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Dear High School Student & Educator,

We are pleased to invite you to participate in the Architectural Foundation of San Francisco's Forty-Sixth annual high school design competition. This is an exciting competition where high school students put their design skills, creativity, spatial and analytical thinking and craftsmanship to the test. With the guidance of instructors, high school students design a building and communicate their design solutions through drawings and models. All high school students in both public and private schools in the greater San Francisco Bay Area are encouraged to participate. This competition provides young thinkers with the opportunity to participate in what is a very unique learning project.

The Architectural Foundation of San Francisco is a nonprofit educational organization that involves San Francisco students in a mentored appreciation of architecture, engineering, construction and the design process. San Francisco reigns as one of the most architecturally significant and beautiful cities in the world. The environment of architectural diversity is extremely important to the vitality of this great city. Everywhere, the vibrant and complex layering of landscape, color, cultures and light produces experiences that unexpectedly reveal themselves. Since its inception in 1990, the Architectural Foundation of San Francisco has endeavored to reach out to the general public to establish an open dialogue on the architectural future of this community.

To receive more information about the Architectural Foundation of San Francisco and to receive competition updates, please visit the website at www.afsf.org or email Will Fowler at will@afsf.org.

Thank you for your interest and we look forward to seeing your designs!

Sincerely,

**Alan Sandler** Executive Director, AFSF

**Will Fowler** Programs Director, AFSF

**Ryan Lee** Woods Bagot, Chair & Author



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# **COMPETITION SUMMARY**

PROGRAM:	Architectural design competition sponsored by the Architectural Foundation of San Francisco
DESIGN CHALLENGE:	Super Bowl 50 Events Pavilion
ELIGIBILITY:	Open to all high school students throughout the greater San Francisco Bay Area
EDUCATIONAL OBJECTIVES:	<ul> <li>Increase your awareness of the relationships between space, human scale and function</li> <li>Gain experience in communicating your planning and designing ideas through drawings and models</li> <li>Gain experience in recognizing the varied problems in planning and designing functional spaces for defined uses</li> <li>Develop design skills through sketching, hand drawing and various computer-aided design platforms</li> </ul>
COSTS:	No entry fee and no pre-registration required
AWARDS:	This is a judged competition with monetary awards
SCHEDULE:	February 16, 2015 I competition distribution April 25 2015 I competition entries due April 26, 2015 I awards ceremony and reception
CONTACT:	Will Fowler I Programs Director I Architectural Foundation of San Francisco 415.393.9963   will@afsf.org Ryan Lee I Competition Committee Chair and Author I Woods Bagot 415.277.3041   ryan.lee@woodsbagot.com



### DESIGN CHALLENGE

#### **BRIEF:**

This year, you are challenged to design a temporary events pavilion to support Super Bowl 50 in San Francisco's Mission Bay district. Next year on Sunday February 7, 2016, Super Bowl 50 will be played in Santa Clara, CA at Levi's Stadium to great fan anticipation. This will mark the National Football League's Golden Anniversary of its championship game and it is only fitting that the sporting event returns to the same state in which Super Bowl I was held. While the game will determine the undisputed league champion for the 2015-2016 NFL season, the overall spectacle of the event will also serve to highlight our local community on a global scale. Numerous celebrations and events will be held throughout the Bay Area in the weeks leading up to the game and this temporary pavilion will serve as a key venue.

The purpose of this particular events pavilion is dedicated to showcasing both the game on the field as well as the contributions made to the community off the field. With a specific focus on local youth outreach, the pavilion will be host to such events as youth football coaching and player clinics, exhibits showcasing organizations in the community that invest highly in the growth of future generations, and educational classes with an emphasis on STEM. The San Francisco 49ers, USA Football, and the 50 Fund will all work together to share space within the events pavilion. Free to everyone, the pavilion will operate daily from 10am - 5pm and will be utilized for private events to be held in the evenings. To accommodate a variety of events of varying size, the space must be carefully planned out and flexibly designed.

