(N) = New) = Existing Electrical One Line: Category 1, 25.65 kW DC 20kW AC All work to comply with the 2017 Michigan Electrical Code

PV Disconnect (N) PV Array (N) Inverter (N) 100A, fused w/ 2-SolarEdge SE10000H-US 57 Znshine 450W 100A fuses AC Combiner (N) 240V single phase inverter 25.65 kW DC NEMA 3R, Lockable 240V single phase Integrated DC Disconnect Rapid Shutdown 2-50A breaker 200A Panel(E) 100A Solar(N) AC DC+/-SolarEdge Located P505 Optimizers(N) Located within 5' ACelectrical of DTE room meter DC+/-Located outside Located by meter Μ outside by meter DTE meter(E)

> All components are UL listed and CEC Certified, where warranted.

Inverter Ratings SolarEdge SE10000H-US Input: 27A @ 400 V DC Output: 42A @ 240 V AC

UL1741, UL1699B, UL1998, CSA 22.2

Module Ratings Znshine Solar ZXM6-NHLDD144-450 Pmax(W) 450 Vmp(V) 42.1 Imp(A) 10.69 Voc(V) 50.50 Isc(A) 11.58

- 1. All installation materials and methods will comply with requirements of Michigan 2015 Building Code and 2017 National Electrical Code, in particular NEC 2017 Article 690.
- 2. SolarEdge inverters and optimizers provide overcurrent, DC ground fault protection, arc fault detection, and rapid shutdown compliant with NEC 690.
- 3. If existing grounding electrode cannot be verified, contractor shall install supplemental ground electrode per NEC 2017 Article 250.
- 4. All equipment and raceways will be bonded and grounded per code and manufacturers instructions.

Ann Arbor, MI 48103 Homeland Solar 4975 Miller <u>Installer</u> Huron Hills Golf Course 3465 E Huron River Dr Ann Arbor, MI 48104 Clubhouse drawn by L. Hoot 5/23/2022 **HOMEL**

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