

**Study Brief:**

This shadow study is created to support the Planning Application of a five-story medium density residential building in Fergus, ON.

The shadow study was completed using the Autodesk Revit modeling program by adjusting the Sun Settings to be accurate to the proposed site graphical location and local time zones (Eastern Standard Time Zone).

The study was conducted for 5 intervals on a single day based at the solstices for Summer and Winter and the Spring/Fall equinoxes. Screen shot images were taken at the Solar Noon and include 10am, 12pm, 2pm, 4pm and 6pm.

**Reference Base Plan:**

The model used in this shadow study is accurate in scale and elevation to the proposed residential building.

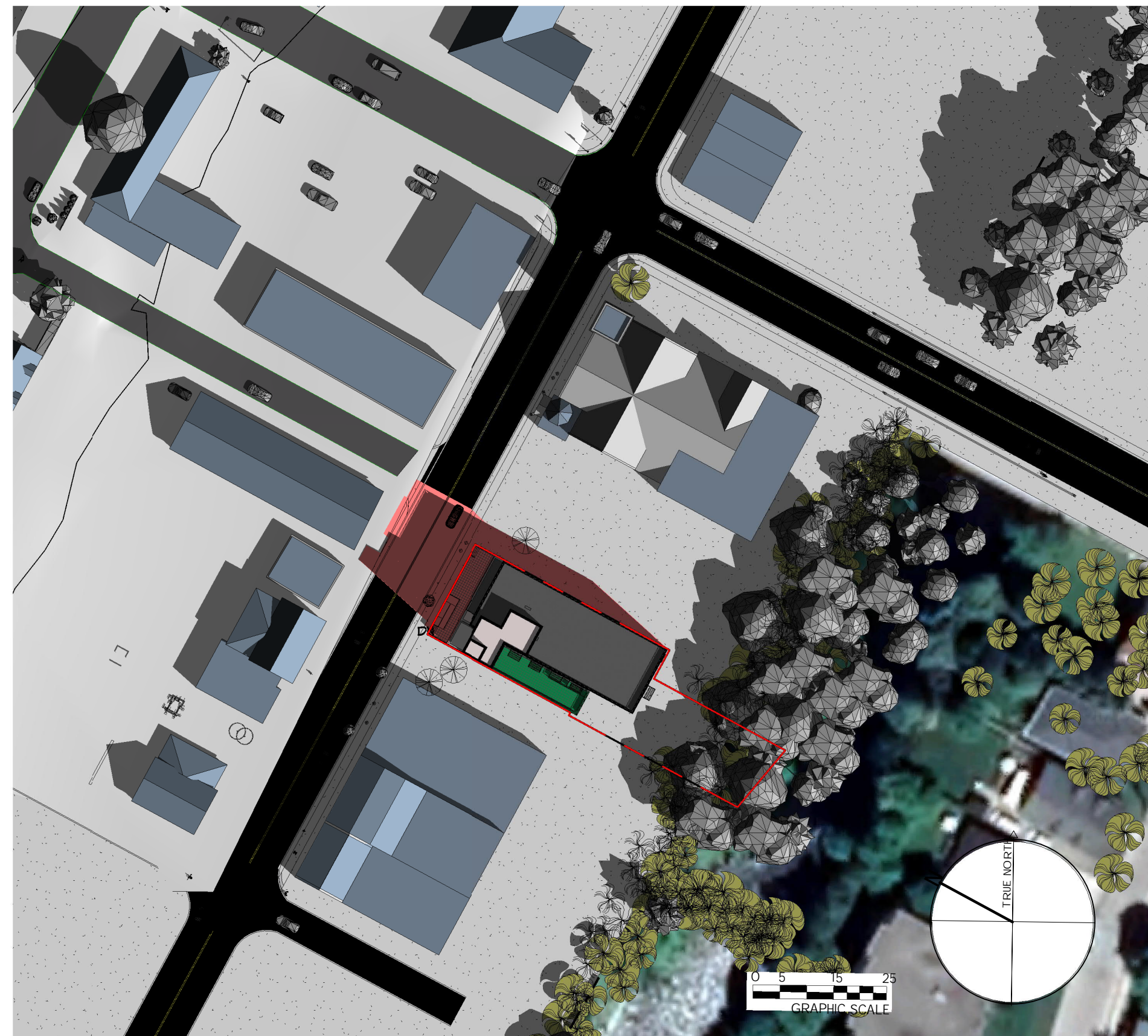
Neighboring buildings were modeled with estimated elevation and scale. Google Earth is used to confirm scale and distances to neighboring structures. Model buildings are superimposed on top of Google Earth image.