#### **Events Pavilion Tenants:**

- San Francisco 49ers: The San Francisco 49ers will host two primary space components within the events pavilion: The 49ers Museum and the Denise Debartolo York Education Center. The museum component will feature the local team's championship success with an exhibit highlighting their 5 Super Bowl victories. The exhibit will also include in-person appearances from both current and former players and coaches. With a focus on STEM (science, technology, engineering and math) based learning approaches, the Denise Debartolo York Education Center utilizes football and Levi's Stadium to teach students in grades K-8 throughout the Bay Area.<sup>1</sup> Operating as an alternative learning tool, the center will host field trips from local school children.
- USA Football: With an emphasis throughout the NFL on player safety, USA Football's Heads Up initiative works to promote a safer game environment through educational programs and clinics for both coaches and players.<sup>2</sup> Coaches hoping to learn and instill proper and safer heads up tackling techniques will be able to go through a certification process through workshop sessions held within the pavilion. Lectures on concussion awareness, equipment fitting, and heat and hydration will also be made available to those interested.
- The 50 Fund: With a goal to make Super Bowl 50 "the most philanthropic and giving Super Bowl ever," the 50 Fund Legacy is committed to lifting up the local community through its grantmaking programs. Investing in the future of the Bay Area, the 50 Fund zeroes in on organizations in three areas of focus: youth development, community investment, and sustainable environments.<sup>3</sup>

Since the overall schedule of events leading up to Super Bowl 50 will only occupy the first month into the 2016 calendar year, you're charged with designing a temporary structure and you must think critically about the life-cycle of building materials. You are encouraged to consider alternate uses for your pavilion designs after the Super Bowl concludes, either as a whole building relocated to another site for a different need or as an assemblage of materials used towards a different purpose. You may consider but are not limited to any of the following solutions for your pavilion design: modular/prefabricated, mobile or stationary, or portable architecture. Since the pavilion is to be constructed with a limited life span, you may choose to design a single structure as a whole or a cluster of several building components placed throughout the site that link the program in a cohesive manner.



#### **DESIGN CHALLENGE CONTINUED**

#### **DESIGN CRITERIA:**

You are free to design as you see fit. Remember, there are no real right or wrong design solutions as this competition encourages you to be creative and original with your design intentions. Your design solution should have its own unique architectural presence on the site respective of the surrounding context while also being considerate of the site's architectural context. Your design solution should be a carefully laid out proposal that meets the programmatic needs of the building. Overall, your design solution should be creative and inspiring and foster the goals laid out in this design challenge.

#### SITE

#### **OVERVIEW:**

The site for the Super Bowl 50 Events Pavilion is located in San Francisco's Mission Bay district just south of the Mission Bay Channel. Bordered by Third Street to the east, Channel Street to the south and 4th street to the west, the site currently serves as parking lot D for the San Francisco Giants. Triangular in shape, and with an area of roughly 171,000 square feet, the site provides ample space for you to place your pavilion at the most logical location relative to your design intent. Within close proximity to AT&T ballpark, the site provides visitors with a wide-array of transportation opportunities to travel to the events pavilion from ferry service to Caltrans to Muni. While taking public transportation, bicycling and walking are all highly encouraged you may also choose to provide parking on site for potential visitors.

#### **NEIGHBORHOOD COMPOSITION:**

Currently, the neighborhood is a rapidly developing area comprised of biotechnology research and development campuses, hospital facilities, and luxury condominiums. Bordered by SOMA, Potrero Hill, and Dogpatch, the area is well-positioned to become a primary San Francisco destination with future proposed developments in the pipeline that include a new 18,000 seat arena/events center for the Golden State Warriors, a 27-acre mixed-use development plan by the San Francisco Giants called "Mission Rock" along Seawall 337, and a new headquarters for app-based transportation network and taxi company Uber across more than 400,000 square feet of office space. Current plans for a temporary "pop-up" retail/food and beverage development by the San Francisco Giants just across Third St. from the site along Terry A. Francois Boulevard was recently presented to the San Francisco Port Commission and is slated to open in March 2015. The 18,000 square foot project aptly named "The Yard" will be comprised of 15 recycled and refurbished shipping containers and will cater to such spaces as a barbecue joint and retail outlets. You may choose to design a building solution that interacts directly with this development or you many choose to propose a project elsewhere on the site that requires less dialogue between the two.

#### **SUSTAINABILITY**

A fundamental goal of this building is to embrace sustainability. In order to reduce the overall impact of the building on the natural environment, the Super Bowl 50 Events Pavilion should consider integrating innovative green building strategies that help increase energy and water efficiency, use renewable energy and materials, and reduce consumption, pollution, and waste. The building should consider careful building orientation, natural day lighting, smart shading systems, water conservation, and photovoltaic solar collectors among other strategies. Where possible, the building and site should showcase green building methods used to educate the public on sustainable architecture. Research into the US Green Building Council's Leadership in Energy and Environmental Design (LEED) rating system is encouraged.



