SUSPENDED PLATFORM & CONTAINMENT DESIGN

PE LICENSED IN ALL 50 STATES & VARIOUS CANADIAN PROVINCES

CUSTOM SUSPENDED PLATFORMS
QUIKDECK™, SAFESPAN™ & BEECHE
CONTAINMENT SYSTEMS
FALL PROTECTION
INSPECTION SERVICES

BRIDGE STRUCTURAL ANALYSIS
STRUCTURAL SHORING
VENTILATION ANALYSIS
DEMOLITION/BRIDGE REMOVAL
STAIR TOWERS

D.H. CHARLES ENGINEERING, INC.
707.537.8282 | WWW.CHARLESENGINEERING.COM
D.H. Charles Engineering, Inc.
is a civil/structural engineering firm specializing in providing construction engineering services to contractors throughout the United States and Canada. The firm, which was founded in 1992, is owned and managed by Jasper Calcara, P.E., who has design, consulting, and field inspection experience on thousands of projects since 1998.

We are distinguished from other engineering firms by the following:

• A professional and experienced staff of eleven engineers ensures projects are prepared efficiently and accurately by qualified personnel.

• PE stamp in all 50 states, Washington D.C., Ontario, Alberta, British Columbia, Manitoba, Saskatchewan, Newfoundland and Labrador.

• SE stamp in California, Illinois, Nevada, Hawaii and Washington.

• Focus on innovative solutions and problem solving, by relying on vast design experience and knowledge of state-of-the-art technologies.

• Dedicated to providing immediate and emergency response, with many critical designs turned around the same day.

• A one-stop-shop, offering a wide range of construction engineering services to satisfy all of our clients’ needs on even the largest projects.

• Services specifically tailored to satisfy clients in all time zones using electronic submittals, flexible hours, and prompt response to all inquiries.

• Onsite inspection, certification, coordination, and data collection services available.

More Project Photos and Details Online.

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ENGINEERING SERVICES PROVIDED

Suspended Platforms
- Custom scaffold, strongback, steel, and timber framed platforms
- Quickdeck™
- Safespan™
- Beeche aluminum space frame and steel truss frame

Containment Systems & Ventilation Analysis
- Scaffold, wire rope matrix, timber, steel and other custom frameworks for debris netting and shrink-wrap supports
- Rolling panels and transportable containment assemblies
- Ventilation analysis and certification

Bridge Structural Analysis & Certification
- Analysis of bridge or building structure to confirm adequacy to support intended platform and/or containment systems
- Inspection of bridge elements for evaluation of access and/or containment systems

Fall Protection Systems
- Temporary and permanent tie-backs
- Horizontal lifeline systems
- Guardrails
- Safety nets
- Demolition barrier and debris collection systems

Bridge Retrofit or Demolition
- Bridge jacking and temporary support systems
- Demolition evaluation and bridge removal plans

Miscellaneous
- Rigging plans and lifting systems
- Cantilever and outrigger scaffolds
- Powered platform supports
- Access and shoring scaffold systems
NOTABLE PROJECTS:

**Golden Gate Bridge Seismic Retrofit - San Francisco, CA**
Design, inspection, and approval of various custom suspended platform and access systems for the South Approach retrofit at Fort Point Arch including: Multi-level and curved Safespan work platform; space frame platform specifically designed to provide partial support of access scaffold and enclosure systems; and complete structural analysis and certification of existing arch.

**Dames Point Bridge – Jacksonville, FL**
Design of 300’-tall access and containment scaffold system to allow for painting of bridge cable stays. Submittal required a complex structural analysis of the existing bridge structure.

**Ballard Bridge – Seattle, WA**
Suspended platform on double leaf, trunnion bascule bridge for sandblasting and painting operations. Platform was designed to stay attached to the bridge as it rotated from horizontal to near vertical allow for passing ships. Extensive structural analysis of the bridge was performed during design.