<u>IPRO 339</u> Project Team

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IPRO 339 Project Focus

Transition

Sustainability

Safety

**Opportunity** 

Neighborhood

Integrity

Inspiration

Innovation

Humanity

**Function** 

Durability

Culture

Community

Affordability

*Flexibility* 

IPRO 339. Developing Ultra-Low-Cost Sustainable Village for Working Poor in North Mexico from Recycled Shipping Containers

## **Overarching Principle:**

"Improve the standard of living of factory workers in Ciudad Juárez by providing safe, affordable and desirable housing."

#### Law:

Canon: We will allow enough time to adequately research local laws.

*Pressure*: To complete the project within time constraints

Risk: To not become familiar with local laws regarding housing developments

Risk: To not obtain all legally required documents and permits

Measure: Compliance with this canon will be determined by the absence of legal actions

taken against participating companies for violating local laws and regulations.

### **Contracts:**

*Canon*: We will adequately allot funds so that we are not pressured to break contracts to save costs.

*Pressure*: Keep costs as low as possible in order to be more attractive to potential clients.

*Pressure*: Pressure to remain on budget with fluctuating prices of materials.

Risk: Cut our soft costs—labor and design costs—reneging on portions of contracts.

Measure: Compliance with this canon will be determined by staying within our budget and

positive working relationships with all involved parties.

## **Professional Codes:**

*Canon*: We will ensure the safety and well being of the occupants by following all professional building codes.

*Pressure*: Try to fit as many people and amenities into one living unit as possible.

Pressure: Try to have an ultra high density site plan and unit configuration.

Risk: Compromise building codes and user safety by not providing minimum egress,

clearance or circulation.

Measure: Compliance with this canon will be determined by an inspection of the completed

development by an independent party.

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# **Industry Standards:**

*Canon*: We will provide comfortable living spaces that protect the inhabitants from the harsh environment.

*Pressure*: Try to lower hard costs of the unit.

*Pressure*: Try to maximize the amount of interior space available for design within the 8' wide units. *Risk*: Not take the location and climate of the site into account and not provide adequate insulation and climate control mechanisms.

*Measure*: Compliance with this canon will be determined by team members ensuring adequate R values for insulation as well as taking into account sun angles, wind rose diagrams and local climate.

# **Community:**

Canon: We will strive to create a sense of pride and ownership for residents of the community.

Pressure: To create a dense community of stripped-down units in order to bring the cost per unit down.

Risk: To create narrow, dark public spaces that would promote unsafe or illicit activity.

Risk: Create harsh industrial looking structures that are too impersonal.

*Measure*: Compliance with this canon will be indicated by lower employment turnover rates and reduction in crime.

### **Personal Relationships:**

*Canon:* We will maintain respectful and selfless relationships with team members, sponsors and clients in order to deliver the best possible product.

Pressure: To want one's own project ideas to ultimately be used over another member's idea.

Risk: To not offer full support to someone else's idea.

*Risk:* To have a prideful and competitive attitude to the detriment of the final product.

*Measure:* Compliance with this canon will be determined by whole-heartedly supporting the design choices chosen by the consensus of the group.

# **Moral/Spiritual Values:**

Canon: We will strive to provide dignity and choice to residents of the community.

*Pressure:* To cut costs by not providing sufficient amenities to each living space.

*Risk:* By assuming that the clients' are satisfied with their current lifestyles, we will not give them the option of modern living conveniences.

*Risk:* Only allowing for one type of living unit which doesn't take into account for different housing needs or desires.

*Measure:* Compliance of this canon will be determined by design groups providing multiple unit options each having standard amenities.