"Density is the next frontier in responding to sprawl and in rebuilding livable urban neighborhoods, but we have an irrational fear of it," says David D. Dixon, principal of Goody, Clancy & Associates, Boston, and BSA president. "Fox & Fowle developed an innovative solution allowing them to leverage the design flexibility inherent with density."

The Fox & Fowle team chose an 18.6-acre site in central Gloucester that included abandoned industrial property, open space and woodlands. It was also adjacent to a commuter rail station.

The Strauss team removed the

sheathing and used the 8-ft-wide x

9.5-ft- high x 40-ft-long containers as structural components for 351 duplex lofthousing units consisting of four containers. Also included was 170,000 sq ft of commercial space, including a hotel, and 27,700 sq ft of civic/cultural space, incorporated in a crescent-shaped development. At-grade and below-grade parking for 593 cars was also provided. Together the plan utilizes about 3,000 containers stacked eight high on a 345,000-sq-ft footprint.

Vertical & horizontal

circulation spire

Playground &

community terrace

Rooftop hothouses

Protective windscreen

Duplex live/work

Ground floor shop

Houses/galleries

loft units

Housing

The team also noted fitouts could form the basis for an incubator industry in Gloucester, Costs for 5,000 containers could run about \$650 each, according to Philip K. Brewer, senior vice president of The Textainer Group, San Francisco, the world's largest lessor of containers. "There is real savings in the frame construction as compared to conventional block and plank construction but the modular components such as bathrooms and kitchens can he preassembled for even

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buildings

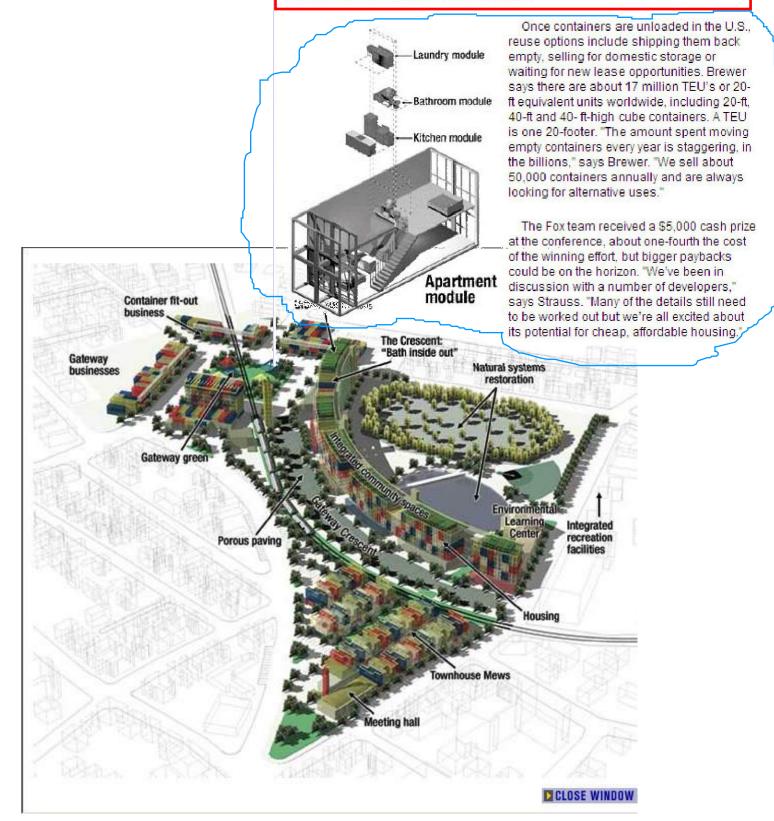
HOUSING

Shipping Containers Show Promise for Living Space 11/17/2003 By William J. Angelo

With tens of thousands of empty shipping containers clutteringAmerica's seaports, one New York City architectural firm has developed a novel idea for converting the ubiquitous metal boxes into low-cost housing and working space. Firm officials are now talking with developers about making it a reality. Click here to view image>>

Mark E. Strauss, principal and director of planning for Fox & Fowle Architects PC, came up with the idea after receiving a speaker's package for a recent conference on building density. Strauss had been involved with post-9/11 New York City planning and decided to enter the national design competition sponsored by the Boston Society of Architects. BSA was seeking creative ways to help cities and towns deal with sprawl. Contestants were asked to find mixed-use alternatives supporting community life and a livable environment using one of three Massachusetts locations: Boston, Westwood or Gloucester. be preassembled for even greater savings," says Strauss.

He formulated the plan after reading a paper by a teaching colleague at Baruch College, Barry Hersh, who had written about the problem of the surplus containers "We wanted to recognize Gloucester's maritime heritage with something symbolic as well as functional," says Strauss. "Because of the trade deficit last year, 1.6 million containers came into the [Port] Newark-Elizabeth complex but less than 688,000 full containers left. These things cost about \$2,300 to build in China but cost \$900 to ship back empty from the East Coast."



