



PACIFIC VISIONS ARCHITECTURAL FACT SHEET

Project Description Pacific Visions is a new visual and content-driven expansion of the Aquarium of the Pacific campus in Long Beach's Shoreline Aquatic Park in Southern California. The first major expansion project undertaken by the Aquarium, the EHDD designed Pacific Visions will add nearly 29,000 square feet of contemporary interpretive spaces, exhibit galleries and an immersive theatre in a biomorphic structure. Founded in 1998, the Aquarium of the Pacific has become one of the most-visited aquariums in the United States, welcoming visitors of all ages to connect with more than fifty exhibits and 11,000 animals representing the diversity of the Pacific Ocean through a state-of-the-art facility and innovative educational and event programming.

Key Dates

<i>Design Unveiling</i>	March 23, 2016
<i>Groundbreaking Ceremony</i>	February 2, 2017
<i>Public Opening</i>	Spring 2019

Location Aquarium of the Pacific
100 Aquarium Way
Shoreline Aquatic Park
Long Beach, CA 90802

Leadership Dr. Jerry R. Schubel, President and CEO

Aquarium Project Leaders

- Derek Balsillie, Senior Manager of Audio Visual & Information Technology
- Russ Hill, Board Director
- Steven Mayer, Board Director
- Douglas Otto, Board Vice Chairman
- Fahria Qader, Director of Pacific Visions & Architecture
- John Rouse, Vice President of Operations
- Kurt Schulzman, Board Director
- Michael Sondermann, Board Director

Architect EHDD, San Francisco, CA

Cost \$53 million

Program *Main Entrance, Front Plaza, and Public Lawn*
The Dr. Allen and Charlotte Ginsburg Entrance will feature an expanded ticketing area and special entrance for members. The front plaza will act

as a community gathering place that will host cultural festivals, outdoor programs, and art installations. The public lawn will remain a focal point of the site for everyone to enjoy, with upgraded resilient, low-water plant species. The existing drought-tolerant garden will remain undisturbed.

Art Gallery and Orientation Area

- Art gallery: 2,800 square feet, repurposed from the existing building.
- Orientation area: 2,800 square feet with a sloping floor that optimizes views toward the central 12-foot-high video display wall and leads visitors toward the theater.

Honda Pacific Visions Theater

A two-story, dynamic digital theater will surround visitors in a virtual ocean environment.

- Over 300 seats
- 32-foot-tall, 180° arc, 130-foot-long digital projection wall
- 30-foot-diameter floor projection disc
- Mist, wind, scent, and seat rumblers will be employed for seated visitors in the theater

Changing Exhibitions Gallery

A space for temporary live animal exhibits and programmatic digital content.

Design Concept

Biomorphic Design

The original Aquarium presents its aquatic program within a series of curvilinear, rippled shapes. Pacific Visions provides a counterpoint within a single sinuous, biomorphic form that is meant to encourage different interpretations. Inspired by the manner in which the design team used water as an important metaphor in the original design, Pacific Visions uses a building skin with visual depth, variability, and luminosity, evoking the spirit of sunlight rippling through water.

Glass Panel Façade

The form is created by a ventilated rainscreen. The triple-layer laminated glass assembly incorporates a subtle reflective finish at the innermost layer, a blue-tinted middle layer, and acid-etched low-iron glass at the outer layer, achieving an effect of depth and variable luminosity. To minimize the appearance of the joints, the glass is glazed to conceal an aluminum carrier frame. Each of the 800-plus panels is unique in size and shape to accommodate the curves and angles of the exterior form.

- Panels cover more than 17,000 square feet of area (more than 18,000 square feet when including the balcony extension at the Great Hall)
- The outer surface of the glass is acid-etched to eliminate direct reflection of the trees and sky, which can confuse birds and result in bird strikes.
- In the evening, downlights are strategically located on 20-foot poles in the plaza and lawn areas to cast light evenly on the undulating glass facade and public paths at the entry plaza. KGM

Architectural Lighting performed extensive light photometric studies to confirm that this system meets bird safety requirements and light pollution control standards.

Sustainable Strategies

Pacific Visions continues the Aquarium's commitment to environmental responsibility. The new expansion is pursuing a rating of 2 Green Globes® from the Green Building Initiative, which is equivalent to LEED® Silver. The project is designed to achieve 24 percent reduction in energy compared to similar buildings. Pacific Visions will also produce its own energy through a clean energy fuel cell system, rather than drawing electricity from the local grid. Sustainability features include efficient heating and cooling systems, low-flow fixtures in the restrooms, bird-friendly glass, recycling of construction waste, LED lighting, and environmentally friendly paints, carpets, adhesives, and sealants for clean indoor air quality.

