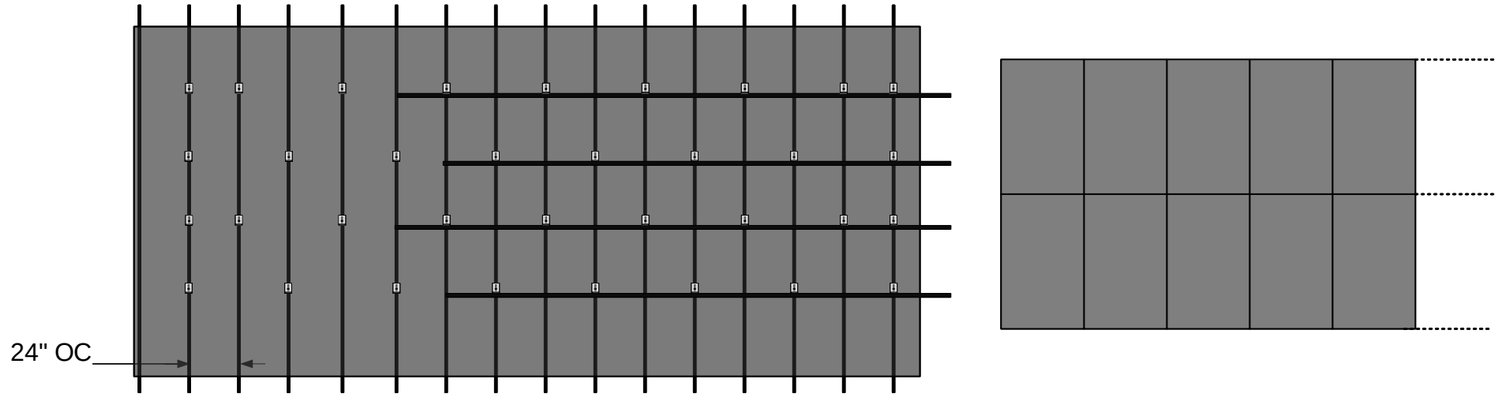
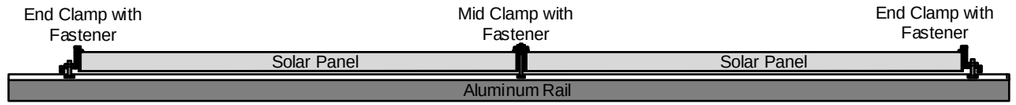
NOT FOR CONSTRUCTION



Roof Attachment Best Practices:

- Maximum Rail Length = 50', before expansion gap required
- Maximum Rail Span = 4' (varies, depending upon roof slope, snow load, wind speed, and exposure category at site)
- Maximum End cantilever span is 0.40 x maximum rail span
- Aluminum L-feet are fastened to structural members of the roof through pre-drilled holes, using 3" x 5/16" stainless steel lag screws.
- GeoCel applied at each attachment provides a watertight seal between, L-feet, shingles, and structural members.
- Staggering L-feet attachments allows even distribution of load on rafters.
- Typical Dimensions of one 60-cell PV Module: 64" x 40" x 1½”
- Clearance between roof and rail = 2"



Profile of Aluminum Rail Channel with Fastened End Clamp & Solar Panel

Site Specifications:

Occupancy: Residence

Design Wind Speed: 100 mph

Exposure Category: C

Ground Snow Load: 60 psf

Roof Height: ~25’ above grade to eaves

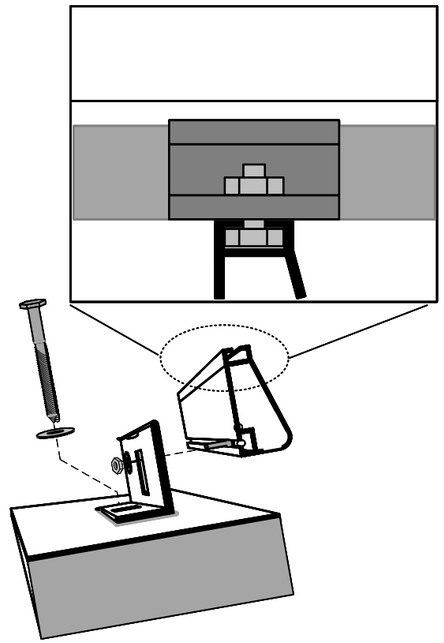
Roof Composition: Asphalt Shingle

Roof Pitch: 36°

Roof Azimuth: 210° true

Rafter Dimensions: 2x6" true

Rafter Spacing: 24" OC



142 Presumpscot Street
Portland, ME 04103
(207) 221-6342

Customer Name:

John Knight
29 Westminster Avenue
Portland, ME 04103

System Type:

3.05DC
Grid Tied Photovoltaic Array

Designed by:	GJD
Date:	February 5, 2018
Rev	0

MODULE LAYOUT

A02