# SITE PLAN

Visiting the site is highly encouraged for you to get a comprehensive grasp of the context, the site dimensions and the general area. The site is easily accessible via public transporation by Muni lines N, T, 10, 30, and 45.





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A.) NORTH ON 3RD ST.



B.) ACROSS 3RD ST. TOWARDS THE SITE FOR POP-UP RETAIL/F&B, "THE YARD."



C.) HOUSING ACROSS THE WAY FROM THE MISSION BAY CHANNEL.





4TH ST./CHANNEL ST.



E.) ACROSS THE SITE ALONG CHANNEL ST. 2015 AFSF HSDC I PAGE 8



# **PROGRAM REQUIREMENTS**

The Super Bowl 50 Events Pavilion should either be a one or two story structure so as to maintain a mindful and considerate presence on the site. Please limit the height of your structure to 30' maximum - the surrounding existing architecture and views should be considered when designing the height of your design. The building can be situated anywhere on the given site and in any orientation relative to true north. In an effort to maintain light, air, views, open space, and to minimize the footprint, the building itself must fit within an 80' x 160' rectangular plot. Note this does not take into consideration space allocated for your proposed play field. The center will include the following spaces listed below. Additional spaces may be added at your discretion; however it must add value to the building program and be in line with the pavilion's mission.

BUILDING PROGRAM: Your building design must include spaces for the following uses:

- Main Entrance & Lobby: (300 sq. ft.) This will serve as the gateway into the building from the exterior and must be easily visible to the public. The lobby includes a large digital welcome display wall that will highlight the exhibits and events going on throughout the pavilion. Video clips of Super Bowls past will also be interpresed with program related imagery. Please allocate space for a reception desk for users to check-in prior to using the pavilion. You may choose to split your entry lobby into two locations. Just note that each entry must be manned or a visual connection between the two entrances must be maintained as it is imperative for security purposes.
- San Francisco 49ers Museum Space: (1400 sq. ft.) This space will house the "5 Rings" 49ers Super Bowl history exhibit and will require a dynamic space for wall graphics, video/sound displays and memorabilia collections. In-person appearances by former and current players and coaches will occur in this space and will require you to allocate room for a small discussion panel. Think critically about easily mobile displays that can be moved around in the event that the space needs to be reconfigured for a gala type event in the evenings.
- 50 Fund Exhibit Space (900 sq. ft.) As the 50 Fund reviews applications for their grantmaking program, the various organizations applying will present themselves and their body of work in a curated exhibition that will shed light on the numerous ways in which youth in the local community benefit from various life-altering initiatives. As with the museum space, think critically about easily mobile displays that can be moved around in the event that the space needs to be reconfigured for a gala type event in the evenings. Situated within close proximity to the museum space will enable users to potentially combine two large spaces into one.
- Seminar Room (600 sq. ft.) This space will hold discussions and learning seminars on USA Football's Heads Up program. Seating must be provided. Consider this space as being dynamic and flexible so that the room can be divided up into smaller classroom workshops for when large group talks aren't in session.
- Interactive Classroom (500 sq. ft.) Allocate a room for the Denise Debartolo York Education Center to hold classroom sessions for visiting K-8 students. 6 interactive work tables with a large embedded touch screen should be provided with seating for up to 6 students each.
- Pop-Up Restaurant Space: (900 sq. ft.) Highlighting our local cultural and culinary scene, this space will provide a venue that enables up and coming chefs and young professionals to showcase their food in a temporary dining setting during the evening. Throughout the week, the kitchen will be taken over by multiple chefs with a diverse range of culinary backgrounds seeking to gain more personal exposure. During the day this space will operate as a coffee shop. The area figure for this space takes into consideration both kitchen and dining space. Seating must be provided.
- Office Space: (600sq. ft.) This office space is used for the day-to-day operations of the events pavilion and is intended to be shared by the staff members from the three aforementioned organizations. While seating should be laid out in an open plan setting, please be sure to design two small private meeting rooms of 100 sq. ft. each.



