



Native Eastern Red Cedar trees block winter winds coming from the north.

Private spaces are located at the rear of the site away from street noise.

Hallway along west wall provides a buffer zone between bedrooms and harsh late afternoon sun.

A.D.A. compliant ramp from ground level to first floor. 1:20 slope, 3'-2" clear width, handrails each side w/ 12" extension @ landings. Each run is 28' long.

Bedrooms have high windows on east facing walls to capture morning sun.

Roof overhangs are kept to a minimum to prevent large uplift loads on roof.

Clerestory windows in master bedroom allows for southern daylighting and cross ventilation.

All bathrooms, doors, and kitchens feature proper clear floor areas. Bathrooms contain proper grab bars and tub must include an A.D.A. compliant seat.

Planter along length of ramp helps soften the ramp's hard edge and ground it to the site.

All walls feature rainscreen system for improved severe weather performance.

7' fence between property line and ramp, as required per land use code.

4' long CMU walls provide both vertical and lateral support for the structure. This allows the building to lightly touch the ground and minimize footing excavation. In addition, it allows hurricane related storm surges to flow around the structure without causing catastrophic damage. All materials within 7' of grade are built of non-organic materials to prevent mold or rot that would occur in the event of a flood.

Covered breezeway connects two building volumes. Bordered on west end by vertical trellis with climbing vines.

Building is organized around a central courtyard. This achieves several goals:

1. Allows for a much larger amount of southern window exposure on a very narrow lot. Southern daylight is easily controlled with horizontal shading elements. Using daylighting instead of electric lighting will greatly reduce the building's energy consumption.

2. Allows for optimal natural ventilation. This is the most effective passive cooling strategy within this climate. Every room in this building is optimized to receive cool summer winds from the south and all rooms have windows on two sides to provide cross-ventilation.

3. Building volumes are zoned into night and daytime uses. This allows each volume to be conditioned separately and according to occupancy.

Wire-based vertical trellis allows native vines to climb up building wall from planter. This softens the building edge and helps break down the scale.

Impact resistance exterior doors; typical.

Front deck and stair are modern interpretations of classic features exhibited by existing raised shotgun houses and craftsmen bungalows.

Grasscrete 9'x18' parking area (optional).

Planters and ramp helps ground the building to the site and break down its scale.

Native Blue Beech deciduous trees in SW corner of lot provide shade against the late afternoon sun.



STREET LEVEL FROM SE: WINTER SOLSTICE @ NOON



AERIAL VIEW FROM SE: EQUINOX @ NOON



AERIAL VIEW FROM NE: WINTER SOLSTICE @ 10AM

SITE PLAN

1/4" = 1'-0"

Total Area = 723 SF (Interior Face of Wall)