

Architecture

John Anderson Marianne Cusato Christine Franck Susan Henderson Gary Justiss Steve Mouzon Allison Anderson
R. John Anderson
Milton Grenfell
Michael Imber
Eric Moser

Key Issues



§ **Timing** Emergency housing and retail must be on the ground

fast. Manufactured, modular, and panelized solutions

should be utilized for speed.

§ **Affordability** Regional needs for affordability were not met prior to

Katrina, and are even more critical now. Normal

affordable options listed above should be designed to reflect the architectural heritage of the Gulf region

and to give units lovability.

§ **Durability** Success stories have been analyzed and new

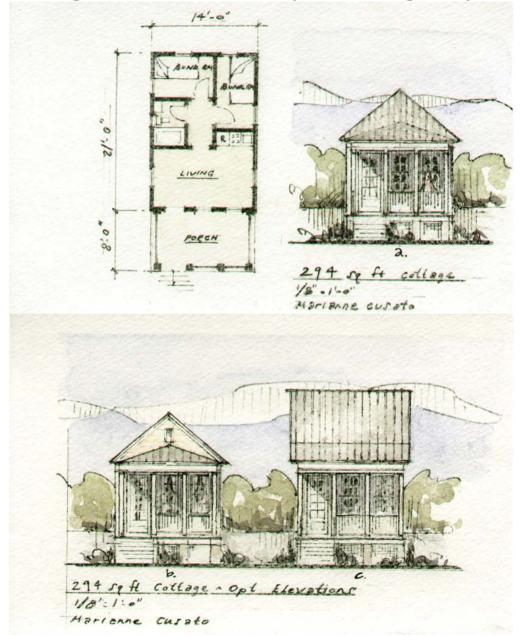
standards of construction are being suggested for

durability. FEMA requirements for height restrictions

are only one solution for the 30 or 50-year events. Structural hardening should also be an option to

allow the habitation of the coastal region.

Timing & Affordability: Emergency Cottage





Architecture

Place	or	То	pi	ic	

DRAWING TYPE

__ Analytical Proposal

TIMING

- Immediate
- __ Medium Term Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- Design
- Policy
- __ Management

Emergency/ Affordable Housing

Drawing Title

12 October 2005

Date

Marianne Cusato

Name of Contact for Additional Information

mcusato@aol.co

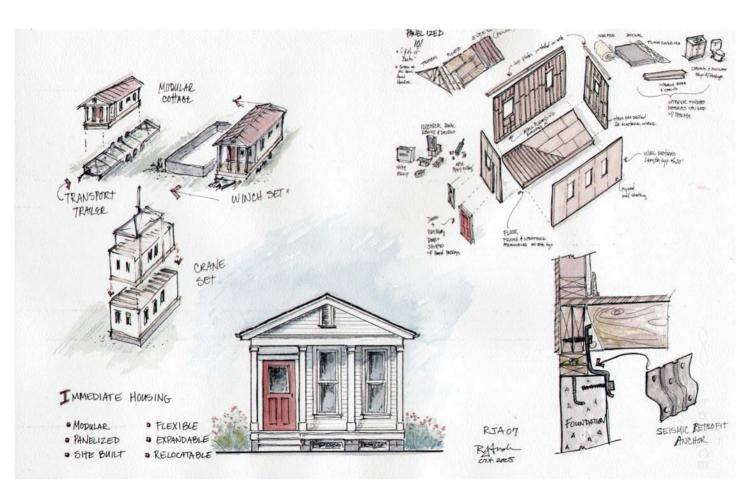
E-mail addres

NARRATIVE:

Three versions of the same smallscale emergency housing intended for immediate housing for workers and displaced residents. They can be manufactured or built on site for about \$25,000.

