BEACON UNITARIAN UNIVERSALIST CHURCH
695 SPRINGFIELD AVENUE
BLOCK No. 1702, LOT No. 47
CITY OF SUMMIT, UNION COUNTY, NEW JERSEY

CREATED BY: LOUIS CHERRY ARCHITECTURE
SUBMISSION DATE: MAY 05, 2025
REVISION DATE: JUNE 13, 2025

GLARE STUDIES

These diagrams were created by the Architect in response to a request from community members and the City of Summit Council Members to demonstrate the likelihood of glare or excessive solar light reflection from street-facing glazing on the proposed building.

In order to determine the potential for glare, we completed the following steps:

1. Identify areas of glazing that are facing towards the public right-of-way
2. Identify the areas within the public right-of-way and properties across the street that would have a direct view to the glazing, accounting for wall protrusions and vegetation.
3. Using geo-located sun paths, determine if there are any points of day during the year when the sun's direct reflection creates glare or excessive solar reflection to that point of view
4. Measure the time duration for the glare
5. Identify the reflection rating of the proposed glazing in comparison to typical residential windows

Summary of potential glare from 4 different areas of glazing that face Springfield Ave. and the Public Right-of-Way: (refer to maps and images below)

- **Area A, B, and C** are highly unlikely to cause incidental glare. The orientation of the glass does not coincide with the solar path to create a direct glare. In tests where the Sun Path was altered to force a glare situation, the glare would last for approx. 10 minutes because these areas of glazing are an average of 5' wide.
- **Area D** could cause glare for a neighbor or driver located east of the property and looking or driving west along Springfield Avenue for the month of June (give or take 2 to 3 days) from about 5:55am to 6:10a. Much of this glare is mitigated by trees on the City property to the East of 695 Springfield Ave.

Summary of Glazing Exterior Visible Light Reflection:

- Proposed glass has an exterior visible light reflection value of 19%.
- A typical residential window has an exterior visible light reflection value of approximately 14%

Conclusion

- The glare that would be experience is of a short duration and consistent with typical building construction. In the professional opinion of Louis Cherry Architecture, the potential for sun glare posing a nuisance or hazard or negligible.

Architect's Seal & Signature

Digitally signed by Louis Cherry
Date: 2025.06.26 11:55:12 -04'00'

Signature _____ Date _____

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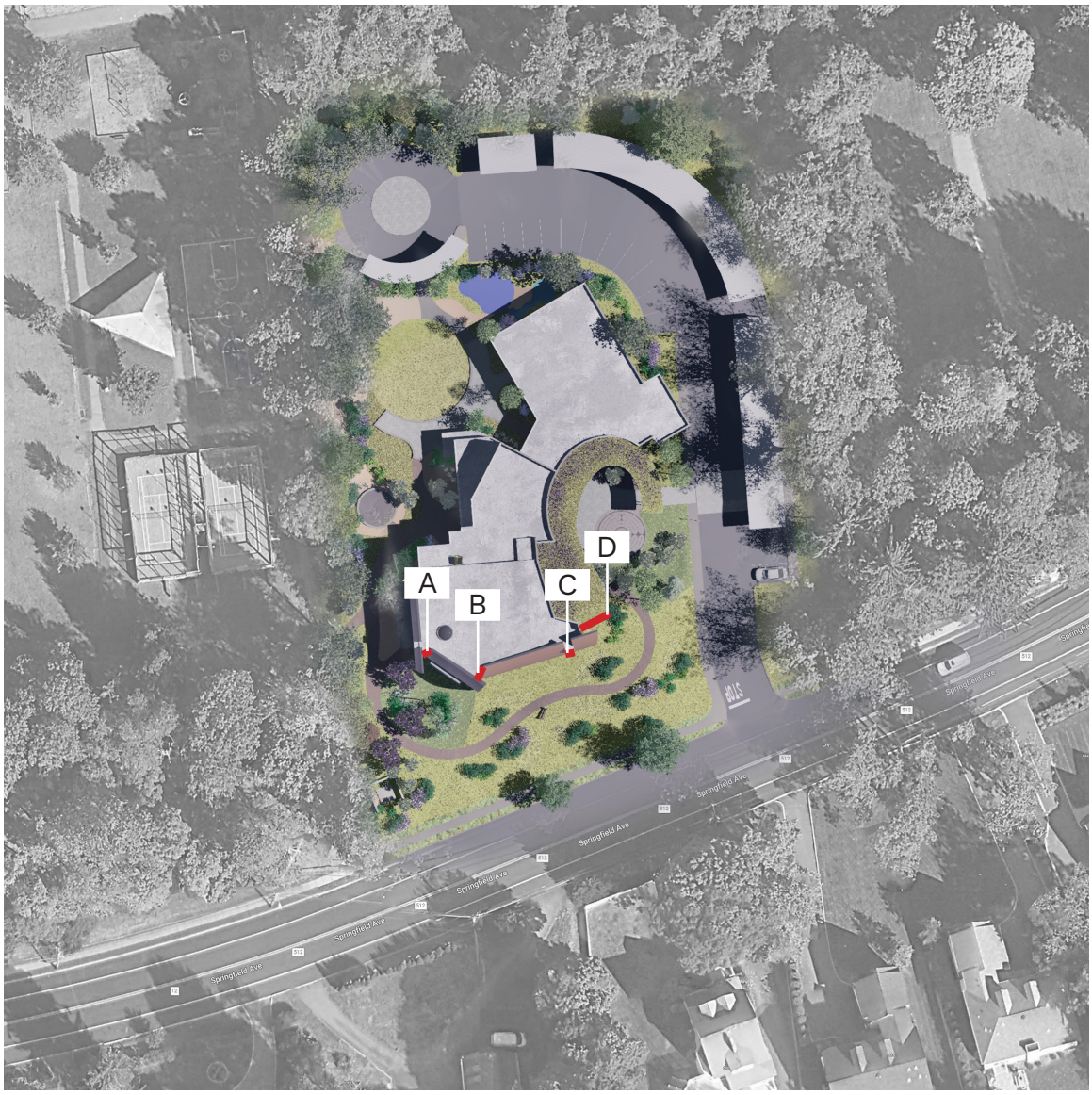
GLARE STUDIES

