
FSU/SESEC

presents: the OGZEB



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THE OFF-GRID, ZERO EMISSION BUILDING AT FSU



Purpose of the Project

The OGZEB involves the design, construction and operation of a completely solar-powered building that achieves LEED-NC platinum certification. A 1000 square foot building, the OGZEB will be partitioned so that 750 square feet will be a two-bedroom, graduate style flat with the remaining 250 square feet serving as office space. This arrangement will allow for the building to serve as an energy efficient model for campus designers in student living and office space. More specifically, though, the building will serve as a prototype for developing and implementing cutting edge, alternative energy technologies in both residential and commercial settings.

Project Description

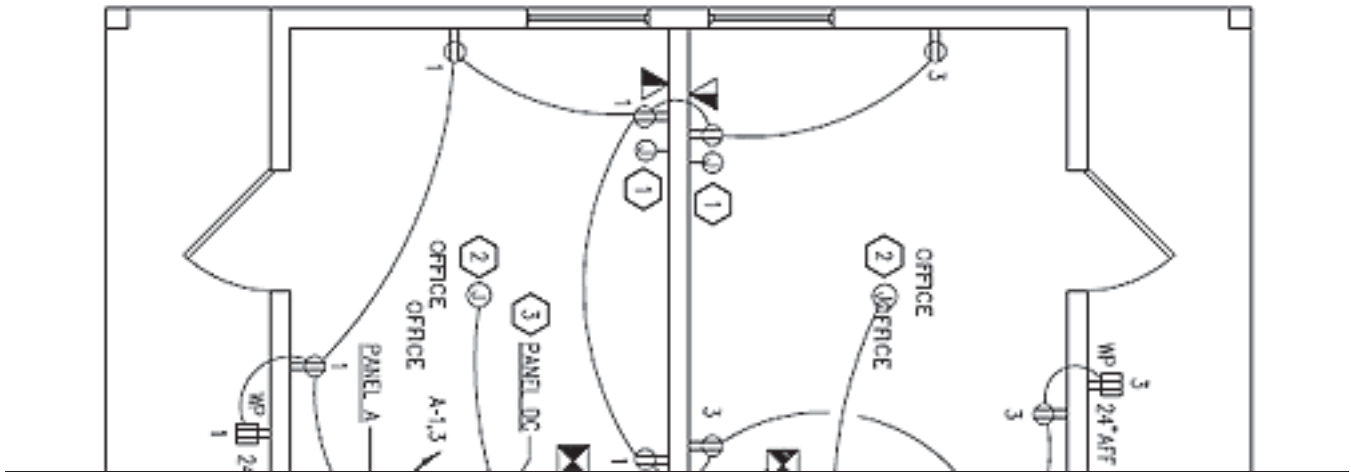
Since the sun is not a constant source of energy throughout the entire day, excess energy will need to be generated to provide energy storage that allows power to be continuously supplied to the house during non-daylight hours. The most common solution to this problem is the use of high efficiency batteries for energy storage. This approach has been, and continues to be, the de facto solution used by the teams in the Solar

Decathlon. However, high efficiency batteries are extremely expensive and they have a limited lifetime. Alternatively, the OGZEB will use excess energy from photovoltaic (PV) panels, also known as solar panels, to produce hydrogen through the use of a highly efficient water electrolysis device that is currently being developed at SESEC. This hydrogen will be stored until it is required, at which time it will be fed to an innovative fuel cell, which is also being developed at SESEC. This project will not be the first to use hydrogen as an energy storage medium, but it will be the first to employ innovative hydrogen technologies that are not currently commercially available.

The hydrogen will also be used to address the biggest consumers of energy in a building: space heating, cooling and the generation of hot water. Through combustion in a furnace, the hydrogen will provide sufficient heat for space heating and will also generate sufficient heat to use advanced ammonia absorption technology for air-conditioning. The hot water will be generated through the use of an on-demand hot water heater that will be modified to use hydrogen as its working gas. The use of hydrogen to meet these needs is unique to this project. Using an ammonia absorption cycle is also an original concept, especially considering that one does not exist for a building this small.

High efficiency electronics and lighting, along with good insulation, can greatly reduce the energy needed to make the atmosphere in the building comfortable and enjoyable. The OGZEB will include low energy, spectrally selective windows, LED lighting, low air infiltration and extensive use of passive solar heating.

Environmental consciousness is also considered during the design and construction of the OGZEB. Every attempt



will be made to build the home with recyclable materials that are not detrimental to the environment during their creation and use. In fact, the design and construction of the OGZEB will be guided by the LEED (Leadership in Energy and Environmental Design) Green Building Rating System, which has been developed by the United States Green Building Council (USGBC/www.usgbc.org). The LEED system is based on well-founded scientific standards and emphasizes state-of-the-art strategies for sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality. There are four levels that companies can achieve from the LEED rating system: Certified, Silver, Gold and Platinum. Platinum LEED-NC will be pursued for the OGZEB so that it can be the first such building to exist in the southeastern U.S. In fact, there are only nine platinum-certified “new construction” buildings in the entire world, seven in the U.S. and two in India.

The students and staff of SESEC, in close collaboration with local architects and engineers, will design the OGZEB so that it meets all of the above-mentioned goals, as well as any federal, state, local and university building codes. The students and staff of SESEC will carry out the basic construction of the home, such as the framing and the plumbing. Contracted professionals will perform the more advanced construction, such as the building wiring. Construction on the OGZEB is anticipated to begin during the summer of 2006 with project completion expected during the spring of 2007.

