



winner ACSA Faculty Research and Design Award 2008



TYPE NEW CONSTRUCTION LOCATION GORDON COUNTY, GA DATE 2009 This project examines the influence of material on architecture through the Low-Country Line House in North Georgia. This project illustrates how a vernacular material and building construction influences design. Examining the influence of: form, cost, methods of construction, fabrication of product, installation of materials, structural and aesthetic performance, ecological and sustainable impact, and spatial/light/visual impact this project provides an analytical process for the implementation of the potential of a material. The Low Country Line house emerges from the climatic conditions of a rural north Georgia site. Desiring to have a limited impact on the landscape and be a self-sufficient building, the project sits lightly and responds formally and materially to environmental conditions. As an adjustable machine, the house operates to regulate use and performance. This project emerges from a sensibility founded in material celebration. It works within the guidelines of a material's performance, modularity, structural capabilities, formal presence and emotive power to produce an architecture that is of a material. As a case study it represents a material methodology founded in architecture of material influence.







www.bordenpartnership.com

1918 LAUDERDALE STREET HOUSTON, TEXAS 77030

#### PROJECT LOW COUNTRY LINE HOUSE



Map of 10-Hour Fuel Mositure at April 25, 2006 1300 EST



Forecast Fire Danger for Tomorrow Produced at April 25, 2006 130pm EST

1.0 5 Estrene 4 VeryHigh 3 High 2 Moderate 1: Low HOUSE AS FURNITURE

Map of KBDI at April 25, 2006 1300 EST





900: Dry







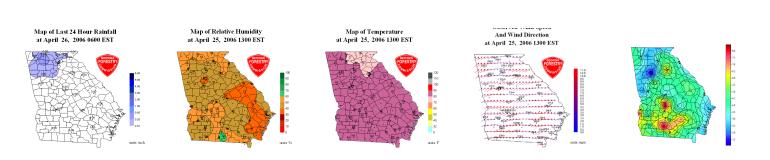
**BORDEN PARTNERSHIP** 1918 LAUDERDALE STREET HOUSTON, TEXAS 77030

HOUSE DIAGRAMS

GEORGIA CLIMATE MAPS

Map of Wind Speed at April 25, 2006 1300 EST

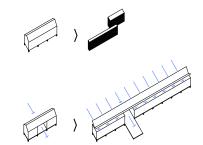








LONGITUDINAL ELEVATION



SOUTHERN TYPOLOGIES: DOGTROT + SHOTGUN







TRANSVERSE SECTIONS

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HOUSE TO YARD

HOUSE TO CAR GUEST

































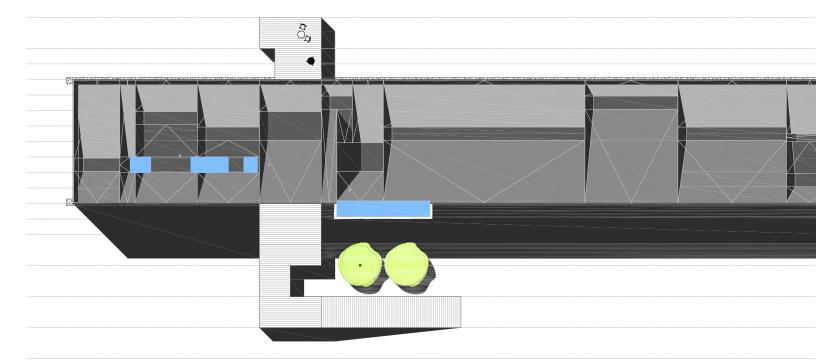








## LOW COUNTRY LINE HOUSE

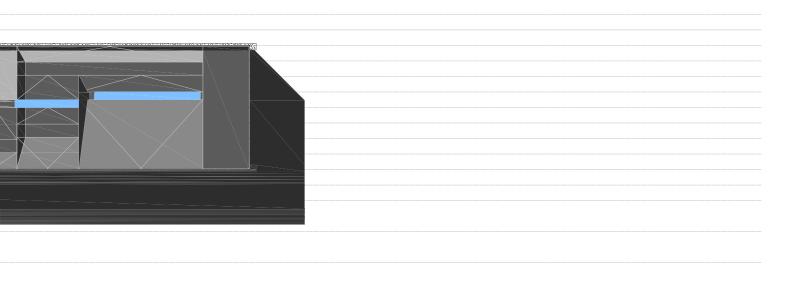




WIND

ROOF PLAN





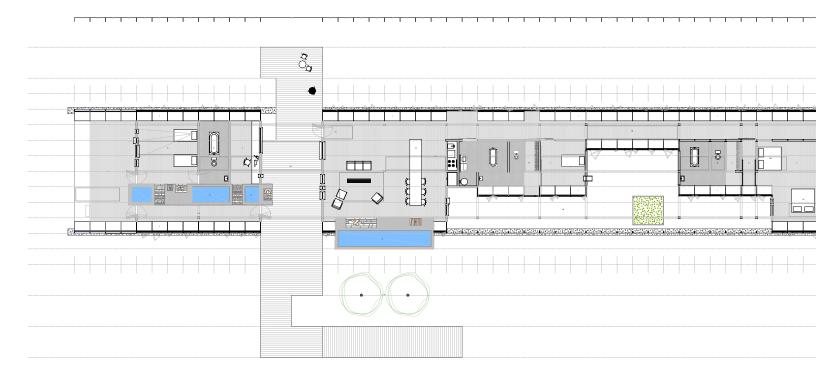
ORIENTATION

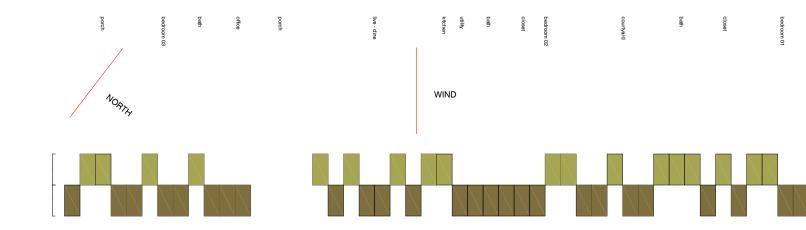
Low Country House



# LOW COUNTRY LINE HOUSE

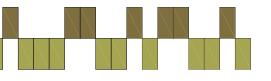






PLAN



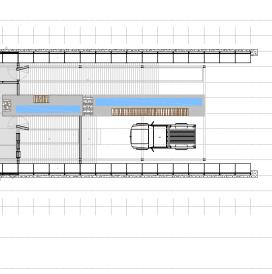


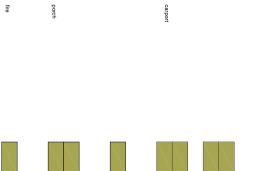
OPERABLE PANEL SKIN

MODULE

Cyntae Sin , Kon Kid
Cyntae Sin , Kon Kid
Cyntae Sin , Kon Kid
Contae Sin , Kon

PROGRAM







ORIENTATION

OPERABLE PANEL SKIN

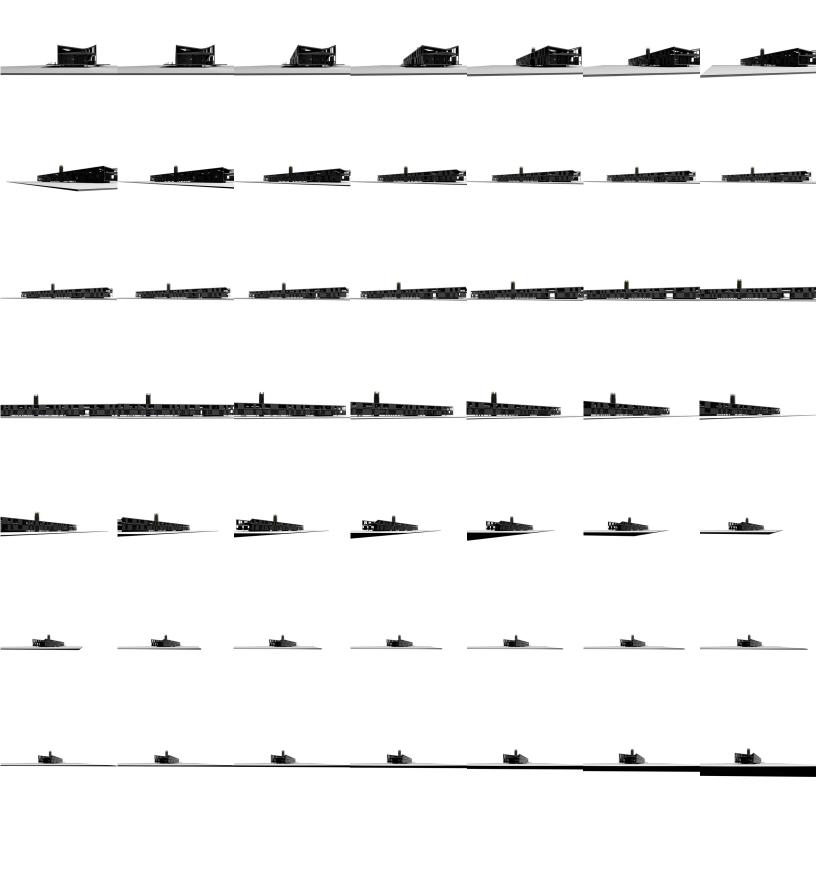
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Low Country House