MADE FROM SHIPPING CONTAINERS

Addis Containers

New Zealand pioneers in shipping container house design and construction, Addis Containers offer architecturally designed contemporary houses to suit your site and lifestyle.

One of the most exciting new trends in contemporary architectural design, Addis shipping containers offer numerous benefits over other construction techniques:

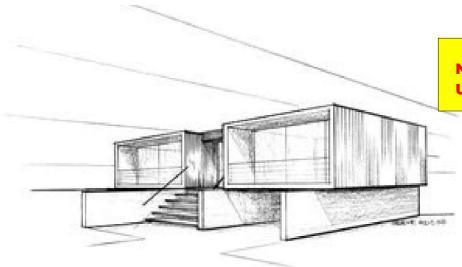
- Superior structural strength for low cost
- Contemporary finishes and interiors
- Modern clean lines

: portfolio :

: benefits :

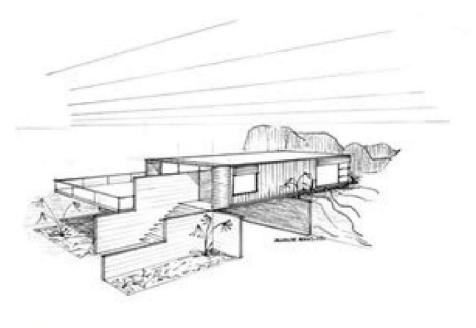
: contact :

All content copyright © 2003 Addis Containers Ltd. All container house designs and renderings by Graeme Addis. Web Design and Hosting by Ben McNicoll

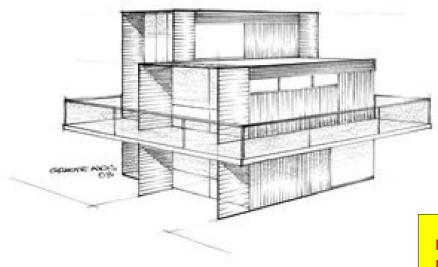


NEW ZEALAND ARCHITECTURAL COMPANY DESIGNS USING SHIPPING CONTAINERS

multi-modular



seaside city

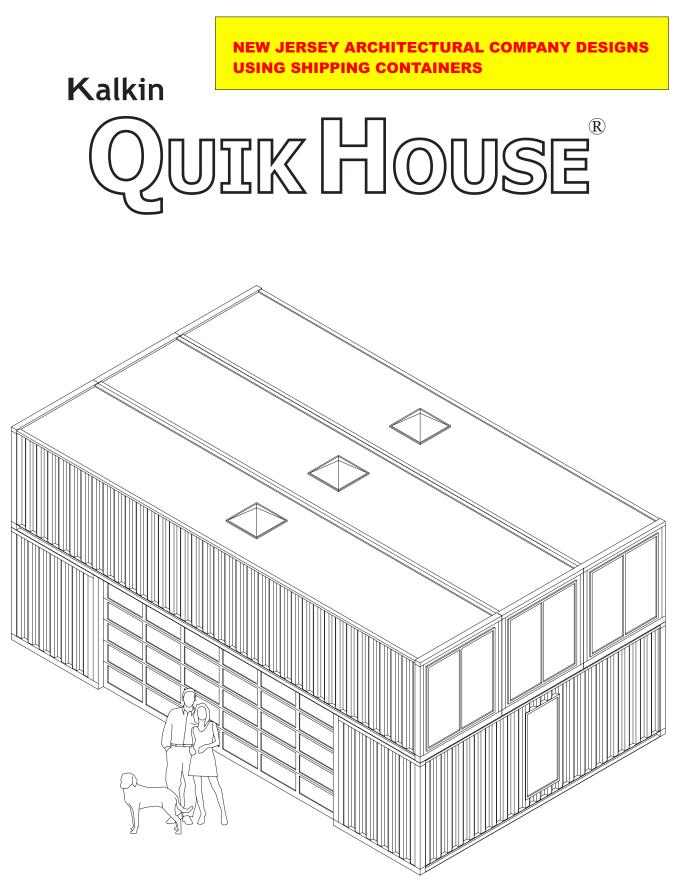


NEW ZEALAND ARCHITECTURAL COMPANY DESIGNS USING SHIPPING CONTAINERS

townhouse 2



4 floor glass



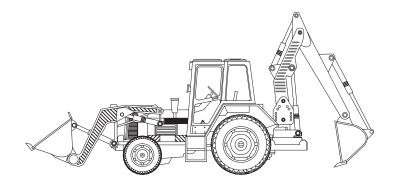
Quik Satisfaction.

