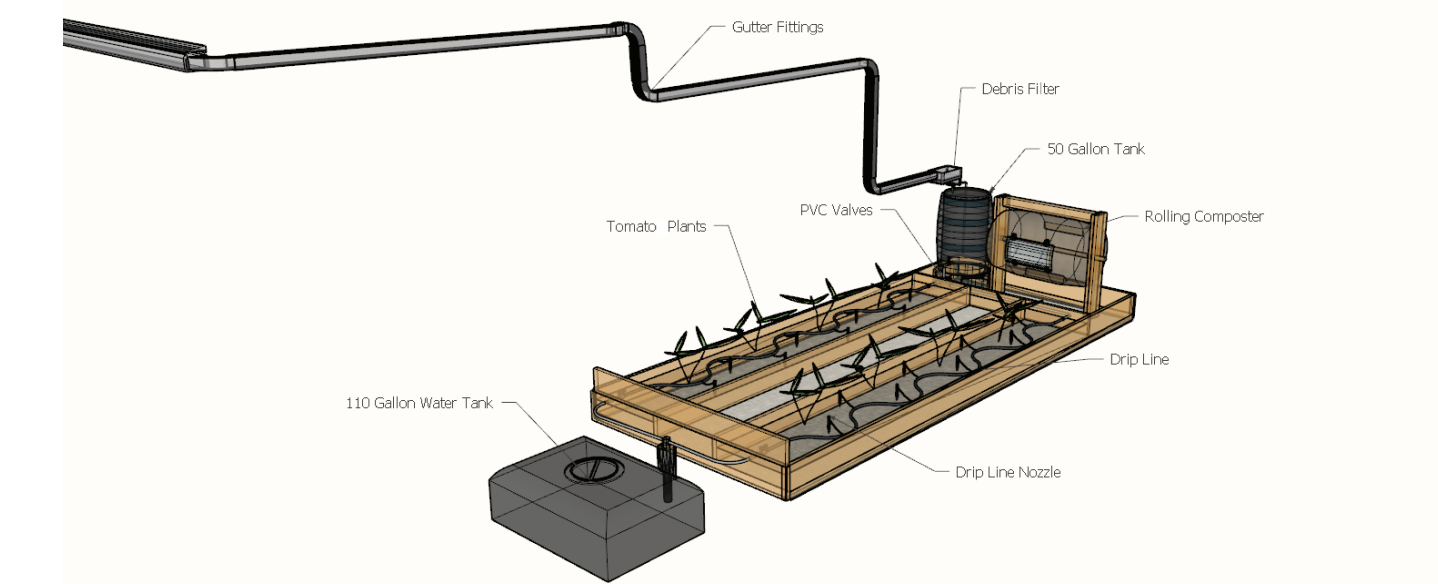


# Water Catchment System, Greenhouse, and Deck with Pergola

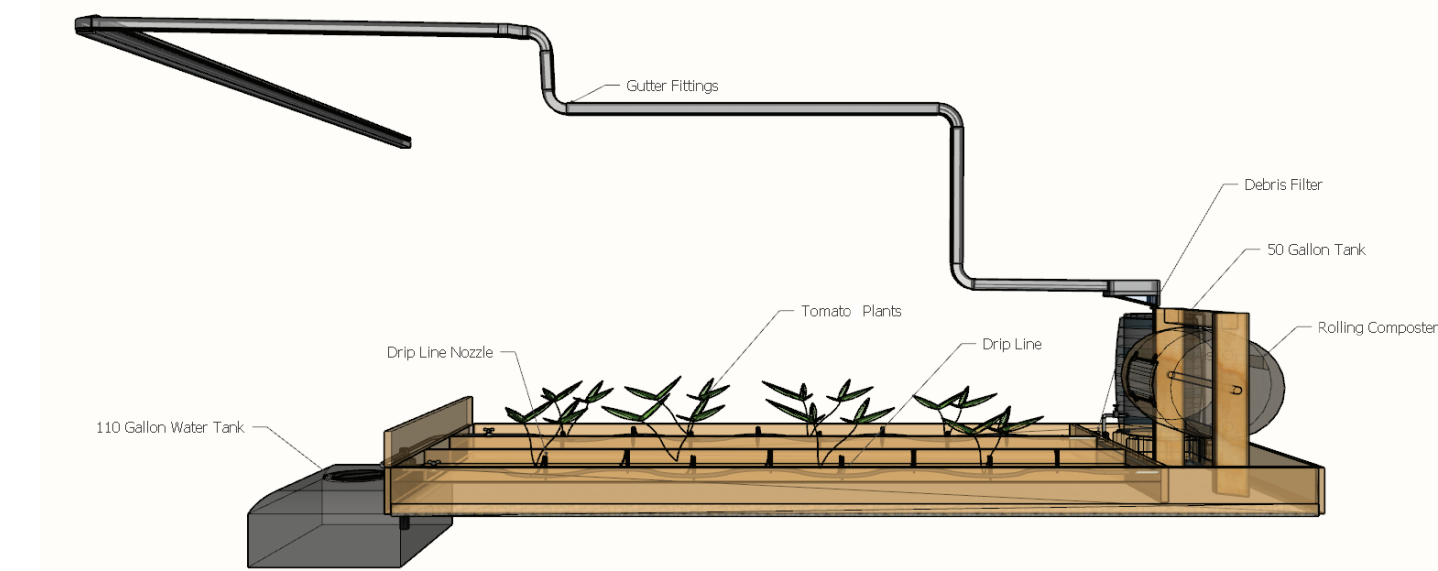
## Addition for Suburban Home

By Dallan J Kilcommons

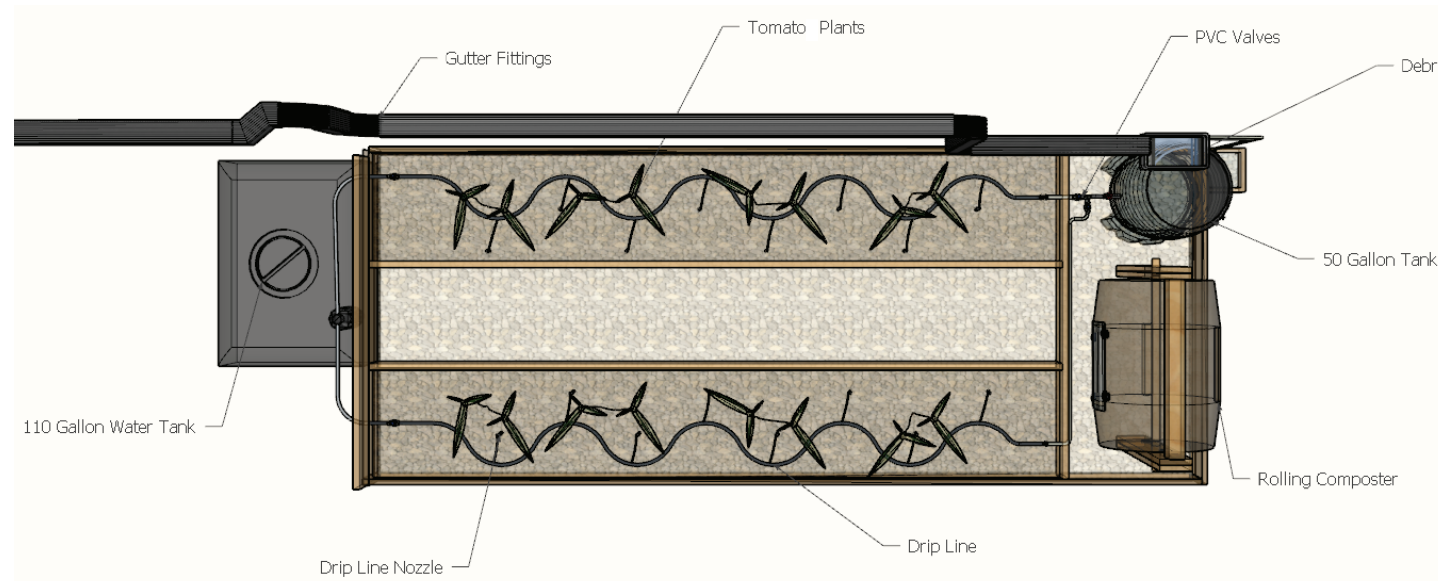
