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GREEN BUILDING PRACTICES

Update: 9/14/21

Goals and Purpose:

IHT is committed to using best green building practices to decrease maintenance and energy costs in order to ensure ongoing (monthly) affordability for our tenants, as well as in construction. Developing durable, thoughtful and efficient buildings is critical to our mission, our resident's needs, and making progress towards a sustainable Martha's Vineyard.

Standard Practices We Employ

Site Design & Landscaping

- Use cluster development strategies to minimize area of impact on the land.
- Preserve prime conservation (and agricultural) land in partnership with conservation organizations where possible;
- Create shared systems (wells, septic, etc.) and functions (common land, driveways, etc.);
 - Utilize state-of-the-art denitrification septic systems requiring minimal maintenance, electric usage, and no chemical additives (currently: NitROE technology);
- Design pedestrian friendly neighborhoods that limit vehicular traffic, paving, and maximize permeable surfaces;
 Provide resident-access EV charging stations at +/- 10% of parking slots.
- Focus on properties that are accessible by public transportation whenever possible.
- Model our designs on local vernacular and neighborhood scale.
- Provide enough clear south facing roof to accommodate solar collection;
- Site houses utilizing terrain features to increase ease of physical access (see Universal Design);
- Protect existing trees, plants, and landscaping features on site from construction damage;
- Minimize grass lawns and use local drought resistant plant species well adapted to the climate;
- Avoid use of fertilizer, pesticides and chemicals that may leach into groundwater;

Building Construction

- Use of Passive House "aligned" construction methods for airtight construction efficiencies;
- Meet or exceed Energy Star II for Homes Standards with third party testing that achieves a Home Energy Rating System (HERS) Index of 40 or better, including:
 - Highest quality insulation (cellulose or Demilac foam) with third party inspection to Grade #1 insulation;
 - Airtight construction, air leakage test lesser of 0.125 ACH or 1 sq inch per 100 sf building shell area;
 - High performance triple-glazed casement windows @ U-0.20 or better ratings;
 - Insulated exterior doors @ R-2.8 or better ratings;
 - Ducted ERV's with booster controller in bathrooms @ minimum 34 CFM per unit;
 - High efficiency Air Source Heat Pumps for both HVAC and Hot Water;
 - Energy Star certified appliances, with all light fixtures to be LED.
 - Use high efficiency water conservation fixtures (toilets, showers, faucets);
- No fossil fuels;

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- Incorporate sun-tempering techniques (+/-10% south glass to floor area);
- Efficient use of square footage and volume of our apartments (i.e. 1-BR units @ 550-650 sf, 2-BR units @ 750-850 sf, and 3BR units @ 950-1,100 sf);
- Design good daylight and cross ventilation throughout for natural summer cooling (i.e. windows on two sides of every room whenever possible);
- Incorporate Universal Design practices ("visitability") on all first floor units;
- Use zero-maintenance exterior materials that are durable and require no paint and/or finishes;
- Avoid toxic construction materials (i.e. high VOC paints, glues, particle board, etc.);
- Incorporate materials with high recycled content, FSC certification, and/or locally sourced;
- Design and construction for moisture, mold, and mildew prevention;
- During construction, install all conduit needed for future rooftop solar panels and future radon mitigation (if it becomes needed);
- Actively recycle as much construction and demolition waste as possible.
- Supply building manuals with information on green building practices used, subcontractors, roughing photos of all walls before insulation, maintenance manuals, and warranties.