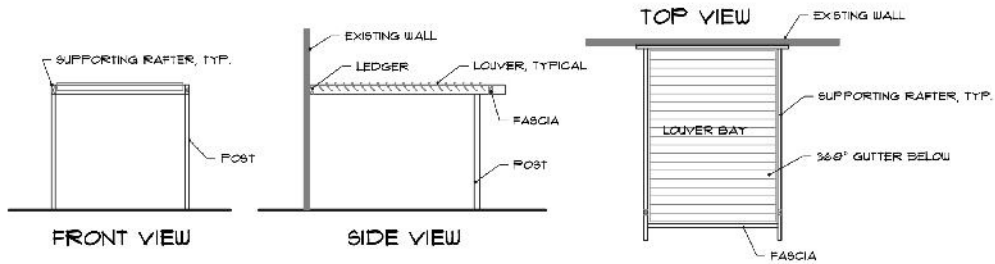


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PARALLEL



ATTACHED, SIMPLY SUPPORTED, DOUBLE RAFTER DESIGN
 Cover attached to building, with double rafters, posts between rafters, three RA bays.

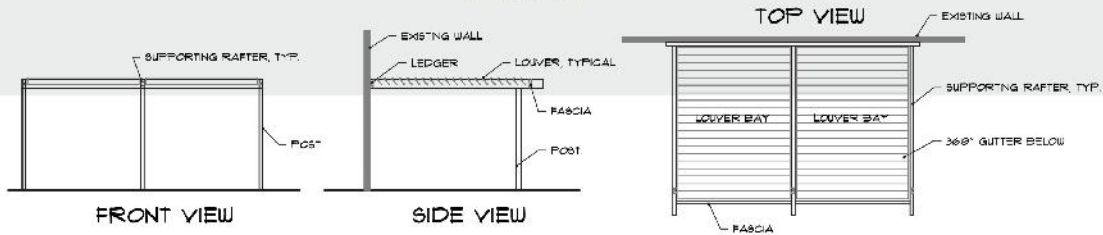


ATTACHED, SIMPLY SUPPORTED, SINGLE RAFTER DESIGN
 Simply-supported cover, attached to building, post directly under rafter.

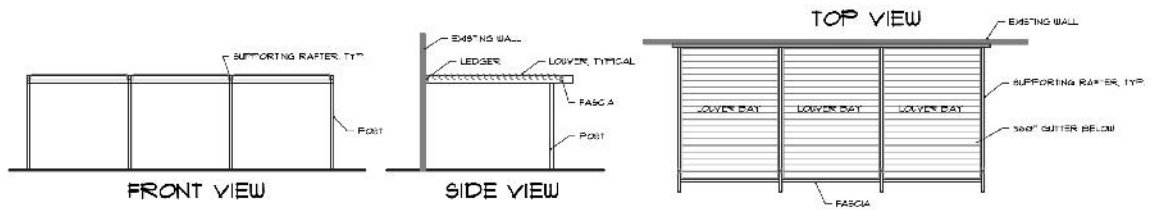


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PARALLEL



ATTACHED, SIMPLY SUPPORTED, SINGLE RAFTER DESIGN
 Simply supported cover, attached to building, post directly under rafter, two RA bays.

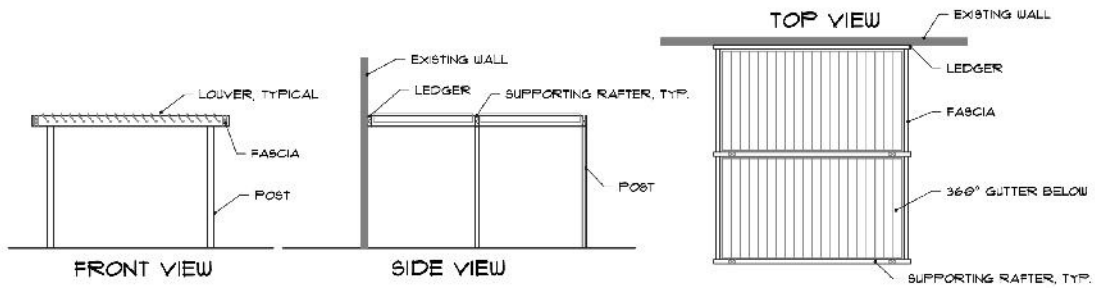
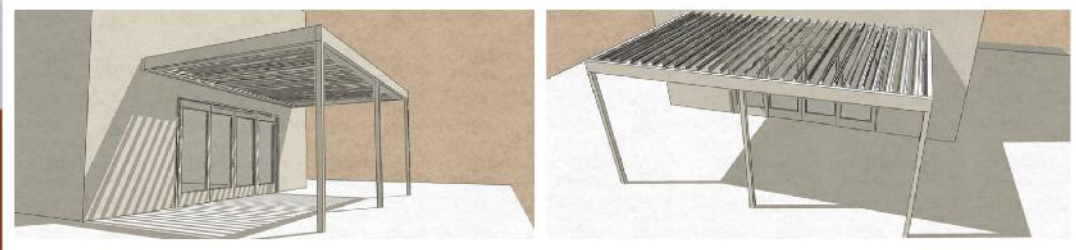