### Water Catchment System



Isometric View - South West



Front View - South



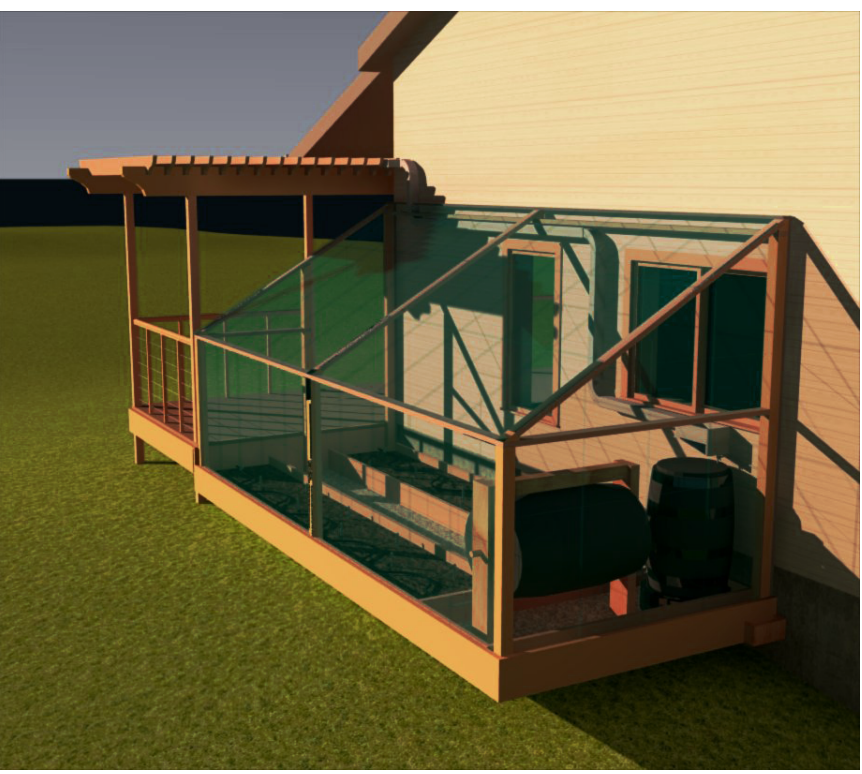
Top View



Deck and Water Catchment Greenhouse Addition For Suburban Home - Dallan Kilcommons - 2017