Appendix C:

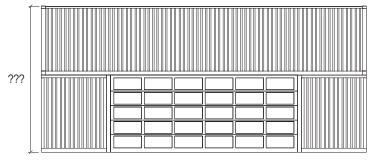
Estimated finishing costs fo**Premium House Kit**

Site Preparation	on destination) - excavation - foundation and .slab - in slab radiant .heat	\$ \$ \$	2,000 6,000 5,000
Total estimated finishing costs fo Premium House Kit		\$18,500	
PREMIUM HOUSE KIT Cost to finish		\$1 <i>6</i> \$1	50,000 8,500
Total estimate	or \$89.25 per s	•	

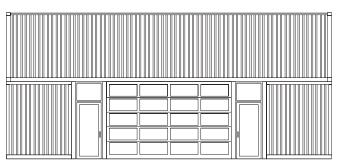
NEW JERSEY ARCHITECTURAL COMPANY DESIGNS USING SHIPPING CONTAINERS



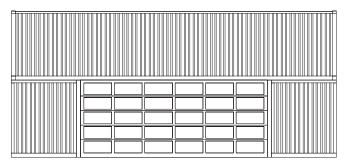
Your Exterior Door Choices- Front Elevation



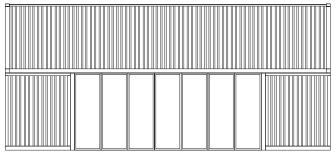
a. OVERHEAD



b. OVERHEAD with SIDE DOORS

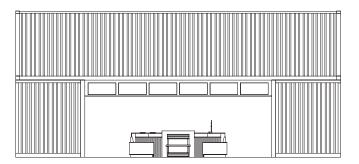


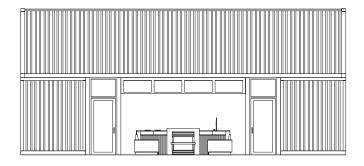
 $\ensuremath{\textbf{c}}$. VERTICAL LIFT

