



Phipps Conservatory Broderie & East Rooms Roof Restoration



Squirrel Hill Urban Coalition (SHUC)
October 11th, 2022

PHIPPS CONSERVATORY

OLD CONSERVATORY ROOF RESTORATION CAMPAIGN

An ongoing capital improvement campaign to restore and preserve all 13 Old Conservatory Rooms Victorian style glasshouse roof systems. This campaign began in 2002 with Victoria Room and is following the schedule below:

Old Conservatory Room	Year
Victoria	2002
Gallery	2013
South Conservatory	2015
Serpentine	2016
Palm Court	2018
Fruit & Spice	2019
Fern & Stove	2020
Orchid	2021
Broderie	2022
East & Desert	2023
Sunken Garden	2024

Victoria Room - 2002



Victoria Room – Roof Preservation (2002)



Replicated wood rafter profiles in aluminum with high performance white coating, new safety laminated glass, restored cresting and finial and automated roof vent sash.

Gallery Room - 2013

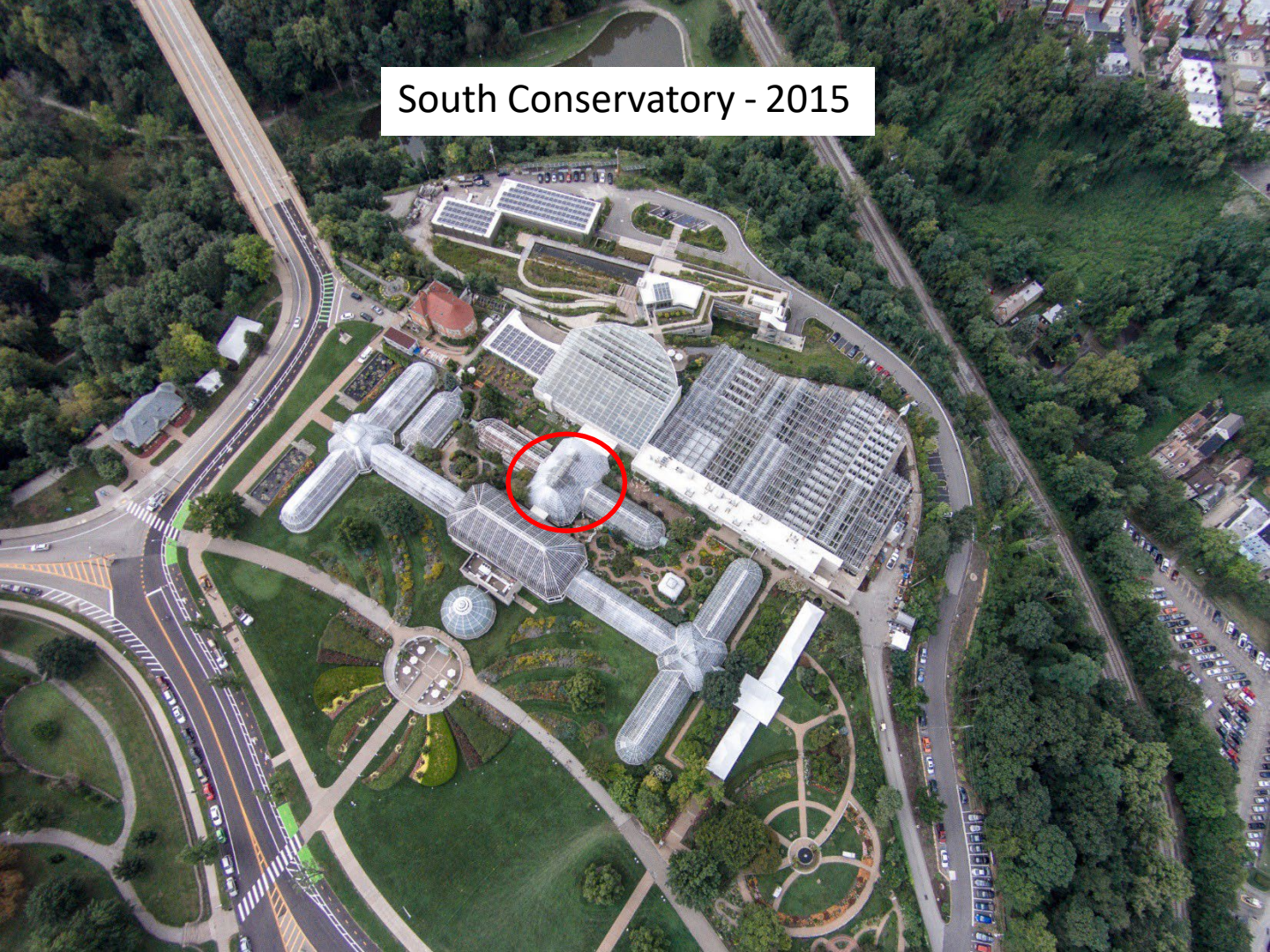


Gallery Room– Roof Preservation (2013)



Replicated wood rafter profiles in aluminum with high performance white coating, new safety laminated glass.

South Conservatory - 2015



South Conservatory– Roof Preservation (2015)



Replicated wood rafter profiles in aluminum with high performance white coating, new safety laminated glass. Return historic glass spacing, sizing and ornamental cresting ridge element.

Serpentine Room - 2016



Serpentine Room - Roof Preservation (2016)



Replicated wood rafter profiles in aluminum with high performance white coating, new safety laminated glass.

