

# JMPSTR!

## CLIMATE ANALYSIS AND ENVIRONMENTAL PROPOSALS:

### CLIMATE GENERAL INFORMATION:

#### General Information:

|                 |  |
|-----------------|--|
| Climate type:   | Temperate  |
| Latitude:       | 40 degrees latitude  |
| Average winter: | Low – 15 F, High – 35 F, Occasional snow, typical 1” to 6”           |
| Average Spring: | Low – 40 F, High – 55 F, Generally sunny, some rain, rare snow       |
| Average Summer: | Low – 65 F, High – 85 F, Generally sunny, occasional summer T-Storms |
| Average Fall:   | Low – 40 F, High – 55 F, Crisp, sunny, windy                         |

#### Site Info:

Site faces to SW, with generous sunlight (perhaps too much). Mostly low buildings surrounding (max 3.5 stories), therefore only shadowed close to property line. Building site to SE is currently open and could be a building as tall as 65’ and therefore could cast a shadow on our site.

Soil is contaminated from a previous building, however below the previous disturbance the soils seem to be reasonable sandy-gravel (approximate 4000 psf) with bedrock below at approximately 40’ below grade.

### PROPOSALS:

1. Natural daylight capture
2. Block solar gain in summer, accept it in winter
3. Geo-thermal?
4. Operable windows or venting controlled locally
5. Controlled cross ventilation opportunities
6. Green roof opportunities (can be shared use with employee break areas / party rooms)
7. Stormwater runoff handled on site with green roof systems, porous pavers, and French drains
8. Night-sky lighting (minimal and downward focus)
9. Extra bike racks, shower room