Timing & Affordability: Modular Construction





Architecture

	Topic	

DRAWING TYPE

__ Analytical Proposal

TIMING

- _ Immediate
- Medium Term
- __ Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- __ Design
- Policy
- __ Management

Modular Construction

Drawing Title

18 October 2005

_

R. John Anderson

Name of Contact for Additional Information

janderson@newurbanbui

E-mail address com

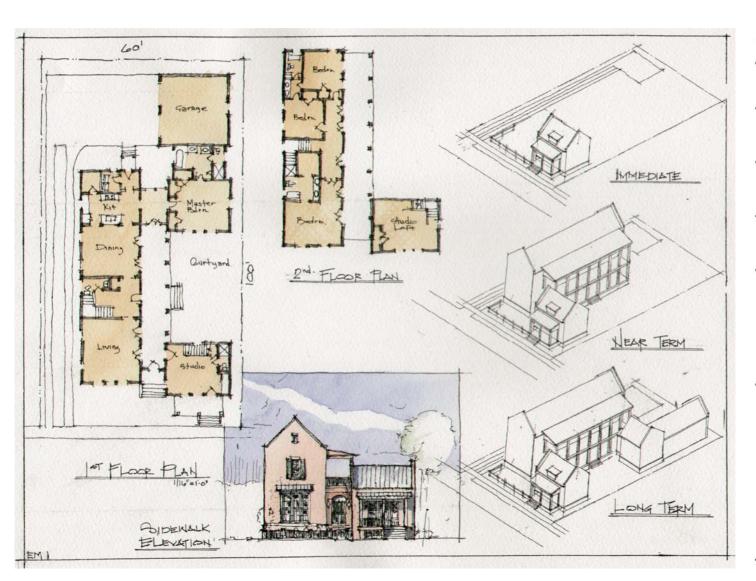
NARRATIVE:

Modular / manufactured 101.

Illustrated methods of assembly for a regionally appropriate housing option.

Timing & Affordability: Ability to Grow





Architecture

ice or Topic				

DRAWING TYPE

_ Analytical Proposal

TIMING

- _ Immediate
- Medium Term
- Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- __ Design
- Policy
- __ Management

Grow House

Drawing Title

18 October 2005

Date

R. Eric Moser

Name of Contact for Additional Information

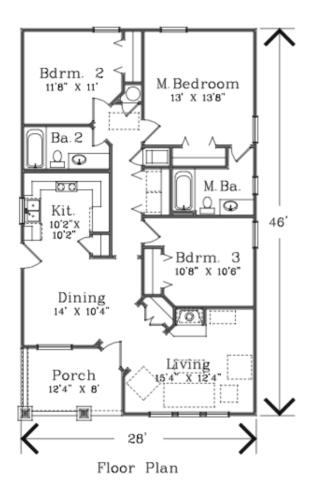
ericmoser@moserdesign

E-mail address Oup.com

NARRATIVE:

A study of how emergency
housing may grow into a
compound over time.
Additions may be made
as financial stability
grows. Eliminates the
waste of assets if
temporary structures
may grow into a
permanent compound.

Affordability & Durability: Plan Books



PREVALENCE NEIGHBORHOOD COLLECTION



BARRANCO MRF-1196



Architecture

Place or Topic	
DRAWING TYPE Analytical Proposal	

 10
Immediate
Medium Ter

TIMING

_ Medium Term Long Term

URBAN SCALE

 Street, Blocks, Building Neighborhood, District, Corridor

Region

IMPLEMENTATION THROUGH

__ Design Policy

__ Management

Michael Barranco

Drawing	Title	
18 O	ctober	2005

ate

Name of Contact for Additional Information

E-mail address

NARRATIVE:

The use of plans books and preapproved plans increase affordability. Selecting regular geometries enable modular or panelized construction. Municipalities may elect to pre-approve a plan book for permitting. This is one example of an affordable plan book option.