Conclusion

The successful completion of the OGZEB will accomplish a number of goals. First, it will provide SESEC with a test bed for the further development of alternative energy based technologies that can be implemented in residential and commercial applications. Second, it will provide FSU, Tallahassee, and the State of Florida with a LEED-NC platinum-certified building, the first of its kind in the southeastern U.S., that will demonstrate both graduate student

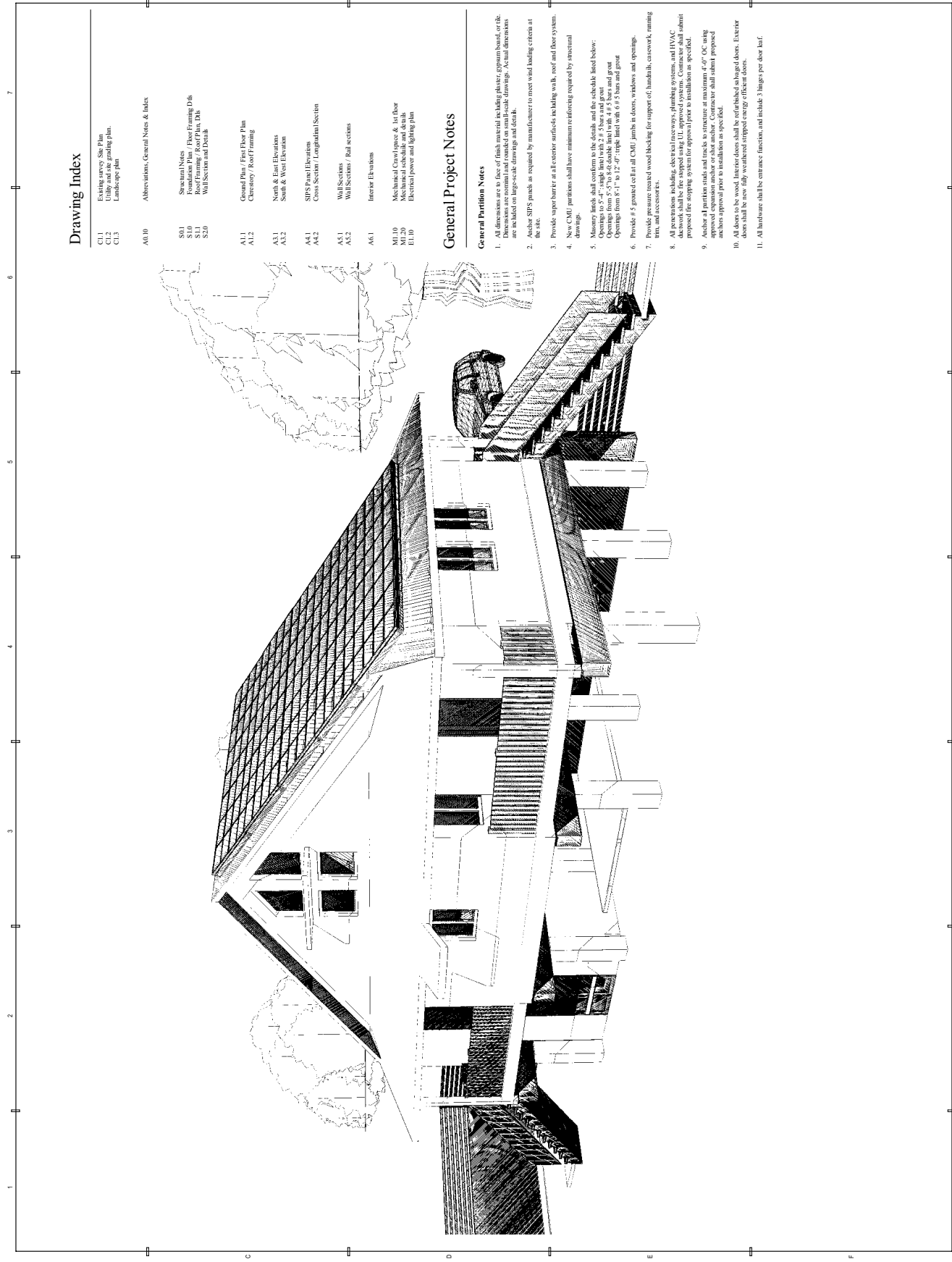
housing and office space without burdening the local utility system. Due to its novelty, it is expected that the OGZEB will attract a number of people for tours and garner positive national attention. Third, it will provide the students and staff of SESEC with the experience required to be competitive in the Solar Decathlon 2009, the proposals for which must be submitted during Fall 2007. Lastly, and possibly most important, the OGZEB will expose the students at FSU and the citizens of Tallahassee to the benefits of sustainable, “green” building and engineering, as well as alternative energy sources. This type of exposure is necessary to change public opinion and overcome some of the negative stereotypes that have been promulgated regarding these types of technologies.

Description of the Solar Decathlon Competition

The long-range goal of this competition is to develop and demonstrate solar powered homes in which the whole house levelized energy cost is \$0.10/kWh by 2015. University teams must submit an extensive proposal to participate in the Decathlon, and only twenty teams are selected to compete. Each of the selected teams designs and builds a 500 – 800 square foot modular home that must be powered entirely through solar energy. For the competition, the home must be moved from its construction site to Washington, D.C., where it is scored based on ten specific tasks. On average, the top ten houses from the Solar Decathlon 2005 competition cost \$550 per square foot. As mentioned above, the OGZEB will be at the upper size limit (1000 square feet) with a lower projected cost (\$375 a square foot). This significant savings is the result of using cutting edge technology not found in any of the previous Solar Decathlon homes.

