**Reviewer Instructions**

Please use this document’s Review Form to provide feedback for the FEMA Standard Floorplan Design project. You may access the referenced design documents by visiting the project website: <http://www.research-alliance.org/pages/fema_mhu.htm>. Navigate to “**Design Details**” and “**Design Specifications**” under the “Designs and Specifications” heading.

Please submit your review form using the instructions at the bottom of the page.

Conference calls will be held by topic, on the date shown on the schedule, with call-in details as shown on the [project website](http://www.research-alliance.org/pages/fema_mhu.htm).

As you review, keep in mind the following project goals.

This project aims to develop standardized floor plans and utility connection layouts for four basic Manufactured Housing Unit types that:

* Promote a consistent basis for comparing bids by reducing the variability of proposals to FEMA, creating a level playing field
* Are robust enough to withstand storage, transportation, and diverse occupant use, and to consistently meet expectations
* Comply with appropriate codes and standards
* Simplify construction and delivery with the aim of expediting disaster response by providing a predictable product and eliminating the need for special approvals
* Promote easy production, installation, operation, maintenance, and decommissioning
* Allow room for innovation, as standard designs can be adapted together as a set
* Include design variants viable in all U.S. climates and locations ('CONUS' design)
* Include accessible (UFAS) variants on the designs
* Incorporate a broad base of MHU supply (utilizing widely available materials)
* Allow FEMA to maintain a smaller MHU inventory with more homogenous, universally deployable units

Thank you for taking the time to review. We appreciate your expert feedback and suggestions.

Sincerely,

The Levy Partnership team

**Review Form 1**

**1 - Construction (walls, roof, floors, finishes, materials) & Doors and Windows**

Reviewer name: Title: Company:

Date: Phone: Email:

|  |  |  |
| --- | --- | --- |
| Drawing / Specification Section | Sample questions (TBD) | Comments |
| Construction Doc. 3-1a |  |  |
| Construction Doc. 3-1b |  |  |
| Construction Doc. 3-2 |  |  |
| Construction Doc. 3-3 | * What is your reaction to the transponder location? Is it properly accessible? Easy to install?
 |  |
| Construction Doc. 3-4 |  |  |
| Construction Doc. 3-5 |  |  |
| Construction Doc. 3-6 |  |  |
| Construction Doc. 3-7 |  |  |
| Construction Doc. 3-8 |  |  |
| Construction Doc. 3-9 |  |  |
| Construction Doc. 3-10 |  |  |
| Construction Doc. 3-11 |  |  |
| Construction Doc. 3-12 |  |  |
| Construction Doc. 3-13 |  |  |
| Construction Doc. 3-14 |  |  |
| Construction Doc. 3-15 | * Are plants capable of constructing a ridge vent for attic ventilation, or are mushroom vents required?
 |  |
| Construction Doc. 3-20 | * What details should be included for the chassis system?
 |  |
| Construction Doc. 3-21 |  |  |
| Construction Doc. 3-22 | * Should the entire height of the shower wall be tiled to prevent moisture issues, or is this an unnecessary cost?
 |  |
| Construction Doc. 3-23 |  |  |
| Construction Doc. 3-24 |  |  |
| Construction Doc. 3-25 |  |  |
| Construction Doc. E-1a |  |  |
| Construction Doc. E-1b |  |  |
| Construction Doc. E-2 |  |  |
| Construction Doc. E-3 | * What is your reaction to the transponder location? Is it properly accessible? Easy to install?
 |  |
| Construction Doc. E-4 |  |  |
| Construction Doc. E-5 |  |  |
| Construction Doc. E-6 |  |  |
| Construction Doc. E-7 |  |  |
| Construction Doc. E-8 |  |  |
| Construction Doc. E-9 |  |  |
| Construction Doc. E-10 |  |  |
| Construction Doc. E-11 |  |  |
| Construction Doc. E-12 |  |  |
| Construction Doc. E-13 |  |  |
| Construction Doc. E-14 |  |  |
| Construction Doc. E-15 | * Are plants capable of constructing a ridge vent for attic ventilation, or are mushroom vents required?
* What roof intake venting strategy/products would you suggest for roofs without overhangs (Express unit)? Is the SmartVent type of roof-intake vent a possibility?
* Would a 4/12 roof slope be possible, or is 3/12 preferable?
 |  |
| Construction Doc. E-20 | * What details should be included for the chassis system?
* For Express chassis design, should the spacer be tubing or flat-bar?
 |  |
| Construction Doc. E-21 |  |  |
| Construction Doc. E-22 |  |  |
| Construction Doc. E-23 |  |  |
| Construction Doc. E-24 |  |  |
| Construction Doc. E-25 | * Is it helpful to provide specific transportation lighting locations? Should any of the lighting or reflector locations be changed?
 |  |
| Construction Doc. 26 | * Do these methods differ from your standard installation details? How so? What might be strengths or drawbacks of each method?
 |  |
| Construction Doc. 27 | * How should the UFAS door-threshold requirements be met? Are ½” beveled thresholds common? Is the diagrammed method for bulk-water mitigation viable? Should a higher threshold be used with a ramp instead of max. ½” threshold to meet UFAS requirements?
 |  |
| Construction Doc. 28 | * Do these methods differ from your standard installation details? How so? What might be strengths or drawbacks of each method?
 |  |
| Construction Doc. 29 | * Do you feel this installation detail adequately mitigates bulk-water intrusion?
 |  |
| Specifications Sec. 1 | * What measures are taken to meet CA Wildlands requirements, if this code is familiar to you? Is vinyl siding ever an option when adhering to CA Wildlands?
 |  |
| Specifications Sec. 2A | * What specifications would you include for roof shingles?
* What would you suggest as specifications for siding? Horizontal or vertical? Size? Color?
* Will the specified doors and windows be readily available?
 |  |
| Specifications Sec. 2B | * What type of gypsum board would you suggest using for this application, knowing that the FEMA units are stored in hot, humid climates? Is a moisture-resistant gypsum board necessary, or will any gypsum board do?
* Water-proofing bathroom floors—are drains standard?
 |  |
| Specifications Sec. 3A |  |  |
| Specifications Sec. 3B |  |  |
| Specifications Sec. 3C |  |  |
| Specifications Sec. 3D |  |  |