Design Criteria

Foundation (below grade)
- Wind load: 90 mph minimum (max at 100mph)
- All codes are compliant with CBC 2010/ASCE 7-05

Columns
- HSS AISC Grade A-36
- Coating Options: Primed or Hot Dip Galvanized

Beams
- HSS AISC Grade A-36
- Coating options: Primed or Hot Dip Galvanized

Electrical System Integration
- Lighting: Optional lighting fixtures can be mounted to column or canopy, providing indirect ambient light or down-lighting.
- Note: All Residential Unit are pre-fit with spare conduits for future devices such as communication, security, or flat-screen advertising panels

Foundation (below grade)
- Footing type: Reinforced concrete caisson foundation or spread footing, structurally designed per soil conditions.
- Concrete Strength: 2,500 psi (minimum)

Note: Structural foundation design is not included.
Additional engineering services available in select locations upon requests

Options
- Fixed tilt slope up to 10°
- Site specific layout and configuration
- Hot Dip Galvanizing
- Solar Racking
- Roof Sheetings
- Electrical Vehicle Charging Station
- Soft-lit Under Sheeting
- Lighting
- Branding and advertising
- Electric Vehicle Charging stations

Patent Pending
L-Shaped Cantilever

SOLAR MODULE

BEAM TO COLUMN ATTACHMENT PER DETAIL (ANGLE ADJUSTABILITY)

ACCESS HOLE FOR ELECTRICAL WIRE

RAIL PER SECTION

COLUMN PER SECTION

ACCESS HOLE FOR ELECTRICAL WIRE

PER FOUNDATION PER DETAIL

FOR ATTACHMENT OF SOLAR MODULE TO RAIL SEE DETAIL.

RAIL TO BEAM CONNECTION PER DETAIL

CANTILEVER ISOMETRIC PLAN
**SECTION AT SINGLE POST SOLAR SUPPORT STRUCTURE - SLOPE UP**

**SECTION NOTES:**
1. SOLAR MODULE
2. RAIL
3. BEAM
4. COLUMN
5. 4" DIA. ACCESS HOLE FOR ELECTRICAL WIRE
6. MIN. 8" CONCRETE FOOTING
7. FINISH GRADE

**SECTION DETAILS:**
A. SOLAR MODULE & RAIL
B. RAIL & BEAM
C. END CAP FOR BEAM
D. BEAM & COLUMN
E. COLUMN & FOOTING
F. FOOTING & FOUNDATION

**SECTION AT SINGLE POST SOLAR SUPPORT STRUCTURE - SLOPE DOWN**

**SECTION DETAILS:**
(D) - BEAM ATTACHMENT
(E) - COLUMN ATTACHMENT
(F) - FOOTING ATTACHMENT
(A) - MODULE ATTACHMENT
(B) - RAIL ATTACHMENT
(C) - END CAP ATTACHMENT