Special Features of the OGZEB:

- Hydrogen Appliances – (Burn hydrogen rather than natural gas, cleaner)
 - Water Heater
 - Stove/Oven
 - HVAC
- Rain Water Collection
 - Store water for irrigation purposes
 - Manage storm water run off
- High Efficiency Water Use
 - Low flow fixtures
 - Recycle grey water
- High Efficiency Lighting
 - LEDs
 - § Reduce power consumed
 - § Reduce heat emitted by lights
 - Passive Solar Skylights
 - § Harness sun light efficiently
 - § Our Design reduces heat transfer
 - Reduce Light Pollution
 - § Prevent light from escaping building and effecting the environment
- Completely Solar Powered
 - Solar Cells provide electricity
 - Collectors Concentrating Solar Provide
 - § Hot water
 - § Solar Heat Powered HVAC
- Hydrogen Production and Use
 - New electrolyzer developed by SESEC
 - New fuel cell developed by SESEC
- Construction Waste Management and Reuse
 - Design the building based on available materials to reduce building waste
 - Reuse when at all possible
- Regional Materials
 - Utilize materials within a 500 mi radius of Tallahassee
- Rapidly Renewable Materials
 - Use materials that take under 10 yrs to grow
 - Easy to replace and less detrimental to the environment
- Data Collection
 - Collected data
 - § Inside conditions
 - § Outdoor air used in house
 - § Ventilation and emissions
 - § Lighting effectiveness
- Platinum Certification from the United States Green Building Council
 - Highest Level of Certification
 - One of only 15 buildings with this level of certification



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CU.2	Utility and site grading plan
CU.3	Landscape plan
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SU.2	Roof Framing / Roof Plan, Dbl
SU.3	Wall Section and Details
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GA.2	Chemistry / Roof Framing
GA.3	North & East Elevation
GA.4	South & West Elevation
GA.5	SPS Panel Elevations
GA.6	Cross Section / Longitudinal Section
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GA.8	Wall Sections / Roof sections
GA.9	Interior Elevations
GA.10	Mechanical Circulation & In floor
GA.11	Electrical power and lighting plan

General Project Notes

- General Partition Notes**
- All dimensions are in feet. Dimensions are nominal and rounded to small-scale drawings. Actual dimensions are included on large-scale drawings and details.
 - Anchor SPS panels as required by manufacturer to meet wind loading criteria at the site.
 - Provide super-barrier at all exterior soffits including walls, roof and floor system.
 - New CMU partitions shall have minimum reinforcing required by structural drawings.
 - Masonry finish shall conform to the details and the schedule listed below:
Openings from 5'-5" to 8'-0" double lintel with 4 # 5 bars and grout
Openings from 8'-1" to 12'-0" triple lintel with 6 # 5 bars and grout
Provide # 5 grouted cells at all CMU joints in doors, windows and openings.
Provide pressure treated wood blocking for support of: handrails, casework, raming
All partitions including electrical fireways, plumbing systems, and HVAC
proposed the stopping system for approval prior to installation as specified.
 - Anchor of partition studs and tracks to structure at maximum 4' OC using approved expansion anchor or other anchor. Contractor shall submit proposed anchors approval prior to installation as specified.
 - All doors to be wood. Interior doors shall be refinished as bugged doors. Exterior doors shall be new fully weathered stripped energy efficient doors.
 - All hardware shall be entrance function, and include 3 hinges per door leaf.

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ELECTRICAL	CDR	CDR	12-15-06
PLUMBING	CDR	CDR	12-15-06
LANDSCAPE	CDR	CDR	12-15-06
INTERIOR	CDR	CDR	12-15-06
EXTERIOR	CDR	CDR	12-15-06

FSU
Zero Emission
House

Florida State University
SESEC

CRC Project Number 06160

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INTERIOR DESIGN
PLANNING

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DESCRIPTION

3
A1.1

$$\frac{1}{\text{Al.I}} \quad \frac{1. \text{Fo}}{1/4'' = 1'-0''}$$

2
Al.1

PHASE	DRAWN BY	REVIEWED BY	DATE
CONCEPT SCHEMATICS			
ADVANCED SCHEMATICS			
DESIGN DEVELOPMENT	CDR	CDR	12/19/06
80% CONSTR. DOCUMENTS			
90% CONSTR. DOCUMENTS			
CONTRACT DOCUMENTS			
REVISION 1			
REVISION 2			
REVISION 3			

