

# *Top Four Decathlon 2013 Projects*

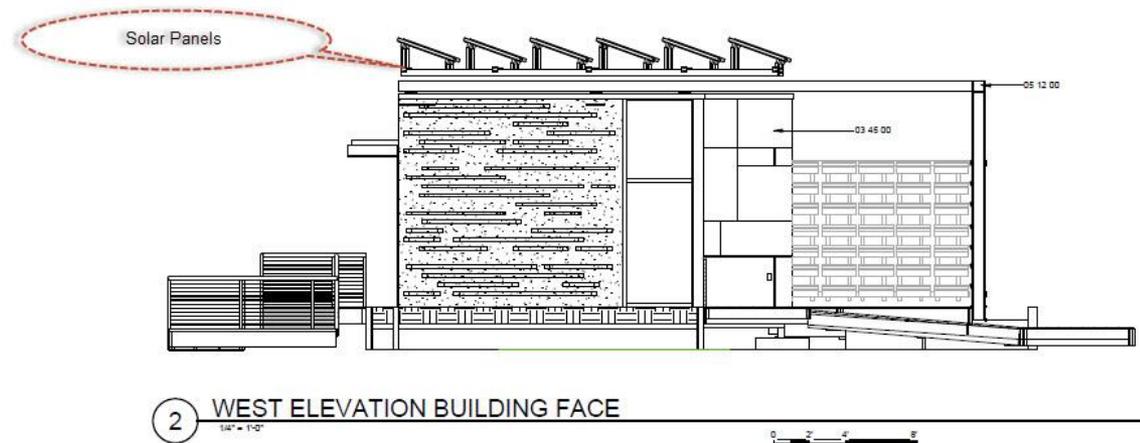
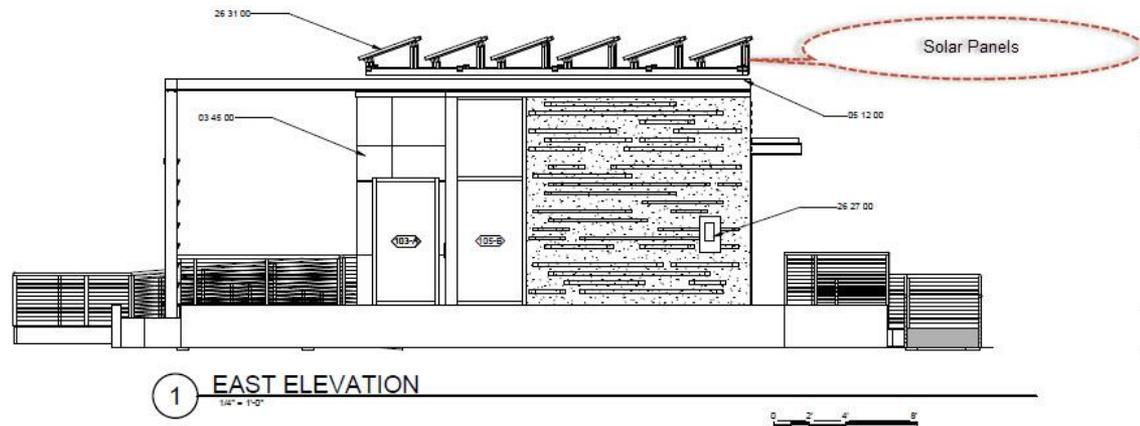
Arch 3630

