



# ACEC CA - Bay Bridge Chapter 2022 *Engineering Excellence Awards*

**ACEC**  
AMERICAN COUNCIL OF ENGINEERING COMPANIES  
*California*



**Deadline for All Materials - Tues. November 9, 5PM**

Professional engineers and land surveyors dedicated to building a better California.



# Submission Requirements

## Eligibility for the Engineering Excellence Awards

Any ACEC California Member firm engaged in the practice of consulting engineering or surveying is eligible to enter the awards program.

## Qualifying Projects

Engineering or surveying projects must be in the nine-county SF Bay Area Region: (San Francisco, San Mateo, Santa Clara, Alameda, Contra Costa, Solano, Napa, Sonoma, and Marin).

Studies and Research (Category A) or Surveying and Mapping Projects (Category D) must have been publicly disclosed by the client between November 1, 2019 and October 31, 2021. Construction of projects (Categories B through L - with the exception of D) must have been substantially completed and ready for use between the same dates. Engineering or surveying achievements that have won awards in other state or national organizations' design awards programs may be entered.

Projects are judged for their overall engineering excellence, the work performed by the entering firm only, and the rating guidelines listed below.

## Categories and Requirements

1. The firm must select the appropriate category. (However, some of the categories are broad while others are more specific, and your project may fall into several categories. Please mark the most appropriate category.) It is important to note that the submittal judging is focused on the quality of engineering and land surveying creativity, not on the category selected. Category (A) projects, should they lead to design and/or construction, may be considered for subsequent years in another category.
2. Entries must be submitted according to the requirements under, "How To Submit an Entry." Non-compliance with these requirements will disqualify an entry.
3. Firms entering projects are assumed to be the prime design professional for the entered project. Entries on behalf of a joint venture must be accompanied by a letter signed by all joint venture partners consenting to the project submission.
4. If submitting as a sub-consultant for a specific element of engineering or surveying work on a project, the entrant must include a letter from the prime consultant with whom they were contracted to verify the scope of the work the entrant performed.
5. The Awards Committee reserves the right to determine eligibility and category classification of all entries.

## Rating Guidelines and Definitions for Judges

- |   |     |
|---|-----|
| 1. Original or Innovative Application of New or Existing Techniques.....  | 20% |
| • Does the entry demonstrate the use of a new science or a breakthrough in the general knowledge of engineering?              |     |
| • Does the entry represent a unique application of new or existing technology, techniques, materials or equipment?            |     |
| 2. Future Value of the Engineering Profession and Perception by the Public.....   | 20% |
| • Will the entry redefine current engineering thinking?   |     |
| • Does the entry advance a positive public image of engineering excellence?   |     |
| 3. Social, Economic and Sustainable Design Considerations.....  | 20% |
| • Do the solutions identified produce secondary benefits of value to the community environment?                               |     |
| • Does the entrant's approach provide society with social, economic, or sustainable development benefits?                     |     |
| • Does the entrant's contribution to the project improve the health, safety or welfare of the public or affected environment? |     |
| 4. Complexity .....   | 20% |
| • Did the entry successfully address very complex criteria or unique problems?  |     |