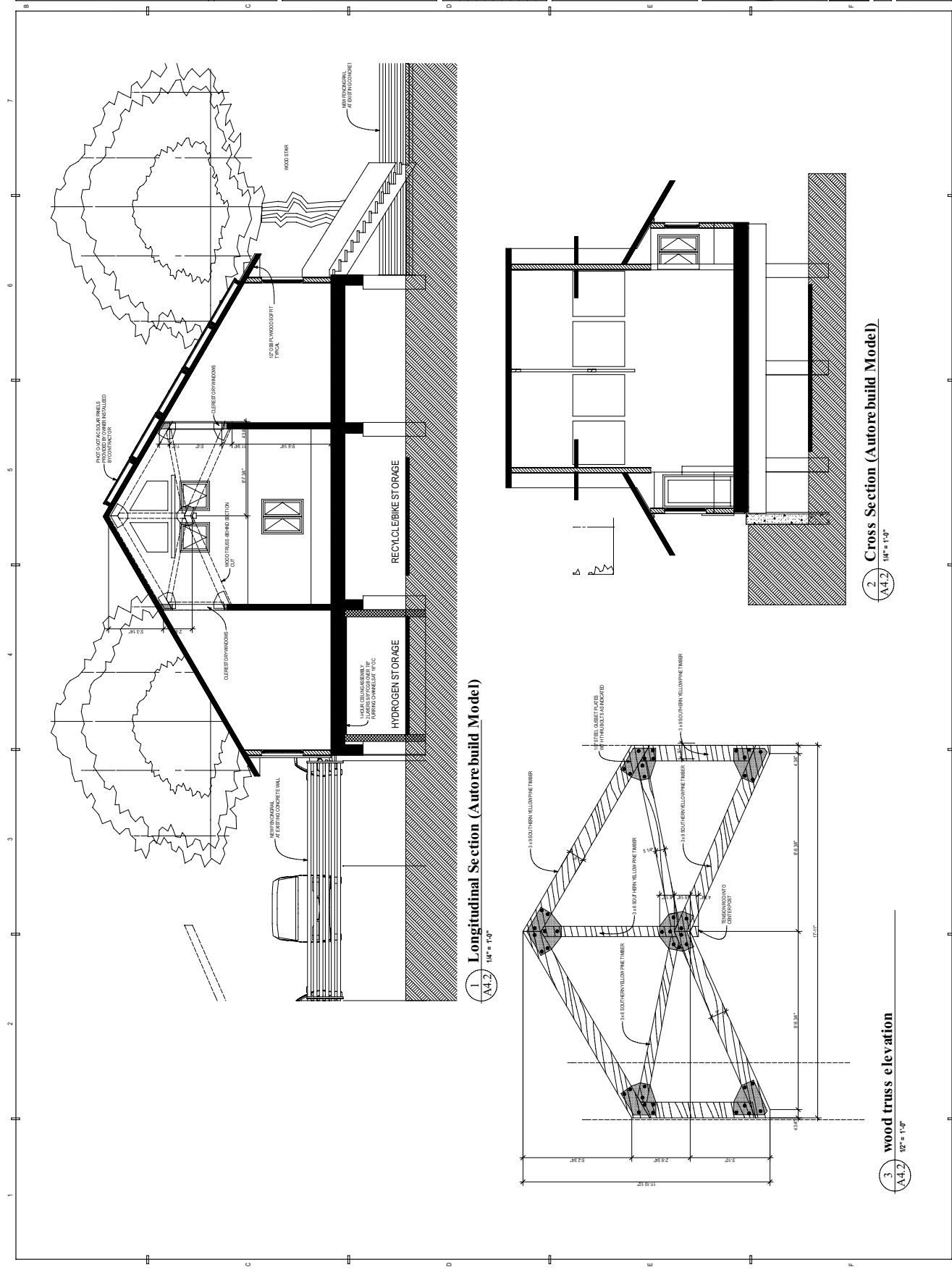
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Floor Plan



PHASE: DESIGN DEVELOPMENT
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CHECKED BY: CDR
DATE: 12-15-06

DESIGNER: CDR
DATE: 12-15-06

REVISIONS:
1. REVISION 1
2. REVISION 2
3. REVISION 3
4. REVISION 4
5. REVISION 5
6. REVISION 6
7. REVISION 7
8. REVISION 8
9. REVISION 9
10. REVISION 10

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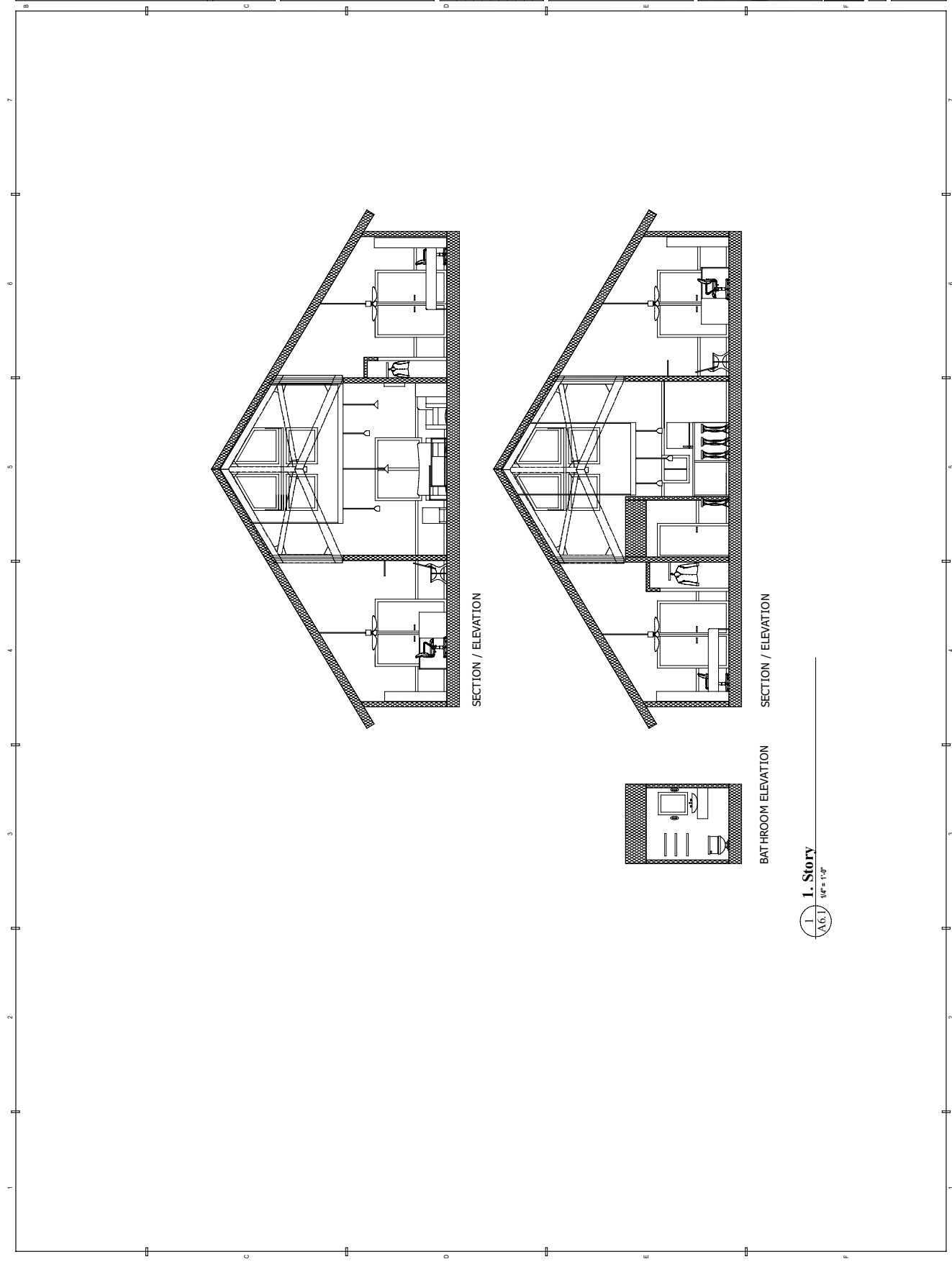
DESCRIPTION
Bldg Sections

