



WOODSIDE FIRE PROTECTION DISTRICT

Solar Photovoltaic System Submittal Requirements

808 Portola Rd. Portola Valley, CA 94028 Fire Prevention 650-423-1405 Fax 650-851-3960

Woodside Fire Protection District requires plans to be submitted through the local building department. Plans will be reviewed and approved by Woodside Fire Prevention Bureau. Along with the submittal package a \$90.00 (Plan review fee) will be required. Fee includes one review and one field inspection. Any additional inspections will be \$90.00 each visit.

Checks payable to Woodside Fire Protection District

****NOTE****

If your project is under review through County of San Mateo Planning and Building Departments. Please beware that you need to submit to SMCO Building. Contact SMCO Planning & Building at 650-599-7311 for fee and submittal requirements.

The information provided in this document is general and intended as a guide only. Each project is unique and additional requirements may be enforced as deemed appropriate.

ALL SIGNAGE, LABELS AND PLACARDS WILL BE; RED SIGN WITH WHITE LETTERS

Per the Woodside Fire Protection District, (WFPD) Ordinance #11 a standard of specific installation conditions is in place to ensure firefighter and public safety for all Solar PV systems. Solar PV power systems shall also follow section 605.11 of the 2013 California Fire Code.

WFPD appreciates the environmental friendly technologic advances these systems bring, however, traditional firefighting techniques, such as roof venting, water extinguishment and fire overhaul must be modified to ensure human safety.

Roofs that contain Solar arrays will be most difficult for firefighters to vent. Delayed roof venting may increase the time factor in fire containment resulting in a greater extent of fire damage overall. Conventional water extinguishment on roofs may not be an option for firefighters if the integrity of any portion of the

Solar array is threatened. The risk of accidental electric shock is greatly increased with systems that have been compromised.

Fire overhaul will also be a challenge for firefighters and inspectors as broken panels or compromised Solar conduit will remain energized during daylight hours.

The following conditions will apply to all roof and ground mount Solar PV systems:

1. There will be a minimum of 36” of clearance at the ridge line where Solar Array’s are installed on roofs. Arrays can be installed down to the eave if there remains (3) three access points from the ground to the ridge. If there is less than (3) three access points to the roof ridge then there shall remain a 36” perimeter of walking area around the array to the ridge.
2. Ground mounted Solar arrays will be erected in areas clear of combustible vegetation. A minimum vegetation clearance perimeter of 10’ shall be maintained.
3. All Solar conduits, interior or exterior, will be permanently labeled with fade resistant material stating: **WARNING: PHOTOVOLTAIC POWER SOURCE** *(see attached signage req)*
4. Permanent placard installed on exterior and interior of main electrical panel stating: **CAUTION: Solar PV System Installed-When Power Disconnected Solar Panels and Wiring May Remain Energized During Daylight Hours**
5. All disconnects shall be accessible to fire department and located together when possible.
6. A separate emergency DC disconnect is required at the roof top combiner box for roof mounted solar arrays. This disconnect must be permanently labeled, in reflective, fade resistant material, “**Emergency Solar DC Disconnect**”
Exception: *Systems with microinverters or maximizers which have built in disconnects.*

SIGNAGE REQUIREMENTS FOR SOLAR PV SYSTEMS

Two forms of signage are required for Solar PV Systems. Permanently affixed reflective labels should have a red background with white lettering. Printed material should resist fading. Size of lettering should be equal to the example below.

1. Exterior/Interior Conduit signage:

Horizontal and Vertical to be installed every 20'. For vertical conduit, a minimum of 1 label to be affixed at eye level.

CAUTION Solar PV Wiring May Remain Energized After Disconnection During Daylight Hours.

2. Exterior/Interior of Electrical Panel signage:

CAUTION
Solar PV System Installed. When Power Disconnected Solar Panels and Wiring In Conduit May Remain Energized During Daylight Hours.