Prof Aptekar

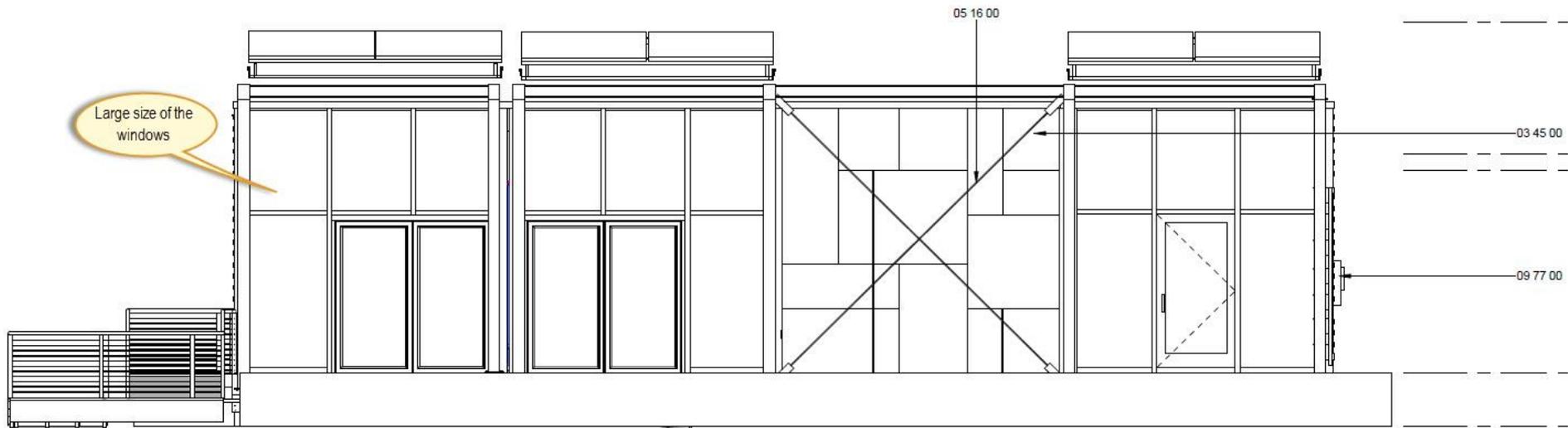
By : Anzhella Mesian

# The University of North Carolina at Charlotte

- This building has solar panels for using sun light and saving energy and its cost.
- Solar panels are installed on the roof by using rail system.



- Building has large size of clerestory windows that brings more natural light inside.



SOUTH ELEVATION @ BUILDING

1/4" = 1'-0"