The Reference Base Plan is to be used as reference to clearly identify the site boundary, the building foot print and mass within the test site, all streets, public parks and open spaces, and all adjacent properties and buildings affected by the shadow study.



350 St. Andrews St. W, Fergus - Shadow Study  
Study Brief & Reference Base Plan





1 SPS - Spring/Fall - 10am  
S1.0 1: 850



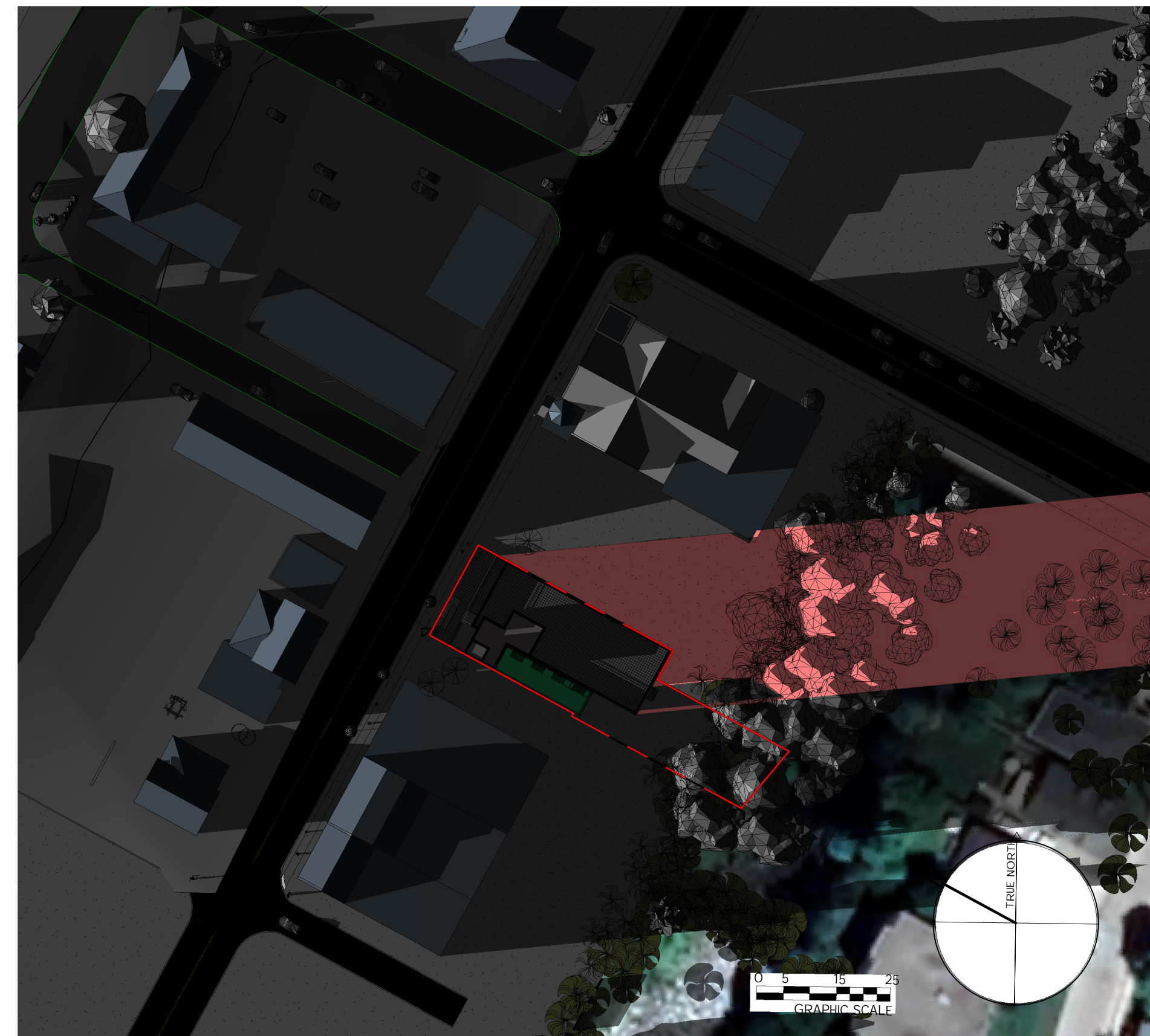
2 SPS - Spring/Fall - 12pm  
S1.0 1: 850