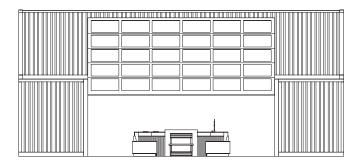


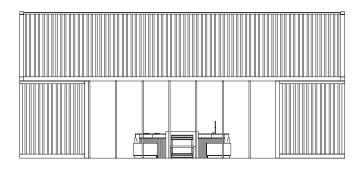
d. PIVOTING GLASS PANELS

NEW JERSEY ARCHITECTURAL COMPANY DESIGNS USING SHIPPING CONTAINERS

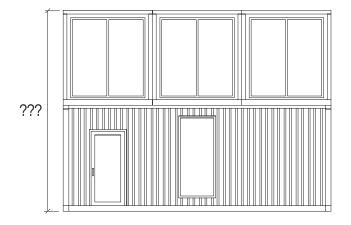




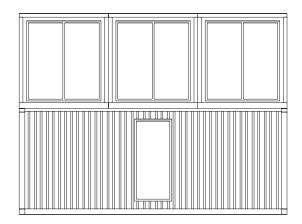




Your Exterior Door Choices- Side Elevation



. with SIDE ENTRANCE



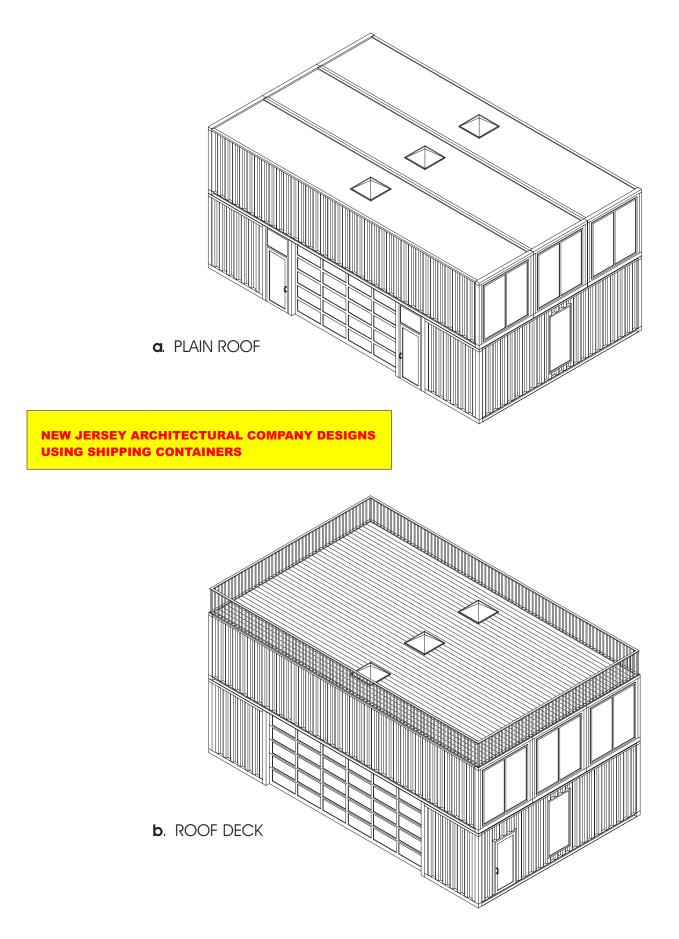
b. without SIDE ENTRANCE

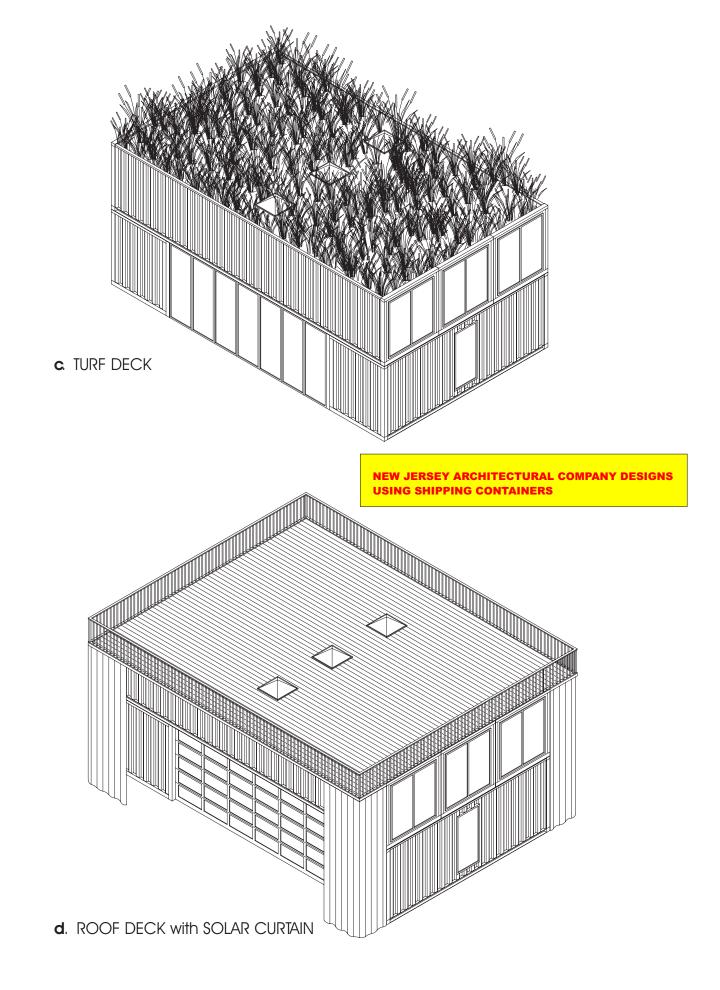
NEW JERSEY ARCHITECTURAL COMPANY DESIGNS USING SHIPPING CONTAINERS

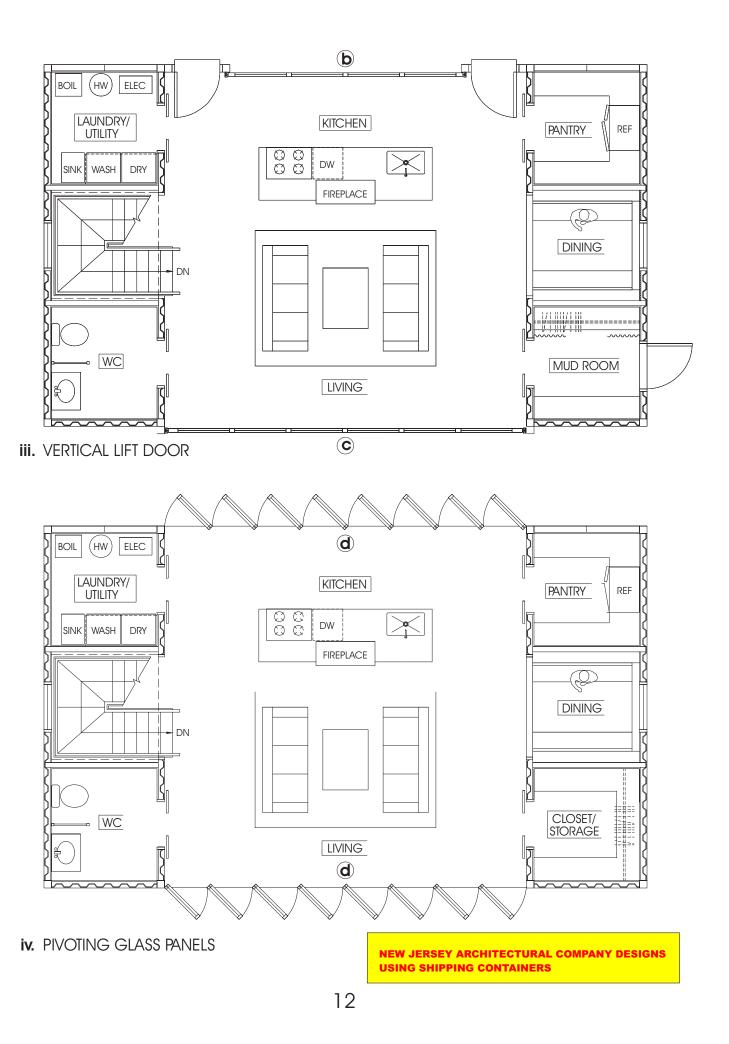
Notes:

Depending on your site, we will recommend one of the exterior door configurations on the list.