Diagram 1: Cross Gable Roof

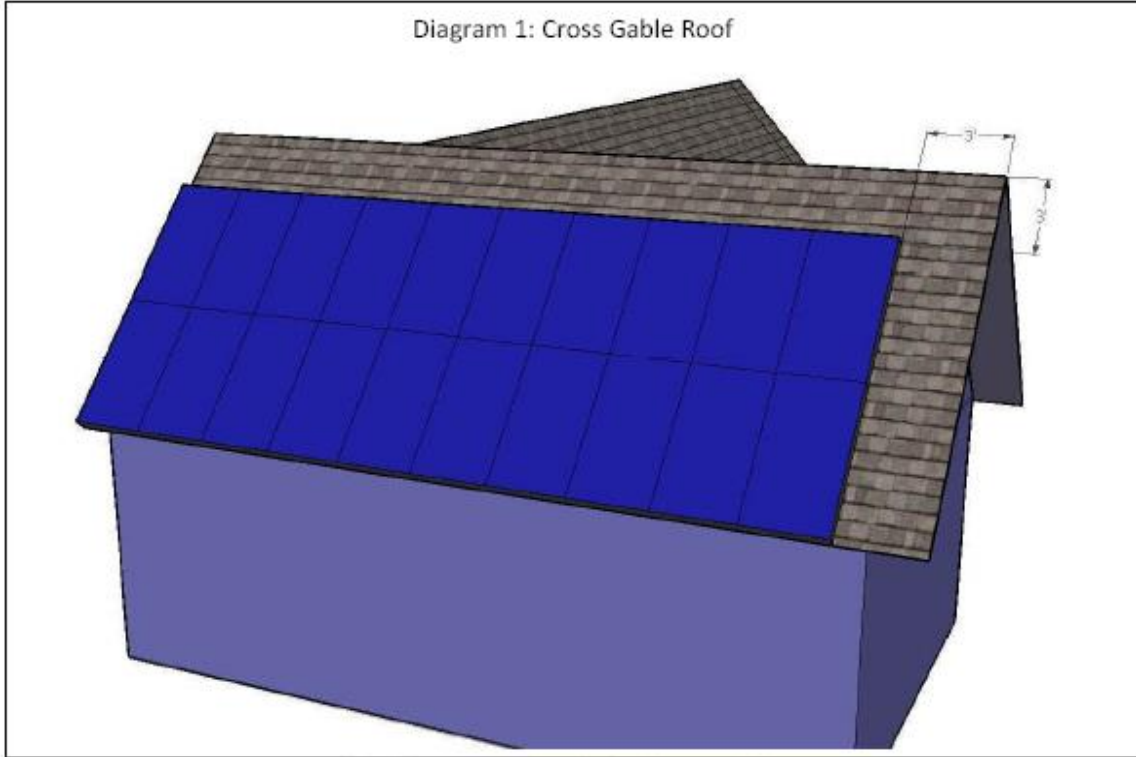