# **PROGRAM REQUIREMENTS CONTINUED**

- · Storage: (200 sq. ft.) This is storage for the entire building and will include janitorial supplies, office supplies and furniture storage.
- Bicycle Storage: (100 sq. ft.): Visitors will be encouraged to bike to the center and should have sufficient space to lock up their bicycles while roaming the building. Accommodation for up to ten bicycles should be factored into the design.
- Circulation: (no predetermined area) The building circulation includes stairs, an elevator and an adjacent lobby and corridors. If your design is two stories, the elevator must have a minimum clear inside dimension of 5'-8" wide x 4'-6" deep. The stair must be at least 5'-0" wide. Your building must be handicap accessible regardless of the number of stories.
- Restrooms (300 sq. ft.) Please provide one ADA compliant restroom for each gender. Each restroom will be 150 sq. ft. and will have two stalls and one sink.
- Outdoor Space (no predetermined area) An outdoor space should be designed to enable exhibits and events to flow outside of the building. The space may either occupy the roof of the building, a portion of the site at ground level or both. On a typical day, visitors should be able to sit, linger, have lunch and enjoy the views of the surrounding site.

SITE PROGRAM: Your site design must address the following uses:

- Play Field (6,216 sq. ft.) Adjacent to your building, design a small play field for learning demonstrations to take place. The field should measure 111' x 56'. Please refer to the diagram ont the next page for reference. You only need to indicate the placement of the play field on your site plan.
- · Site Amenities: Amenities that must be included on the site are seating, additional bike racks and shaded areas.



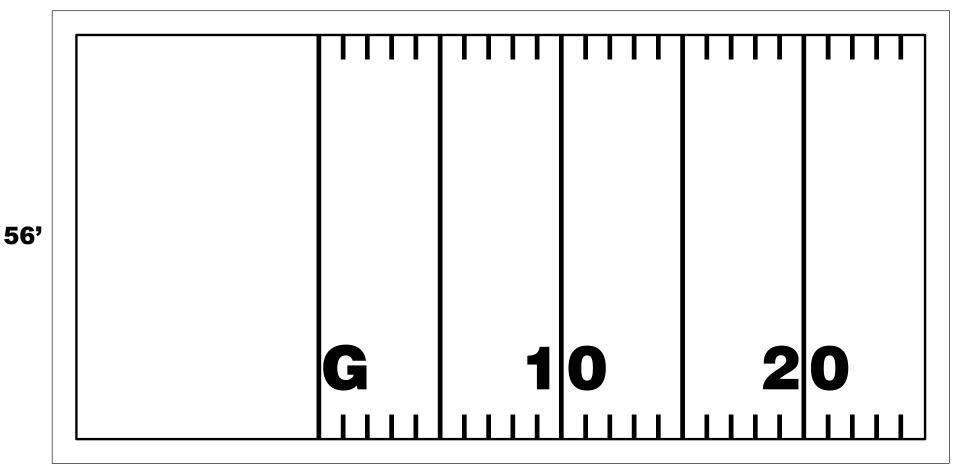
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# **PROGRAM REQUIREMENTS CONTINUED**

#### PLAY FIELD DIMENSIONS:

Play Field (6,216 sq. ft.) The play field will be utilized for proper technique demonstrations and general use for those looking to toss around a football for leisure. The field is a full 25 yards with a 10 yard end zone. Please refer to the dimensions below. Placement relative to your building and program interaction should be considered. Again, you only need to indicate the placement of the play field on your site plan.





# **SUBMISSION OPTIONS**

This year, in an effort to encourage participation, there will be three ways in which you may choose to enter the competition: as a Single Standard Entry participant, as a Group Standard Entry participant, and as a Single Digital Entry participant. Note that depending on which option you choose, you will only be eligible for certain awards. Students may choose to enter as both a Single Standard Entry participant and as a Single Digital Entry participant. Note that depending on which option you choose, you will only be eligible for certain awards. Students may choose to enter as both a Single Standard Entry participant and as a Single Digital Entry participant.

#### SINGLE STANDARD ENTRY REQUIRED DELIVERABLES:

- 1. DRAWINGS I Provide the following presentation drawings:
- Floor plan(s) of building 1/4" = 1'-0" scale I include furniture, room names, and north arrow.
- One elevation of building 1/4" = 1'-0" scale I Elevation view that best describes your design. Include at least one person for scale.
- One building section of building 1/4" = 1'-0" scale I Section view that best describes your design. Include at least person for scale.
- One site plan | 1/16" = 1'-0" scale | Include the building and surrounding site. Label all site elements and include a north arrow.

Drawings must clearly communicate the design solution through selection of appropriate drawing views, clarity of line work, and thoughtful layout and mounting of drawings onto board(s). Each drawing must be labeled with the drawing name (i.e. First Floor Plan, West Elevation) and the scale of the drawing. Rendering materiality and casting shadows is encouraged. Providing drawings at a smaller scale of drawings is acceptable only when the design scheme does not fit on the boards, please make sure to label its correct scale. Providing additional drawings beyond those described above is allowed. Presented drawings must be mounted on rigid 30"x 40" boards, mounted in either direction that best describes your design solution. A minimum of (1) board and a maximum of (2) boards are allowed. Drawings may be in ink, pencil or both. Hand-generated or CADD drawings are acceptable. Use of color is NOT permissible. Drawings can only be black, white and shades of grey.