Palm Court - 2018

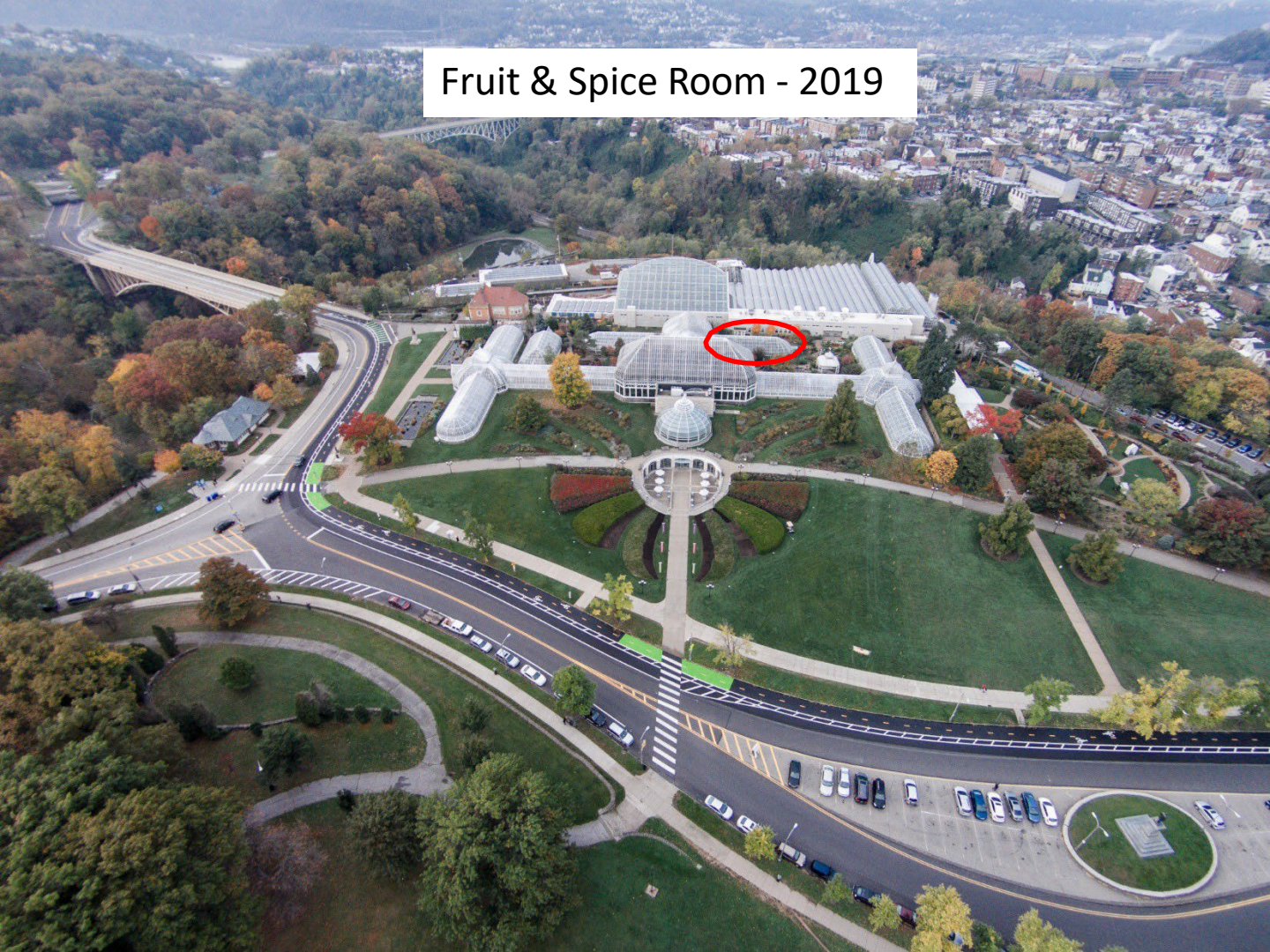


Palm Court - Roof Preservation (2018)



Replicated wood rafter profiles in aluminum with high performance white coating, new safety laminated glass, returned Historic Ogee Roof Structure and ornamental features .

Fruit & Spice Room - 2019



Fruit & Spice Room – Roof Preservation (2019)



Replicated wood rafter profiles in aluminum with high performance white coating, new safety laminated glass.

West Wing
Fern, Stove & Orchid Rooms 2020-2021



West Wing - Roof Preservation (2020-21)