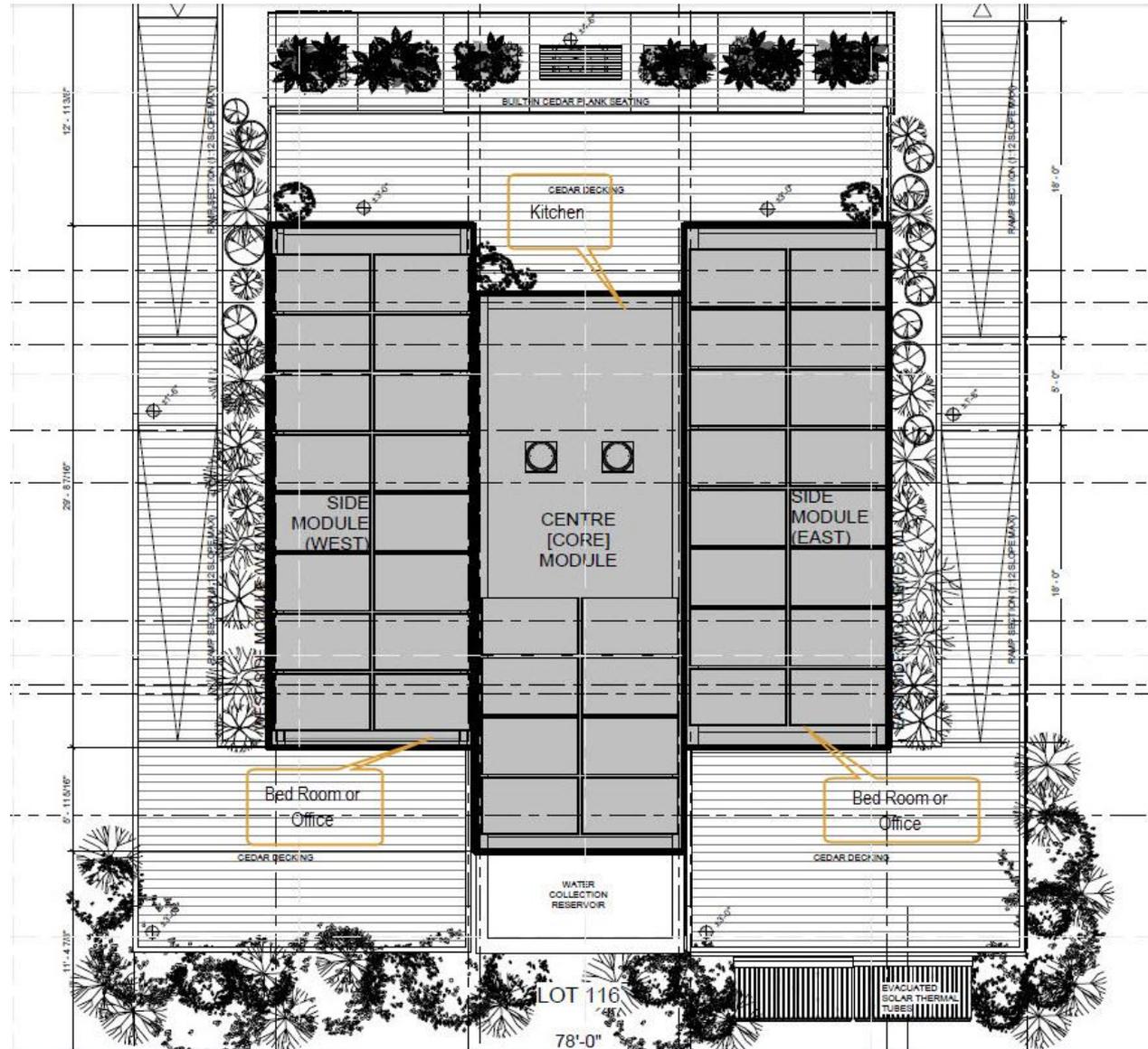
## REFERENCE KEYNOTES

03 45 00	PRECAST ARCHITECTURAL CONCRETE
05 16 00	STRUCTURAL CABLING
05 52 00	METAL RAILINGS
09 77 00	SPECIAL WALL SURFACING
26 31 00	PHOTOVOLTAIC COLLECTORS