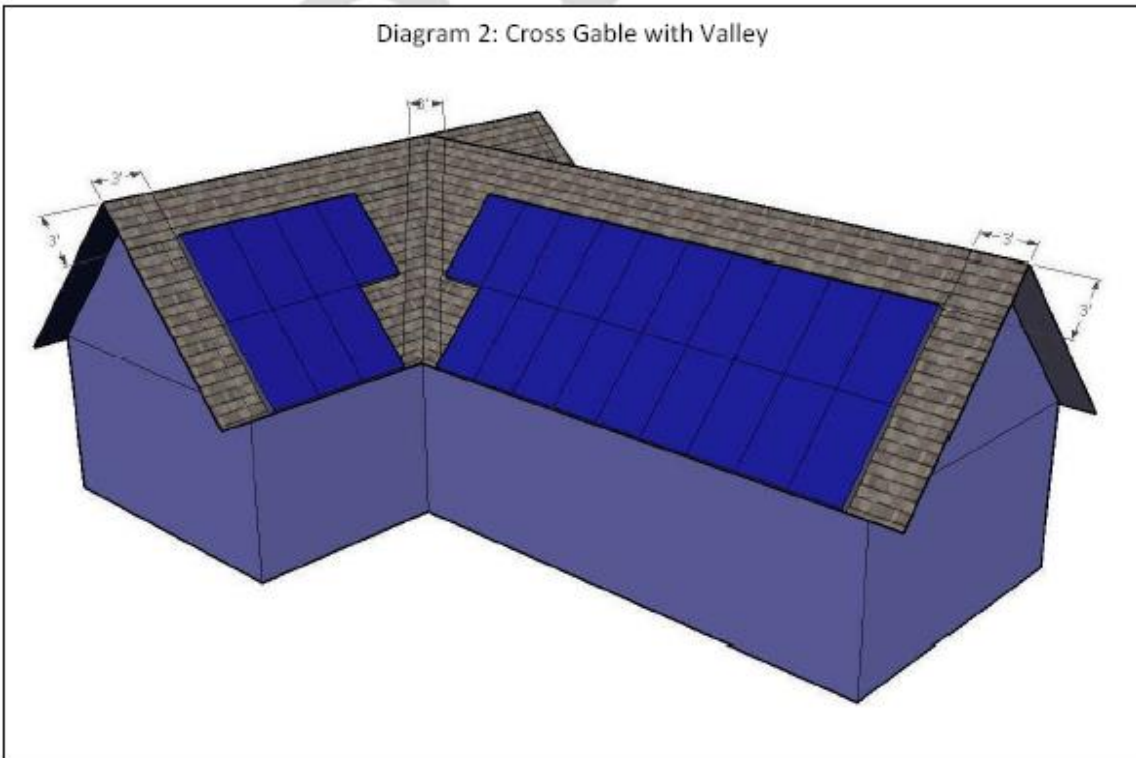
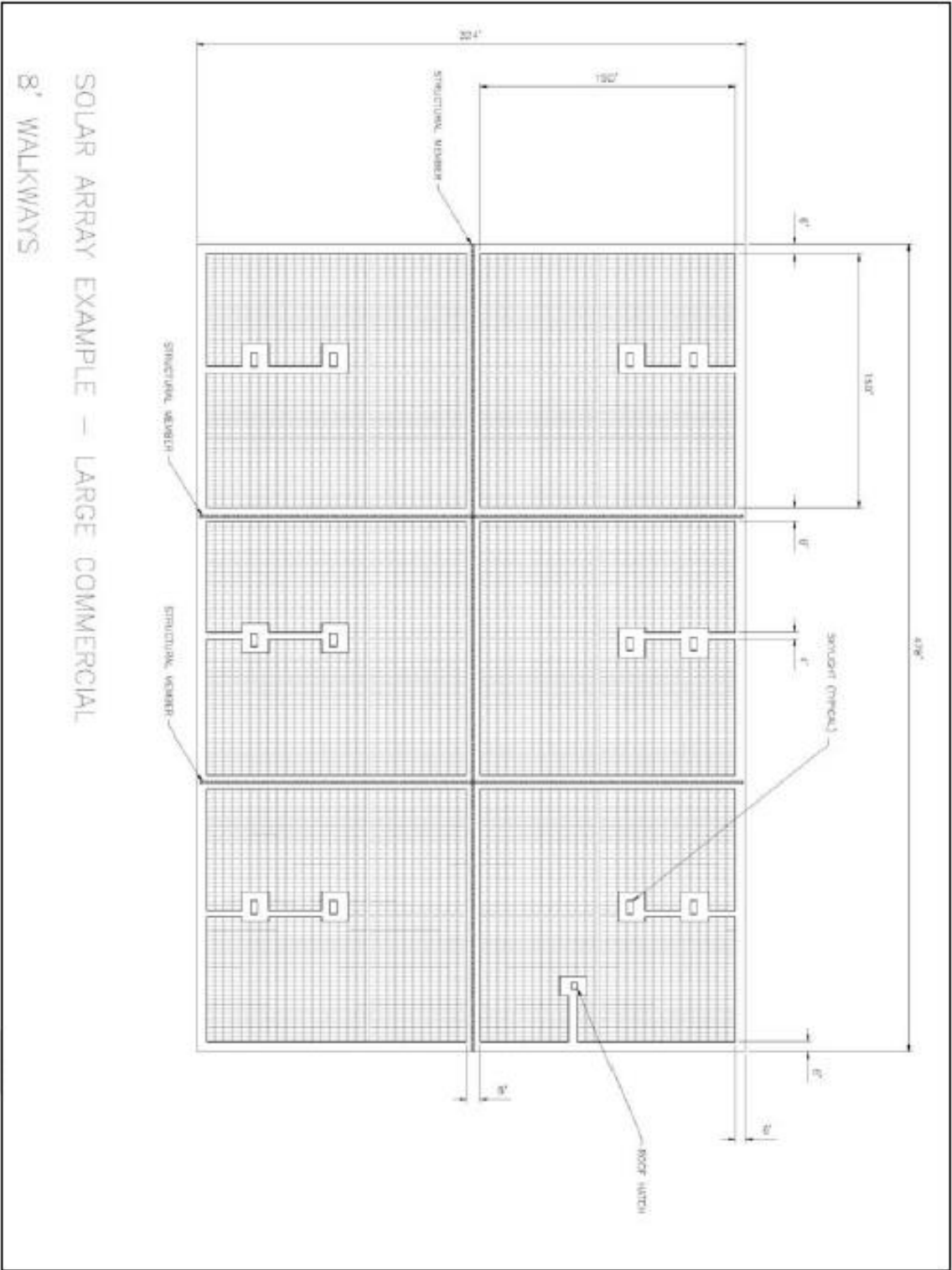