Affordability & Durability: Urban Casino





Architecture

DRAWING TYPE

Analytical Proposal

- Immediate
- Medium Term
- Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- Design
- Policy
- Management

John Anderson

Drawing Title

18 October 2005

Name of Contact for Additional Informatio

E-mail address

NARRATIVE: Study of boutique casino configured in a single block north of Beach Blvd. Parking is buried mid-block, restaurant / bar anchors the corners, and an arcade provides shade along the street. Residential towers are split to lower height and be more appropriate in scale to adjacent neighborhood. North side of building is lined with townhouses.

Durability: Elevated Condos





Architecture

Place or Topic

DRAWING TYPE

__ Analytical __ Proposal

TIMING

- _ Immediate
- Medium Term
- Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- Design
- Policy
- __ Management

Condominiums

Drawing Title

18 October 2005

Date

Michael Imber

Name of Contact for Additional Information

E-mail address

NARRATIVE:

Elevation study condominiums as they scale left to right from the beach to the neighborhoods. All are elevated to meet FEMA requirements with parking below. Where allowed the parking is lined with street front retail.

Durability: Elevated Condos





Architecture

DRAWING TYPE Analytical Proposal	
TIMING Immediate	
Medium Term Long Term	

URBAN SCALE

I (D)	111001	-		
_	Street,	Blocks,	Building	
_	Neighb	orhood.	District.	Corrido

Region

IMPLEMENTATION THROUGH

__ Design __ Policy __ Management

Beach-front Condominiums

Drawing Title 18 October 2005

te

Marianne Cusato

Name of Contact for Additional Information

E-mail address

NARRATIVE

Beach-front condominiums are fronted by a public park giving topographical elevation to locate buildings within an A zone. This allows for retail along the street.

Durability: Elevated Housing



Architecture Place or Topic DRAWING TYPE Analytical _ Proposal TIMING Immediate Medium Term Long Term URBAN SCALE Street, Blocks, Building Neighborhood, District, Corridor Region IMPLEMENTATION THROUGH __ Design Policy Management Courtyard Mixed-Use Drawing Title 18 October 2005 Gary William Justiss Name of Contact for Additional Information gwjustiss@aol.com E-mail address

NARRATIVE:

Elevation study for an apartment
/ condo elevated above a
parking level lined with
commercial space at the
street. The courtyard
garden is on top of the
parking



Durability: Elevated Village



Waterfront Village Goutier, Historippi

Architocturo

Architecture
Place or Topic
DRAWING TYPE Analytical Proposal
TIMING Immediate Medium Term Long Term
URBAN SCALE Street, Blocks, Building Neighborhood, District, Corridor Region
IMPLEMENTATION THROUGH Design Policy Management

Elevated Village

Drawing Title 18 October 2005

Date

Marianne Cusato

Name of Contact for Additional Information

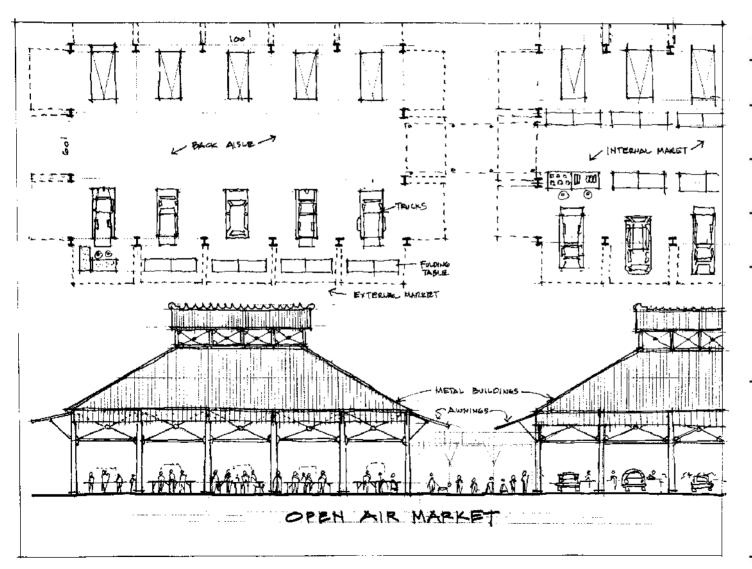
mcusato@aol.com E-mail address

NARRATIVE:

One alternative to new FEMA mapping is to elevate waterfront mixed use as in a fishing village.

