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## Ogrydziak "B at Third" Mixed-Use Proposal

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GreenBuilt is a green building general contractor and consulting company located in Sacramento. Since 2003 the firm has focused on residential green construction and expanded in 2007 to offer LEED and GreenPoint Rated consulting and documentation services for both residential and commercial projects.

Greenbuilt was retained by architect, Maria Ogrydziak to consult on how to build the most energy efficient, healthy, durable project possible as well as provide an initial scoring in Build It Green's Green Point Rated Single Family rating system. According to the drawings dated July 7, 2008 and conversations about the project, we have estimated the project to have the potential of earning 321 points out of 376! This score reflects an extremely serious commitment to green building compared to the latest figures from Build It Green:

### "B at Third" Proposal

321

### Current New Home Project Statistics - Single Family

Average score for projects--> 105

Median score for projects--> 89

Current high score--> 304

Unique aspects of the project which address the City of Davis Design Guidelines as well as contribute to the exemplary level of points include:

- contributes to Davis's needs for accommodating growth by increasing the housing density on the lot
- provides a live-work structure that continues the existing mix of uses within the neighborhood
- salvages the existing old home on the lot through relocation to another location in Davis
- in a fun twist on the progression of public to private, this unit contains a 15' x 17' "front porch" on the 2<sup>nd</sup> story of the building which has the bonus of affording a 15' "front yard" planted with California native and other drought tolerant plants
- introduces a unique and forward-thinking building material alternative - the Tridi System consisting of a polystyrene core sandwiched between steel mesh onto which concrete is applied on both sides
  - wood-free
  - correctly uses the principle of Thermal Mass to moderate indoor temperature
  - extremely strong
  - sound-resistant
  - highly insulated
  - fire-resistant
  - polystyrene core can be specified to 95% recycled Styrofoam
- contributes a green living roof consisting of vegetation and soil to the community which offers a number of advantages including:
  - moderating the temperature in the spaces below
  - creating a habitat for birds, insects, microorganisms, etc.
  - protecting the roof membrane from UV-degradation
  - creating an attractive roof
  - reducing storm water runoff
  - filter fine particulate out of rain water
  - slowly release moisture to the surrounding air
  - reduces the heat island effect (heating by the sun of urban structures thus heating the surrounding area)