

Minnesota Technology Challenge 2010

ARCHITECTURAL DIVISION

Entry Level #1 – Habitat for Humanity Home

Design a single family dwelling that meets *Habitat for Humanity's* specified criteria for "simple and decent housing."

House Specifications

- Living Space: 900 sq. ft. for a two bedroom; 1050 sq. ft. for a three bedroom; 1150 sq. ft. for a four bedroom. **Living Space** – Any enclosed area with a roof overhead. Garages and unfinished areas are excluded.
- Bathrooms: The basic house should only have one bathroom; this may be compartmentalized to increase usefulness. (An additional ½ bath may be added, but would be an added cost to the family)
- Parking Storage: Homes should have no garages or carports. Hard surface parking pads (12' x 20' min) are standard. Sidewalks should be provided from street or driveway to front entry and /or from the rear entry to the parking area.

Design Details:

- Each house should have a covered primary entrance.
- At least one entrance to the home should be accessible to persons who have difficulty with mobility.
- Entry doors should have limited glass for security purposes.
- All passage doors, including the bathroom door, should be 2'-8" min width, and hallways should be 3'-4" min width.
- Exterior siding should be maintenance free.
- Landscaping shall consist of sod or seed grass over the entire lot. Additional trees, shrubs, or flowers are not provided as standard items.

You should complete a floor plan, foundation plan, elevations, and plot plan, appropriate sections and detail drawings plus any other graphics that you feel would be appropriate for your presentation.

Entry level presentations will be limited to **2 easels and desk top space of 32" x 60"**. The easels and tables will be provided by Hennepin Technical College. All other presentation equipment will be the responsibility of the presenting team.

Entry Level #2 – Open Division

You should complete a floor plan, foundation plan, elevations, plot plan, appropriate sections and detail drawings plus any other graphics that you feel would be appropriate for your presentation.

Entry level presentations will be limited to **2 easels and desk top space of 32" x 60"**. The easels and tables will be provided by Hennepin Technical College. All other presentation equipment will be the responsibility of the presenting team.

Entry Level #3 – Middle Income Housing

A local architect and construction contractor are developing plans for middle income homes. Clients in this development typically desire homes with a minimum of 2,000 finished square feet. To keep homes priced within the range considered affordable by this group, finished floor space must be limited to less than 3,000 square feet.

Design Details:

- combination floor plan
- foundation plan
- exterior elevations
- site plan
- appropriate sections, interior elevations and construction details
- other graphics that you feel would be appropriate may be included.