3 SPS - Spring/Fall - 2pm  
S1.0 1: 850



4 SPS - Spring/Fall - 4pm  
S1.0 1: 850



5 SPS - Spring/Fall - 6pm  
S1.0 1: 850

| SHADOW STUDY LEGEND   |                             |
|---|-----------------------------|
|  | PROPERTY LINE               |
|  | PROPOSED BUILDING           |
|  | PROPOSED BUILDING SHADOW    |
|  | SURROUNDING BUILDINGS       |
|  | SURROUNDING BUILDING SHADOW |
|  | OUTDOOR AMENITY SPACE       |

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REVISIONS \_\_\_\_\_ DATE \_\_\_\_\_

**Commercial - Residential**  
350 St. Andrew St. W. - Fergus  
Sun Path Study - Spring/Fall

|           |              |
|-----------|--------------|
| STATUS    | ZBA          |
| PROJECT # | 20044        |
| CHKD      | CHECKER      |
| DRAWN     | AUTHOR       |
| SCALE     | As Indicated |
| DATE DWN  | 02/24/21     |
| ISSUED    | 20230228     |

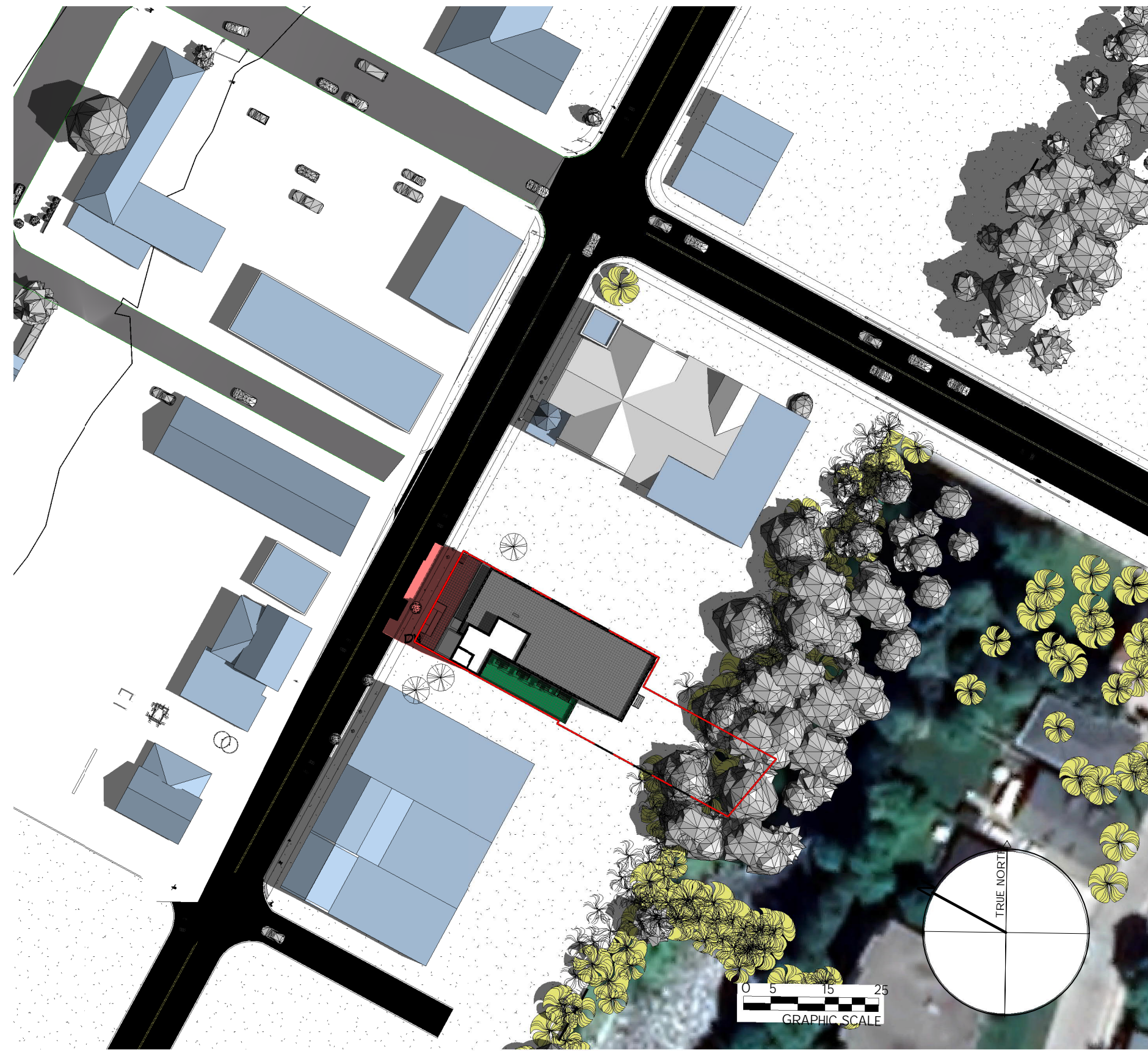
S1.0

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE COURSE OF THE WORK AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE WORK UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROCEED IN UNCERTAINTY.  
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SEAL

