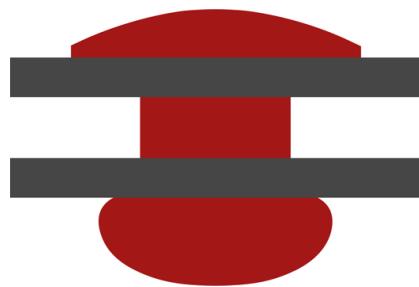


My Report Title

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[0101] Codes

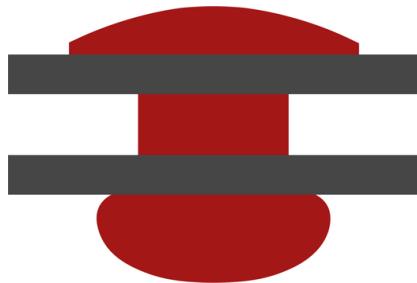
[1] Project Summary xx

This report **describes** the structural design of a solar canopy *covering* a residential patio located in the City of Larkspur, California. It includes the design of a concrete slab and *stem* wall, steel tube frame, and clip attachments of solar panels to the frame.

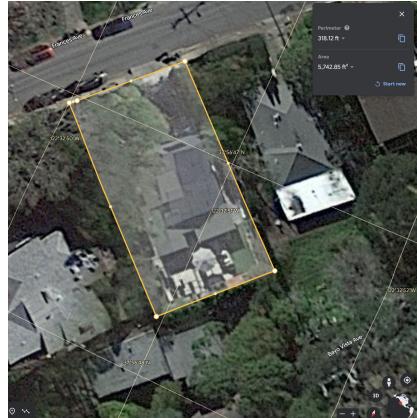
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[2] Overview and Codes

This report **describes** the structural design of a solar canopy *covering* a residential patio located in the City of Larkspur, California. It includes the design of a concrete slab and *stem* wall, steel tube frame, and clip attachments of solar panels to the frame.



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$$wt_2 = \frac{a_2 \cdot dl_2}{2} + 4$$

Building Codes and Jurisdiction

- City of Larkspur, California
- 2019 California Building Code [CBC]
- 2019 California Residential Code [CRC]

[0101] Codes

Table 01 - My Table [from file: ins01/cbc2019A_stds.csv]

Category	Standard	Year
Loading	ASCE-7	2016
Concrete	ACI-318	2014
Wood-National Design Specifications	AWC-NDS	2018
Wood-Special Design Provisions for Wind and Seismic	AWC-SDPWS	2015
Wood Frame Construction Manual	AWC-WFCM	2018

Design loads for the project are from the California Building and Residential Codes and are summarized in the following tables.

Table 02 - Another Table Title [from file: ins01/load_types01.csv]

Sym	Load Effect	Notes
D	Dead load	See IBC 1606 and Chapter 3 of this publication
E	Combined effect of horizontal and vertical earthquake-induced forces as defined in ASCE/SEI 12.4.2	See IBC 1613, ASCE/SEI 12.4.2 and Chapter 6 of this publication
Em	Maximum seismic load effect of horizontal and vertical forces as set forth in ASCE/SEI 12.4.3	See IBC 1613, ASCE/SEI 12.4.3 and Chapter 6 of this publication
H	Load due to lateral earth pressures, ground water pressure or pressure of bulk materials	See IBC 1610 for soil lateral loads
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R	Rain load	See IBC 1611 and Chapter 3 of this publication
W	Load due to wind pressure	See IBC 1609 and Chapter 5 of this publication

Table 03 - Load Combinations

Table 04 - xxx [from file: ins01/asce7_load_comb.csv]

CBC 2019 reference	Equation
Equation 16-1	1.4(D + F)
Equation 16-2	1.2(D + F) + 1.6(L + H) + 0.5(L or S or R)
Equation 16-3	1.2(D + F) + 1.6(Lr or S or R) + 1.6H + (f1L or 0.5W)
Equation 16-4	1.2(D + F) + 1.0W + f1L + 1.6H + 0.5(Lr or S or R)
Equation 16-5	1.2(D + F) + 1.0E + f1L + 1.6H + f2S
Equation 16-6	0.9D + 1.0W + 1.6H

[3] Gravity Loads and Seismic Mass

Equation 16-7	$0.9(D + F) + 1.0E + 1.6H$
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[3] Gravity Loads and Seismic Mass

E01 - First floor dimensions

variable	value	[value]	description
area1	10700.00 sf	994.06 SM	roof area
area2	100000.00 sf	9290.30 SM	floor area
area3	25.00 sf	2.32 SM	floor area
ht1	9.00 ft	2.74 m	wall height
len1	110.00 ft	33.53 m	interior wall length
len2	155.00 ft	47.24 m	exterior wall length
udl1	12.20 psf	584.14 Pa	description

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[from file: vals01test1.csv]

variable	value	[value]	description
floordl1	50.00 psf	2394.01 Pa	interior wall length
floordl2	10.00 psf	478.80 Pa	exterior wall length

E02 - Equation for floor area

$$wt_2 = area_2 \cdot floordl_1$$

ACI-315-05

wt2	area2	floordl1
5000.00 kips	100000.00 sf	50.00 psf
22241108.00 N	9290.30 SM	2394.01 Pa

E03 - Equation for wall area

$$wt_3 = area_3 \cdot floordl_2 \cdot 0.1$$

ACI-315-05

wt3	floordl2	area3
25.0 lbs	10.00 psf	25.00 sf
111.2 N	478.80 Pa	2.32 SM

E04 - Exterior wall - total area load

[from file: vals01test2.csv]

variable	value	[value]	description
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[3] Gravity Loads and Seismic Mass

len1	410.00 ft	124.97 m	interior wall length
len2	455.00 ft	138.68 m	exterior wall length

[0102] Loads

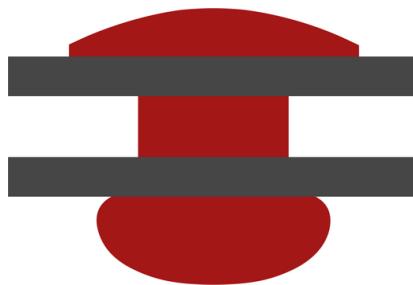
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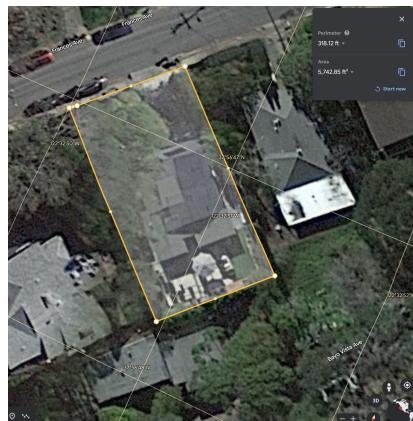
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[3] Gravity Loads and Seismic Mass

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ACI-315-05

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