SUSTAINABLE DESIGN FEATURES



DI2.

DI3.

DI4.

DI5.

DI6.

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EQ1.	Integrated into San Francisco's evolving Mission Bay neighborhood, HomeRise creates a healthy, sustainable, supportive community for 140 formerly chronically unhoused individuals that embraces a park- like open space; providing shelter and opportunities for building connection and reintegrating into the community; and restoring health and wellness; and offering job training opportunities.
EQ2.	Community garden will generate healthy foods onsite for residents and neighbors, and community kitchen will provide opportunities for nutrition education.
EQ3.	Shared resident amenities and supportive services for efficiency and community building.
EQ4.	Community Kitchen for nutritional learning, self-reliance, and equity.
EQ5. EQ6.	Transit + Bicycle + Pedestrian oriented location. Universal design elements address the needs of residents with physical disabilities and allow for aging-in-place. Gender neutral restrooms in common areas.
Сф П	
EN1.	Solar Electric Battery Backup System powers core services for resiliency during emergency power loss;

	services for resiliency during emergency power loss; lighting spaces for safety and security, keeping
	medications stable, and powering charging phones and
	mobility devices; supports wellness, provides refuge
	for residents & broader HomeRise community.
EN2.	High performance building enclosure and windows reduce
	thermal energy loss.
EN3.	Sunshades reduce heat gain from south facing windows.
EN4.	LED lighting and Energy Star rated appliances used
	throughout the building.
EN5.	Operable windows and ceiling fans to reduce cooling
	demand, and tempered supply air to reduce heating demand
	for thermal comfort & natural ventilation in units.
FN6	Rooftop solar photovoltaic panel system generates electricity

- Notice solar protovoltale parter system generates electricity LINO. for common areas.
- Solar thermal panels reduce water heating energy needs. EN7.
- Generous unit windows provide ample natural light reducing **EN8**. need for electric lights.

As the second such development by the project team, a goal of the design process was to improve upon the previous design through input from the non-profit developers, programs operators, facility management and city partners; a post-occupancy evaluation as well	EM1.
as a community advisory committee.	
PV energy generation monitoring and energy disclosure ordinances allow for post-occupancy energy evaluation. Post-occupancy surveys and thermal studies to be completed after first year of building use.	EM2.
One year walk through to assess the overall building performance including operational experience and	EM3.
feedback.	EM4.
Factory fabricated/ modular Lessons Learned roundtable held with design team. Educational tours for young	
architectural, structural engineering and contractors team	EM5.

- architectural, structural engineering and contractors team members.
- Construction process lessons learned presentations held in Architect's office to share knowledge.

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RE1.	Decreased embodied carbon by achieving up to 50%
	cement replacement in concrete mixes.
RE2.	Rapidly renewable bamboo plywood and cork as accent
	materials in common areas.
RE3.	High Pressure Laminate (HPL) exterior siding panels are
	made from real wood sourced from sustainably managed,
	PEEC certified forests

- PEFC certified forests. RE4. Ground floor concrete slab polished and sealed to provide durable floor with minimal material use.
- VOC-free paints throughout project. RE5. RE6.
 - Durable materials to provide longer lifespan of finishes and reduced maintenance.
- More than 85% of construction waste materials (by weight) RE7. diverted from landfill via waste diversion recycling program.



ES6.

ES1

ES2

ES3.

ES4.

ES5.

ES7.

Strengthens community by housing and supporting formerly unhoused people; dilizes multiple sustainable strategies (from materials to building systems); and lowers costs through innovative modular construction processes, onsite energy production to reduce energy bills, and by installing durable, lowmaintenance materials.

Provides multiple benefits across a triple bottom line: Onsite solar hot water and solar electric systems generate clean energy, create a healthier environment, reduce reliance on fossil fuels, and lower utility bills. Manages construction cost by combining factory-built

- modular and site-built construction.
- Pair of studio apartments with shared corridor form highly efficient factory-built modules.
- Factory-built construction minimized construction waste and close proximity to factory minimized transportation costs.
- EM6. Wood construction with minimal concrete structure reduced building weight and foundation costs.
- Designing highly efficient studio units, with minimal variation CH8. EM7. between units, maximizes the number of units within the zoned height limit, maximized the economies of scale.
- Combines durable finishes at pedestrian level with warmer EM8. softer finishes above reach range to enhance the welcoming residential feel to minimize life-cycle costs through efficiency
 - and durability

OSYSTEMS

Native habitat restoration replaces post-industrial landscape. Exterior light fixtures are "dark sky" compliant. Designed to bird safe standards.

Native pollinator garden with drought-tolerant landscaping. Garden courtyard is sheltered from prevailing northwesterly winds.

New landscape typography established to integrate stormwater

The community garden's espalier will engage users and passersby with the delightful scent of fruit.

SIGN FOR CHANGE design to identify priorities for the project. CH3 retrofitting costs. CH4. CH5.

CH6.

CH7.

CH9.

WA1.

WA3.

WA4.

WA5.

installation once funding is secured, to store and supply grid is down. combined into larger spaces. Certain common areas include option for mechanical

cooling in peak heat events. warms, cooling units can be added at the roof to provide cooled air to the units.

at the rooftop, simplifying maintenance.

DESIGN FOR WATER

city charges the recycled water mains. 100% stormwater managed on-site in storm water infiltration and treatment planters, demonstrating water the landscape. Low-flow water fixtures throughout.

plantings

HomeRise at Mission Bay





Resiliency Checklist developed and used with team during

- Hinged slab ramp and entry stair design accommodates the anticipated extensive settlement of the adjacent sidewalks and streets, ensuring accessible paths over time. Raised ground floor mitigates against sea level rise,
- future flooding, and reduces long term maintenance and
- Hinged slabs and buried stairs allow the building to remain accessible over time as the bay fill soils sink up to 17". Solar battery back-up infrastructure is in place for system solar electric energy for use in emergencies when power
- Common areas are designed to be flexible, to accommodate multiple uses, and can be partitioned into smaller spaces or
- Air supplied to units is tempered at the roof. As the climate
- Air supplied to units is filtered at the roof, to provide clean air during wildfire season and other days with unhealthy particulate in the air. Further, all the filters can be changed

- Dual-plumbed to flush all toilets with recycle water when the
- conservation efforts to the occupants in their experience of
- Drip irrigation w/ smart sensors at streetscape & courtyard
- Resilient planting selection of drought tolerant and native plants, including flood tolerant plants in bioretention areas.



HomeRise at Mission Bay connects residents to the unique history and climate of Mission Bay. To assist with integrating the residents into the neighborhood a generous community garden is located between the private, resident courtyard and Bridgeview Way. The community garden is for use by both residents and neighbors, creating a place for building new relationships, giving the neighborhood a valuable gardening resource that would not otherwise exist, and enhancing the experience along Bridgeview Way, while offering additional privacy to the courtyard.

- Biophilic design integrating lush courtyard with multiple WE2. interior spaces for respite, healing, and community-building activities.
- Enhanced indoor air filtration system at units and common WE3. areas for improved indoor air quality and occupant health. WE4. Building materials and finishes selected for low/no offgassing to provide healthy indoor air quality.
- WE5. Common areas feature art by local artists with themes inspired by the community.
- WE6. Universal design features promote ease of circulation and wayfinding in common areas and hallways.
- WE7. Unit kitchens are equipped with shut-off timers at cooktops that will protects residents from fire and smoke.
- WE8. Designed for preventative care, the supportive services are located between the building entry and elevators, increasing interaction between staff and residents to promote health, self-sufficiency and community.