PROJECT \_\_\_\_\_ NORTH \_\_\_\_\_





1 SPS - Summer - 10am  
S2.0 1: 850



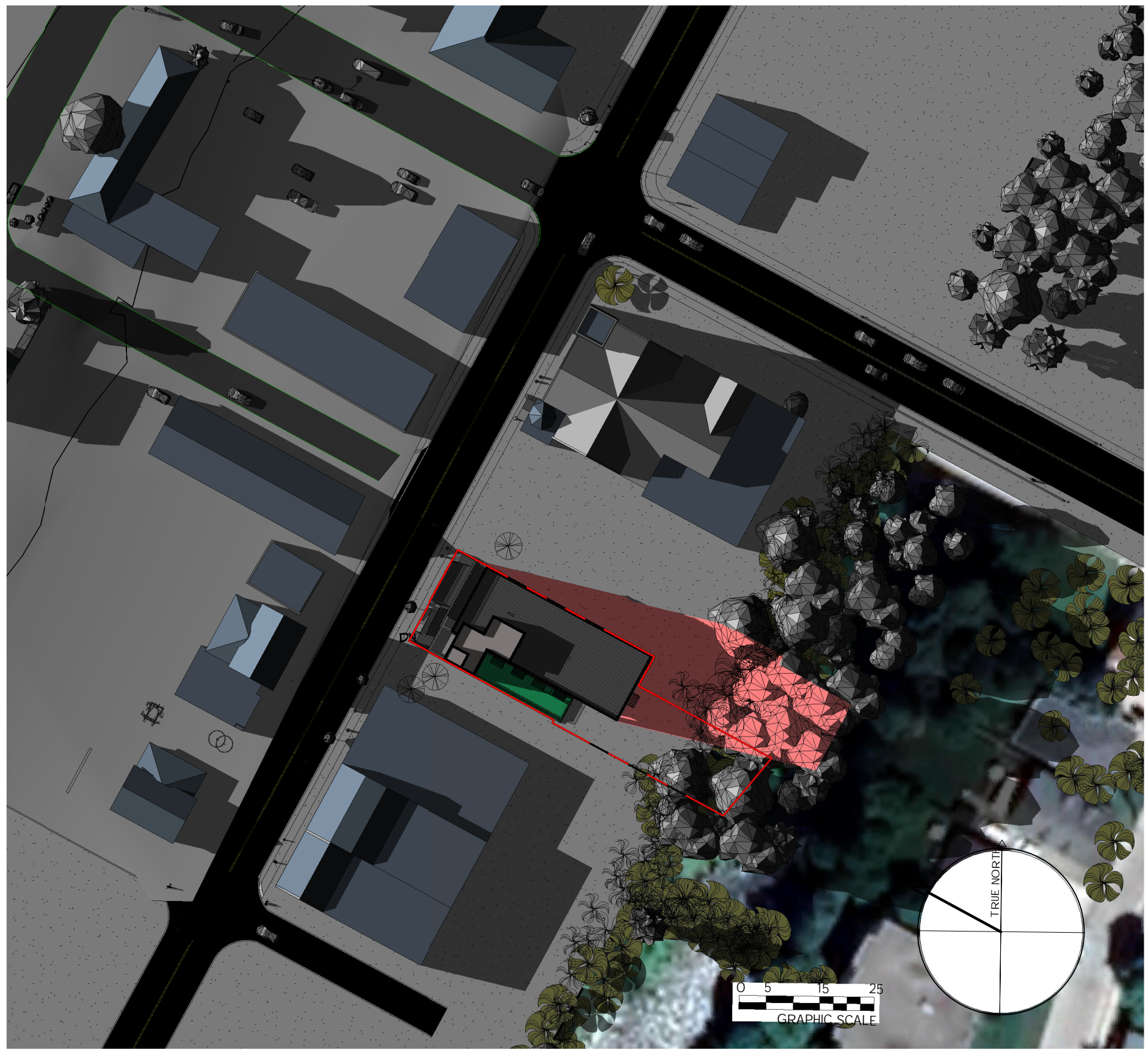
2 SPS - Summer - 12pm  
S2.0 1: 850



3 SPS - Summer - 2pm  
S2.0 1: 850



4 SPS - Summer - 4pm  
S2.0 1: 850



5 SPS - Summer - 6pm  
S2.0 1: 850

**SHADOW STUDY LEGEND**

- PROPERTY LINE
- PROPOSED BUILDING
- PROPOSED BUILDING SHADOW
- SURROUNDING BUILDINGS
- SURROUNDING BUILDING SHADOW
- OUTDOOR AMENITY SPACE

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REVISIONS \_\_\_\_\_ DATE \_\_\_\_\_