Timing & Durability: Open-Air Market





Architecture

Place or Topic

DRAWING TYPE

__ Analytical Proposal

TIMING

- __ Immediate
- Medium Term
- _ Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- __ Design
- Policy
- __ Management

Open-air Market

Drawing Title 18 October 2005

Date Gary William Justiss

Name of Contact for Additional Information

E-mail address

NARRATIVE:

This open-air market is one solution for both timing and durability. It is speedy to construct and could be built in the FEMA V zones because the retail is removable. It is a good solution for supporting the local small-scale agricultural economy.

Durability: Elevation



COLEMAN AVENUE OPEN AIR MARKETPLACE JMA 5.4

Arc	hitect	ure
ΔIC	micci	uic

Place of Topic	
DRAWING TYPE Analytical Proposal	
TIMING Immediate Medium Te Long Term	rm

URBAN SCALE

- Street, Blocks, Building
 Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- __ Design
- Policy
- _ Management

Open-air Market / Residential

Drawing Title

18 October 2005

Date

John Anderson

Name of Contact for Additional Information

janderson@studioedr.com

NARRATIVE:

One solution to the schism between existing Coleman Avenue elevation and FEMA advisory elevation is to build an open-air marketplace that can be emptied in the event of a hurricane. This design includes housing above the required FEMA height limit.

Durability: Elevation & Hardening







Architecture
Place or Topic
DRAWING TYPE Analytical Proposal
TIMING Immediate Medium Term Long Term
URBAN SCALE Street, Blocks, Building Neighborhood, District, Corridor Region
IMPLEMENTATION THROUGH Design Policy Management
Gulfport Casino
Drawing Title 16 October 2005
Michael Imber

Name of Contact for Additional Information

E-mail address NARRATIVE:

This illustration is a Gulfport casino that utilizes both elevation and structural hardening to achieve durability. The lower levels are parking to reach the FEMA height requirements.

Durability: Elevation & Hardening



rd sine ESI PENTIM Casino & Residential Towers + Bright Marianne curate 'os

Architecture

Place or Topic

DRAWING TYPE

 Analytical Proposal

TIMING

- _ Immediate
- __ Medium Term Long Term

URBAN SCALE

- _ Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- __ Design
- Policy
 Management

Biloxi Casino

Drawing Title

16 October 2005

Date

Marianne Cusato

Name of Contact for Additional Information

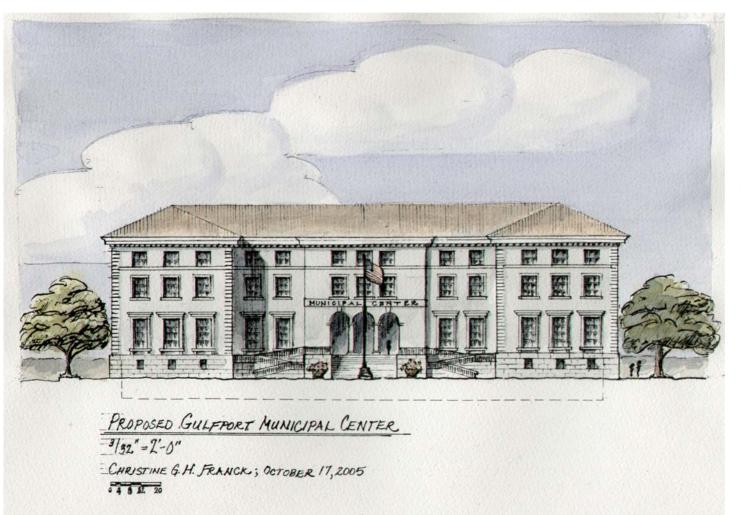
E-mail address

NARRATIVE:

This illustration is a Biloxi casino that utilizes both elevation and structural hardening to achieve durability. The lower levels are parking with portable retail to reach the FEMA height requirements.

