DETACHED DOUBLE-GLASS PATIO COVER WITH 11.0KW DC SOLAR

SCOPE OF WORK

This project involves constructing a steel framed patio cover utilizing a moment frame design and supporting a 18 solar panels directly onto coldformed steel trusses.

The trusses are comprised two galvanized coldformed steel studs which are then enclosed with galvanized structural track on the top and the bottom. The boxed beams form a channel to enclose PV wiring and to directly support the PV panels (modules) fully along their long edges.

The panels are bifacial (double glass) panels which allow some light to pass through as well as collecting solar energy from the underside of the panels.

Separate structural calculations are provided for the patio cover.

The inverter is a hybrid PV and Battery Inverter. Even if batteries are not included the inverter makes the system battery and off-grid capable with the addition of a few components including the batteries.

Approximate Patio Cover Area Rated DC Solar Output Power Standard Test Conditions Power 551 Sq. Ft. 11.0 KW DC 9.9 KW AC

SHEET INDEX

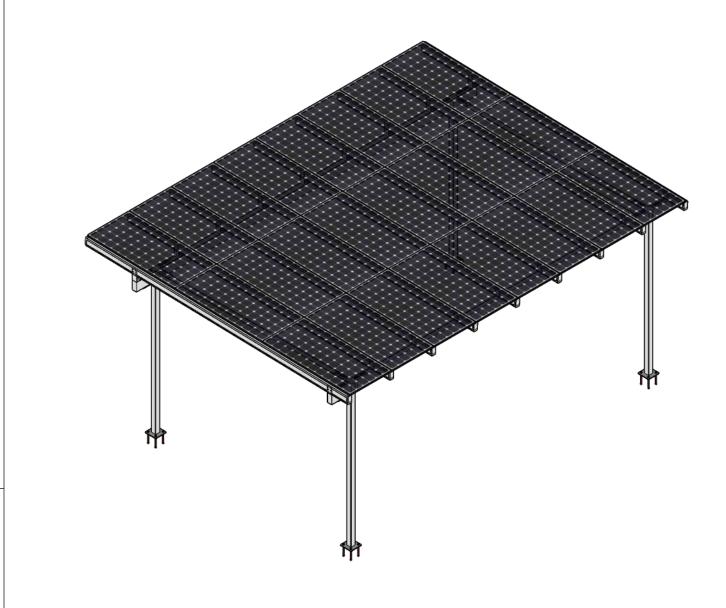
- 1 Title Page
- 2 Isometric Views
- 3 Structural Side View
- 4 Structural Front View
- 5 Structural Rear View

REFERENCED CODES

2019 California Electrical Code 2020 National Electric Code NEC) 2019 California Residential Code (CRC) 2019 California Building Code (CBC) 2019 California Fire Code

This structure is rated as IBC Building Occupancy
Group U - Utility and Miscellaneous.