'SITE PLAN - PROPOSED PLAN'



Glazing that faces towards Springfield Avenue

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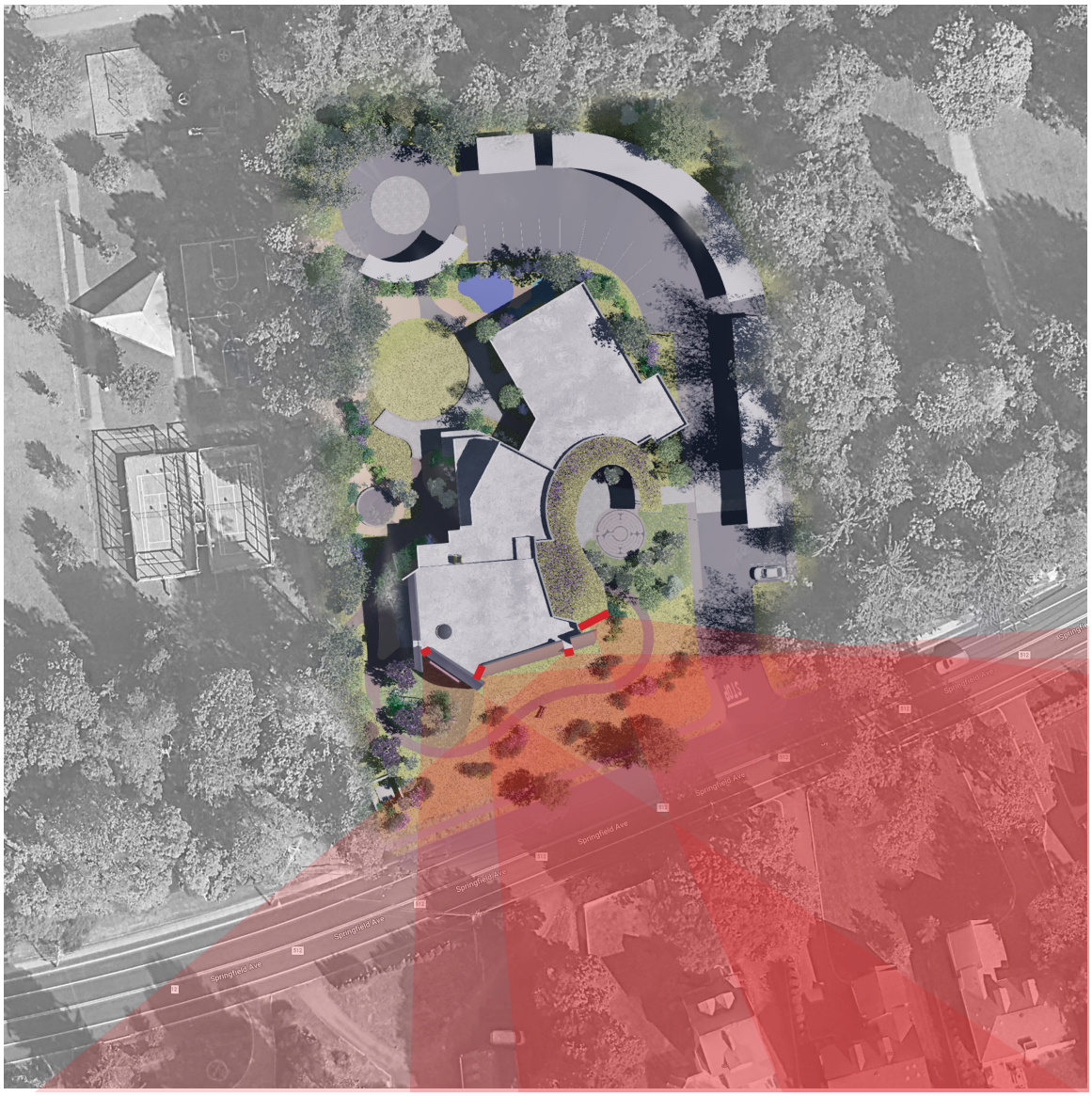
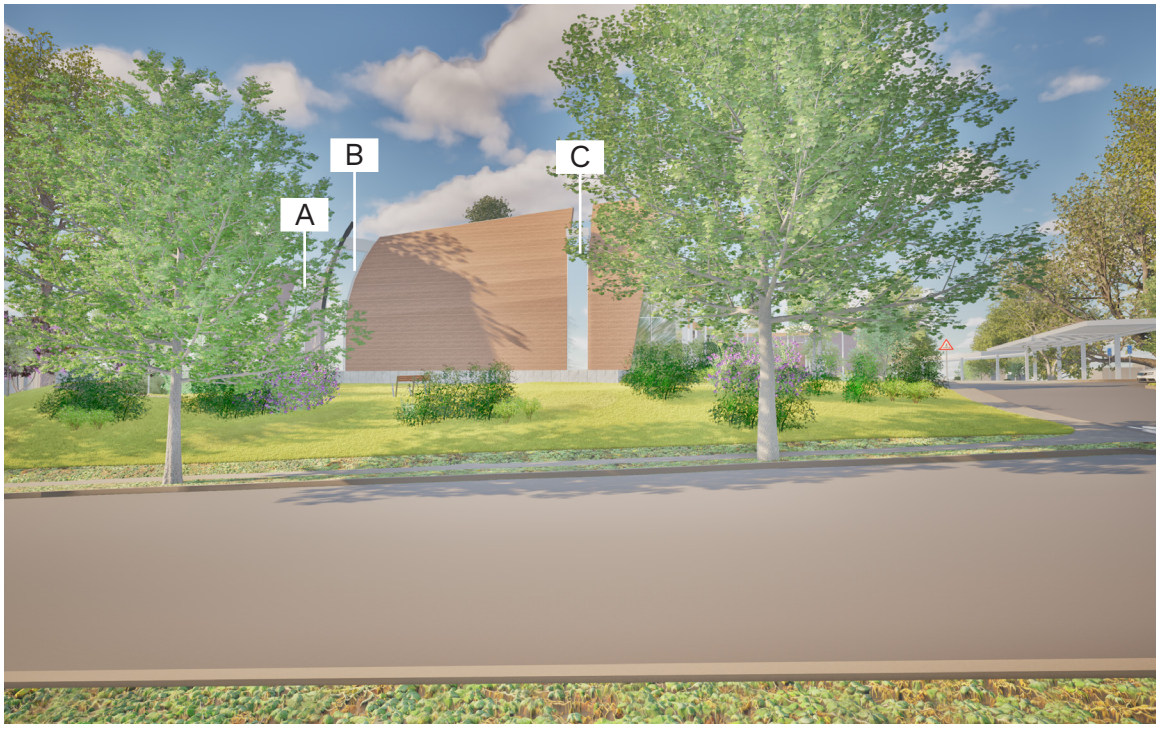


Areas where it is possible to see the glazing that is facing towards Springfield Ave

VIEWS OF GLAZING AREAS A, B, AND C



VIEWS OF GLAZING AREA D

- **Area D** could cause glare for a neighbor or driver located east of the property and looking or driving west along Springfield Avenue for the month of June from about 5:45am to 6:15AM. The magnitude of the glare from a small glass area would not constitute a hazard.