

BUILDING SOLAR SOLUTIONS



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Solar Photovoltaic Feasibility Assessment

Property:

Multi Family Development
201 Walnut Ave
Cranford, NJ

Drawings:
A2

Related Codes:

690.12 Rapid Shutdown of PV Systems on Buildings
NJ Construction Codes

Vanguard Energy Partners, LLC is a national design build solar contractor based in Branchburg New Jersey since 2007.

We have explored multiple photovoltaic design options for the rooftop areas listed in drawing A2, here attached, for the multifamily building in 201 Walnut Ave.

Our scope is to generate an efficient and safe ballasted and or attached, solar photovoltaic system with generation intended to offset the site's electrical load by interconnecting behind the utility meter.

This site includes low and high sloped roof elevations, creating challenges for design, install and maintenance. National Electric Code, 690.12 Rapid Shutdown compliance will be required and the three available solutions each have a history of moderate to severe maintenance cycles. Working safely on these arrays for the life of the system will prove costly when compared to other low and high sloped roof arrays.

The need to account for shading from rooftop obstructions, tight pathways for foot traffic, would trigger less than efficient design options for a solar photovoltaic solution.

We were primarily concerned with the safety of emergency personnel and general maintenance personnel during acute and scheduled tasks.

It is Vanguard's opinion that a rooftop solar photovoltaic system over this site does not meet our technical and safety considerations. We strongly encourage the inclusion of general energy efficiencies solutions for this site.

DocuSigned by:

alex rivera

Alex Rivera

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SVP Solar Development /

Originations

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