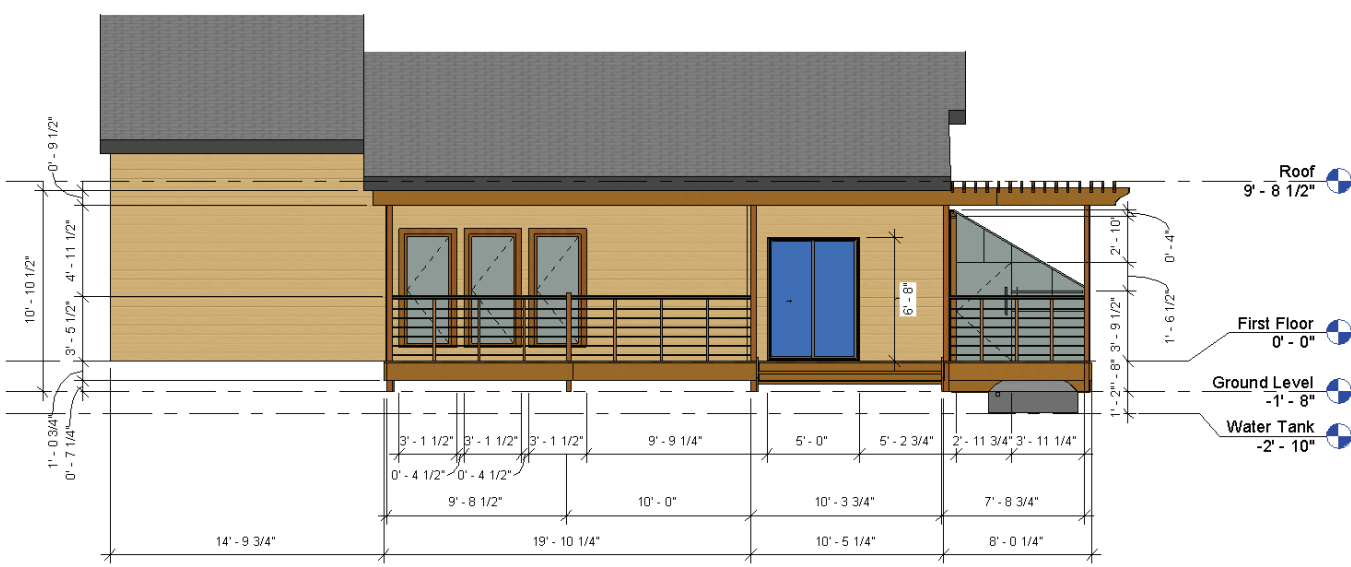


Deck and Pergola Addition - Evening - Looking NE - Dallan Kilcommons - 2017



Greenhouse and Water Catchment System - Evening - Looking NW - Dallan Kilcommons - 2017