<ul style="list-style-type: none"> <li>Were extraordinary problems of site, location, hazardous conditions, project requirements or similar elements present?</li> <li>Did the entry require the use of out-of-the-ordinary technology or ingenuity for achievement of the project's goals?</li> </ul> <p><b>5. Exceeding Client/Owner Needs.....</b> 20%</p> <ul style="list-style-type: none"> <li>Did the entrant successfully engage the client/owner in the overall project development process?</li> <li>Is it an economical and cost-effective solution?</li> <li>How did the final cost relate to the original budget estimate?</li> <li>How closely does the entrant's solution meet the total goals of the client/owner?</li> <li>Did the entrant meet the client's time schedule?</li> </ul>	<ul style="list-style-type: none"> <li>Approach provides society with social, economic or sustainable development benefits. (7 pts.)</li> <li>Contribution to project improves health, safety or welfare of the public or environment. (7 pts.)</li> </ul> <p><b>iv. Complexity (20 pts.)</b></p> <ul style="list-style-type: none"> <li>Addresses very complex criteria or unique problems. (7 pts.)</li> <li>Extraordinary problems of site, location, hazardous conditions, project requirements. (7 pts.)</li> <li>Use of out-of-the-ordinary technology or ingenuity. (6 pts.)</li> </ul> <p><b>v. Exceeding Owner/Client Needs (20 pts.)</b></p> <ul style="list-style-type: none"> <li>Successful engagement of Owner/Client in overall project development process. (4 pts.)</li> <li>Economical and cost-effective solution. (4 pts.)</li> <li>Relation of final cost to original budget estimate (both for overall project and consultant's services). (4 pts.)</li> <li>Solution closely meets the total goals of owner/client. (4pts.)</li> <li>Client's time schedule met. (4 pts.)</li> </ul>
The following materials must be submitted:	
<b>Official Electronic Entry</b>	
All project information shall be submitted electronically	
<p>1. The Official Entry Form: The engineer or surveyor, client, and owner must all sign the entry form stating that the project was or will be substantially completed and ready for use in the qualifying period. This must be uploaded in PDF format.</p> <p>2. Project Description: The project description should not exceed five (5) pages (8 1/2" x 11" with 1" margins min, single-spaced), and address all items listed below in a format that can be easily identified and followed by EEA judges. This document must be uploaded in PDF format.</p> <ul style="list-style-type: none"> <li>a. Firm's role in the project.</li> <li>b. Role of other consultants and contractor(s) if applicable, participating in the project.</li> <li>c. Description of the firm's contribution to the project, including:           <ul style="list-style-type: none"> <li>i. Original or Innovative Application of New or Existing Techniques (20 pts.)               <ul style="list-style-type: none"> <li>a. Use of new science or breakthrough general engineering knowledge. (10 pts.)</li> <li>b. Unique application of different technology, technique, materials or equipment. (10 pts.)</li> </ul> </li> <li>ii. Future Value to the Engineering Profession &amp; Public Perception (20 pts.)               <ul style="list-style-type: none"> <li>a. Redefines current engineering thinking. (10 pts.)</li> <li>b. Advances a positive public image of engineering excellence. (10 pts.)</li> </ul> </li> <li>iii. Social Economic, and Sustainable Design Considerations (20 pts.)               <ul style="list-style-type: none"> <li>a. Solutions produce value to the community environment. (6 pts.)</li> </ul> </li> </ul> </li> </ul>	<p>3. An Executive Summary: The executive summary should not exceed one page (8 1/2" x 11" with 1" margins min, double spaced) summarizing the submission. Project title and entry category should appear at the top of the page. This document must be uploaded in PDF format.</p> <p>4. Owner/Client letter: A One-Page letter from the owner/client describing the relationship with the entrant in the development of the project, and in meeting and exceeding owner/client needs. Letter must be signed by owner/client. This document must be uploaded in PDF format.</p> <p>5. A Project Introduction: This document/script should not exceed two hundred words and is used as the presentation script (with possible modification) during the Awards Banquet. The introduction should point out the most unique or significant aspects of the project and the community benefits. It should be written as though the project won an award. This document must be uploaded in Microsoft Word. See: Sample Project Introduction Script on back cover.</p> <p>6. Published Project Articles: Provide links to any and all published Media articles of your project. This is optional.</p> <p>7. Press Release: In 400 words or less, please provide a press release that clearly and concisely describes the project and the entrant's participation based on information presented in the Project Description. Also describe the value of the project to the community including information such as the number of people served, cost savings, etc. Do not reference other awards the project has won.</p> <ul style="list-style-type: none"> <li>a. Press Release Disclaimer: Please be aware that the Press Release you submit will be used as a sample and may need to be edited.</li> </ul> <p>8. Naming your documents: Please name your documents accordingly. Abbreviated firm name, abbreviated project name and document type. For example: Biggs Cardosa &amp; Associates, Inc. entered a project Santa Clara Station Pedestrian Underpass.</p> <ul style="list-style-type: none"> <li>• Official Entry Form: Biggs_SCSPed_OfficialEntry</li> <li>• Owner Client Letter: Biggs_SCSPed_Owner_Client</li> <li>• Project Description &amp; Summary: Biggs_SCSPed_Des_Sum</li> <li>• Project Introduction: Biggs_SCSPed_Intro</li> <li>• Media Folder: Biggs_SCSPed_Media       <ul style="list-style-type: none"> <li>• Biggs_SCSPed_Press</li> <li>• Biggs_SCSPed_Articles</li> </ul> </li> <li>• Photos Folder: Biggs_SCSPed_Photos       <ul style="list-style-type: none"> <li>• Biggs_SCSPed_Photo1</li> <li>• Biggs_SCSPed_Photo2</li> </ul> </li> </ul>

## Definitions and Notes

**Substantially Completed:** A project that is expected to be operational and to meet its intended purpose between November 1, 2019 and October 31, 2021.

**Judging:** It is recommended that applicants follow the instructions closely for the project write-up and detail the role your firm had in the project. Applicants may request a blank copy of the judging score-sheet to aid in project submission. It is important to recognize that the judges rate each project in the entry categories on the previous page, and therefore entries should be clear as to their value in those categories. Also, entries should: (a) be reasonably understandable to persons who don't specialize in that particular area of the profession, and (b) include graphic material to help illustrate the submission, whether in captioned photographs, graphs or exhibits.