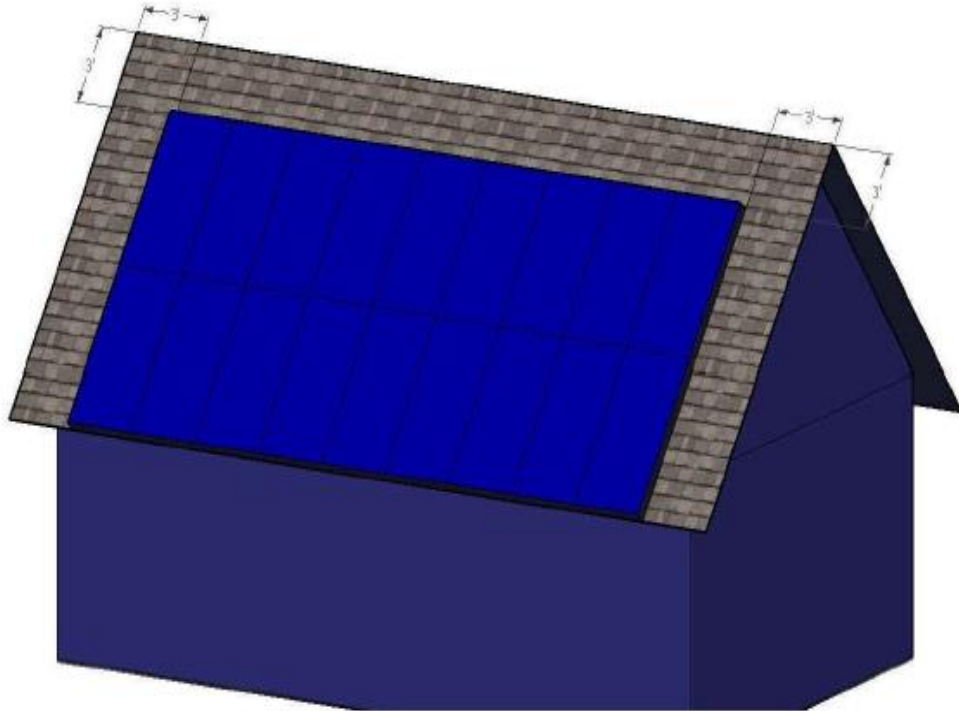
Diagram 2: Cross Gable with Valley



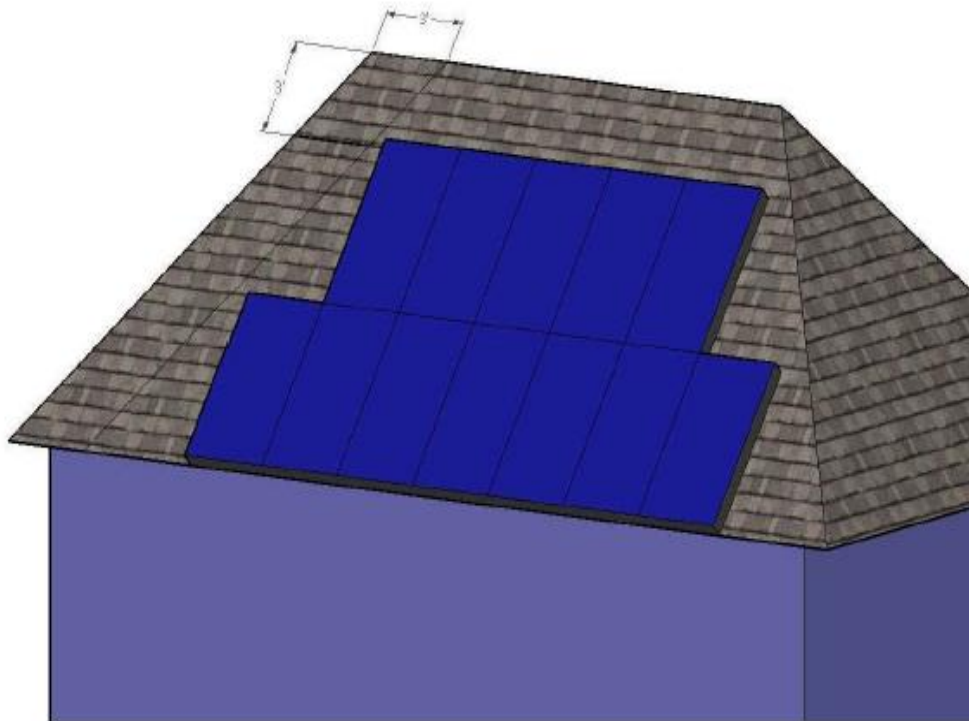