#### 2. MODEL

Build one physical presentation architectural model of your building design at 1/4" = 1'-0" scale.

Models can be made of any materials, including foam core, museum board, card board and found objects. Models can only be black, white and shades of grey. Use of any color is NOT permissible. The direction of North must be noted on the model. The base of the model must be a square or rectangular. The base size must be 20" in one direction and between 20"-40" in the other direction. Longer models may be separated into (2) sections if needed. The entire site does not need to be built in the model.

#### 3. DESIGN DESCRIPTION I Provide the following design description:

- Design Solution Title I Give a title to your design that best describes your design solution and strategy.
- Design Narrative I Compose a thoughtful and concise description of your design solution and strategy. This may include your design inspiration and what you are trying to achieve with your design. This is your opportunity to articulate any other ideas that you may have that aren't as easy to read from your drawings and models alone such as building material choices or site ideas relative to the greater master plan. Your narrative should be no more than 500 words and should be typed or neatly hand printed and mounted on the front side of the presentation drawing board along with the drawings.

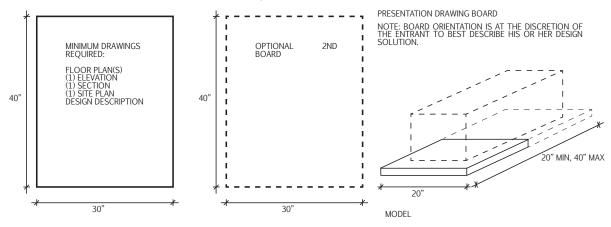


# **SUBMISSION OPTIONS CONTINUED**

#### **GENERAL GUIDELINES**

Entrant's name and school must be written on the BACK of the drawings board and the BOTTOM of the model base. No names or identifying marks shall be placed on the front face of any drawing or model. Student must ensure that their entry fits within the presentation requirements. Any deviation from these presentation requirements including smaller or larger sized drawing or model boards or missing requirements may disqualify the entrant from that portion of the competition. Disqualifications of non-conforming entries are at the judges' discretion.

Please note that as a Single Entry participant, you may also choose to enter as a Single Image-Based Entry participant as well. This will be judged separately as an additional entry. Please follow the guidelines outlined below for that submission.



#### **GROUP STANDARD ENTRY REQUIRED DELIVERABLES:**

As a Group Entry participant, you must submit all of the required deliverables that were mentioned above as if you were a Single Entry participant. This includes all required drawings, a physical model, and a design description. You may, however, work in teams ranging between 2-4 people. This will be a separately judged category.

#### SINGLE DIGITAL ENTRY REQUIRED DELIVERABLES:

#### 1. COMPUTER PERSPECTIVE RENDERINGS

Provide three (3) 3D computer generated perspective renderings of your building design. Two of the renderings must be exterior views and one of the renderings must be an interior view. These are the best views describing your design solution.

You may utilize any 3D modelling software at your disposal to create your images. Your submission will be in the form of (3) three high resolution images in JPG format. Post-production image work in Photoshop is not required but strongly encouraged. You will bring either a flash drive or CD to the submittal location and a competition representative will assist you in downloading your entry. This will be a separately judged category.

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# ARCHITECTURAL FOUNDATION OF SAN FRANCISCO 2015 FORTY-SIXTH ANNUAL HIGH SCHOOL DESIGN COMPETITION

# As stated prior, please note that depending on which option you choose to enter as, you will only be eligible for certain awards. Only those entering as <u>Single Standard Entry</u> participants will be eligible for awards in the Best Model, Best Drawings, and Best Design Overall Superiority award categories. Separate award categories will be presented to those in both the <u>Single Digital Entries</u> and the <u>Group Standard Entries</u>. Awards for Honorable Mention may be awarded to any participant(s) in any sbumission category at the discretion of the judges.

