

U n i v e r s i t y o f M i a m i
S c h o o l o f A r c h i t e c t u r e



T H E M O B I L E H O M E

Mississippi, U.S.A.

2005

**ARC-203 Architecture Design III
Fall Semester**

“TRAILERS IN A BLOCK”

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When Hurricane Katrina came upon the shores of America's Gulf Coast, it left a path of destruction which will take years to repair.

Students of Second year were asked to design a mobile home prototype for these new, temporary communities along Mississippi's Gulf Coast Region. The "mobile home" is a truly American invention associated with the American love of mobility and travel.

The mobile homes were designed to fit in as well and as gracefully as the shotguns, double shotguns and camelback typologies of the Gulf Coast Region.

The homes provide a sustainable and environmentally sound alternative to existing transitional and temporary housing options using existing and innovative materials and methods of construction

The Program

The following were programmatic criteria required by either HUD or by transportation considerations in Mississippi.

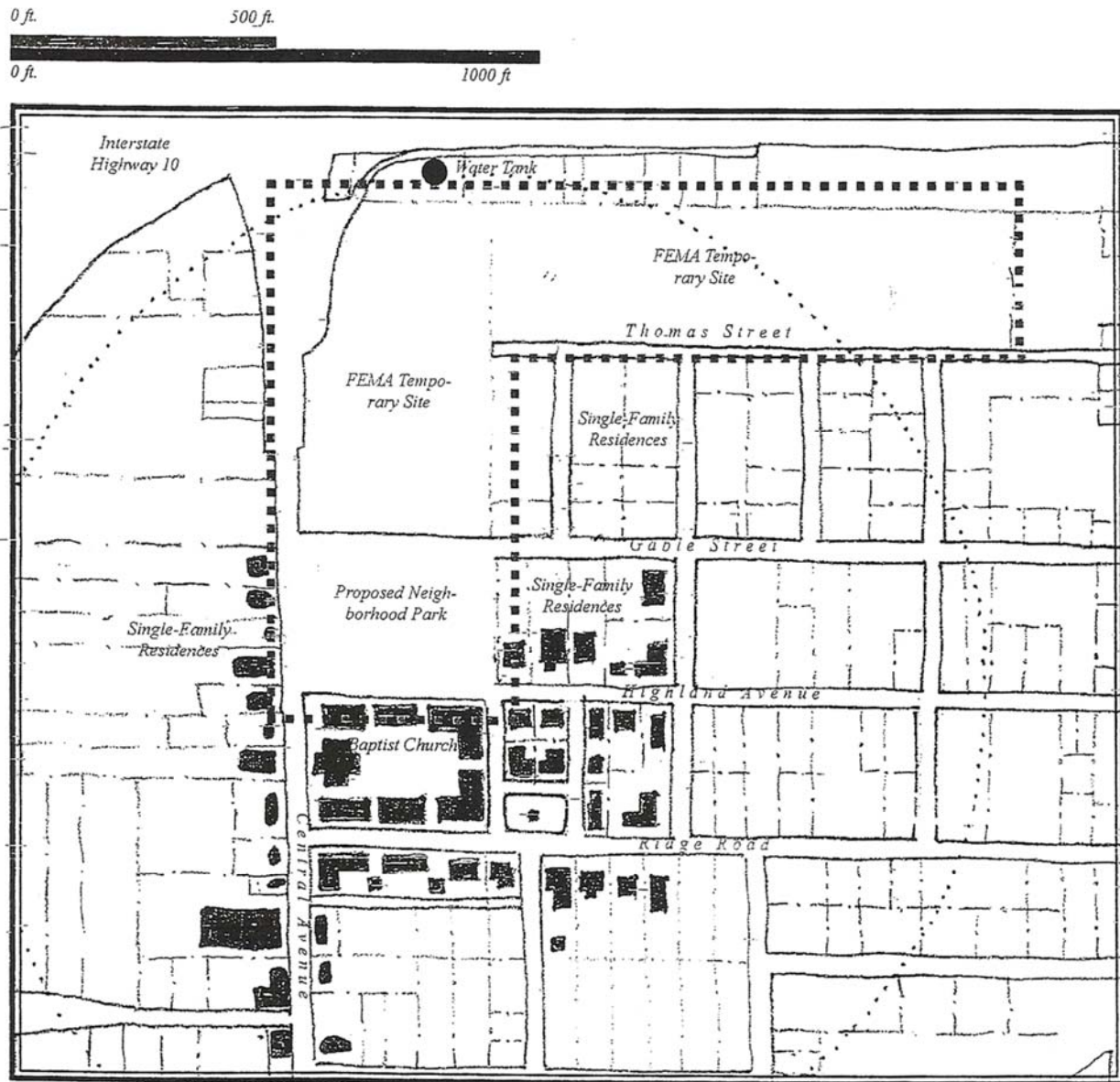
1. Maximum shipping width: **16'-0"** (to outside of everything including eaves, doorknobs, exterior light fixtures, etc.)
2. Maximum shipping height: **14'-0"** (although roof panels can hinge down for shipping.)
3. Maximum shipping length: **105'-0"** (max. allowable shipping length for Oversize Load mobile houses in Mississippi.)
4. Floor Height: **24"** above roadway (floor height varies according to chassis used by manufacturer)
5. Ceiling Height: **7'-0"** min. (design to maximum available shipping envelope with fold roof panels for passive cooling)
6. Living Room: **150 sq. ft. min.**
7. Bedrooms:
50 sq. ft. (one person)
70 sq. ft. (two people)
50 sq. ft. (for each additional person over two)
8. Hallways: **28"** min. finished width.

Note: All Mobile Houses shall include a minimum of two remotely located EXIT doors plus egress windows in all bedrooms. In addition, all horizontal dimensions for living spaces or bedrooms should exceed 5'-0".

The Site

D'Berville, Mississippi

Site Twelve FEMA Temporary Site



The ideas were:

1. - To design a site plan applying the principles of New Urbanism with streets, blocks and lots that will promote the continuity and the integration with the existing site.
2. - After the entire infrastructure has been built, a smooth transition will take place replacing the trailers with new homes and the temporary tents, with mixed used prototypes over this recyclable planned community.
3. - The organization of **“Trailers in a block”** will show a less monotonous configuration of these prefabricated prototypes representing a wide cross section of the affected community from small trailers to large trailers.