## **Entry Upload**

1. Please fill out the Official Entry Form and provide ACEC CA BBC the following information:
  - a. ACEC Chapter Affiliation
  - b. Firm's Role in the project
  - c. Preparer, Principal or Lead Engineer and any additional contact information.
  - d. Entering firm or firms' information.
  - e. Client or Owner information.
  - f. Official project name and official project name abbreviated for use in Press and Media efforts.
  - g. If you were not a Prime, upload a letter from Prime approving submission.
  - h. Name of Prime construction contractor.
  - i. Upload the executed Official Entry Form in PDF format.
  - j. Upload Project Description & Executive Summary in PDF format.
  - k. Upload Letter from Client/Owner in PDF format.
  - l. Upload a Project Introduction in a word document.
  - m. Upload Published Media links in an excel document.
  - n. Upload Press release (400 words or less) in a word document.
  - o. Provide up to 5 300dpi++ high-resolution representative photos. No artistic renderings. If photos exceed email limit, they can be added to our Dropbox:  
[https://www.dropbox.com/sh/46u2yaivbsp58kt/AAAioY5ING814r\\_Vxjz9ZKWOa?dl=0](https://www.dropbox.com/sh/46u2yaivbsp58kt/AAAioY5ING814r_Vxjz9ZKWOa?dl=0)

## **Photographic Display Panel**

1. If your firm is selected to receive an Award will be required to submit one photographic display panel. ACEC CA BBC will not be responsible for any damages to or loss of an entrant's photographic display pane. Winners will be required to create one 24" x 17" display panel for display at the BBC Holiday Lunch.
2. You may take the display panels with you at the end of the banquet.

## **Press Release: Sample**

Cross Border Xpress (CBX) Terminal Building and Pedestrian Skybridge in San Diego, CA by Kleinfelder of San Diego, CA. The bi-national project spans the U.S./Mexico border and directly connects a new terminal building in San Diego to the Tijuana International Airport (TIJ), making TIJ the only airport in the world with terminals in two countries. CBX is a high-profile, high-security project toll crossing for ticketed airline passengers offering a direct, convenient connection for TIJ passengers traveling to or from Southern California. The bridge allows passengers flying into or out of Tijuana International Airport to circulate across the international border between two terminal buildings, enabling them to avoid unpredictable border wait times and often-lengthy delays at congested land ports of entry at San Ysidro or Otay Mesa.

# Entry Categories

The 2022 Engineering Excellence Awards competition recognizes engineering and land surveying firms for projects that demonstrate an exceptional degree of innovation, complexity, achievement and value. A distinguished panel of judges will evaluate and rank submissions by engineering excellence. Projects are judged for their overall engineering excellence, the work performed by the entering firm only, and the rating guidelines listed. Entrants should select a category below under which the project will be ranked in comparison to all submissions.



**CATEGORY A:** Studies, Research and Consulting Services (Non-design services, projects not involving the preparation of construction documents consisting of but not limited to the following projects):

- New products, materials and technologies
- Expert testimony
- Basic research and studies
- Computer/software technology
- Technical papers
- Public outreach/involvement
- Water conservation
- Security plans
- Project feasibility, economic, or risk studies
- Value engineering

**CATEGORY B:** Building/Technology Systems

- Mechanical/electrical/plumbing
- Computer/technology
- Communications
- Acoustics
- Software systems
- Sustainability or carbon neutrality
- Efficiency certification standards, e.g. LEED
- Energy efficiency - new and retrofit
- Secure facilities (military, research, correctional)

**CATEGORY C:** Structural Systems

- Foundations
- Tunnels
- Buildings
- Seismic design
- Towers
- Bridges
- Stadiums

**CATEGORY D:** Surveying and Mapping Technology

- Geometrics, ALTA, land title and rights surveys
- Control, GPS, monitoring or construction surveying
- Survey mapping, GIS/LIS, photogrammetry

**CATEGORY E:** Environmental

- Hazardous waste
- Solid waste
- Restoration/reclamation/remediation
- Air quality
- Noise
- Recycling
- Waste pond management
- Carbon sequestration and trading
- Mitigation

**CATEGORY F:** Water and Storm Water

- Wastewater collection/treatment and disposal
- Residuals management and reuse
- Graywater systems
- CSO's
- Mine tailings
- Agricultural
- Storm water management
- Erosion control

**CATEGORY G:** Water Resources

- Hydraulics, hydrology
- Surface and groundwater supply development
- Treatment
- Transmission, distribution, and storage
- Watershed management
- Water use reduction
- Flood risk management
- Climate adaptation
- Coastal and eco-system restoration
- Locks/dams/water control structures
- Irrigation

**CATEGORY H:** Transportation

- Highways
- Rail
- Airports
- Marine/ports
- Public Transit
- Intermodal facilities