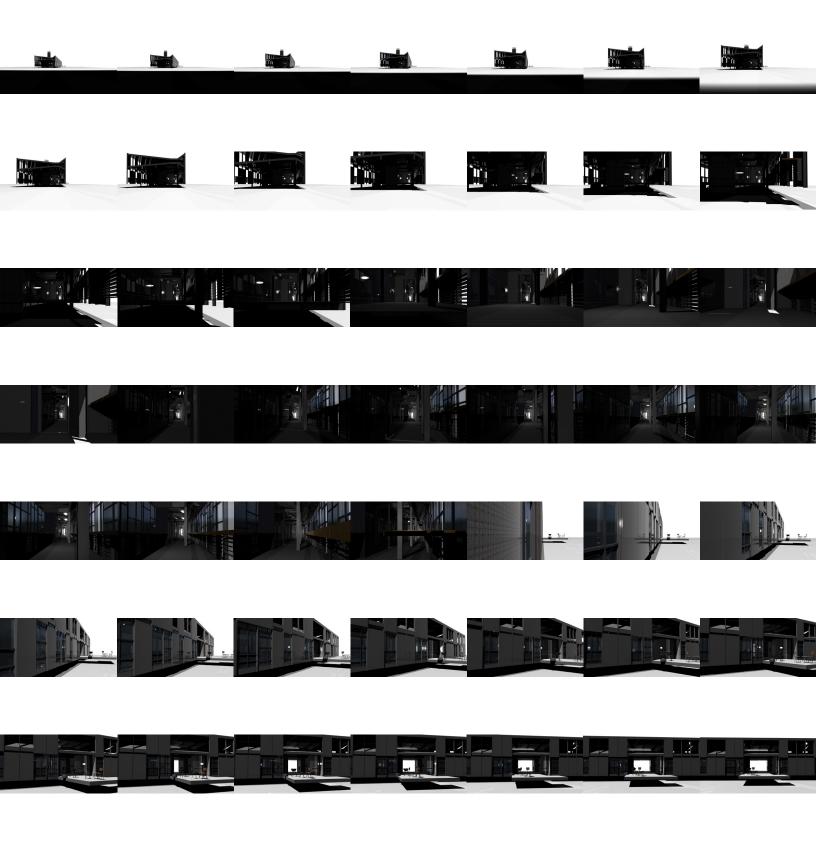








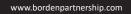






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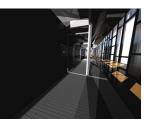






CARPORT + SERVICE ENTRY

LIVING ROOM



GALLERY

ENTRY AXIS

VIEW OF GUEST PORCH





VIEW ALONG LENGTH

ATION

LONGITUDINAL ELEVATION

OPERABLE PANEL WALL





DOGTROT ENTRY





AERIAL VIEW

BORDEN PARTNERSHIP 1918 LAUDERDALE STREET HOUSTON, TEXAS 77030

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### PROJECT LOW COUNTRY LINE HOUSE



LOW COUNTRY LINE: FUNNEL ROOFS

VIEW ALONG HOUSE



DETAIL OF OPERABLE SECOND SKIN







OPERABLE PLYWOOD WALL

RAIN ROOF UPPER - WIND ROOF LOWER



OPERABLE SKIN OVER GARDEN