ATTACHED, SIMPLY SUPPORTED, SINGLE RAFTER DESIGN
 Simply-supported cover, attached to building, post directly under rafter, three RA bays.



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PERPENDICULAR



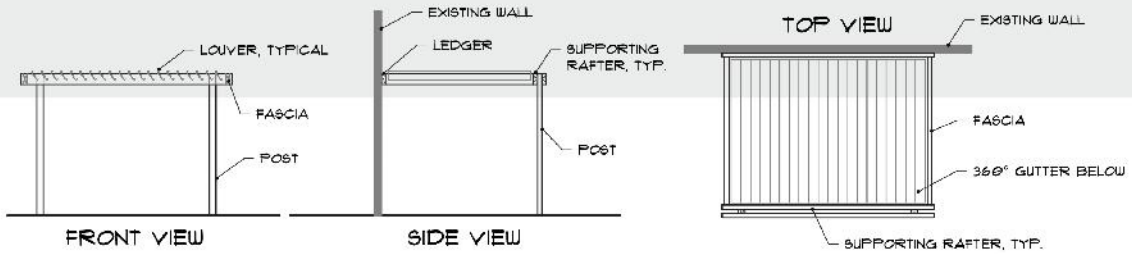
ATTACHED, SIMPLY-SUPPORTED DESIGN WITH INTERMEDIATE RAFTER

Simply-supported cover, attached to building, posts directly under rafters, two RA bays. Intermediate posts used for center rafter.

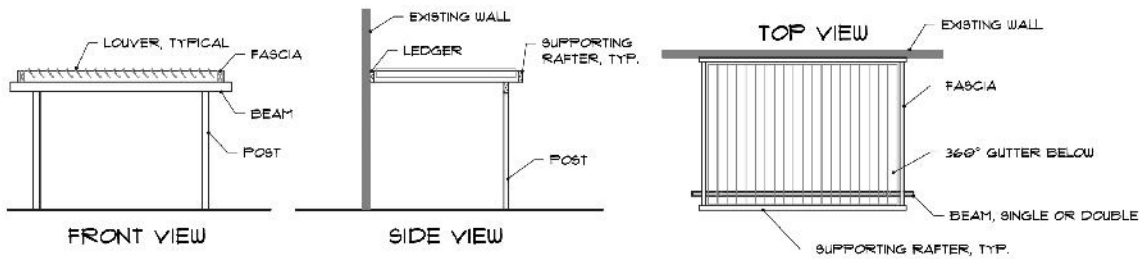


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PERPENDICULAR



ATTACHED, SIMPLY-SUPPORTED, DOUBLE RAFTER DESIGN
Cover attached to building, with double rafters, posts between rafters.

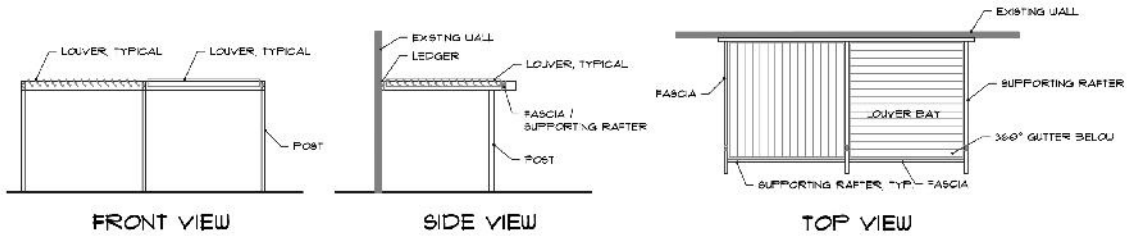


ATTACHED CANTILEVER DESIGN
Cover attached to building, with header beam, cantilevered past beam, outer supporting rafter supported by end fascia.