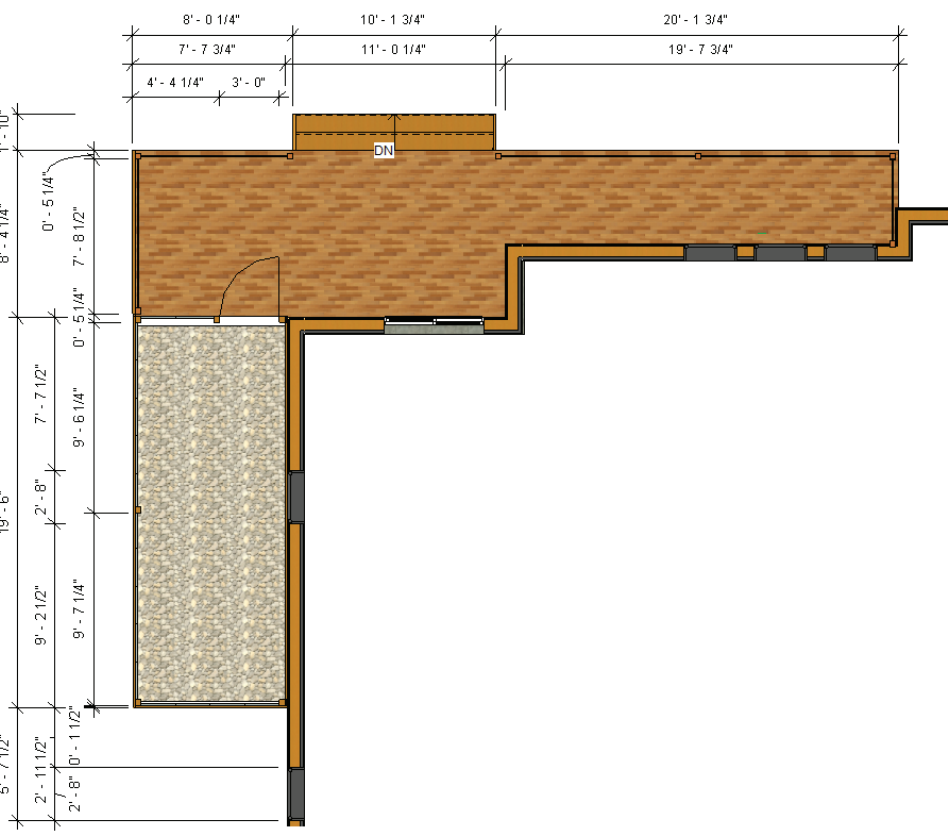
### Elevations and Floor Plan



Elevation West



Elevation South



Top View

### About the Project

This water catchment and greenhouse design was created using Autodesk Revit and Trimble SketchUp. It is designed to fit to an existing property at 1451 Front Nine Drive, Fort Collins CO. In August of 2016 It became legal to catch up to 110 gallons of water runoff on rented or owned property in the state of Colorado. Traditional suburban homes shed water via a gutter system. This design uses the existing infrastructure of a suburban home and simply reroutes the gutters to direct water runoff into a temporary storage basin located in the greenhouse. From there, gravity and a system of valves is used to control water flow in the raised beds in the greenhouse. The remaining water is recaptured in a 110 gallon basin at the end of the system line. Here it is stored until needed and then can be pumped out to water vegetables, flowers, and the lawn. Water from a catchment system can be used for any task that unfiltered water is used for around the house. This system is cost effective, environmentally friendly, and produces food with very little maintenance required.

## Deck, Pergola and Water Catchment Greenhouse

## Addition For Suburban Home



# Stager Family

1451 Front Nine Drive, Fort Collins, CO 80252



[www.autodesk.com/revit](http://www.autodesk.com/revit)

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### Deck and Water Catchment Greenhouse

Stager Family

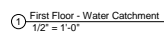
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## Stager Family