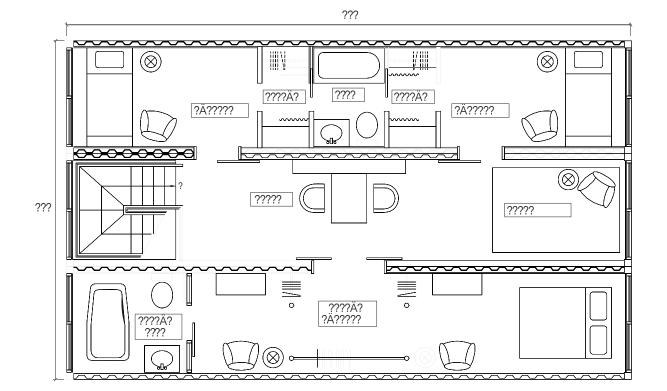
Your Roof Top Choices







? ????



NEW JERSEY ARCHITECTURAL COMPANY DESIGNS USING SHIPPING CONTAINERS

Kalkin`?????

Shipping Container Costs

Shipping container costs are one of the variable costs of shipping container house building.

If you're considering the idea to have a **house built from shipping containers**, you have two options:

- to build it yourself;
- to buy such a house from a specialized company.

If you want to build it yourself, the first thing you want to know is the price of such a container. As we said, we're not specialists, but we searched the net and found some information about the **shipping container costs**.First of all keep in mind that **the price will vary** depending on the source, size and condition of the container.



The good news is that new and used shipping containers are available everywhere. You can try for yourself to search the net and see what you can find or you can check the local papers for classified ads. Maybe there's a company near you that has shipping containers for sale and you don't even know.

Of course, **used shipping container costs** are **the smallest** because used containers are being liquidated at bargain prices to make room for new ones.

Beside the price of the container itself you must take into consideration other costs as well:

- transportation and handling;
- modifications that include but are not limited to: cutting, insulating, connecting to the electrical and water infrastructures.

Our first intention was to draw a table with container manufacturers and their prices. In the end we will give you only a **list of manufacturers** and **other sources** as well from where you can buy new and used containers. We decided to do so because:

- you must request a quote;
- the price may vary according to the number of containers you want to buy, your location, their size and condition, various modifications you want.

As a rule of thumb you may expect a price of **1500-2000\$** for a **new standard 40' container**, without any modifications, transport and handling included.You can check our list in the resources section.

Shipping Containers Housing Benefits

Let's see what are the shipping containers housing benefits. Shipping containers can be used to build houses, garages, shelters, offices and almost any type of building you can think of. Why would you wanna use them for such things instead of traditional construction materials?

- they are ready available. There are millions of empty shipping containers cluttering world's seaports. Only in New York there are about a million empty containers that overflow the seaport and jam storage yards.
- such containers are cheap. The average container life is 2-3 years, then they are liquidated to make room for newer leased models. Because of this you can find them at real cheap prices. More on this in our costs section
- they are build to resist in the not so friendly environment of the world's oceans: tough corrugated steel and tubular steel frames, one and a half inch thick marine grade plywood floors, vandalproof locking steel doors, water-resistant welded seams, and all weather paint. Their rigid steel structure makes it easy to stack up to more building levels high. They can be insulated and provided with windows and sanitary and electrical installations.

These characteristics make the shipping containers **great candidates for land based buildings**. From the same reasons they can be used for larger projects such us a **low cost solution for entire communities**: students that can't afford high rents, peoples with low income, homeless people.

Container Housing Companies

Let's take into consideration now the option of **buying a house from a** container housing company. Why choose one of their products instead of building yourself a house? We think that the main reasons for doing this are:

- you like the idea to have such a house because you want to be different:
- you don't have enough time for such a big project;
- you don't have the necessary skills to build yourself a shipping container house:
- you want something more complex, designed by an architect, with many rooms and floors, contemporary finishes and interiors, modern and clean lines and maximum comfort.

There are many finished or under construction projects all around the world that make use of containers for different purposes. Here you'll find links to several container housing companies that sell houses made from cargo containers.

 Addis Containers is a shipping container house design and construction company from New Zeeland. They have several designs that can be modified according to your needs.



 Jones, Partners: Architecture - a good example of container housing company

Their Program Container System (PRO/con) is a prefab house assembled from standard 20-foot steel shipping containers that can be tailored to individual tastes and budgets.

PRO/con combines the shipping container unit with a system of prefabricated steel-frame infill panels: floor panels with recycledwood flooring; window panels; and roof panels.