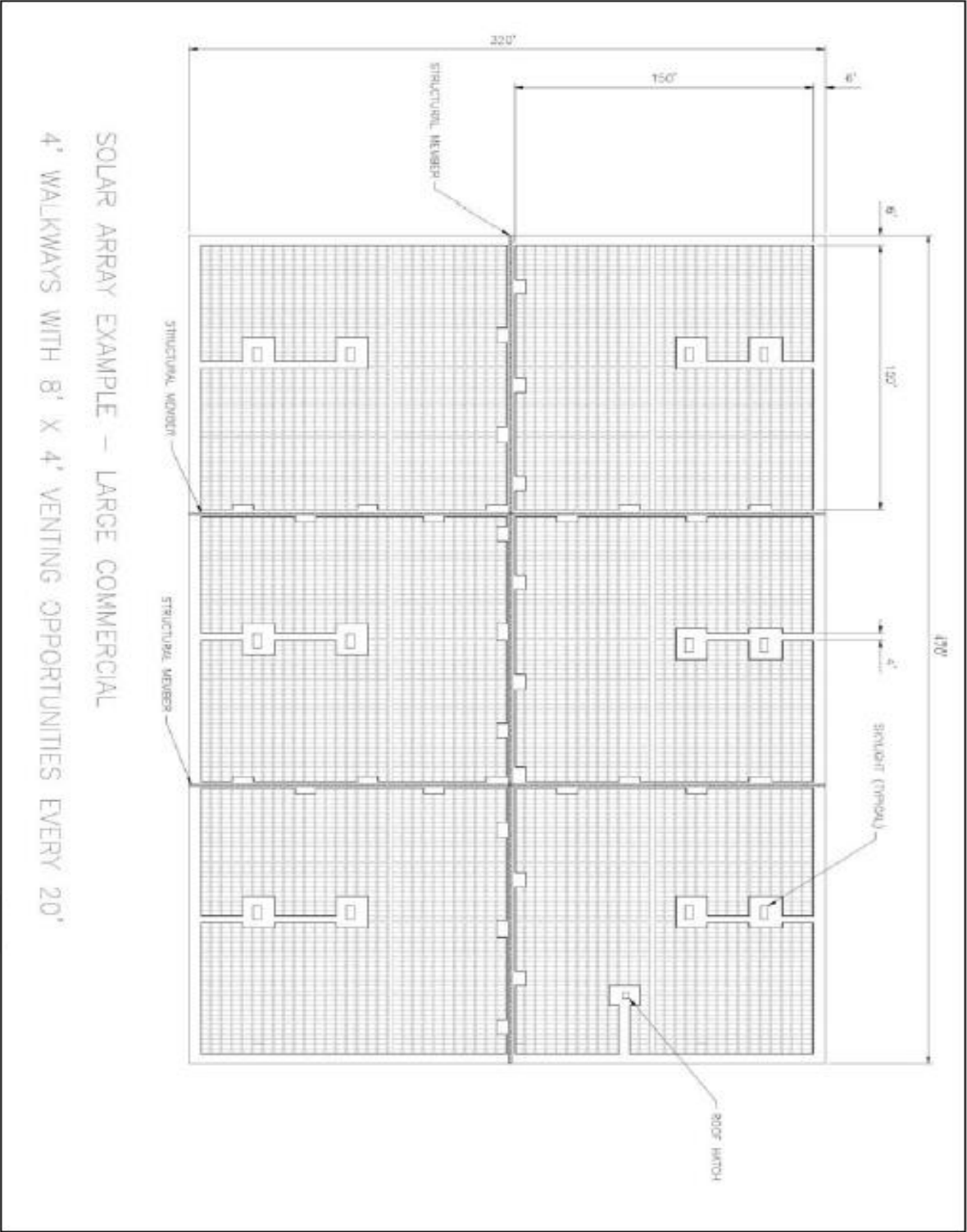
SOLAR ARRAY EXAMPLE – LARGE COMMERCIAL
8' WALKWAYS