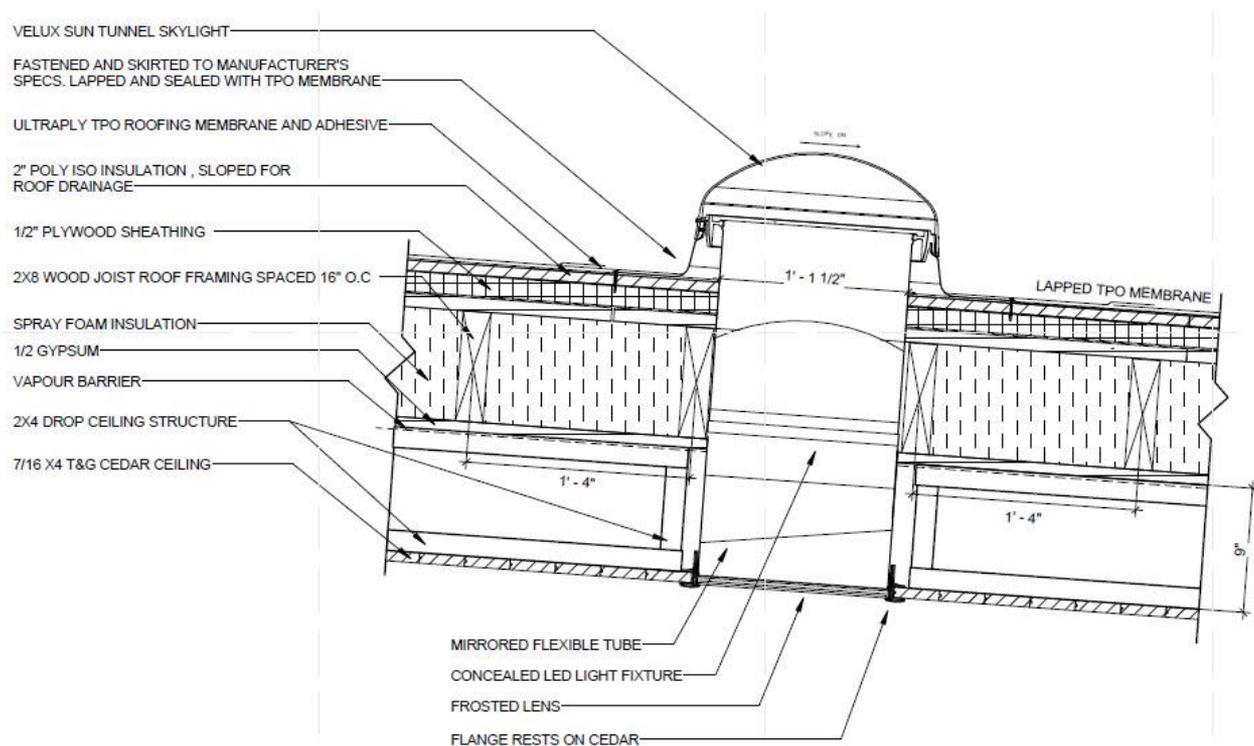


# Team Alberta: University of Calgary

- Building is divided on very interesting way ; two simple room for working and resting and one kitchen that separates these rooms .
- Trees and planets are used for site design all Around the building.



- In this building, green wall is part of interior design. Green wall helps to purification air and brings the nature even inside the rooms. This live wall is maintained by sun tunnel skylights.



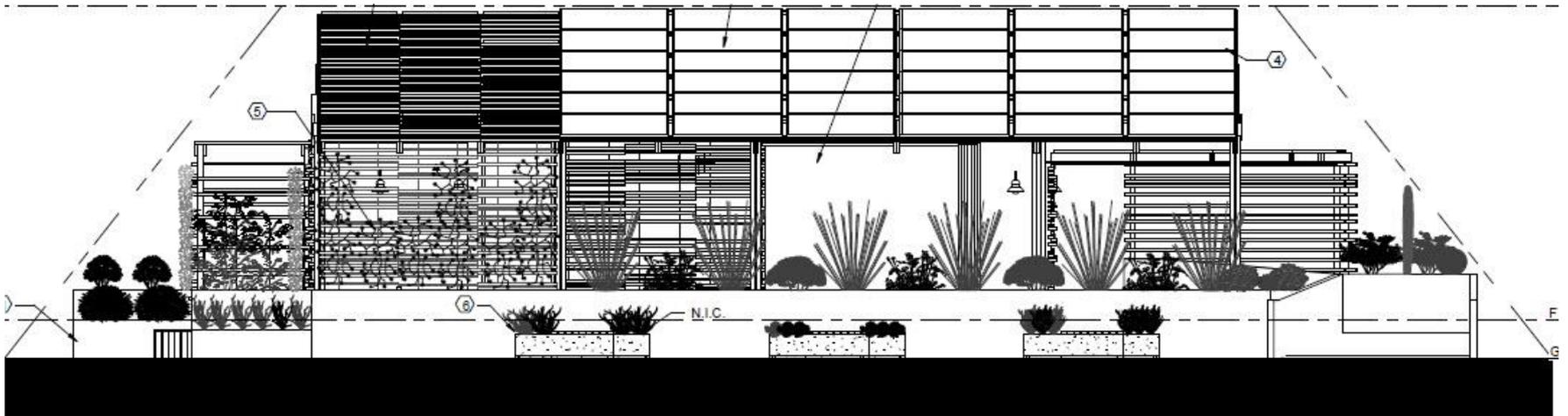
**C1** A - SOLAR TUNNEL DETAIL -G  
 1 1/2" = 1'-0"