Elevations - North -  
Section to Greenhouse

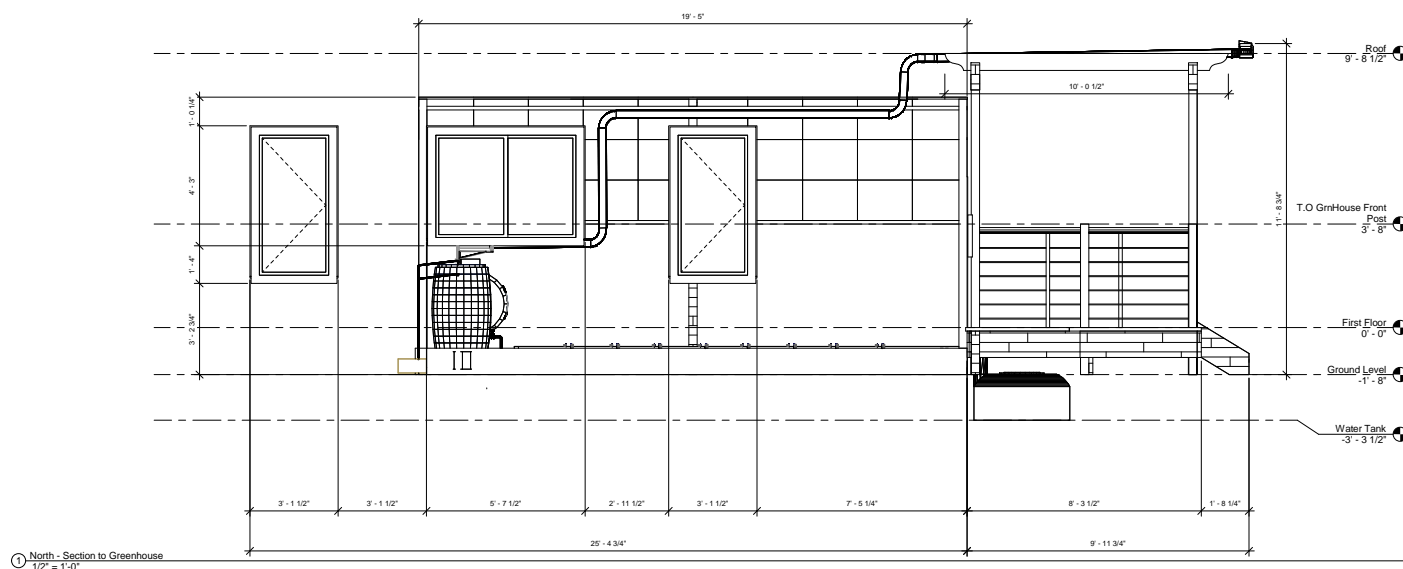
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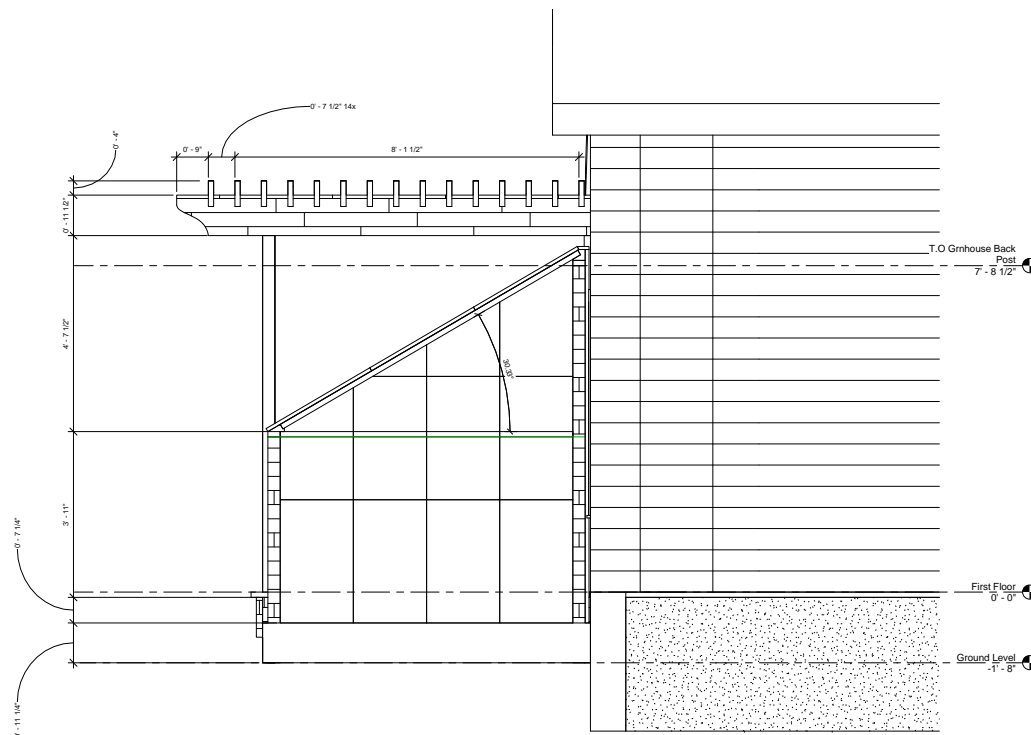
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① East  