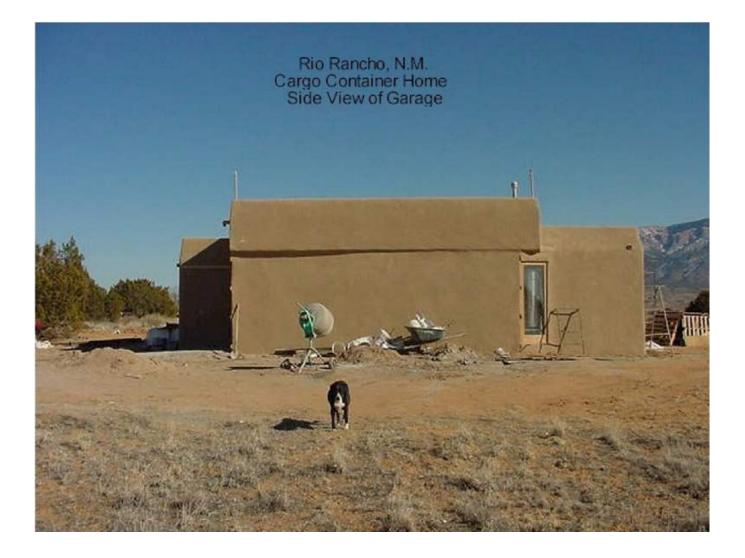
"The loose modularity of the PRO/con system," says Wes Jones, "does not view the house as finished product but as a continuously negotiated collection of products and their ultimate relation to the ever-changing American family."

> 1. The Quick House is a prefabricated kit house designed from recycled shipping containers and is distributed by kalkin & co. It has three bedrooms and two and one-half baths in its 2,000 square foot plan. It comes with a handy



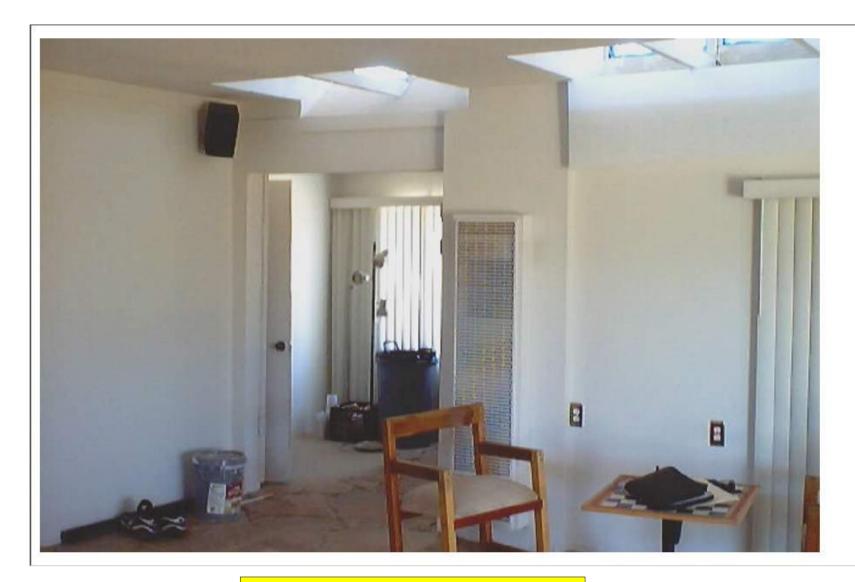
booklet and they can build it for you.

