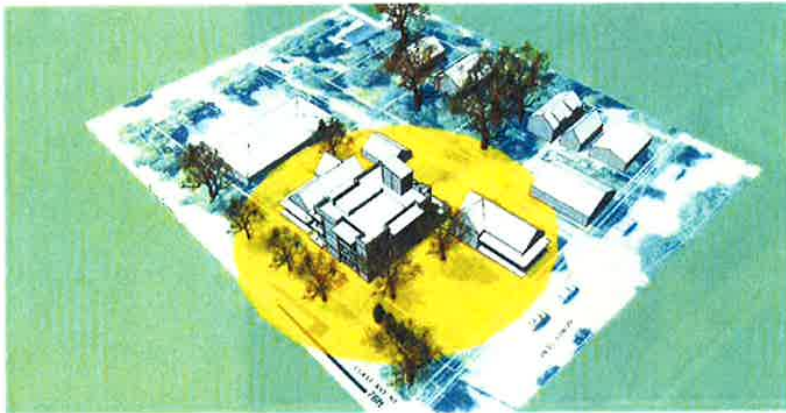


Shadow analysis



June 21, 9am



Jun 21, 12pm



Jun 21, 3pm

Tanasse Mixed Use Building Solar Study - MSGS Architects



Sep 21, 9am



Sep 21, 12pm

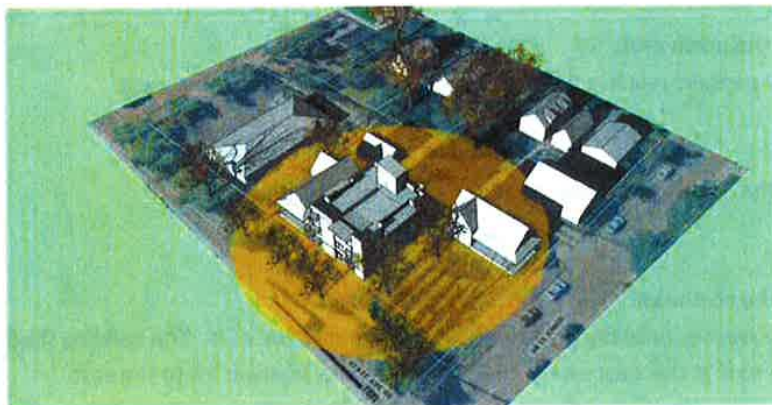


Sep 21, 3pm

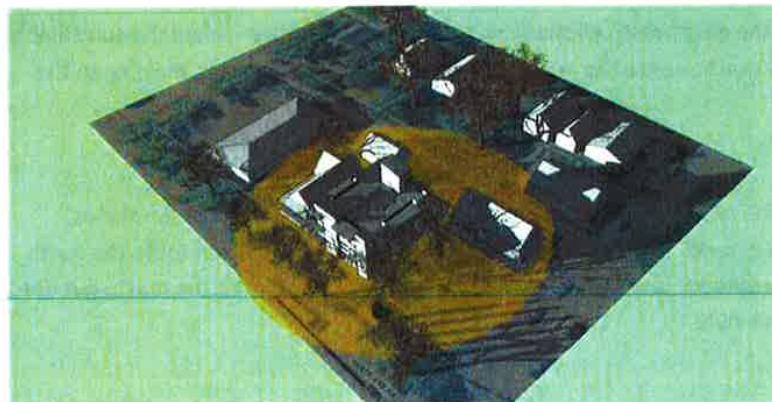
Tanasse Mixed Use Building Solar Study - MSGS Architects



Dec 21, 9am



Dec 21, 12pm



Dec 21, 3pm

Solar shadow narrative - 924 State Avenue NE (to accompany 3-D solar shadow images for these times)

June 21st, 9am

- Shadows extend to the northwest.
- The building shadow reaches the east face but not the roof of the adjacent building to the west.

June 21st, noon

- Shadows extend to the north, are short and remain on site.

June 21st, 3pm

- Shadows extend to the northeast.
- The building shadow reaches onto the grass of the adjacent lot to the east. The building shadow partially reaches the west end of this building.

Mar/Sept 21st, 9am

- Shadows extend to the northwest.
- The building shadow partially reaches the roof of the adjacent building to the west.

Mar/Sept 21st, noon

- Shadows extend to the north and remain on site.

Mar/Sept 21st, 3pm

- Shadows extend to the northeast.
- The building shadow reaches onto the grass of the adjacent lot to the east. The building shadow partially reaches the roof at the west end of the building on the adjacent lot to the east.

Dec 21st, 9am

- Shadows extend to the northwest. All shadows are long in December --when the sun shines.
- The building shadow reaches onto the north half of the roof of the adjacent building to the west.

Dec 21st, noon

- Shadows extend to the north. All shadows are long in December --when the sun shines.
- The building shadow extends across the alley and partially into the adjacent lot to the north. The elevator shadow extends just west of the house in the adjacent lot to the north. but does not extend to Olympia Ave.

Dec 21st, 3pm

- Shadows extend to the northeast. All shadows are long in December --when the sun shines.
- The building shadow reaches onto the roof of the adjacent building to the east. The elevator shadow extends to the garage across the alley to the northeast and out to Quince Street.

Summary of Solar Shadow Study - 924 State Avenue NE

The south facing roof surfaces (possible locations for PV panels) of the two adjacent building will continue to receive direct solar gain during most hours of the day through the year. The south facing main roof of the adjacent property to the east will be partially shaded in the late afternoon during the fall and winter months. The property to the west has south facing roof surfaces on the porch and the garage. The porch roof will continue to have full sun exposure. The garage roof will be shaded in the early morning of the winter months.

Direct solar gain through existing windows of the adjacent properties will be altered on the building elevations that face the site at 924 State Ave NE. The south and west elevations of the building to the east will receive adequate and generous daylight, but less direct sunlight in the afternoon hours. On the east elevation of the adjacent building to the west, the 4 existing east-facing windows will continue to receive daylight from the approximately 15 foot space between the buildings, but will receive less direct sunlight in the morning hours.