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COMBO

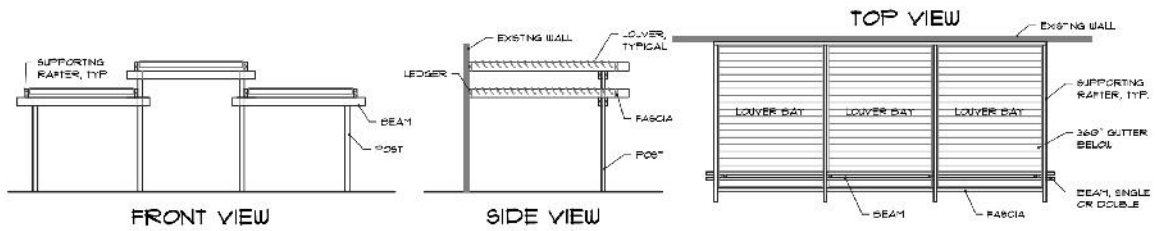
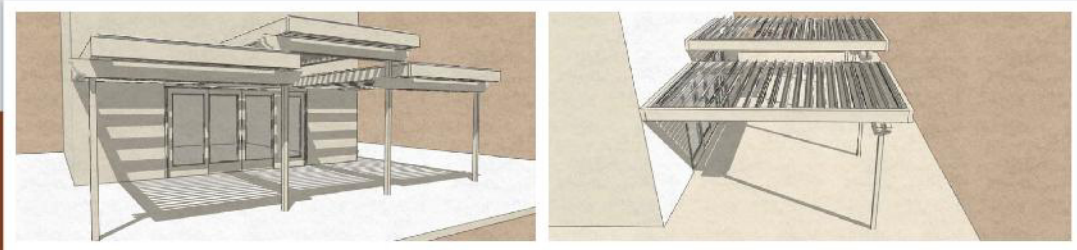


ATTACHED, SIMPLY-SUPPORTED, SINGLE RAFTER DESIGN
Simply-supported cover, attached to building, post directly under rafter.



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TWO-TIER



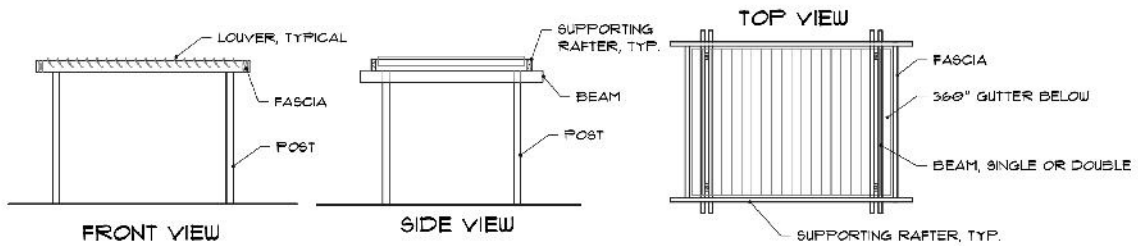
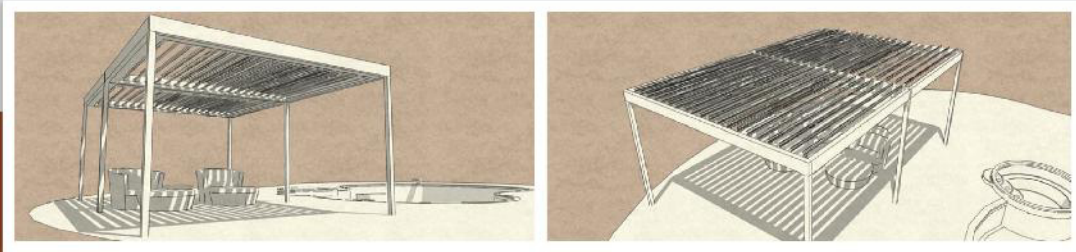
ATTACHED CANTILEVER DESIGN

Cover attached to building, with header beam, cantilevered post beam, three RA bays. The upper RA bay shares posts with the lower two sections.



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FREESTANDING

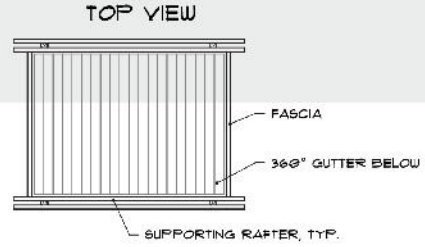
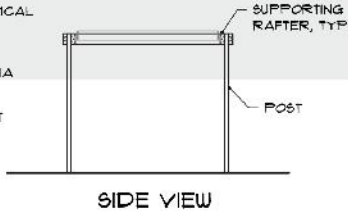
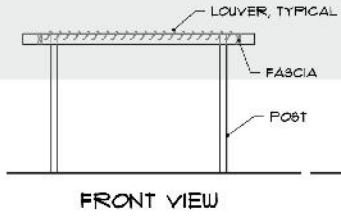


FREESTANDING CANTILEVER DESIGN
Freestanding cover, with header beams, cantilevered past beams.