**CATEGORY I:** Special Projects

- Safety and security
- Corrosion protection/cathodic protection
- Program and construction management
- Land development
- Trenchless technologies
- Recreational facilities
- Subsurface engineering

**CATEGORY J:** Small Projects

- Total project construction budget does not exceed \$2.5 million (at the entrant's discretion, except for entries in Category A, projects under \$2.5 million are not limited to this category)

**CATEGORY K:** Energy

- Transmission and distribution
- Power generation
- Renewable energy
- Cogeneration
- Energy storage technologies
- Energy usage reduction programs
- Demand side management

**CATEGORY L:** Industrial and Manufacturing Processes and Facilities

- Petrochemical
- Biotech
- Manufacturing
- Heavy industry
- Industrial waste
- Materials handling
- Mining, metallurgy, mineralogy

# Entry Form

PAGE 1 of 2

Please provide all information requested below for each entry. This information will be used for awards and press releases. The proper fee must accompany this form.

## About the Project

**ALL INFORMATION ON ENTRY FORM MUST BE THE SAME FOR YOUR FINAL PROJECT UPLOAD.**

ENTERING FIRM NAME(S) *(as used on any awards, publicity or other materials)*

**ACEC CA MEMBER FIRM ENTRY FEE**  
**\$200**

**ACEC CA MEMBER FIRM ENTRY FEE**  
**Certified MBE/SBE/DBE**  
**\$50**

ACEC CALIFORNIA CHAPTER NAME \_\_\_\_\_ FIRM'S ROLE IN THE PROJECT: \_\_\_\_\_

<b>PREPARER'S</b>	FIRST NAME 	LAST NAME 	TITLE 
ADDRESS 	CITY 	STATE 	<b>PREPARER ONLY</b>
ZIP 	PHONE NUMBER 	EMAIL 	

SIGNATURE \_\_\_\_\_

<b>PRINCIPAL'S</b>	FIRST NAME 	LAST NAME 	TITLE 
ADDRESS 	CITY 	STATE 	<b>PRINCIPAL ONLY</b>
ZIP 	PHONE NUMBER 	EMAIL 	

SIGNATURE \_\_\_\_\_

<b>ADDITIONAL CONTACT'S</b>	FULL NAME 	TITLE 	EMAIL 
<b>ADDITIONAL CONTACT'S</b>	FULL NAME 	TITLE 	EMAIL 

**ADDITIONAL**

<b>NAME OF THE PROJECT</b>	LOCATION 	STATE 
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<b>ENTRY CATEGORY</b> <i>(Please Check One):</i>	A. Studies, Research, and Consulting Services B. Building/Technology Systems C. Structural Systems D. Surveying and Mapping Technology	E. Environmental F. Water and Storm Water G. Water Resources H. Transportation I. Special Projects	J. Small Projects K. Energy L. Industrial and Manufacturing Processes and Facilities
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COMPLETION/USE DATES: Schedule Dates \_\_\_\_\_ Actual Date \_\_\_\_\_ TOTAL PROJECT BUDGET *(actual)* \$ \_\_\_\_\_

COSTS **(Category A Only)**: Scheduled Costs \$ \_\_\_\_\_ Actual Costs \$ \_\_\_\_\_ ENTRANT'S TOTAL PROJECT BUDGET *(planned)* \$ \_\_\_\_\_

ENTRANT'S PROJECT BUDGET *(actual)* \$ \_\_\_\_\_

**PROJECT INFORMATION**

# Entry Form continued...

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## About the Client/Owner(s) of the Project

I believe the work of the engineer meets the intended uses and expectations for the project and hereby grant permission to enter this project in the 2022 ACEC California Engineering Excellence Awards Competition, and authorize publication of its outstanding features, unique aspects, or innovations. I affirm that the project was substantially completed and ready for use between **NOVEMBER 1, 2019** and **OCTOBER 31, 2021**.

### PRIME CONSTRUCTION CONTRACTOR

FULL NAME	ADDRESS	EMAIL
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### OTHER KEY CONSULTANTS, ARCHITECTS, ETC.

FULL NAME	ADDRESS	EMAIL

### CLIENT INFORMATION

CLIENT	CLIENT CONTACT NAME	EMAIL	
CLIENT ADDRESS	CLIENT CITY	CLIENT STATE	CLIENT ZIP
CLIENT PHONE NUMBER	CLIENT SIGNATURE		

### OWNER INFORMATION

OWNER	OWNER CONTACT NAME	EMAIL	
OWNER ADDRESS	OWNER CITY	OWNER STATE	OWNER ZIP
OWNER PHONE NUMBER	OWNER SIGNATURE		

**ACEC CA BBC EEA** entries must be received by close of business on **TUESDAY, NOVEMBER 9, 2021**.