A4.2

1 Longitudinal Section (Autorebuild Model)
A4.2 1/4" = 1'-0"

2 Cross Section (Autorebuild Model)
A4.2 1/4" = 1'-0"

3 wood truss elevation
A4.2 1/2" = 1'-0"

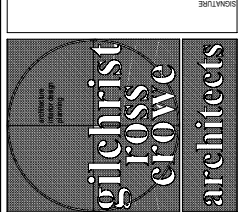


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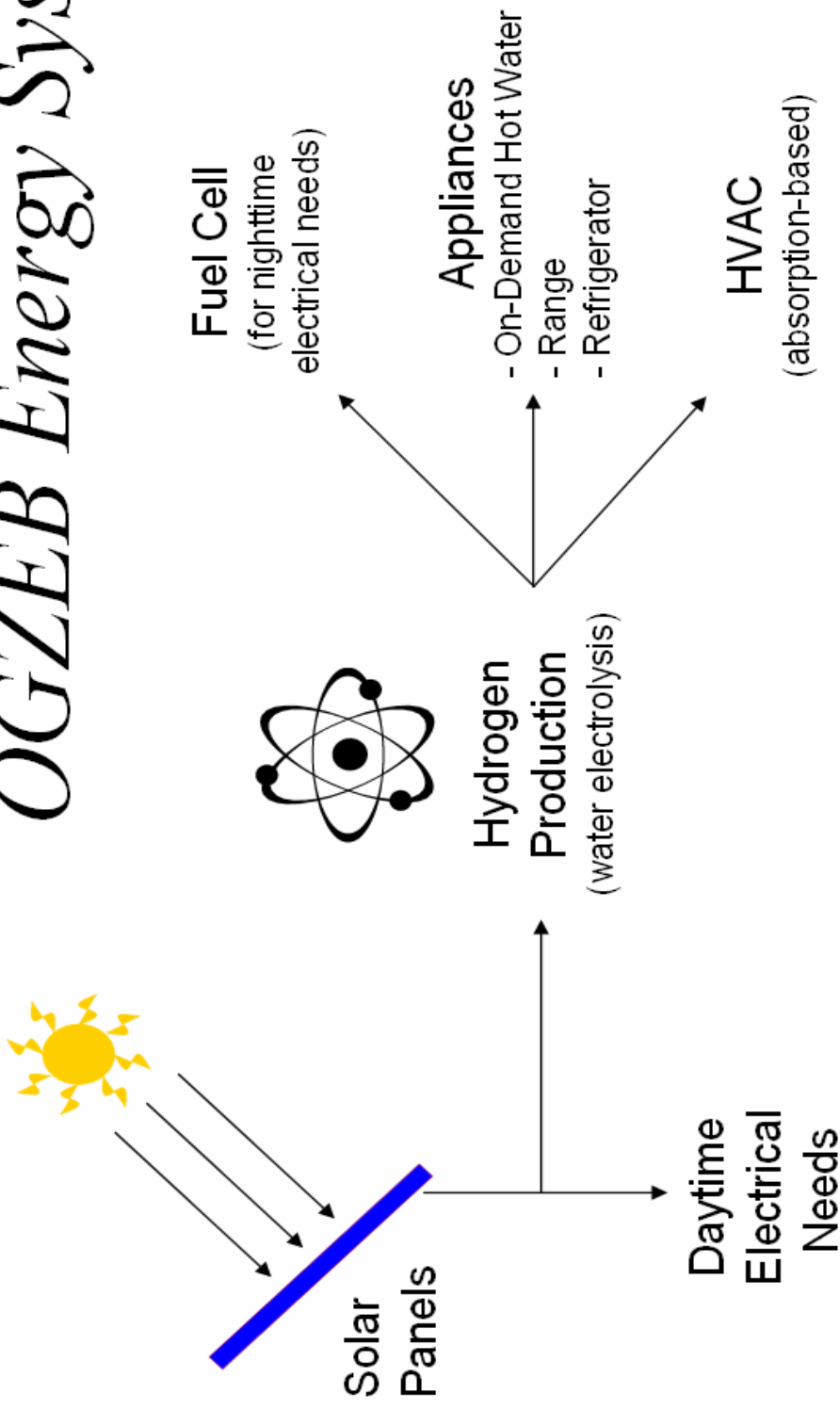
PHASE	DRAWN	REVIEWED	DATE
CONCEPT DESIGN			
PRELIMINARY DESIGN			
DESIGN DEVELOPMENT			
SCHEMATIC DESIGN			
CONCEPT DOCUMENTS			
PRELIMINARY			
DESIGN			
CONSTRUCTION			

FSU
Zero Emission
House
Florida State University
SESEC
GRC Project Number 06160



DESCRIPTION
Interiors
A6.1

OGZEB Energy System



Who is the USGBC?

Core Purpose

The U.S. Green Building Council's core purpose is to transform the way buildings and communities are designed, built and operated, enabling an environmentally and socially responsible, healthy, and prosperous environment that improves the quality of life.

Who is the U.S. Green Building Council?