|           |              |
|-----------|--------------|
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| CHKD      | Checker      |
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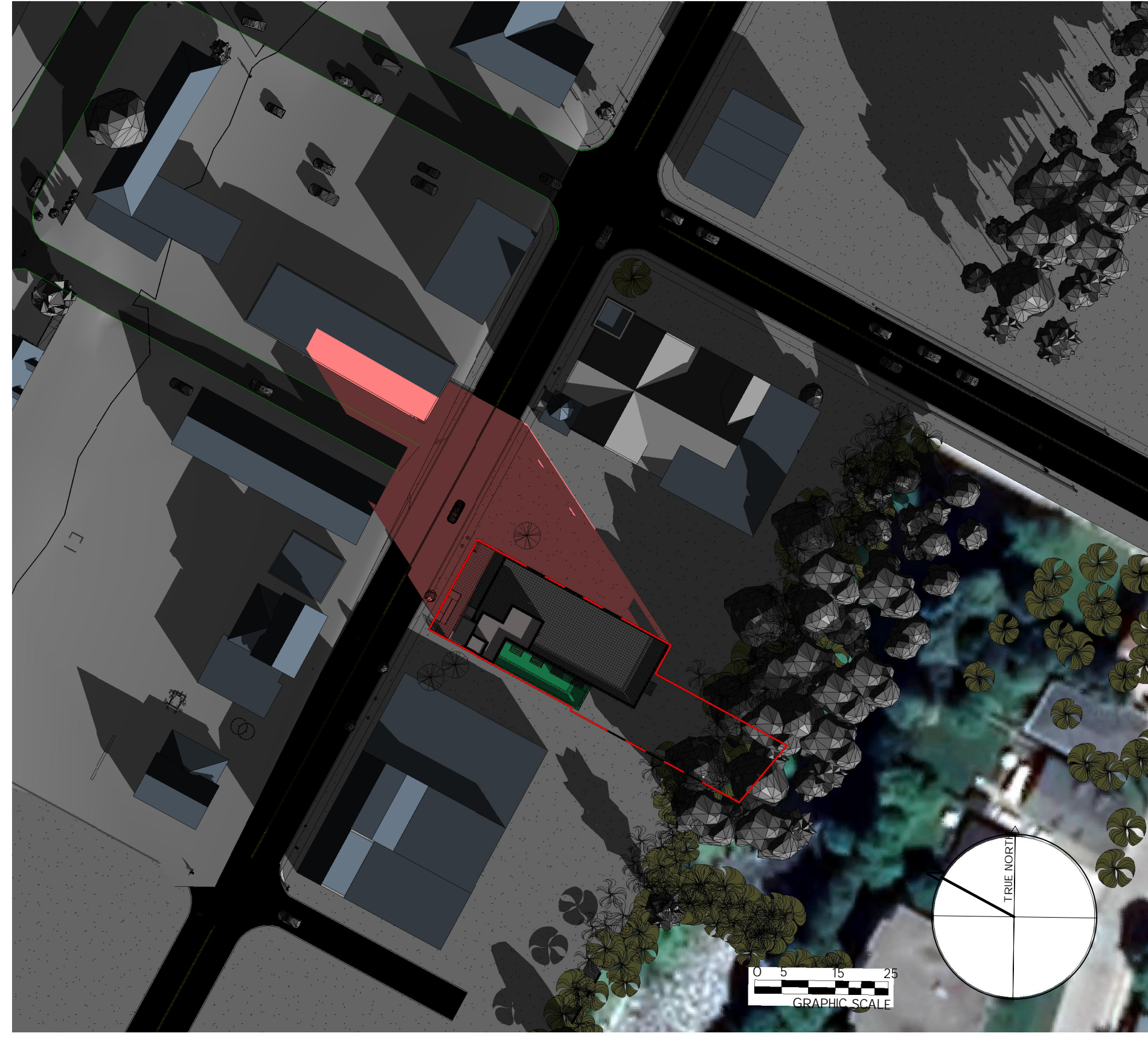
**Commercial - Residential**  
350 St. Andrew St. W. - Fergus  
Sun Path Study - Summer