1. BEST DESIGN I Awards for overall superiority in design solution, model, and graphic presentation:

- 1st Place I \$200.00 & CCA Summer Scholarship\*
- · 2nd Place I \$150.00
- · 3rd Place | \$100.00

2. BEST MODEL I Awards for best model describing design solution:

- · 1st Place I \$100.00
- · 2nd Place I \$75.00
- · 3rd Place I \$50.00

3. BEST DRAWINGS I Awards for best drawings describing design solution:

- · 1st Place | \$100.00
- · 2nd Place I \$75.00
- · 3rd Place I \$50.00

4. BEST GROUP ENTRY I Separate category, Awards for best group submitted design solution:

- · 1st Place | \$100.00
- · 2nd Place I \$75.00
- 3rd Place I \$50.00

5. BEST DIGITAL ENTRY I Separate category, Awards for best 3D computer generated renderings describing design solution:

- · 1st Place I \$100.00
- · 2nd Place I \$75.00
- · 3rd Place I \$50.00

6. CERTIFICATE OF PARTICIPATION I Certificate of Participation will be presented to all entrants.

#### \*CCA Summer Scholarship

Through the generosity of the California College of the Arts, the Best Design 1st Place prize winner will be offered a full tuition scholarship to CCA's Summer Pre-college Program in Architecture. CCA's Pre-college Program is a four-week intensive studio experience offered in July, Monday through Friday, 9:00am to 4:00pm at the Oakland campus. The student will earn 3 units of college credit. The value of the scholarship is \$2,700.00 per student.

For more information on CCA's summer program, please follow this link: https://www.cca.edu/academics/precollege



# SCHEDULE

START I FEBRUARY 16, 2015 Competition is distributed to high schools in the San Francisco Bay Area and posted to the Architectural Foundation of San Francisco's website.

DESIGNING I FEBRUARY 16, 2015 – APRIL 25 2015 Students work on their designs, drawings and models.

COMPETITION KICK-OFF & BIM SOFTWARE TRAINING I Saturday, February 28, 2015 | 10:00am - 12:30pm

#### LOCATION I 901 MISSION STREET, SUITE 110, SAN FRANCISCO, CA 94103

The Architectural Foundation of San Francisco will provide a day-long introductory training in BIM software for teachers and students who are interested. Schools are encouraged to send teams of instructors and students to this training. To join the training session, send an email to will@afsf.org Use "Bim Training" in the subject line and include your contact information in the body of the email. You will be notified be email of your acceptance.

COMPETITION ENTRIES DUE | SATURDAY, APRIL 25, 2015 | 10:00am - 12:00pm (noon)

#### SUBMITTAL LOCATION TO BE DETERMINED

Bring your submission (presentation drawing board(s), model, and/or CD/flash drive) to the submittal location within the 10:00am to 12:00pm window of time. You will be asked to fill out a registration form when submitting your entry. Submittal location will be posted on the AFSF website (2) weeks prior to submittal due date and instructors will be notified. For competition updates, please send an email to Will Fowler, will@afsf.org. Please note that late submittals will not be accepted! No exceptions!

JUDGING I SUNDAY, APRIL 26 2015 I 9:00am - 4:00pm

#### LOCATION IS SAME AS SUBMITTAL LOCATION

Judges Only. A distinguished panel of judges will review every submission in private and determine the award winners.

AWARDS CEREMONY & RECEPTION | APRIL 26, 2015 | 4:00pm - 5:00pm

#### LOCATION IS SAME AS SUBMITTAL LOCATION

All are invited including entrants, their family and school faculty members. Winners will be announced and awards will be presented at this time. Jurors & the Competition Committee will be available after the awards reception to answer any questions you may have about the competition.

ENTRY PICK-UP | APRIL 26, 2015 | 5:00pm

All entries should be picked up following the awards presentation including the winning entries. Any entries left after the reception will be discarded.



# LINKS

#### **Architecture:**

Temporary Architecture http://inhabitat.com/tag/temporary-architecture/

Proxy - San Francisco http://www.envelopead.com/proj\_octaviakl.html

Proxy (Aether) - San Francisco http://www.envelopead.com/proj\_aether.html

Icebergs - New York http://www.woodsbagot.com/project/icebergs

Modular Architecture (kit-of-parts) http://www.projectfrog.com/

#### Sustainability:

Green Globes http://www.greenglobes.com/home.asp

LEED http://www.usgbc.org/leed

Whole Building Design Guide http://www.wbdg.org/design/sustainable.php

#### **Program:**

San Francisco 49ers Museum http://www.levisstadium.com/museum/

Denise Debartolo York Education Center http://www.levisstadium.com/2014/08/denise-debartolo-york-education-center-unveiling/

USA Football Heads Up http://usafootball.com/headsup

50 Fund http://www.50fund.org/