The U.S. Green Building Council (USGBC) is the nation's foremost coalition of leaders from every sector of the building industry working to promote buildings that are environmentally responsible, profitable and healthy places to live and work. Our more than 6,000 member organizations work together to develop a variety of programs and services, and forge strategic alliances with key industry and research organizations and federal, state and local government agencies. Our collective power is leading the transformation of the building industry and market to sustainability. Council programs are Committee-Based, Member-Driven, and Consensus-Focused. Click on the links below to learn more about:

- The LEED® Green Building Rating System™
- The annual Greenbuild International Conference and Expo
- Educational offerings, including LEED workshops and the LEED Professional Accreditation program
- Tools for federal, state and local government agencies
- Green building research and publications
- Local and regional advocacy and education

What is the LEED Certification?

The LEED (Leadership in Energy and Environmental Design) Green Building Rating System® is a voluntary, consensus-based national standard for developing high-performance, sustainable buildings. USGBC's members, representing every sector of the building industry, developed and continue to refine LEED. LEED standards include:

- LEED-NC: New commercial construction and major renovation projects
- LEED-EB: Existing building operations
- LEED-CI: Commercial interiors projects
- LEED-CS: Core and shell projects
- LEED-H: Homes
- LEED-ND: Neighborhood development
- LEED Application Guides: Retail (currently in pilot), Multiple Buildings/Campuses, Schools, Healthcare, Laboratories, Lodging
- Product Manufacturers and Service Providers: Learn how you can get involved with USGBC and LEED.

LEED was created to:

- define "green building" by establishing a common standard of measurement
- promote integrated, whole-building design practices
- recognize environmental leadership in the building industry
- stimulate green competition
- raise consumer awareness of green building benefits
- transform the building market

LEED provides a complete framework for assessing building performance and meeting sustainability goals. Based on well-founded scientific standards, LEED emphasizes state of the art strategies for sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality. LEED recognizes achievements and promotes expertise in green building through a comprehensive system offering project certification, professional accreditation, training and practical resources. Click below to view the LEED Foundations documents:

- LEED Committee Charters - describes the purpose and scope of each LEED Committee
- LEED Foundations Policy Manual - describes USGBC policy for consensus based development of the LEED family of products
- LEED Product Development Handbook - describes the operating procedures for management and administration of LEED Products

Map of the Nation's Platinum and Gold LEED® Certified Buildings

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We salute all the people involved in making each green building possible.

Map Legend

Platinum LEED® Certified

- 1** Alberici Corporate Headquarters
St. Louis, Missouri
- 2** Artists for Humanity EpiCenter
Boston, Massachusetts
- 3** Audubon Center at Debs Park
Los Angeles, California
- 4** Chicago Center for Green Technology
Department of the Environment
Chicago, Illinois
- 5** CNT Renovation Center
for Neighborhood Technology
Chicago, Illinois
- 6** Donald Bren School of Environmental
Science & Management
Santa Barbara, California
- 7** Genzyme Center
Genzyme Corporation
Cambridge, Massachusetts
- 8** Inland Empire Utilities Agency
Administrative Headquarters
Chino, California
- 9** Interface, Inc. Showroom and Offices
Atlanta, Georgia
- 10** Joe Serna Jr. - Cal/EPA Headquarters
Sacramento, California
- 11** Lake View Terrace Branch Library
Los Angeles Public Library District
Lake View Terrace, California
- 12** Natural Energy Laboratory of Hawaii
Authority Gateway Distributed and
Renewable Energy Center
Kailua-Kona, Hawaii
- 13** NRDC - Santa Monica Office
Santa Monica, California

Gold LEED® Certified

- 14** Philip Merrill Environmental Center
Annapolis, Maryland
- 15** AIA Honolulu
Honolulu, Hawaii
- 16** Arthur M. Blank Foundation Family Office
Atlanta, Georgia
- 17** Brengel Technology Center
Johnson Controls, Inc.
Milwaukee, Wisconsin
- 18** Calvin College Bunker Interpretive Center
Grand Rapids, Michigan
- 19** Cambria Office Building
Commonwealth of Pennsylvania
Department of Environmental Protection
Ebensburg, Pennsylvania
- 20** Cambridge City Hall Annex
Cambridge, Massachusetts
- 21** Camp Aldersgate Commons Building
The Women's Division of the General Board
of Global Ministries of the United
Methodist Church
Little Rock, Arkansas
- 22** Capitol Area East End Complex
Block 225 Office Building
State of California
Sacramento, California 95814
- 23** Carkeek Park Environmental
Learning Center
Department of Parks & Recreation
Seattle, Washington
- 24** Carl T. Curtis Midwest Regional
Headquarters
National Park Service/U.S. Dept.
of the Interior
Omaha, Nebraska
- 25** Chong Partners Architecture S.F. Office
San Francisco, California
- 26** Clean Water Services Administrative Offices
Hillsboro, Oregon
- 27** Clearview Elementary School
Hanover Public School District
Hanover, Pennsylvania
- 28** Colorado Court
Community Corporation of Santa Monica
Santa Monica, California
- 29** Conservation Consultants Inc. Center
Pittsburgh, Pennsylvania
- 30** CORO Center for Civic Leadership
Pittsburgh, Pennsylvania
- 31** David L. Lawrence Convention Center
Pittsburgh, Pennsylvania
- 32** Denver Place N/S Towers
Denver, Colorado
- 33** DEP California Office Building
State of Pennsylvania
Harrisburg, Pennsylvania
- 34** DEP Southeast Regional Office Building
State of Pennsylvania
Norristown, Pennsylvania
- 35** DPR Construction, Inc. Office Building
Sacramento, California
- 36** EPA Science and Technology Center
Kansas City, Kansas
- 37** Far Southeast Austin EMS Station # 28
Austin, Texas
- 38** Ford Rouge Visitor Center
Dearborn, Michigan
- 39** French Wing Addition to Conservation
Center
Society for the Protection of NH Forests
Concord, New Hampshire
- 40** Frito-Lay Jim Rich Service Center
Henrietta, New York
- 41** The Getty Center
Los Angeles, California
- 42** Goizueta Business School
Emory University
Atlanta, Georgia
- 43** Happy Feet Plus, Inc.
Clearwater, Florida
- 44** Hayward Building Systems Plant
Santa Maria, California
- 45** Haworth Chicago Showroom
Chicago, Illinois
- 46** Hensley Field Operations Center
Dallas, Texas
- 47** Herman Miller C1 Main Site
Zeeland, Michigan
- 48** Herman Miller MarketPlace
Zeeland, Michigan
- 49** Herman Miller National Design Center
Washington, DC
- 50** Herman N. Hipp Hall - Furman University
Greenville, South Carolina
- 51** Hillsdale Library
Portland, Oregon
- 52** Howard Hall, Lewis & Clark College
Portland, Oregon
- 53** Institute of EcoTourism
Sedona, Arizona
- 54** IslandWood: A School in the Woods
Bainbridge Island, Washington
- 55** J. Richard Carnall Center
PFPC Worldwide Headquarters
Wilmington, Delaware
- 56** Jean Vollum Natural Capital Center
Portland, Oregon