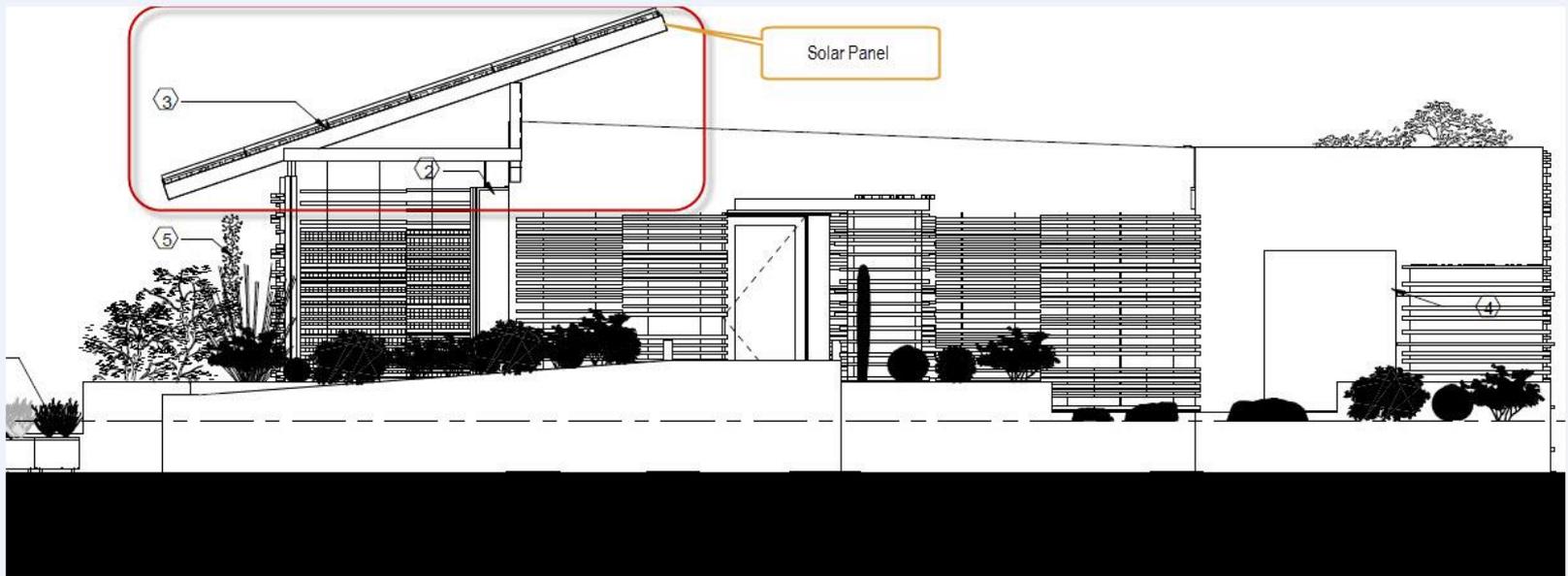
# Arizona State University and The University of New Mexico