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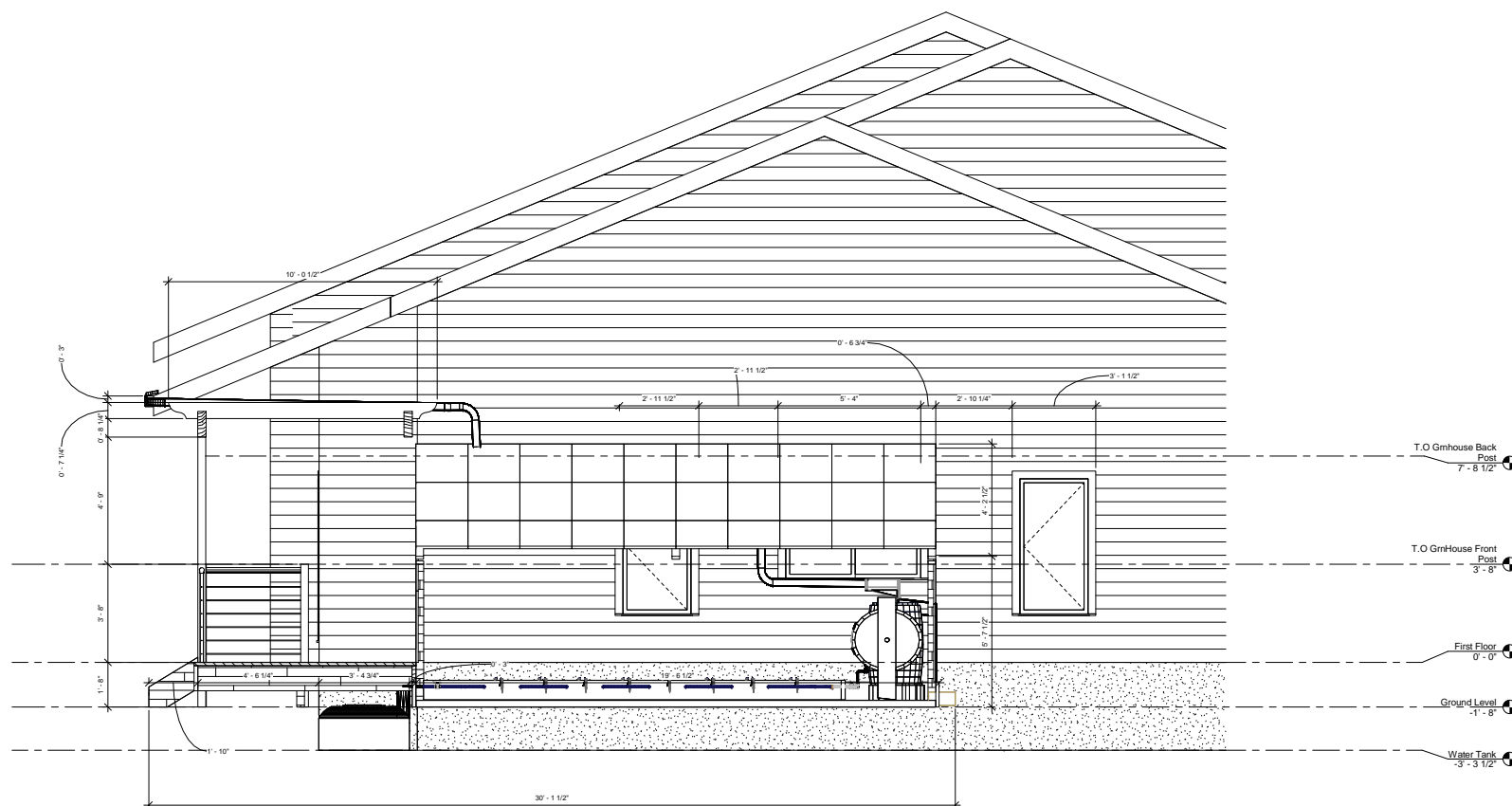
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Scale	1/2" = 1'-0"
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① South  
1/2" = 1'-0"