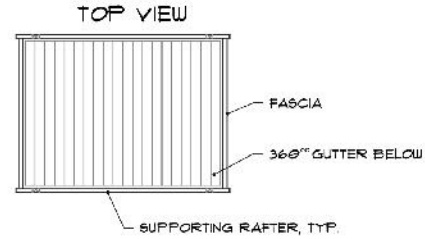
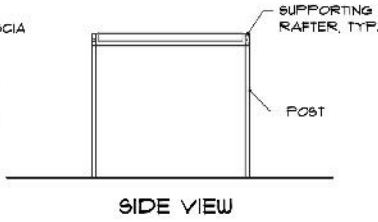
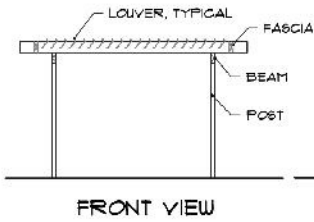


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FREESTANDING



FREESTANDING SIMPLY-SUPPORTED, DOUBLE RAFTER DESIGN
 Freestanding cover, with double rafters, posts between rafters.

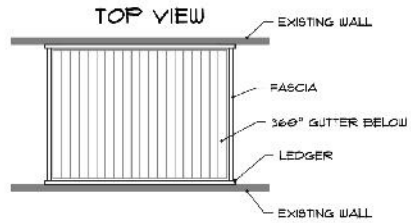
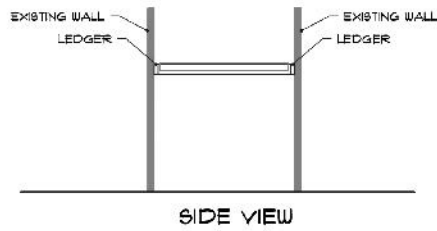
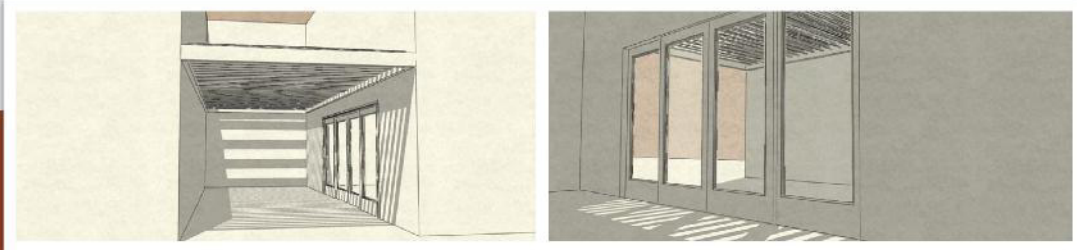


FREESTANDING, SIMPLY-SUPPORTED, SINGLE RAFTER DESIGN
 Simply-supported freestanding cover, posts directly under rafters.



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TWO-WALL



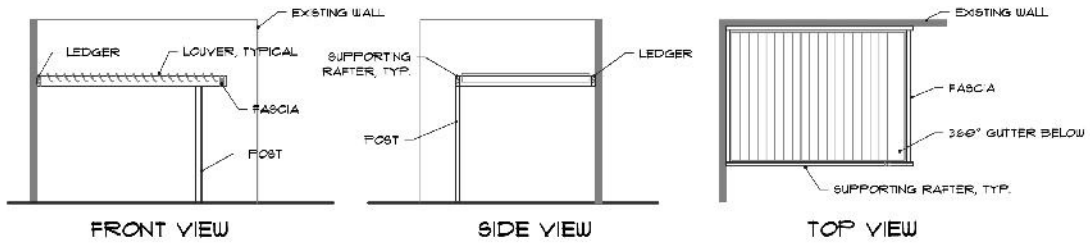
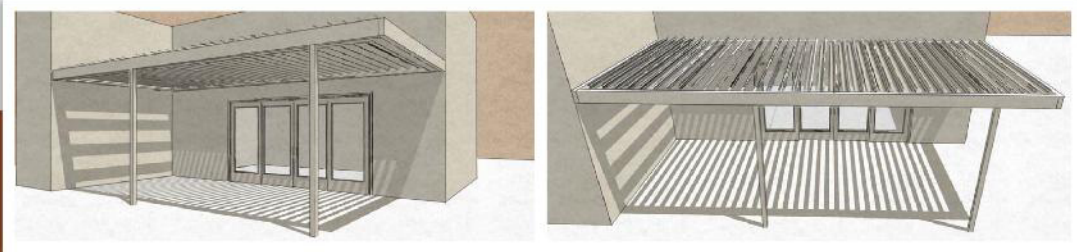
ATTACHED DESIGN

Rafters are connected directly to walls, no beams or posts.