RENDERING

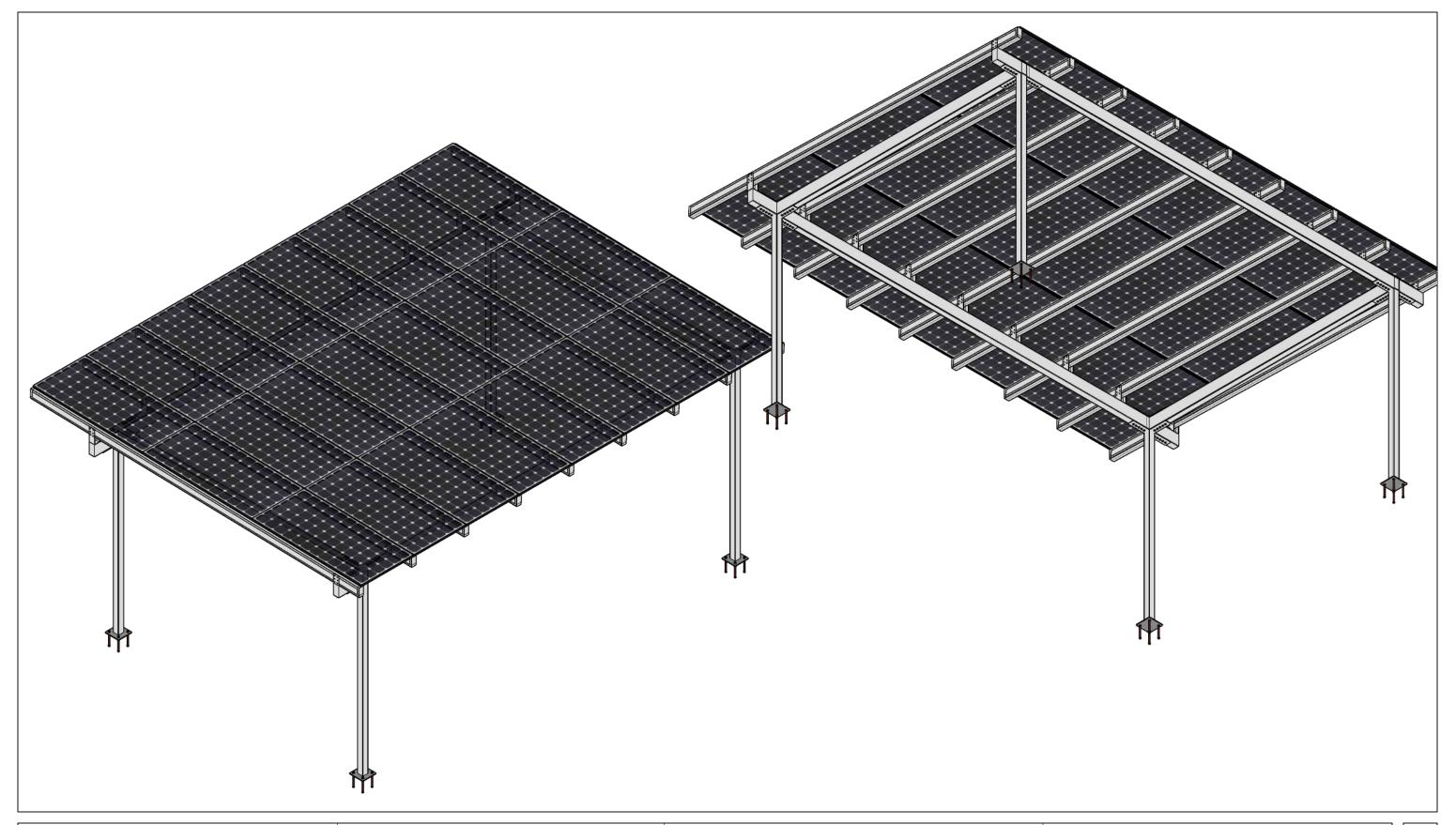


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POWER PATIOS.



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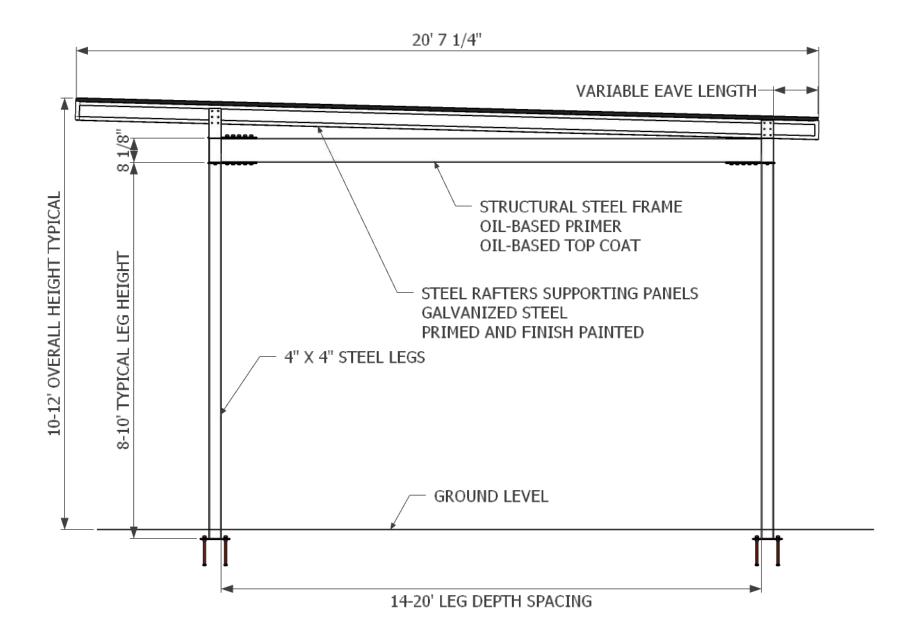
ARCHITECTURAL TOP & UNDERSIDE VIEW