## Mexico

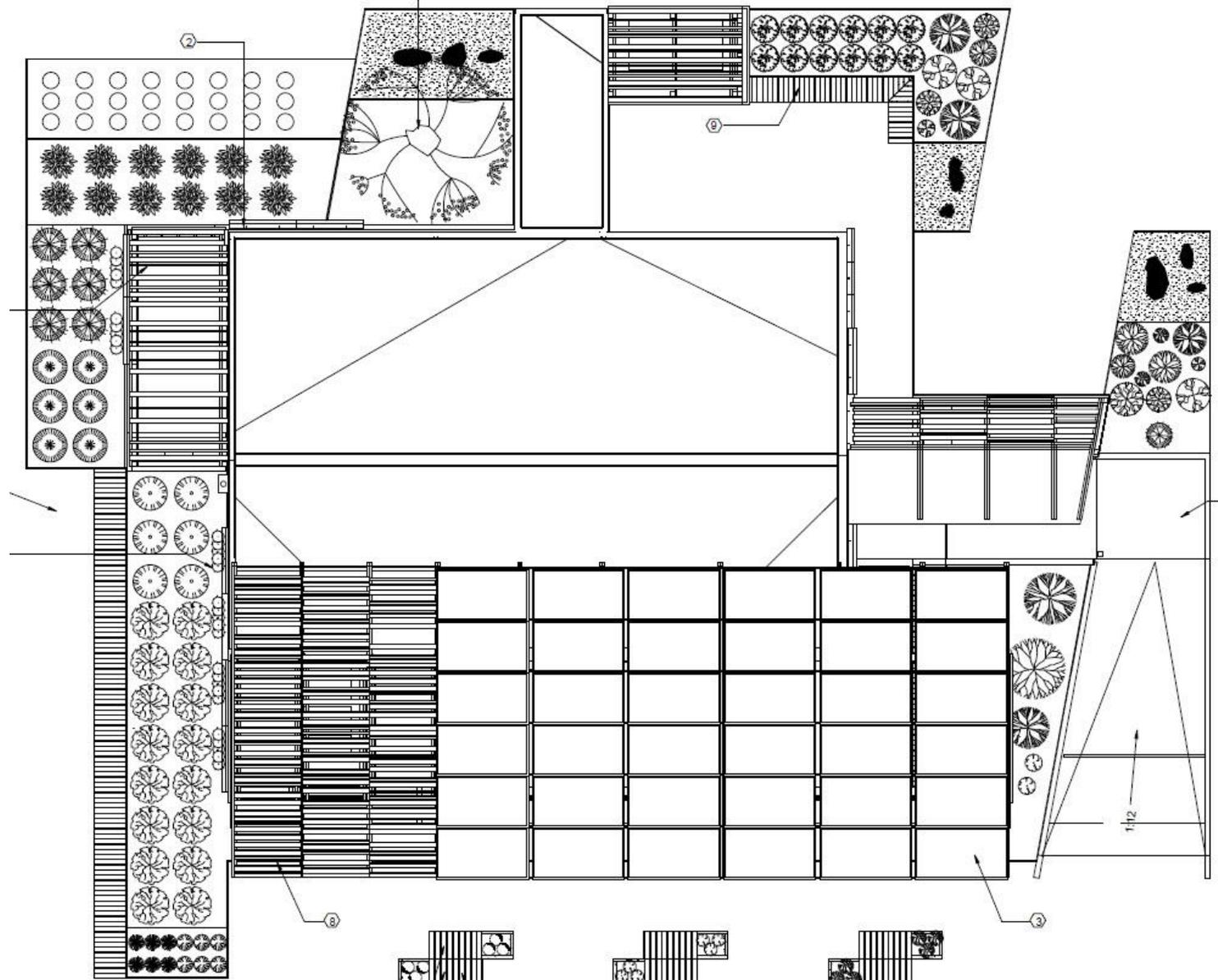
- The building has screens on the walls that provide shade and shadow .



