

URBAN RENEWAL / REBIRTH This competition's objective is to envision an imaginative, sustainable, viable design/construction solution to attract the resources, energy, and activity to an area threatened by economic displacement, urban decay, and/or population flight. Submissions may focus on a range of scales and methods, such as innovate planning, reuse of individual structures, new/upgrade of infrastructure, neighborhood rebirth design, and tactical urbanism. The entry must show how design and construction elements will drive or fuel the renewal/rebirth of the urban environment – taking on elements discussed in an overall approach or targeted to a specific area w/in the urban space. Vital to success: (1) site selection (why, where, how, etc.), (2) before and after depictions, (3) demolition, disruption, traffic impacts, (4) construction timelines, etc., (5) budget, per square foot estimates. As in the other challenge solutions, the proposal must be accomplished to meet the precise needs of this RFP in a realistic and doable way consistent with the resources/financial support likely available in the locale. Moreover, the proposal **MUST** also include the precise CONSTRUCTION steps, stages, and remedies for this challenge, like demolition or other pre-retrofit work described and detailed.

MEMORIAL OF THE FUTURE Conceive, plan, and create and/or revitalize a place or site that will be cherished, respected as a gathering place to memorialize an important event, occurrence, or chapter in the life of the local community or nation. Elements of the site are within your decision-making process, whether physical structures (new/rehab), although they need not be the central element; or an open park-like landscaped setting commemorating a historical theme to be memorialized. The key will be to explain the reasons for site selection, what historic factor is being showcased and why/how it relates to the site and audience, and how the solution will attract all elements of the community and visitors in order to educate, inform, and create an immersive experience. The entry should identity a cohesive vision for a long-term successful future through CONSTRUCTION related changes (the built environment, whether rehab/new/repurposed structures, or opening spaces, etc.). This is an ideas competition: proposals may be innovative, transformative, and challenging, **BUT** must also present viable ways to implement real, holistic change. Successful proposals will show before/after, new uses, etc. – with a per foot cost estimate that must be realistic and doable for the resources/financial support likely available in the locale, construction timelines, flows, etc

HOMELESS SHELTER Create a functional modern welcoming homeless shelter that addresses the various needs of its occupants such as: medical/health, safety/security, hygiene, nourishment, drug/alcohol treatment, etc. The challenge is to apply design **AND** construction techniques or applications that will create an inviting environment that will attract the indigent and homeless to abandon their nomadic or street existence for something more nurturing and secure found in a homeless shelter. The teams are encouraged to think outside the box and propose creative solutions to this vexing problem. The entries must connect or capture in the “built environment” (including structures, landscaping, building materials, techniques, and overall presentation) as the elements of a successful homeless shelter. The proposal must determine the site selected (a critical element and why), the size of the undertaking (both in terms of structures, land use, and access) [Provide before vs. after site development]; as well as provide a CONSTRUCTION timeline and per/sq. foot estimate of the cost of delivering the project. [The cost estimates must be realistic and doable for the resources/financial support likely available]. The entry should strive to be a catalyst or model for use around the country to address the issue of homelessness on our streets.

RETROFIT SCHOOL Reimage, retrofit, or otherwise redesign and re-construct areas or portions of (and possibly entire) schools to meet the health, safety, and social needs in the current AND post pandemic environment. With the rise of concerns and debate around reconvening in-person school attendance (at the elementary, secondary, and college levels); a heightened awareness and need to reimage or rethink indoor educational spaces has become paramount. In this spirit, the entry must use construction materials and approaches that will provide spaces that will balance, comfort, and/or calm fears or concerns regarding reasonable health concerns; so that proven in-person educational instruction, as well as the other ancillary valuable social exchanges critical for mental health and wellbeing can transpire and be achieved. The team entries must demonstrate: (1) the precise aspects or areas of your applied solution (i.e., what portions of the school and why you chose them), (2) how use of materials and construction solutions address the challenge, (3) balance of functionality and design to achieve the project goals, and (4) provide a cost estimate (per foot) to accomplish the needs in a realistic and doable way consistent with the resources/financial support likely available in the locale. [The proposal MUST also include the precise CONSTRUCTION steps, stages, and remedies for this challenge, with any demolition or other pre-retrofit work described and detailed].

WATER RESOURCE MANAGEMENT AND PRESERVATION WATER: the life sustaining precious resource that also has importance to commerce, connectivity, and community. Water can also be an unpredictable force of nature, capable of destroying or wiping out structures, terrain, buildings, and lives. How we manage, harness, preserve, and use this vital element relies greatly on ingenious design AND construction solutions. This project option calls upon the teams to delve into the challenge of water resource management through use of dams, locks, levies, canals, grading, and reservoirs, etc. Critical to success: focusing on dams and other water infrastructure, either propose a new solution entirely or renovate/replace – restore an existing facility/system. No matter new, renewed, or updated -- to take on this challenge you must demonstrate: (1) the importance of your site selection [before vs. after site development], (2) why is it critical to undertake your plans, (3) how use of materials/construction adds value, (4) balance of functionality and design, (5) environmental impacts, security, and construction approaches, and (6) lay-out the solutions as well as provide a cost estimate (per foot) to address the needs that are realistic and doable for the resources/financial support likely available in the locale. Due to the likely displacement and logistical problems this project will create in a community, the proposal MUST include the precise CONSTRUCTION steps, stages, demolition, and remedies for these problems.

Other ideas:

- Garbage center with public park area
- [Homeless shelter](#)
- [Jails](#)
- Local project in their community
- Something the students are familiar with – public transportation, libraries
- Community Center
- A site the students can visit as their field trip