Replicated wood rafter profiles in aluminum with high performance white coating, new laminated safety glass, painting/coating of structural elements & gutters, & new insect screening & vent motors .

East Wing
Broderie Room 2022 & East Room 2023



East Wing – Broderie Restoration



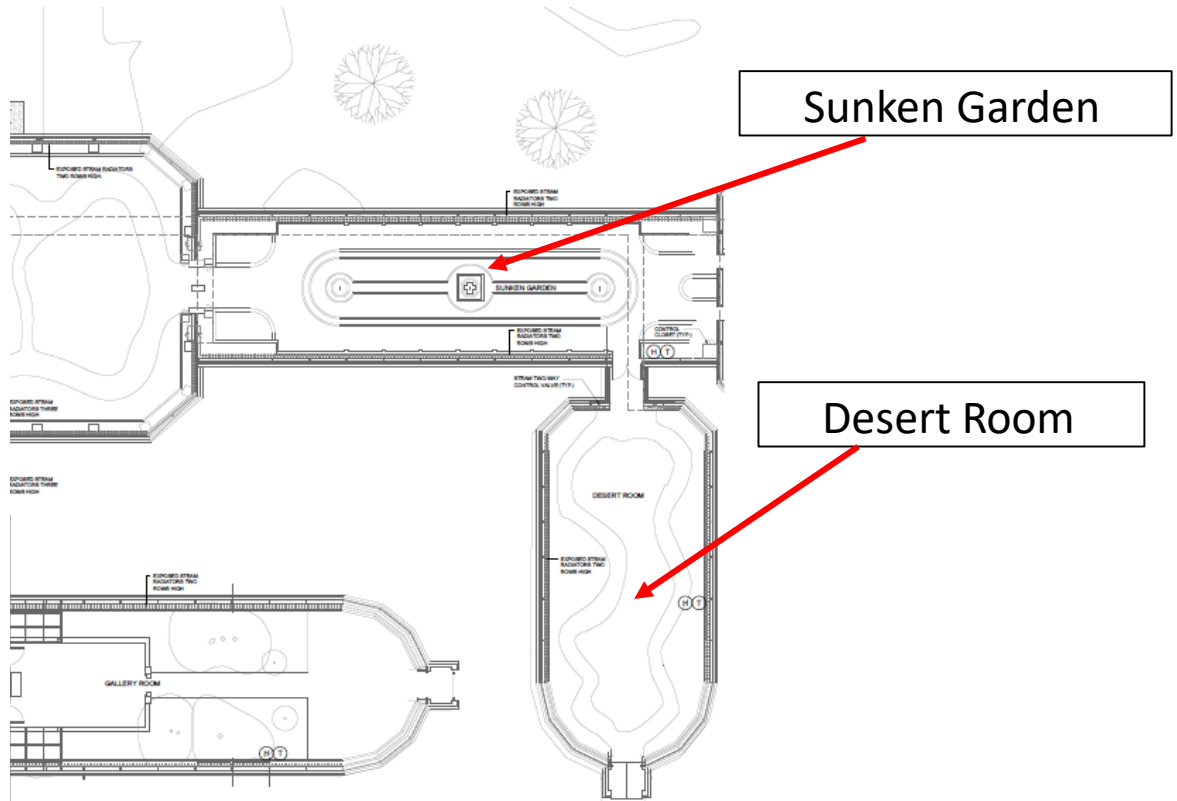
Replicated wood rafter profiles in aluminum with high performance white coating, new laminated safety glass, painting/coating of structural elements, new gutters, sills, sidewall window vents, critter screening & vent motors .