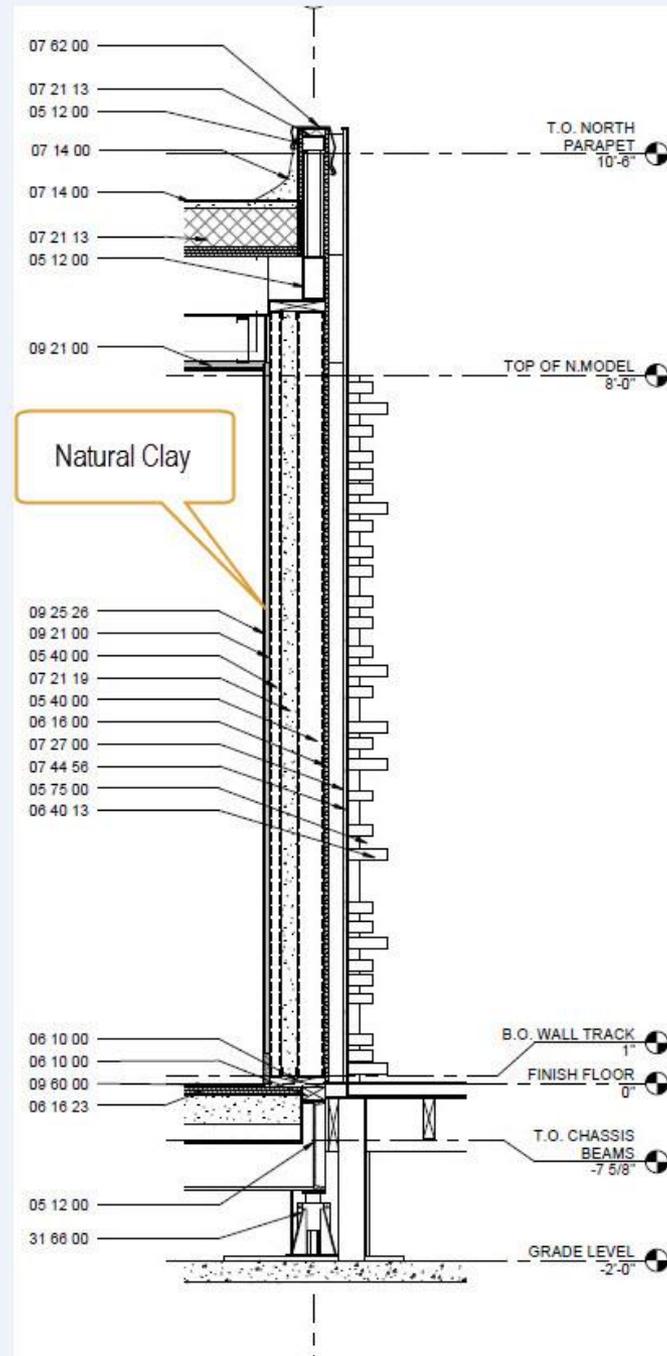
- Building has solar panels to provide for using sun light and saving energy and its cost.



- There are lots of different kind of vegetation all around the house to improve the climate .



- There is natural clay on interior wall that helps to control the humidity.



### REFERENCE KEYNOTES

- 05 12 00 – HSS
- 05 40 00 – METAL FRAMING
- 05 54 00 – METAL FLOOR PAN
- 05 75 00 – DEC. FORMED METAL
- 06 05 23 – JOIST HANGER
- 06 10 00 – BLOCKING
- 06 16 00 – SHEATHING
- 06 16 23 – SUBFLOOR
- 06 40 13 – EXT. ARCH. WOODWORK
- 06 40 23 – INT. ARCH. WOODWORK
- 06 73 00 – COMPOSITE DECKING
- 07 13 00 – SHEET WATERPROOFING
- 07 14 00 – FLUID-APPLIED WATERPROOFING
- 07 21 13 – BOARD INSULATION
- 07 21 19 – FOAMED IN PLACE INSULATION
- 07 27 00 – WATER-RESISTIVE WEATHER BARRIER
- 07 44 56 – FIBER CEMENT BOARD
- 07 62 00 – FLASHING
- 07 90 00 – JOINT PROTECTION (CAULKING)
- 08 35 13.13 – ACCORDION DOORS
- 08 95 00 – VENTS
- 09 21 00 – PLASTER AND GYPSUM BOARD ASSEMBLY
- 09 25 26 – NATURAL CLAY PLASTERING
- 09 60 00 – MARMOLEUM FLOORING
- 26 31 00 – PHOTOVOLTAIC COLLECTORS
- 31 66 00 – SPECIAL FOUNDATIONS (PIERS)

### ○ SHEET KEYNOTES

1. BARN DOOR

# Southern California Institute of Architecture and California Institute of Technology

- Building has potential to have outdoor living space ; like courtyard.