2. The 99.000\$ house





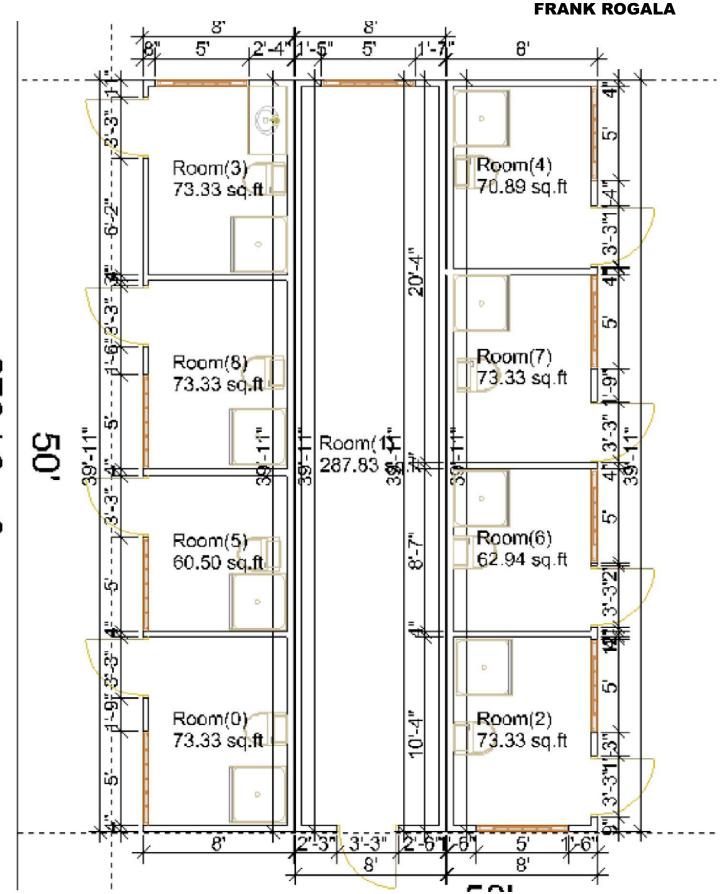




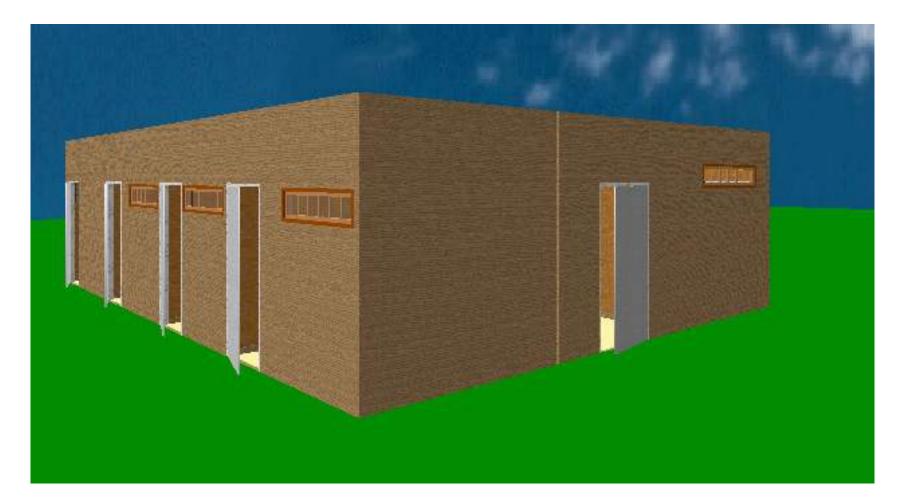




CONTAINER BUILDING TOILET SHOWERS DESIGN FOR MACKINAW MILL CREEK CAMPING



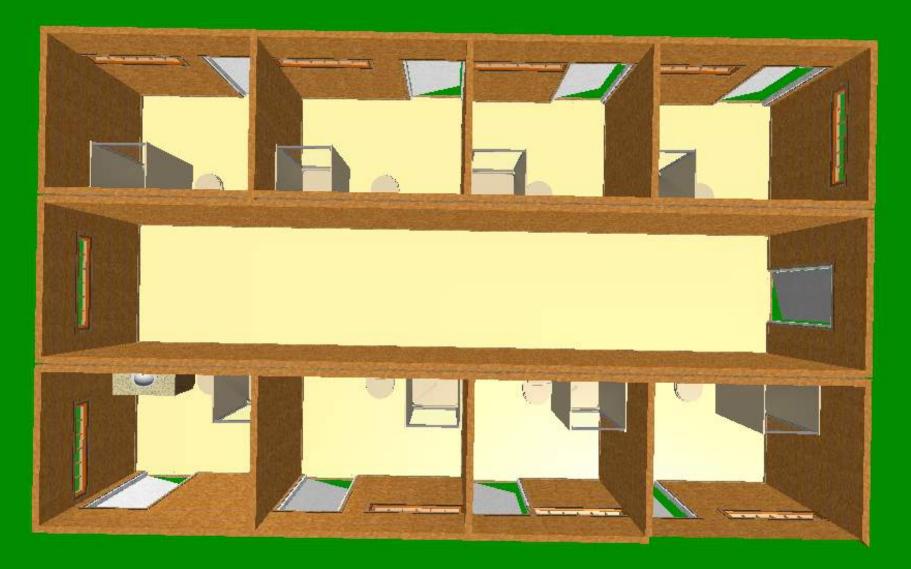
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CONTAINER BUILDING TOILET SHOWERS DESIGN FOR MACKINAW MILL CREEK CAMPING FRANK ROGALA



CONTAINER BUILDING TOILET SHOWERS DESIGN FOR MACKINAW MILL CREEK CAMPING FRANK ROGALA



CONTAINER BUILDING TOILET SHOWERS

DESIGN FOR MACKINAW MILL CREEK CAMPING

FRANK ROGALA

CONTAINER BUILDING TOILET SHOWERS

DESIGN FOR MACKINAW MILL CREEK CAMPING FRANK ROGALA



New York Architecture Images-Chelsea

This is really quite good. It's almost churchlike within. Very peaceful, and a perfect setting for the artwork.

Shipping ontainer Find Shipping Containers & Storage Facility Information Here!