Durability: Elevation & Hardening





Architecture

DRAWING TYPE

__ Analytical Proposal

TIMIN

- _ Immediate
- Medium Term
- __ Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- Design
- Policy
- __ Management

Gulfport Municipal Center

Drawing Title

16 October 2005

Christine G. H. Franck

Name of Contact for Additional Information

cghfranck@aol.com

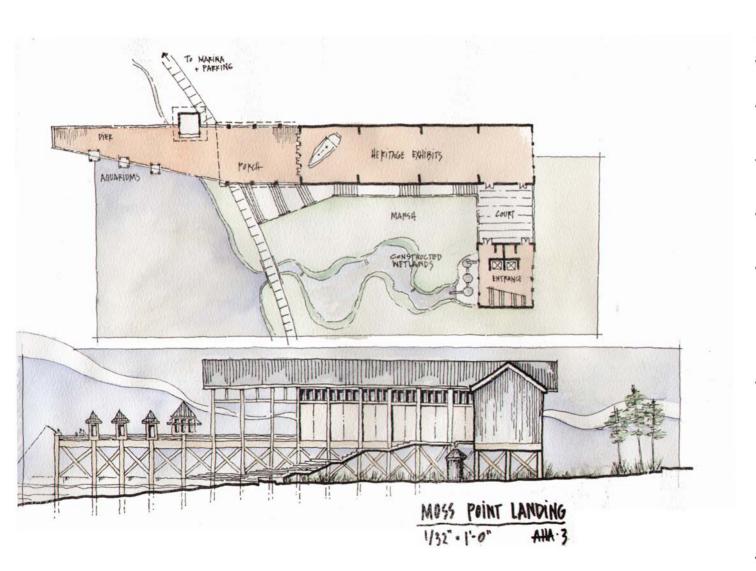
E-mail address

NARRATIVE:

This proposed civic structure is both elevated and hardened for durability. Materials are masonry with metal roof, and parking is a half-level below grade.

Durability: Environmental Responsibility





Architecture

7 11 01 111 0 0 1011 0
Place or Topic
DRAWING TYPE Analytical Proposal
TIMING Immediate Medium Term Long Term
URBAN SCALE Street, Blocks, Building Neighborhood, District, Corridor Region
IMPLEMENTATION THROUGH Design Policy Management
Moss Point Landing

Drawing Title

16 October 2005

Allison H. Anderson, AIA

Name of Contact for Additional Information

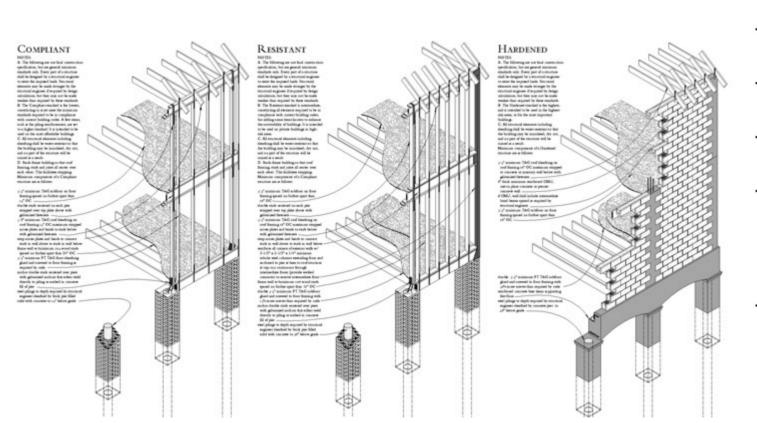
unarch@att.net

NARRATIVE:

The Landing highlights the importance of water in Moss Point's industrial and cultural heritage. Exhibits focus on shipping, fisheries and the environmental. A constructed wetland treats grey water to tertiary standards and releases it into the Escatawpa River.