Map Legend Continued

- 57** Johnson Diversy Global Headquarters
Sturtevant, Wisconsin
- 58** Karges-Faulconbridge Office Building
St. Paul, Minnesota
- 59** King Street Center
Seattle, Washington
- 60** Len Foote Hike Inn
Georgia Department of Natural Resources
Dawsonville, Georgia
- 61** Lubin Manufacturing Facility - Knoll Inc.
East Greenville, Pennsylvania
- 62** McGowan Institute for Regenerative
Medicine
University of Pittsburgh
Pittsburgh, Pennsylvania
- 63** Michigan Alternative and Renewable
Energy Center
Muskegon, Michigan
- 64** Moss Landing Marine Labs - CSU
Moss Landing, California
- 65** Natural Resources Defense Council,
S.F. Office
San Francisco, California
- 66** Navy's Energy & Sustainable
Demonstration Facility
Port Hueneme, California
- 67** Navy Federal Credit Union
Remote Call Center
Pensacola, Florida
- 68** Nike, Inc. Ken Griffey Jr. Building
Beaverton, Oregon
- 69** Noddle Development Company
Omaha, Nebraska
- 70** North Sarasota Library
Sarasota, Florida
- 71** Nusta Spa
Washington, DC
- 72** PA DEP Bureau of Laboratories
Harrisburg, Pennsylvania
- 73** PA DEP Moshannon District Office
Philipsburg, Pennsylvania
- 74** Park 90/5 Building C
Seattle, Washington
- 75** Pharmacia Q Building Lab
Skokie, Illinois
- 76** Pennsylvania Housing Finance Agency
Harrisburg, Pennsylvania
- 77** Plaza at PPL Center
Allentown, Pennsylvania
- 78** Pleasanton Fire Station 4 Livermore
Pleasanton Fire Department
Pleasanton, California
- 79** Recreational Equipment, Inc. (REI)
Portland, Oregon
- 80** Regional Training & Distribution Center
American Honda
Gresham, Oregon
- 81** Rinker Hall - University of Florida
Gainesville, Florida
- 82** Schlitz Audubon Nature Center
Milwaukee, Wisconsin
- 83** Seattle Terminal Radar Approach Control
Federal Aviation Administration
Burien, Washington
- 84** South Campus Office Development
Toyota Motor Sales
Torrance, California
- 85** S. T. Dana Building Renovation
The University of Michigan
Ann Arbor, Michigan

