**LEED for Homes Project Snapshot**

**Trowbridge Homes**  
**Duvernoy Residence**  
**Ann Arbor, Michigan**  
**LEED SILVER**

### Expected Energy Savings
33% Based on HERS Score

### Expected Water Savings
41% Based on WE Credit Score

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**STRATEGIES AND RESULTS**

This home dramatically reduces its HVAC energy requirements by using airtight building principles. This home utilized geothermal forced air cooling and geothermal hydronic heating to further reduce HVAC consumption.

- Whole house HEPA filtration system
- Heat Recovery Ventilation System
- Energy Star Lighting and Appliances
- Advanced Building Envelope Techniques
- Sustainable Building Materials

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**EXEMPLARY PERFORMANCE**

“We achieved exemplary performance in landscape design by greatly reducing irrigation needs. We used all drought tolerant species and grasses and installed a rainwater harvesting system.”

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**PROJECT BASICS**

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Single Family</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditioned Space</td>
<td>5018 sq ft</td>
</tr>
<tr>
<td>Bedrooms</td>
<td>5</td>
</tr>
<tr>
<td>Bathrooms</td>
<td>5</td>
</tr>
<tr>
<td>Lot Type</td>
<td>Edge</td>
</tr>
<tr>
<td>Construction Type</td>
<td>New Construction</td>
</tr>
</tbody>
</table>

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**KEYS TO SUCCESS**

- HVAC Type: Geo-Thermal
- Window U Value: .30
- Air Filtration: HRV/HEPA
- Lighting: Energy Star

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**THE LEED FOR HOMES DIFFERENCE**

- Construction Waste Management Plan
- On-Site Performance Tests
- Custom Durability Planning Checklist
- Third-Party Verified Documentation

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**About the Project Team**

David Eifrid of Greenlife Building LLC, acted as LEED AP and Team Captain on this project. Alexandar V Bogaerts and Associates, P.C were the Architects, Dave Moran of Michigan Heat LLC was the Green Rater. Steve Pozzi was the superintendent with Trowbridge Homes. Michigan Energy services were the HVAC installers and David Czesewski assisted with the submittals.

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**LEED for Homes Provider**

AES

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**About LEED for Homes**

LEED for Homes is a voluntary, third-party certification program developed by residential experts and experienced builders. LEED promotes the design and construction of high-performance green homes, and encourages the adoption of sustainable practices throughout the building industry.

www.usgbc.org/homes

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**LEED™ Facts**

**Duvernoy Residence**

<table>
<thead>
<tr>
<th>LEED for Homes Certification Awarded</th>
<th>Feb 2011</th>
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</thead>
<tbody>
<tr>
<td>LEED Silver</td>
<td>69.5%</td>
</tr>
<tr>
<td>Innovation in Design</td>
<td>2/11</td>
</tr>
<tr>
<td>Location &amp; Linkages</td>
<td>7/10</td>
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<tr>
<td>Sustainable Sites</td>
<td>14/22</td>
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<tr>
<td>Water Efficiency</td>
<td>6/15</td>
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<tr>
<td>Energy &amp; Atmosphere</td>
<td>17.5/38</td>
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<tr>
<td>Materials &amp; Resources</td>
<td>11/16</td>
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<tr>
<td>Indoor Environmental Quality</td>
<td>14/21</td>
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<tr>
<td>Awareness &amp; Education</td>
<td>2/3</td>
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</tbody>
</table>

*Out of 136 possible points*