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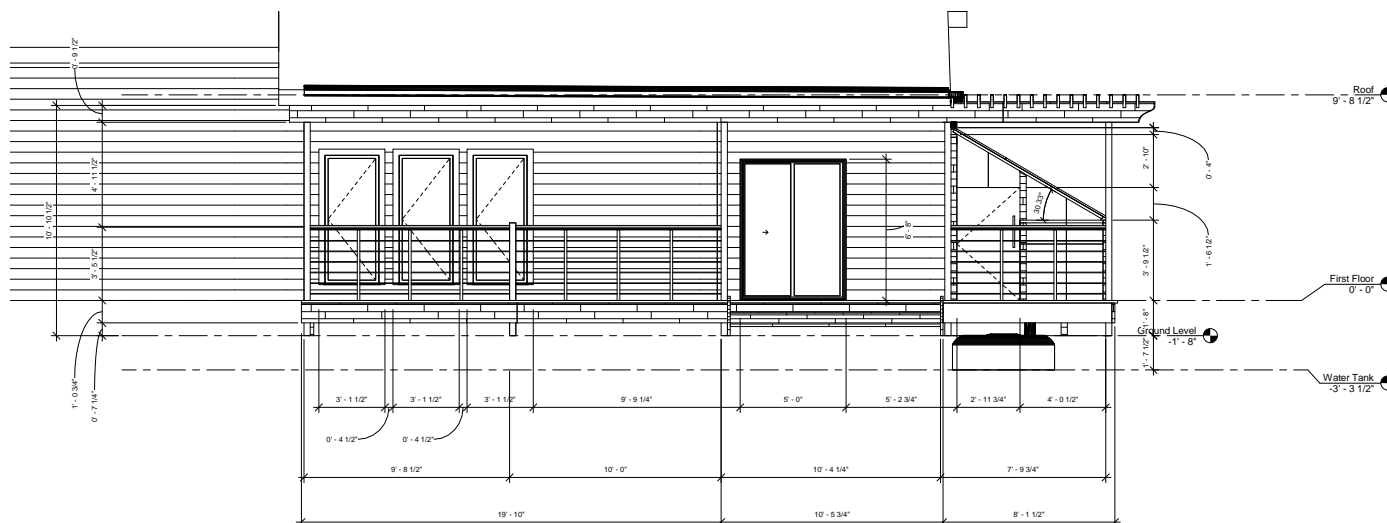
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## Stager Family