PROJECT \_\_\_\_\_ NORTH \_\_\_\_\_

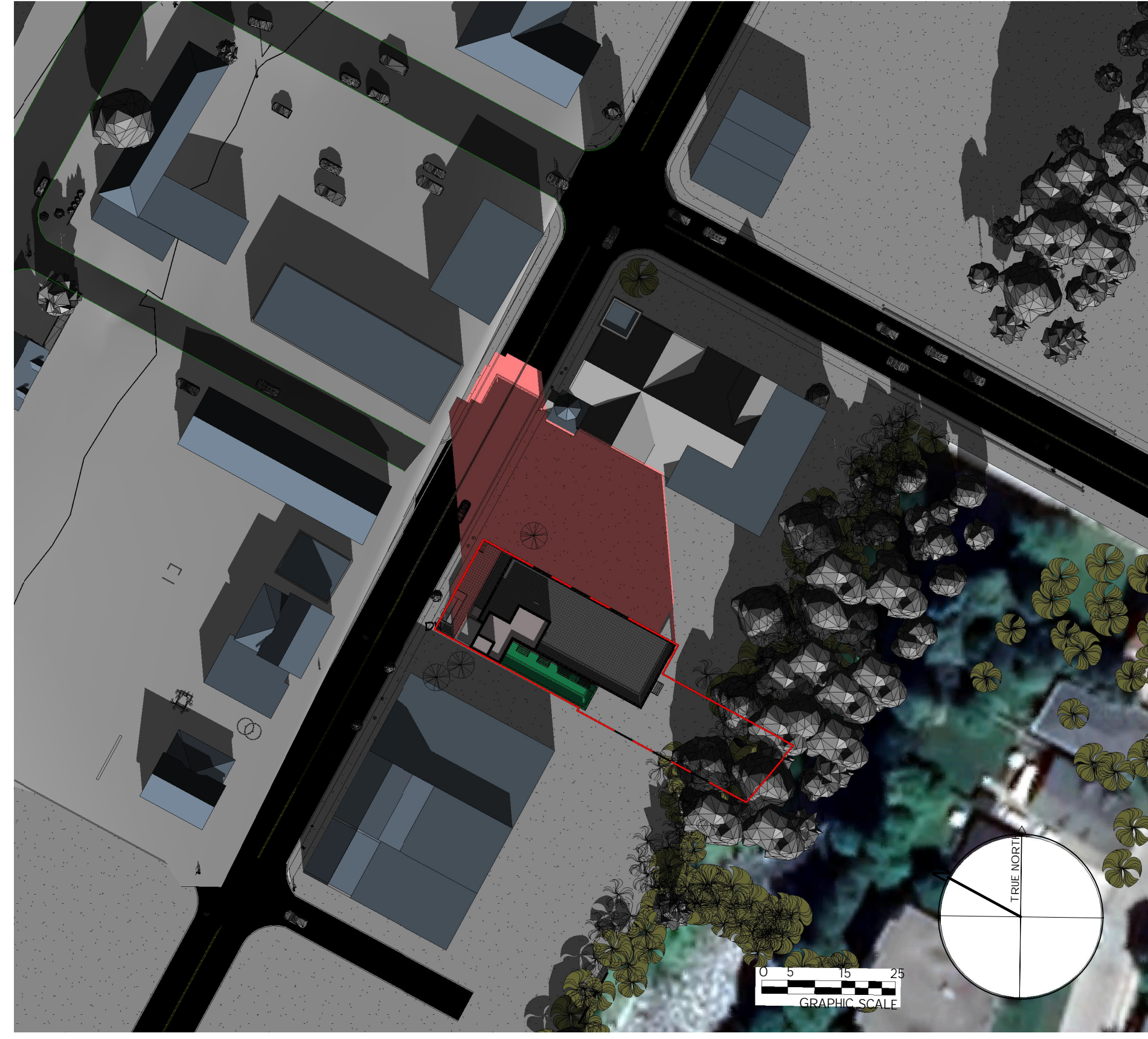
SEAL \_\_\_\_\_

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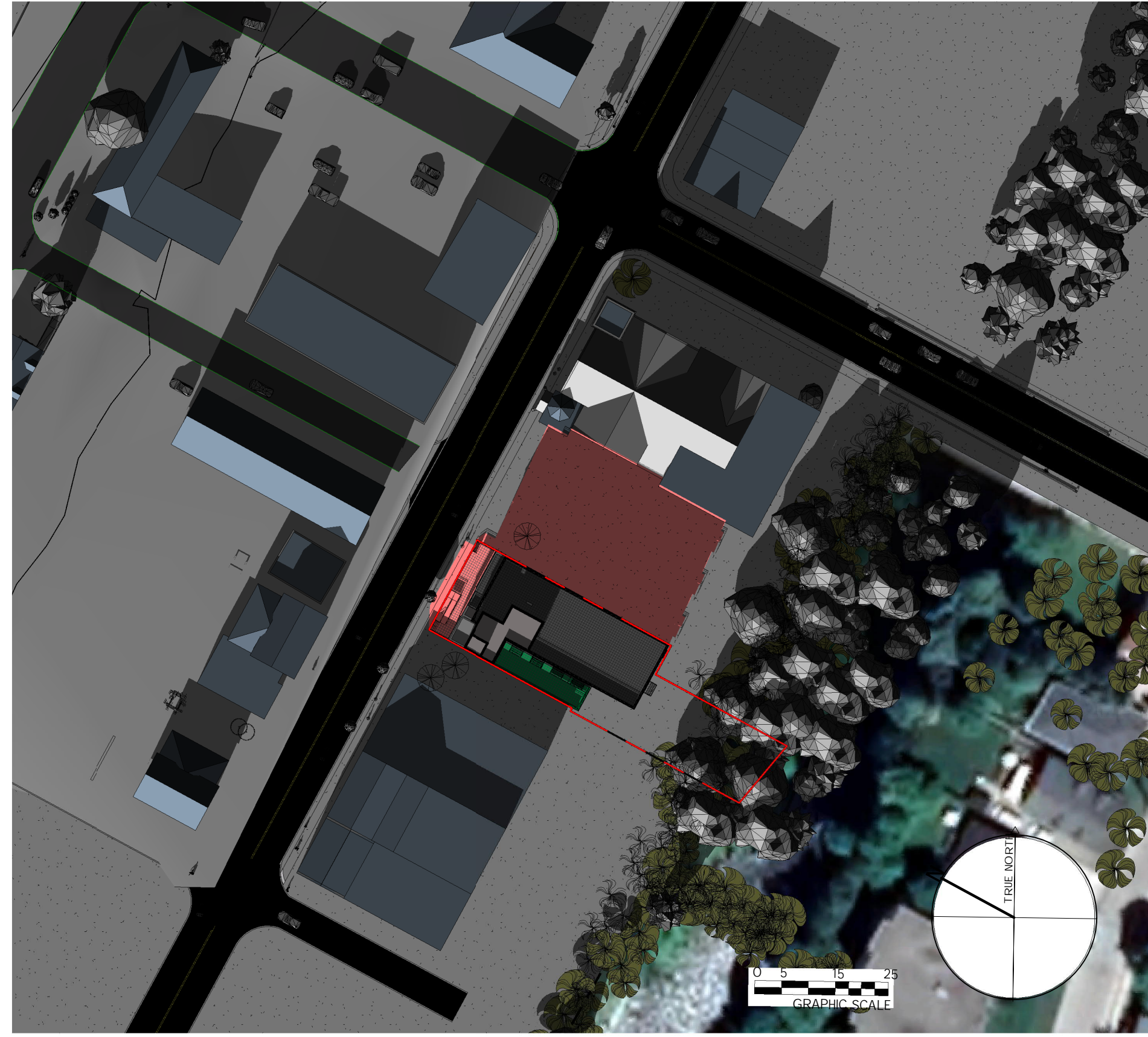










1 SPS - Winter - 10am  
S3.0 1: 850



2 SPS - Winter - 12pm  
S3.0 1: 850



3 SPS - Winter - 2pm  
S3.0 1: 850

| SHADOW STUDY LEGEND   |                             |
|---|-----------------------------|
|  | PROPERTY LINE               |
|  | PROPOSED BUILDING           |
|  | PROPOSED BUILDING SHADOW    |
|  | SURROUNDING BUILDINGS       |
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|  | OUTDOOR AMENITY SPACE       |

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REVISIONS \_\_\_\_\_ DATE \_\_\_\_\_

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**Commercial - Residential**  
350 St. Andrew St. W. - Fergus  
**Sun Path Study - Winter**

PROJECT \_\_\_\_\_ NORTH \_\_\_\_\_

SEAL \_\_\_\_\_

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