East Wing
Desert Room 2023 & Sunken Garden 2023



Old Conservatory East Wing

(Desert Room, Sunken Garden)



PHIPPS CONSERVATORY

DESERT ROOM & SUNKEN GARDEN RESTORATIONS

STAGES OF WORK TO BE PERFORMED:

- Removal of the existing roof plexiglass glazing, rafters, and flashings.
- Removal of gutters, sills, and sidewall window vents.
- Cleaning and repairing of the steel and cast iron structure and gutters.
- Painting of the steel and cast iron with a high performance paint coating.
- Installation of replicated aluminum roof rafters to match original wood rafters.
- Installation of new flashings, gutter adapters and glazing systems connectors.
- Installation of new gutters, sills, and sidewall window vents.
- Installation of new laminated safety glass with aluminum bar caps.
- Installation of new high efficiency LED lighting and de-stratification fans

PROJECT SCHEDULE:

Desert - May 2023 to October 2023

Sunken Garden - May 2024 to October 2024

East Wing – Desert Room

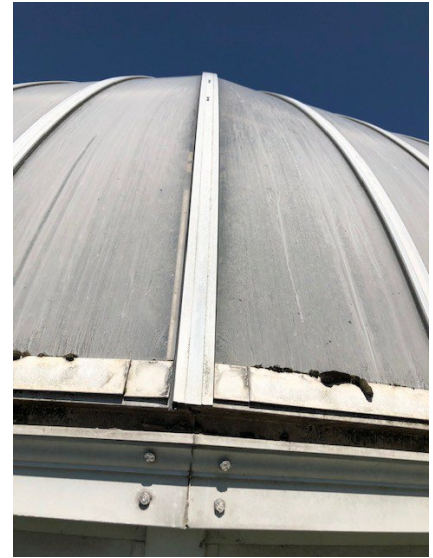
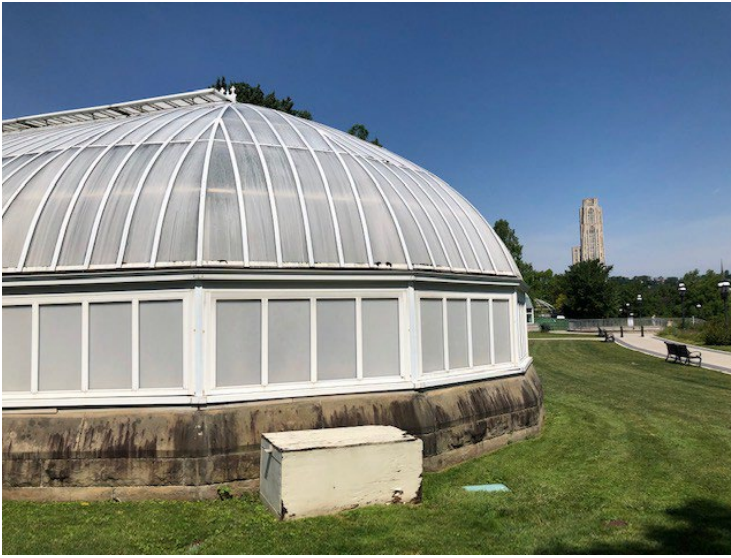


East Wing – Desert Room



East Wing – Sunken Garden





- East Wing last renovated in 1988
- Work did not conform to historic Victorian glasshouse standard (rafter spacing, barcaps, plexiglass)
- Victoria Room first restored to historic standard in 2002
- Broderie Room restoration in 2022
- East and Desert Room restorations planned for 2023