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① West  
3/8" = 1'-0"





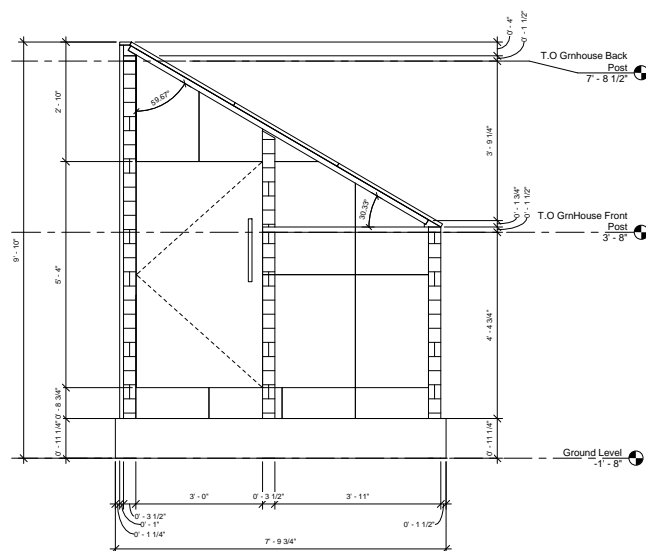
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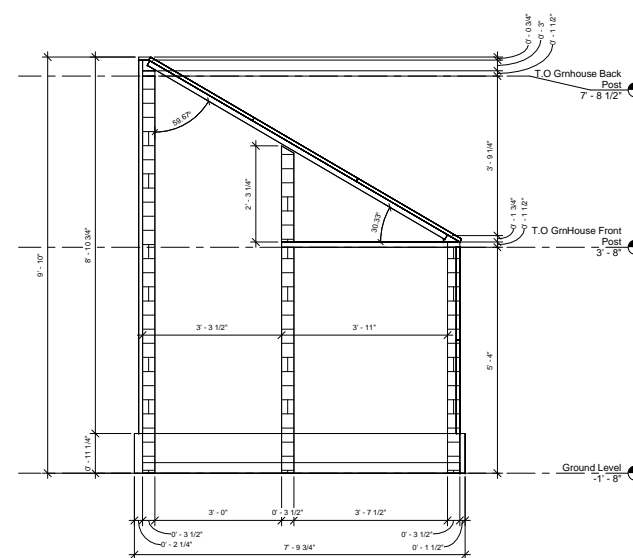
### Elevations - Greenhouse West

A10b

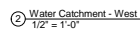
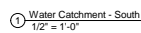
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① Greenhouse - West  
3/4" = 1'-0"



② Greenhouse - West Frame  
3/4" = 1'-0"



A11a