Scale 1/4" = 1 Foot (1:48)

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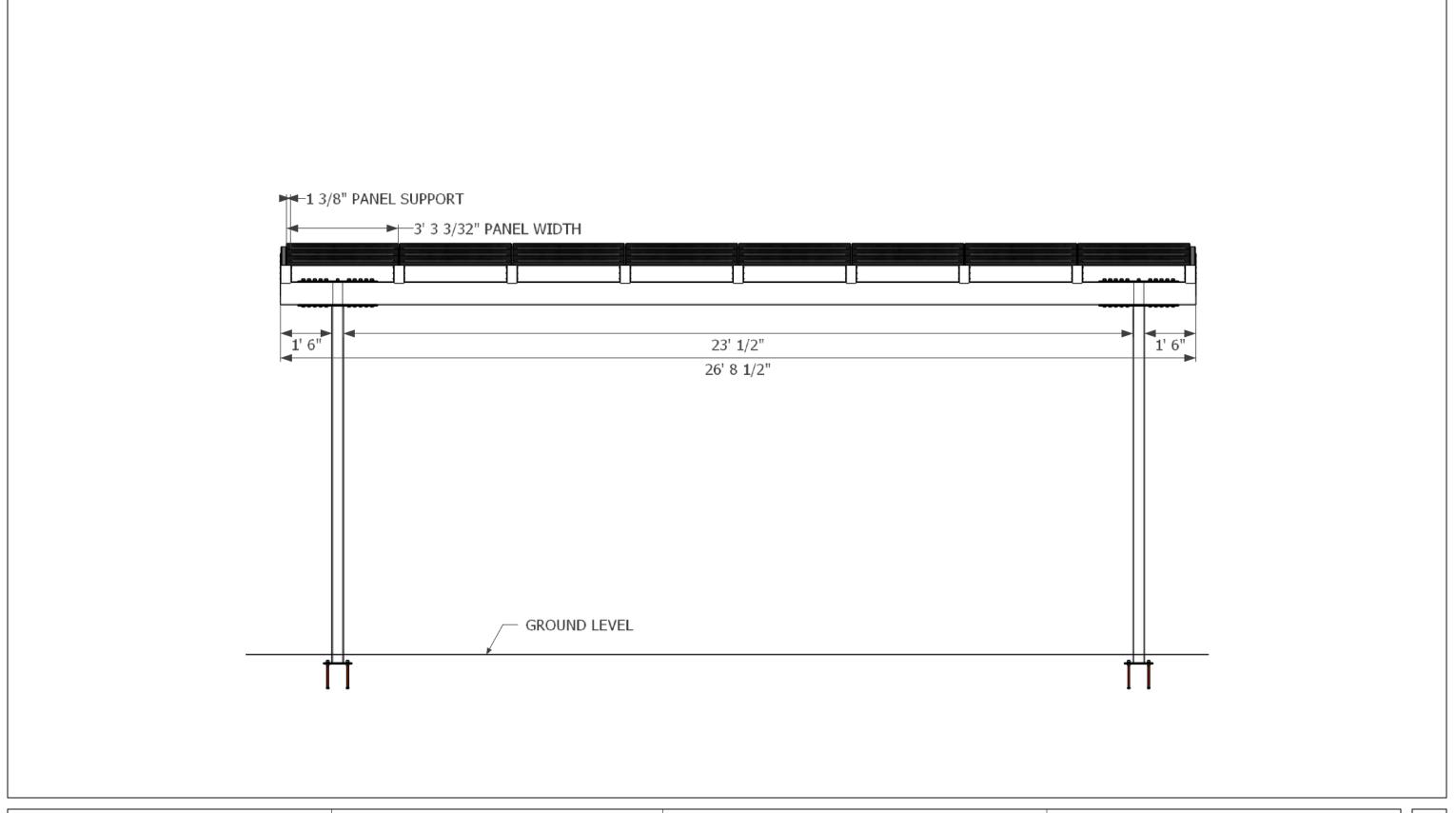
STRUCTURAL SIDE VIEW

