RE-MUSE

ADAPTIVE REUSE: REFINERY TO MUSEUM
PROJECT DESCRIPTION

RE-MUSE is an adaptive reuse project that is located on the former Imperial Sugar Refinery in Sugar Land, TX. The first phase of the project will first assess and then remediate any issues that may be found. This process will remove contaminants from the site, to allow for the next phase to develop on a suitable site. Proposing to reuse this previously developed site will not only minimize the project’s impact on undeveloped land, but it will also increase the longevity of the existing structures. The two structures the museum complex intends to re-purpose are the iconic silos and an adjacent warehouse. The silos will house the proposed heritage museum, and the adjacent warehouse will house the Fort Bend Children’s Discovery Center. These two building will be joined and served by a shared lobby. The lobby and the other additions to the project site derive their aesthetics from the site’s industrial history. The use of steel and aluminum will allow for a greater percentage of recycled content and will maintain an industrial aesthetic. A large canopy covers the space between the two existing buildings to create an open air gallery. The canopy is designed to offset any addition of impervious surfaces by harvesting rainwater. To decrease energy consumption major paths of circulation are placed on the north side of the building to allow for day lighting and to minimize heat gain. These strategies will begin to rehabilitate an industrial site into a more sustainable site for the community.
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ENTRY SEQUENCE
ADDITION OF A NEW LOBBY TO CREATE A SECURE ENTRY POINT

CONTROL POINT
THE LOBBY CONTROLS ACCESS TO BOTH MUSEUMS

EXHIBITION SPACE
LARGE VOLUMES TO ALLOW FOR EXHIBIT FLEXIBILITY

ADMINISTRATION CENTERS
EACH MUSEUM IS PROVIDED WITH CONCENTRATED ADMINISTRATION AREAS

CIRCULATION COMPONENTS/ EMERGENCY EGRESS
CIRCULATION CORES PROVIDE INCREASED EMERGENCY EGRESS CAPABILITY

OUTDOOR EXHIBIT SPACE/ OUTLOOKS
EACH MUSEUM IS PROVIDED WITH CONCENTRATED ADMINISTRATION AREAS

SOUTH ELEVATION

HERITAGE MUSEUM BUILDING SECTION
RE-MUSE

ADAPATIVE-REUSE-REHINERY TO MUSEUM

COMPONENT H1 - ELEVATORS WITH INTEGRATED EMERGENCY EGRESS
LARGE AREAS OF REFUGE HAVE AN INDEPENDENT STRUCTURAL SYSTEM TO INCREASE STAND-ALONE CAPABILITIES AND PROVIDE GREATER SAFETY IN CASE OF AN EMERGENCY.

COMPONENT C1 - ELEVATOR CORE AND STAIR WELL
TO ALLOW FOR GREATER VERTICAL CIRCULATION.

COMPONENT C2 - INDEPENDENT STAIRWELL
TO ALLOW FOR GREATER VERTICAL CIRCULATION.

 COMPONENT H2- INDEPENDENT EMERGENCY EGRESS
THE EGRESS CORRIDORS FACING SOUTH ALSO PROVE VIEWS TO VISITORS OF THE SUGAR LAND COMMUNITY.
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EXISTING SILO CONDITIONS
Major propose improvements include:
- Spiral ramp walkway system
- Means of circulation and egress located outside the silos

EXISTING WAREHOUSE CONDITIONS
Major propose improvements include:
- Converting rooftop to an accessible outdoor area
- Partial remove brick facade and inserting a curtain wall system to increase daylighting capabilities

EXISTING SPACE BETWEEN SILOS AND WAREHOUSE