

LaQuinta Inn & Suites

2839 New Brunswick Road ♦ LaQuinta Cordova No. 6314 ♦ MEMPHIS, TENNESSEE , 38133

NARRATIVE

Ownership Group (Local) and LaQuinta, Parent Company are strongly committed to Sustainable Development, Earth Friendly Design, Construction, and Operation of all their Hotels, insisting they meet or exceed Energy Star™ Design Parameters.

The Ownership Group liked the Energy Star™ Concept of ongoing, year by year re-evolution and annual award based on actual utility consumption, and its focus on results rather than subjective elements. Actually our entire Design & Ownership Team embraced it from the start, "We were GREEN when it was just a COLOR", and It's contagious, even the General Contractor is excited about it now. We consistently use similar Systems and Design Elements in all our Designs in one way or another.

In addition, Ben Baggett, Project Architect, has had a lifelong commitment to the Green movement; his father was building using recycled materials in the early 1960's, and to this day, as his colleagues and associates can attest, he cannot throw anything away, and can find a creative use for just about anything. Ben was designing Earth Shelters, Passive Solar, Active Solar, and Energy Efficient Structures from the onset of his Architectural Career in the early 1980's.

Our effective design elements include; High-Efficiency HVAC, Software based SMART Integrated Lighting & Controls, High R-Value Insulation, Roof = R-30 and Walls = R-45, Solar Reflective High Efficiency Glass and Glazing Systems, Use of highly reflective colors (white roof), Solar Panels for Energy production and Solar water heating and excellent siting of the building, Airtight Construction and High R-Value utilizing Polysteel™ ICF Insulated Structural Wall System, make our project extremely energy efficient.

POLYSTEEL™ AND ENERGY STAR™

In 1992 the Federal Environmental Protection Agency (EPA) and the Department of Energy (DOE) began forging partnerships with manufacturers, retailers, utilities, businesses, and institutions to promote the labeling of energy-efficient technologies. American PolySteel™ was proud to be the first ICF Insulation Partner in the program as the manufacturer of a super energy-efficient insulation product. PolySteel™ Forms are labeled with the ENERGY STAR™ logo, along with our own. Polysteel™ has long recognized the environmental benefits of building energy-efficient buildings, and is proud to label our forms with this federal recognition.

KEY DESIGN CHARACTERISTICS

Sustainable Design Elements include; Ideal Siting of the building to facilitate the use of Active Solar Panels on the Roof. Energy Generating Windmill located on the Tower 60' above ground level. Excellent envelope, well insulated roof (R-30) and walls (R-45). High Quality Solar Reflective Low-E glass and windows, South facing with excellent use of daylighting. Lights, TV, etc., are tied into occupancy sensors, and also into Key Software at Front Desk. Systems will only run when they must. Generating their own Solar Power. Pre-heating Domestic Water with Solar Panels. High-efficiency R410-A refrigerant in PTAC (In room) HVAC Units. High Reflectivity Materials, (White Roof). Minimized Site Lighting. Designated Hybrid Car Parking with Charging Stations, and Car and Van Pool Parking. Site is prepared for Future Water Reclamation Systems with Roof Drainage System hard piped with only the Storage system remaining.

Energy cost per sq.ft.:	Modeled to be \$ 1.62 sq.ft. annually.
Building / Space Type:	Hotel
Total Building Area:	44,643 sq.ft.

STATEMENT OF ENERGY DESIGN INTENT DESIGN METRICS

- * Energy Use Intensity (EUI) = 80 kBtu/sf/yr
- * Percent CO₂ reduction = 77%
- * ENERGY STAR design rating = 95

Annual Savings Statistics (compared to an average building EPA rating of 50)

- * Energy savings = 8,600,000 kBtu
- * CO₂ savings = 311 Metric Tons CO₂

BEN BAGGETT
ARCHITECT
8312 CHIMNEYROCK BLVD.
CORDOVA, TN 38016-5152
TELEPHONE: 901.484.2541
FACSIMILE: 901.217.4697
EMAIL: bba@bellsouth.net
www.benbaggettarchitect.com



**NOTE: THIS MOUNTING BOARD
IS CONSTRUCTED ENTIRELY
FROM 100%
RECLAIMED OR
RECYCLED MATERIAL.**



LaQuinta Inn & Suites Rendering - Southeast View



LaQuinta Inn & Suites Rendering - South View



Solar Panel Frames on Roof
Construction Photograph

3D Modeling by:
Ryan Baggett &
Ben Baggett, AIA



Solar Panel Frames on Roof
Construction Photograph



Southeast View
Construction Photograph



South View
Construction Photograph

DESIGNED
TO EARN THE
ENERGY STAR

The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.