Multifamily Photovoltaic Solar System
Crest Apartments
5227 Marlboro Pike, Capitol Heights, MD 20743

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 35549, Expiration Date: 3-Apr-2018
PV System size: 190 KW
- 570 Canadian Solar 335 W
- 4 Solectria PVI 50 KW Inverters
- SnapNRack Racking system

- PV system to be mounted on existing roof structure.
- No new construction proposed beyond installation of the solar array.
- Complies with IBC 2015, NEC 2011
- Vents

Building 1 Plan: Scale 1\" - 16\'
280 Module - 93 KW

Building 2 Plan: Scale 1\" - 16\'
290 Module - 97 KW

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Roof-mounted system adding 2.8 psf

- Standard wood construction, 2 x 4 roof trusses at 16" O.C.
- Finished roof surface is shingles.
- Mechanical and plumbing vents will not be covered with the modules.
- Access pathways capable of supporting live load of fire fighters.

Roof Trusses 2x4 16" O.C
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Module weight: 48.9 lbs each
Rail weight: 0.52 lb/ft
Total Array weight: 15,640 lb
Area: 6,505 sqft
Distributed weight: 2.8 psf ≤ 4.0 psf > OK
Number of attachments: 540
Weight per attachment point: 29 lbs

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