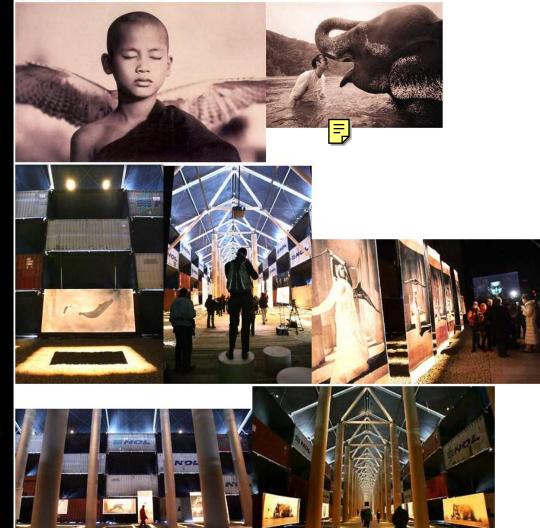
Storage Containers 100,000 Stores. Deals. Reviews. Storage Contain

Start

Mini Storage Container Looking to find mini storage? Visit our mini storages guido guide. iStorages.net



Photographs by Gregory Colbert



other sites









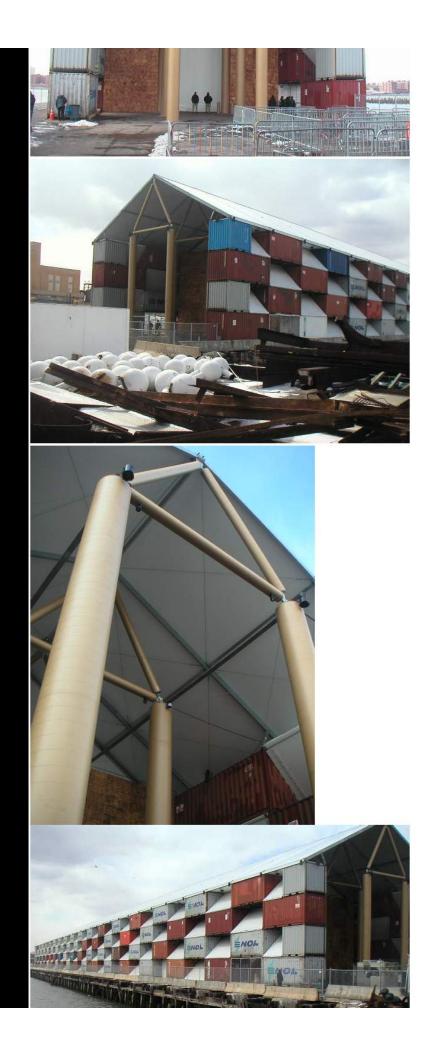






A scene from the NBC show "Law and Order"







February 24, 2005 A Dockworkers' Strike? No, It's Art

By ROBIN POGREBIN





A model of the museum.

People speeding down the West Side Highway could be forgiven for not looking twice at Pier 54; the shipping containers stacked there are not an uncommon sight on the Manhattan waterfront.

But in fact, they are passing not just the historic pier on the Hudson River at 13th Street where the Titanic's survivors were discharged, but also a new museum designed by the Tokyo architect Shigeru Ban.

The 45,000-square-foot structure was expressly built to display "Ashes and Snow," a show of 200 large-scale photographic works by the artist Gregory Colbert that opens March 5 and runs through June 6 before traveling to California and the Vatican.

It's not just the show that's going out on the road. The entire museum is to be packed in 37 of the 148 cargo containers that form its checkerboard walls. The temporary structure is composed largely of recyclable materials: the roof and columns are made of paper tubes, the steel containers stacked 34 feet high are used, and a handmade curtain to be suspended from the ceiling is made of one million pressed paper tea bags (used, with the tea leaves removed).

"Shigeru is the Mozart of sustainable architecture," Mr. Colbert said. "Also, from a philosophical point of view, he's done some great public buildings; he says that art shouldn't be for the privileged.

Mr. Colbert, whose work seeks to capture the mystical relationship between humans and animals, said he approached Mr. Ban because he admired his use of unorthodox materials. The architect's previous designs include the paper tube arch constructed in the sculpture garden of the Museum of Modern Art, the Paper Museum and Paper Church in Japan, and the Paper Refugee Shelter, made of plastic sheets and paper tubes for the United Nations high commissioner for refugees.

Mr. Colbert said he wanted the Nomadic Museum, like those other Ban projects, to seem accessible to a wide audience.

"The structure shouldn't be intimidating," he said. "It should feel really inviting. It's a bridge between the arts and the natural sciences. It's not art with a capital A."

121 - 222 - 21

EXIT PARK (GATED OR TIRE DAMAGE PROTECTION)

TOP FLOOR VIEW OF BRIDGE AND STRAITS OVER TREES

OUT LANE FOR DELIVERY TRUCKS, CAMPERS WHO CHANGE THEIR MIND, ETC.

GATED - CAN ENTER WITH SLIDE CARD AND EXIT HAS TIRE DAMAGE PROTECTION

ALL INTERNAL VIEWS TO INSIDE WHERE POOL AND GARDEN -NO ROADS THIS SIDE

ENTER ONLY - NO EXIT

Ę

SEE SIZE OF RALLY BUILDING FOR IDEA OF SCALE