Durability: Hardening a Structure





Architecture

DRAWING TYPE

_ Analytical Proposal

TIMING

- _ Immediate
- __ Medium Term
- _ Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- Design
- Policy
- Management

Hurricane Construction

Drawing Title

16 October 2005

Steve Mouzon

Name of Contact for Additional Information

steve@newurbanguild.com

NARRATIVE:

This illustration shows a structure on the left that complies with current building codes. The next two illustration show ways to make the structure more resistant and then hardened to effects of wind and water. These are not meant to be engineering drawings.

Durability: Success Analysis



Architecture

Place or Topic

DRAWING TYPE

_ Analytical Proposal

TIMING

- __ Immediate
- Medium Term
- __ Long Term

URBAN SCALE

- Street, Blocks, Building
- Neighborhood, District, Corridor
- Region

IMPLEMENTATION THROUGH

- Design
- Policy
- __ Management

Hurricane Construction

Drawing Title

16 October 2005

Steve Mouzon

Name of Contact for Additional Information

steve@newurbanguild.com

NARRATIVE:

This booklet was compiled from observations of two structures that survived Katrina in a Velocity Zone. Many structural techniques can be observed for improving durability. The booklet is included in the final report in its entirety.

KATRINA *SUCCESS ANALYSIS*

PASS CHRISTIAN
WEST BEACH HOUSE



STEPHEN A. MOUZON
PREPARED FOR THE MISSISSIPPI RENEWAL FORUM
05 OCTOBER 18

VIEW FROM JUST INSIDE FENCE

Ективов



Fill of the yard to an elevation of Fe² at the bouse begins past behind the tree. The pool termin null can be seen at the left of this image. This will kingly in repromise for the very light damage to the gene house beyond. A house as submanded at this is not alliened by FEMA in Ve-Tenne, FEMA may that they allies benche away well to a approximate the look of this house, but then they hold monitopalities habe for enforcing the two on habitable space in the histometic Besaute non-compliance by a small monitor of properties would result to less of flood instance by every altern in the entire monitopality in households; and maintain the less that of the house of Myrtle Bank, South Cambian, which is entire words a modern approach to manipulate it is the start of the house of Myrtle Bank, South Cambian, which is entirement that provide the self-start in the after house of the start of the house of Hyrtle Bank, South Cambian, which is entire monitopality in the property of the provide the self-start of the house of the local accountation community, and they generate sustain towards for his local accountation community, and they generate sustain times for the local accountation community, and they generate sustain times for no long as they stand.

14

Recommendations



- § **Timing** Emergency housing and retail must be on the ground fast. Manufactured, modular, and panelized solutions should be utilized for speed. Local sites should be identified immediately for manufacturing facilities. Local and regional suppliers are recommended to reduce cost and lead time. Congressional action should be encouraged to redefine FEMA enabling legislation so "temporary" housing has the potential of permanence and isn't a wasted investment.
- § Affordability Manufacturers are standing by to produce models appropriate to the architectural and cultural heritage of the region. New designs have been submitted by numerous architects and designers and should be the standard for incoming houses, both emergency and permanent. A plan book of regionally appropriate stock plans is being compiled and municipalities are encouraged to prepermit these houses to expedite construction. All houses would still require local inspections, but construction would not be delayed by the permitting process.
- § **Durability** Local municipalities are encouraged to unite in an effort to enlarge FEMA requirements from merely the prescriptive, and to include performance standards. Structural hardening should be an option to allow the habitation of the coastal region. Numerous levels of hardening are available, even including finishes which can tolerate immersion.