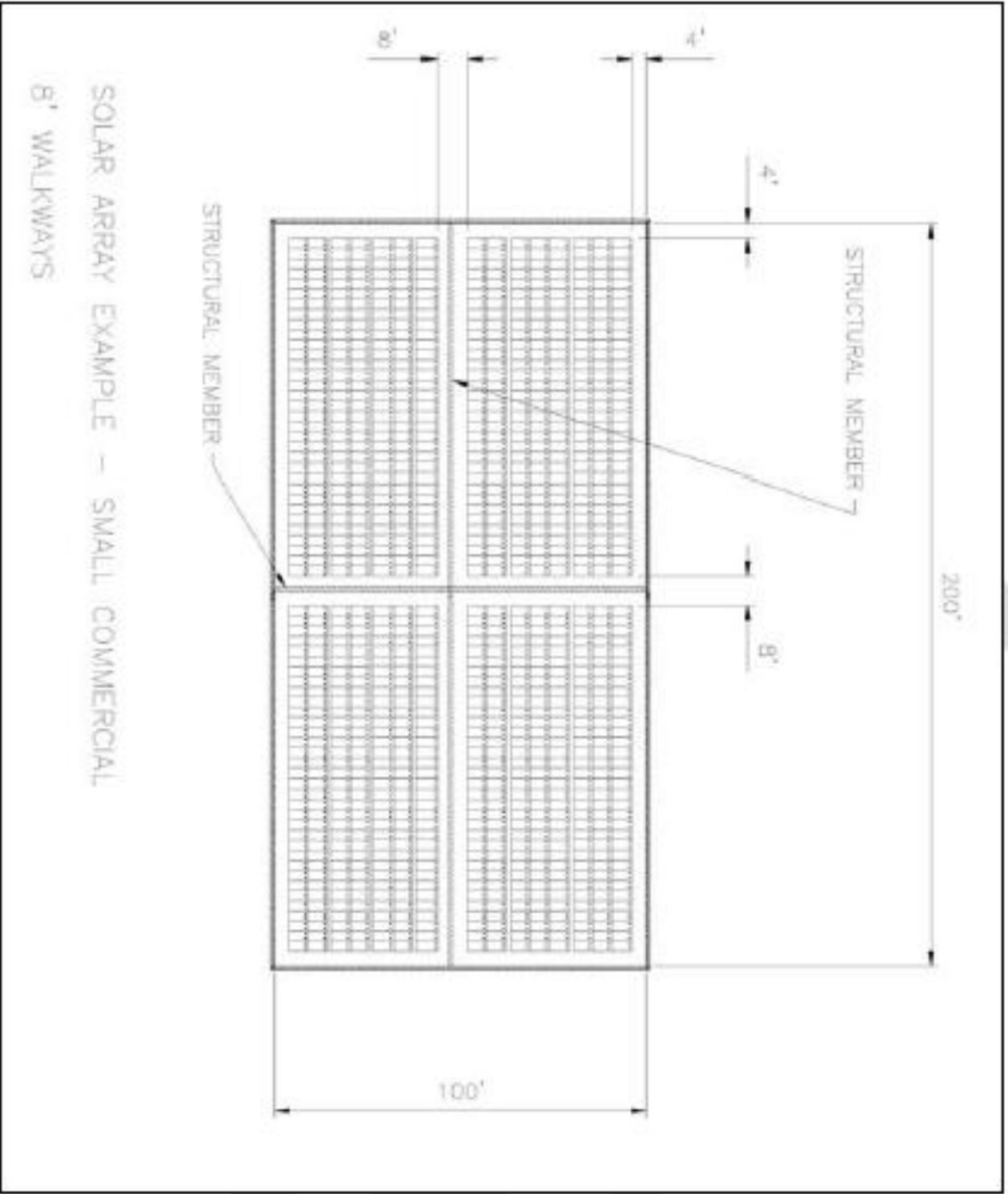
Diagram 3: Full Gable



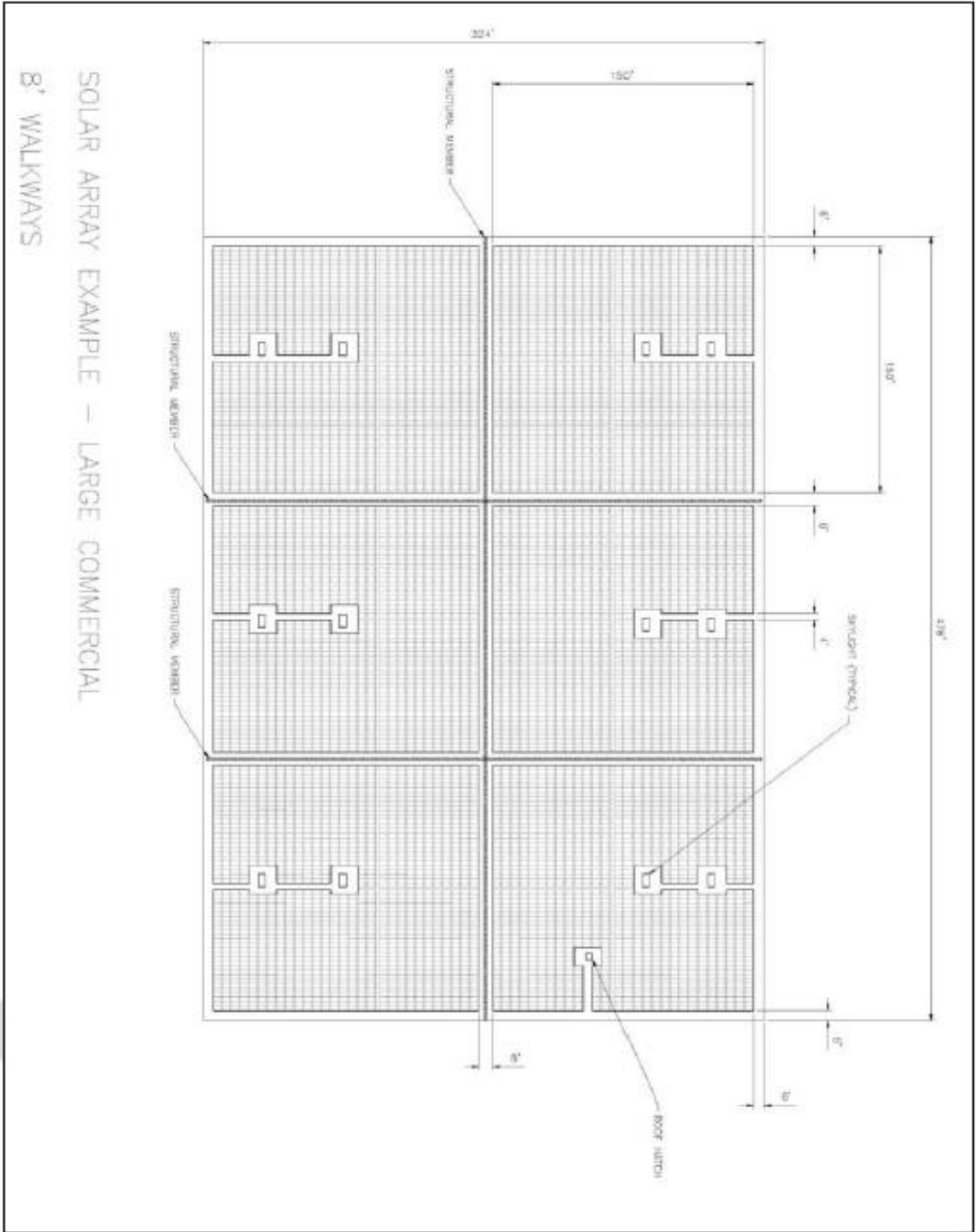
Example 4: Full Hip Roof







SOLAR ARRAY EXAMPLE – SMALL COMMERCIAL
6' WALKWAYS



SOLAR ARRAY EXAMPLE – LARGE COMMERCIAL
8' WALKWAYS