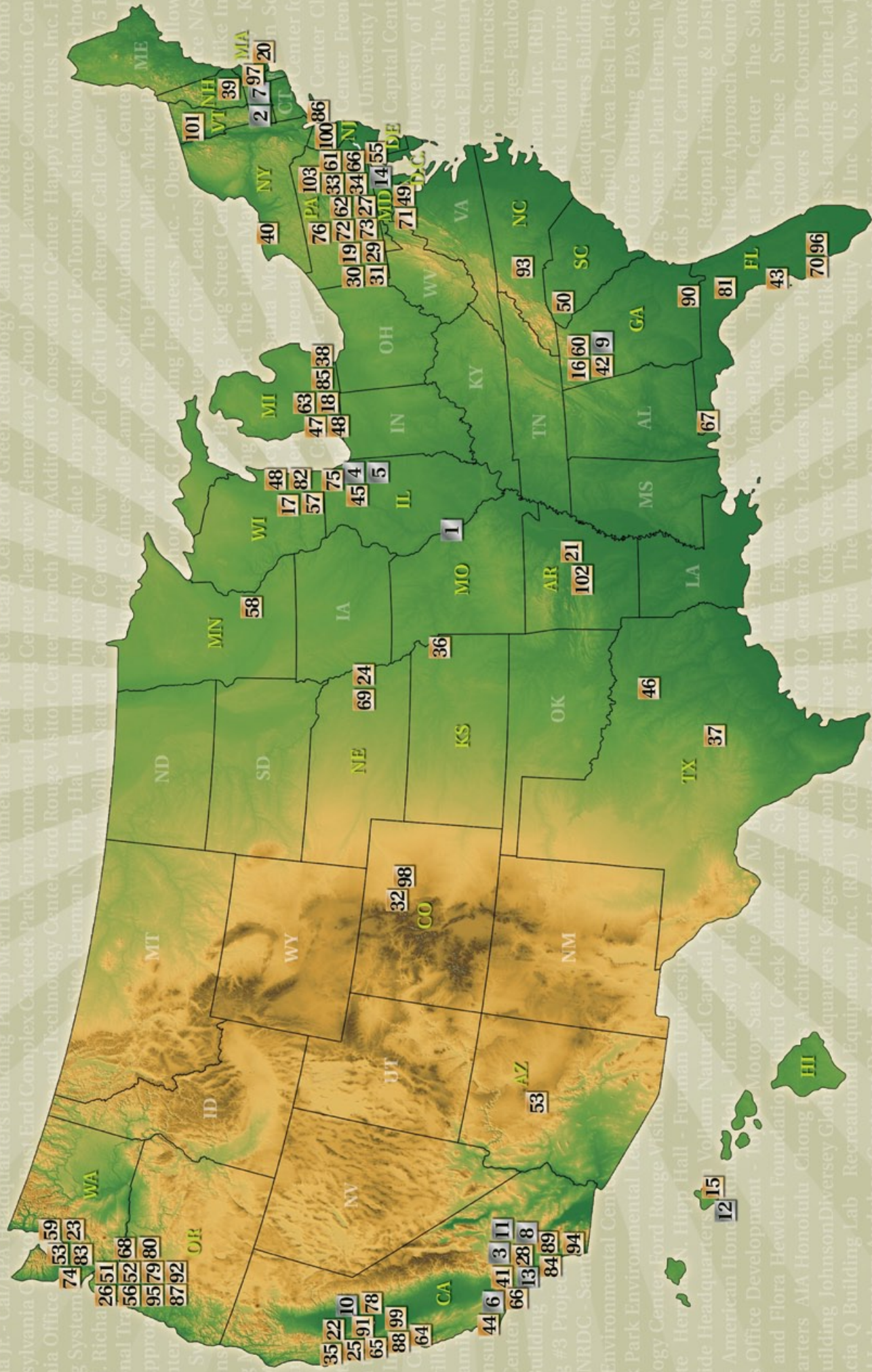
- 86** Solaire
New York, New York
- 87** State of Oregon North Mall Office Building
Salem, Oregon
- 88** SUGEN Building #3 Project
South San Francisco, California
- 89** Sun Valley Branch of the Los Angeles
Public Library
Los Angeles, California
- 90** Suwannee River Visitor Center
Georgia Department of Natural Resources
Fargo, Georgia
- 91** Swinerton Inc. Headquarters
San Francisco, California
- 92** The Henry (at The Brewery Blocks)
Portland, Oregon
- 93** Third Creek Elementary School
Statesville, North Carolina
- 94** TKG Consulting Engineers, Inc.
Oberlin Office
San Diego, California
- 95** Toyota Portland Vehicle
Distribution Center
Portland, Oregon
- 96** Twin Lakes Park Office Complex
Sarasota County Government
Sarasota, Florida
- 97** U.S. EPA, New England Regional
Laboratory
North Chelmsford, Massachusetts
- 98** University of Denver College of Law
Denver, Colorado
- 99** William and Flora Hewlett Foundation
Menlo Park, California
- 100** Willow School Phase I
Gladstone, New Jersey

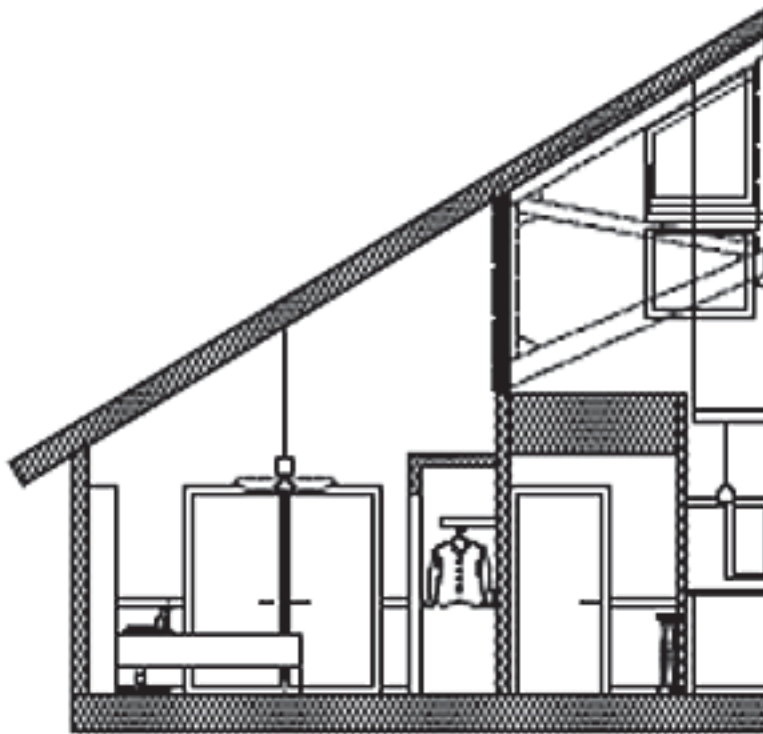
- 101** Wind NRG Partners, LLC.
Hinesburg, Vermont
- 102** Winrock International Headquarters
Little Rock, Arkansas
- 103** WRT - Philadelphia Office
Wallace Roberts & Todd, LLC
Philadelphia, Pennsylvania

Map of the Nation's Platinum and Gold LEED® Certified Buildings

(For a current list of all LEED® Certified Buildings: Platinum, Gold, Silver, and Certified, go to www.usgbc.org)

Current as of 04/11/06





Supporting the Sustainable Design Project

How to make a donation:

Make Checks Payable to:
Florida State University Foundation
For: Sustainable Design Project

Mail To: John Gehrm
FSU Foundation
2010 Levy Avenue
Building B, Suite 300
Tallahassee, FL 32306-2739

Phone: 850-410-6600
Email: jgehrm@foundation.fsu.edu

Benefits of Donation:

- Tax Write-off / Deduction
- Exposure in Press Release
- Credit at the Site of the House
- Membership in the "Friends of Sustainable Design"
- Exposure on the Website
- Invitation to Special Events