Auburn University – MIDC Orange

Strategic Approach:

- Type of Project: Two Story Home
- Location/Climate: Auburn, AL, CZ 3
- Design Strategy:
 Open layout with minimum
 circulation surrounding a centralized
 open space.
- Technical Strategy
 - Enclosure: Rigid insulation sheathing.
 - HVAC: Mini-Split and ERV air circulation system.
 - IAQ: Low chemical materials and high-merv filtrations
- Construction Cost Strategy: Used money saved on right sizing for highperformance features, eliminated basement, and smart framing.

Technical Specifications:

Wall R-Value: **R-20** Ceiling R-Value: **R-35**

Foundation R-Value: Perimeter R-5

Window R-Value: R-Window SHGC: .170 Heat Pump HSPF: 9.3 Heat Pump SEER: 17.5 Water Heater EF: 2.3

Key Statistics:

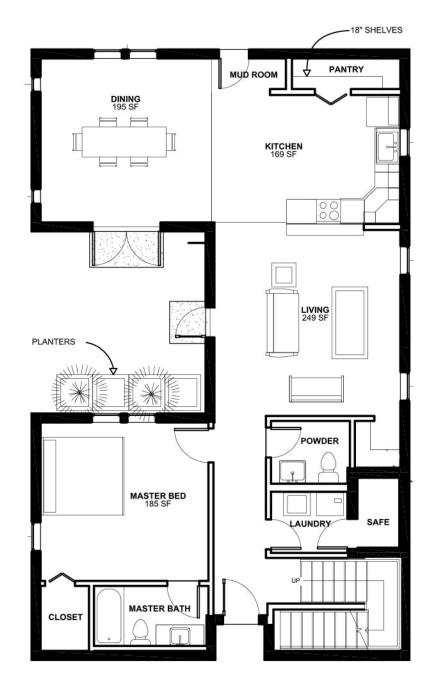
Location: **Auburn, Alabama** 2009 IECC Climate Zone: **3**

Square Feet: **1,640**Number of Stories: **2**Number of Bedrooms: **3**Number of Bathrooms: **2.5**

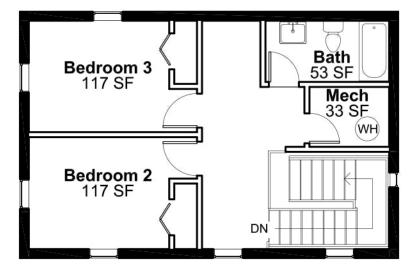
Estimated Construction Cost: \$186,554

HERS Index Score: 47

Estimated Monthly Energy Cost: \$80







First Floor

Second Floor