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CORNER

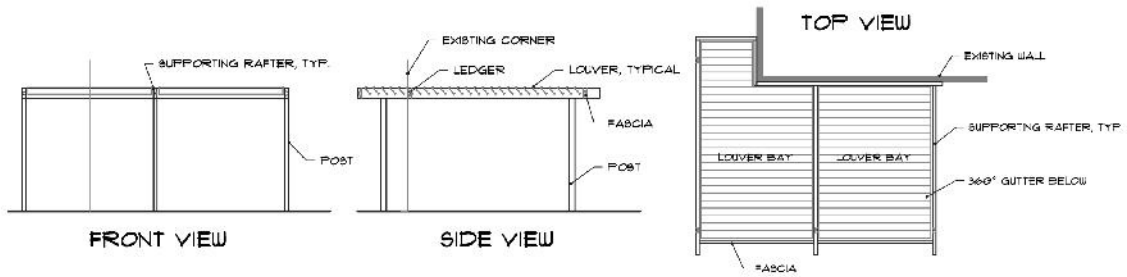
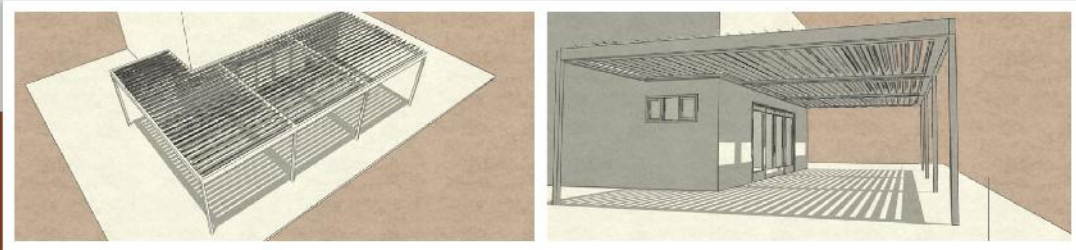


ATTACHED, SIMPLY-SUPPORTED, SINGLE RAFTER DESIGN
Simply-supported cover, attached to two walls, posts directly under rafter.



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CORNER WRAP

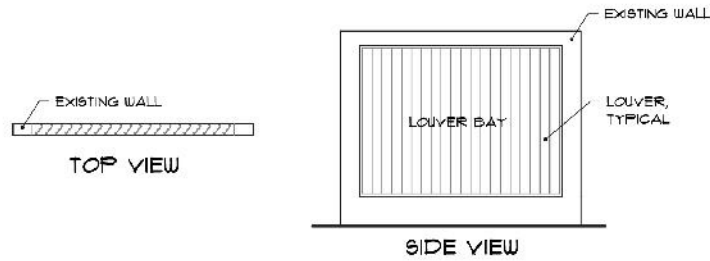
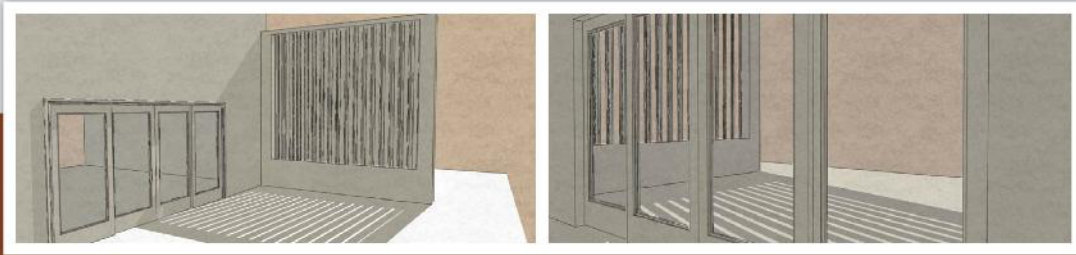


ATTACHED, SIMPLY-SUPPORTED SINGLE RAFTER DESIGN
Simply-supported cover, partially supported by building, posts directly under rafters.



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VERTICAL



Louvers in vertical orientation. No gutters are used.

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**All measurements in this document are metric. To convert from metric (meters, centimeters and millimeters) to imperial (feet and inches) visit this website:
http://www.onlineconversion.com/length_common.htm**