Scale 3/8_" = 1 Foot (1:32)

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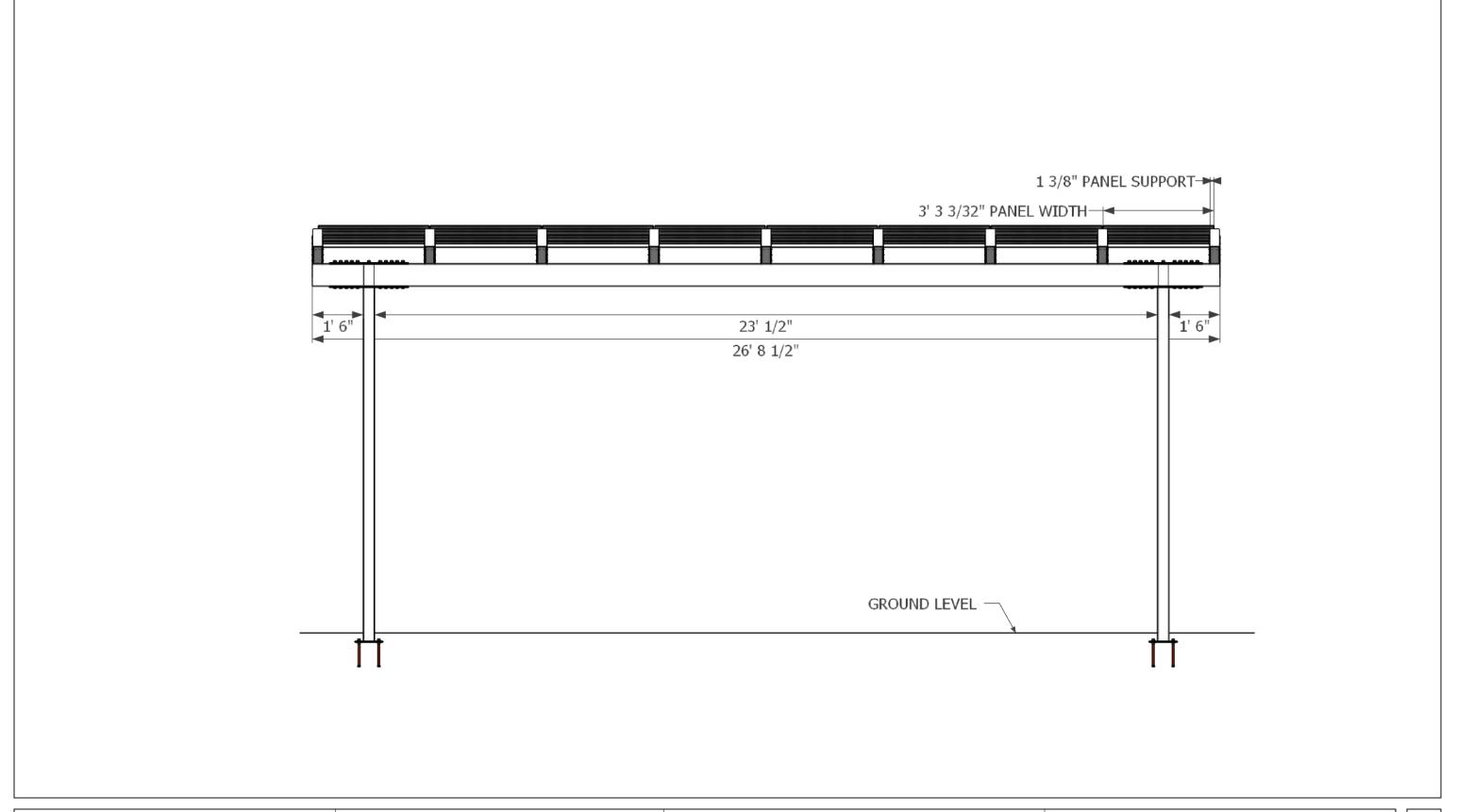
STRUCTURAL FRONT VIEW

Scale 3/16" = 1 Foot (1:32)

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STRUCTURAL REAR VIEW

Scale 3/16" = 1 Foot (1:32)

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