### HISTORIC AND DESIGN REVIEW COMMISSION

May 06, 2015 Agenda Item No: 31

2015-150
112 W MAGNOLIA AVE
NCB 1836 BLK 11 LOT 7
MF33 H
1
Monte Vista Historic District
Michael Higgins/Green Star Solutions
Paul Pheifer
Solar panel installation

#### **REQUEST:**

The applicant is requesting a Certificate of Appropriateness for approval to install solar panels on the side and rear facing portions of the roof.

### **APPLICABLE CITATIONS:**

Historic Design Guidelines, Chapter 3, Guidelines for Additions

6. Designing for Energy Efficiency

C. SOLAR COLLECTORS

i. Location—Locate solar collectors on side or rear roof pitch of the primary historic structure to the maximum extent feasible to minimize visibility from the public right-of-way while maximizing solar access. Alternatively, locate solar collectors on a garage or outbuilding or consider a ground-mount system where solar access to the primary structure is limited.

ii. Mounting (sloped roof surfaces)—Mount solar collectors flush with the surface of a sloped roof. Select collectors that are similar in color to the roof surface to reduce visibility.

#### FINDINGS:

a. According to the Guidelines for Additions, solar collectors should be located on the side or rear roof pitch to minimize visibility from the public right of way. As proposed, the majority of the panels will be hidden from view and located towards the rear of the structure. However, some of the panels on the east side of the house will be visible from the street.

#### **RECOMMENDATION:**

Staff does not recommend approval as submitted based on finding a. Staff recommends that panels on the east side of the structure are relocated to the garage if possible to minimize view from the street.

### CASE MANAGER:

Adriana Ziga





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MAIN ELECTRIC SERVICE (EAST SIDE)



Array	Quantity	Tilt	Azimuth	Pfiefer
1	20	40	96	112 w. Magnolia Ave
2	6	37	186	San Antonio, TX 78212
3	14	40	276	(40) Stion STO 150W

## SE5000A-US (20)SOLAR EDGE





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SITE ELEVATION VIEW Pfiefer 112 w Magnolia Dr San Antonio, TX 78212











#### Sol Attach, LLC Patent Pending

The Sol Attach tilted roof mounting system is the most efficient mounting system in the solar industry. With only one piece to purchase, transport, inventory, and install, you will save time and money. The sleek design will ensure an aesthetically pleasing solar installation. These mounts use 85% less aluminum than conventional rail systems, reducing impact on the environment.

# **Composition Roof**

- Mounts to decking, not rafters.
- PE Stamped certifications available for all fifty states, including coastal regions up to 200 mph.
- LOWER COST: Save up to 50% over conventional rail systems.
- No more rails to purchase, ship, inventory, deliver, cut, or haul to roof.



- Fast: installs in HALF the time of conventional rail systems reducing installation costs.
- Available in 3 finishes: mill (standard); anodized (extra corrosion-resistant), and Marinegrade black (best corrosion-resistance).



- Uses conventional mid-clamps.
- No need for end-clamps.
- Top down bolt eliminates unsightly bolt ends sticking up above clamps
- Provides optimum air space under the module for more efficient production
- LIGHTWEIGHT: Mount only weighs 0.65 lbs.
- Better load distribution, fewer obstructions, and less weight make it safer for the roof.



Sol Attach, LLC **Composition roof mounting foot** Extrusions made of 6061-T6 alloy Patent Pending 2009 IRC, IBC, and ASCE 7-10 compliant