Materials

Exterior

- Rainscreen glass cladding system that consists of triple-laminate body-tinted glass assembly over a concealed aluminum carrier frame
- Fine sand-finished cement plaster at base ticketing area
- Reconfigured zinc roof over vented metal panel soffit at front plaza
- New glass and aluminum curtain wall system at members' entry
- "Algae" concrete hardscape and bluestone pavers at new members' entry path

Interior

- Cast-in-place concrete floors throughout, with carpet flooring at exhibit galleries and theater spaces
- Terrazzo flooring at Great Hall entrance to the new wing
- Epoxy flooring at wet back-of-house areas
- Fabric wrapped acoustic wall panels in the theater

PACIFIC VISIONS PROJECT TEAM

EHDD Duncan Ballash, Principal-in-Charge; Chuck Davis, Design Principal; Ursula Currie, Project Manager / Design Lead; Quyen Luong, Project Designer / Project Architect; Scott Arford, Tom Lee, Robert Tranter, Katherine Miller, Amy Fashimpar, Silvia Hendrawan, and Heidi Hanzawa

Glass Panel Façade Engineers Burro Happold, Los Angeles, CA

General Contractor Clark Construction Group, Bethesda, MD

Media Design Cortina Productions, McLean, VA

Exhibit Design Bowman Change Inc., Irvine, CA

Owners Representative	TG Construction, El Segundo, CA
Mechanical, Electrical, and Plumbing	P2S Engineering, Long Beach, CA
Structural Engineering	Wheeler & Gray, Pasadena, CA
Civil Engineering	KPFF Consulting Engineers, Long Beach, CA
Lighting Design	KGM Architectural Lighting, Inc., Los Angeles, CA
Theater Design	John Sergio Fisher & Associates, Tarzana, CA
AV Consultant	Edwards Technologies, El Segundo, CA
Landscape Design	Pamela Burton & Company, Santa Monica, CA
Geotechnical Services	GeoDesign, Inc., Anaheim, CA
Commissioning Services	Farnsworth Group, Claremont, CA
Capacity Planning	Management Resources, Tustin, CA
Cost Estimator	TBD Consultants, San Francisco, CA

ABOUT EHDD

EHDD, the designer of the Pacific Visions expansion, is a leading architecture, interiors, planning, and urban design firm based in San Francisco. In association with HOK, EHDD was also responsible for the Aquarium's original 1998 building.

A past winner of the prestigious American Institute of Architects National Firm of the Year Award, EHDD is celebrated for its ability to envision spaces and places that excite our imaginations, enhance our culture, and inspire higher thinking. From libraries to academic buildings, museums, aquariums, and zoos, EHDD has created civic and cultural centerpieces that are the hallmarks of our communities. Some of these include the Monterey Bay Aquarium; the National Museum of Marine Biology/Aquarium in Taiwan; the John G. Shedd Aquarium in Chicago, Illinois; the California Science Center, Ecosystems in Los Angeles, California; The Exploratorium at Pier 15 in San Francisco, California; and The David and Lucile Packard Foundation in Los Altos, California. EHDD is also designing a major renovation and expansion of the Seattle Aquarium in Seattle, Washington.

EHDD is also a leader in sustainable design, exemplified by twelve LEED Platinum projects, ten LEED Gold projects, and two LEED Silver projects. EHDD has also designed two of the fifteen Net Zero Energy Certified projects—The David and Lucile Packard Foundation office building and IDeAs Z2 Design Office in San Jose, California. The Exploratorium at Pier 15 is on track to become the largest Net Zero Energy museum in the United States. EHDD has also won six AIA National Committee on the Environment “Top Ten Green Projects” awards.

ABOUT THE AQUARIUM OF THE PACIFIC

The nonprofit Aquarium of the Pacific is a community gathering place where diverse cultures, the arts and sciences are celebrated and where important challenges facing our planet are explored by scientists, policymakers, and stakeholders in search of sustainable solutions. The Aquarium is dedicated to conserving and building nature and nature's services by building the interactions between and among peoples. Home to more than 11,000 animals, Aquarium exhibits include the June Keyes Penguin Habitat, the Ocean Science Center, the Molina Animal Care Center, and the interactive Shark Lagoon and Lorikeet Forest exhibits. Beyond its animal exhibits, the Aquarium offers educational programs for people of all ages, from hands-on activities to lectures and courses by leading scientists. The Aquarium won a 2015 Travelers' Choice Award for Aquariums, as awarded by TripAdvisor® travelers, and the 2016 TripAdvisor® Certificate of Excellence. The Aquarium was awarded a four-star charity rating from Charity Navigator in 2016. To learn more about Pacific Visions, visit aquariumofpacific.org

MEDIA CONTACTS

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