

Perot Museum of Nature and Science

Dallas, Texas, USA



- Owner: Perot Museum of Nature and Science
- CM: Balfour Beatty, Inc.
- Completed: October 31, 2012
- Value: US\$95,605,914
- Delivery Method: CM-At-Risk

Project Dimensions

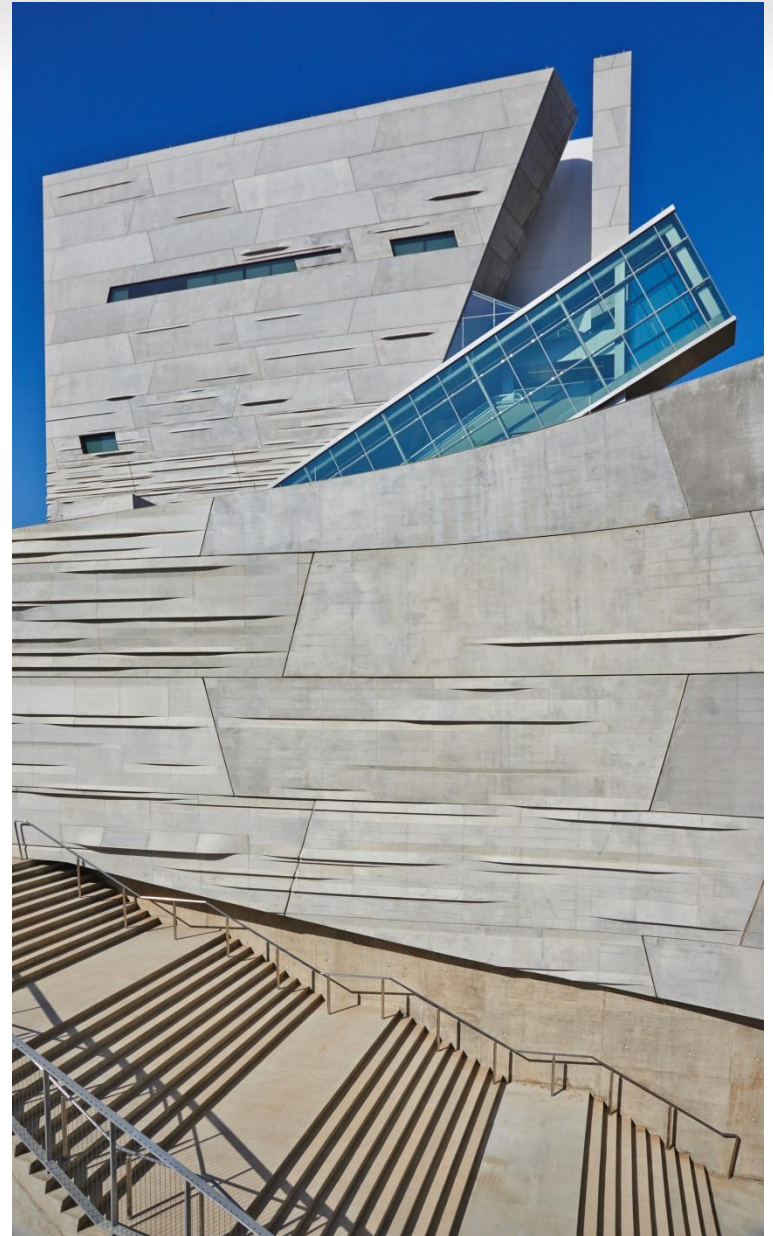
- 180,000 square foot (16,000 m²) facility
- 14 stories tall
- 10 permanent exhibition halls
- Gallery for traveling exhibitions
- Digital cinema with 300 seats
- Children's museum
- Outdoor playspace/courtyard

Project Dimensions

- One acre roofscape with native, drought-resistant grasses, trees, flowering plants
- Retail store and offices
- Glass enclosed lobby and outdoor terrace

Unique Design

- Building skin includes 700 pre-cast, custom-molded concrete sections with ornate detail.
- Elements angled to appear to emerge from the earth





“One Team”

- All stakeholders – owner, architect, CM, museum staff – all shared offices on site throughout project
- Balfour Beatty brought in as CM-at-Risk at beginning of Schematic Design

Reliance on BIM

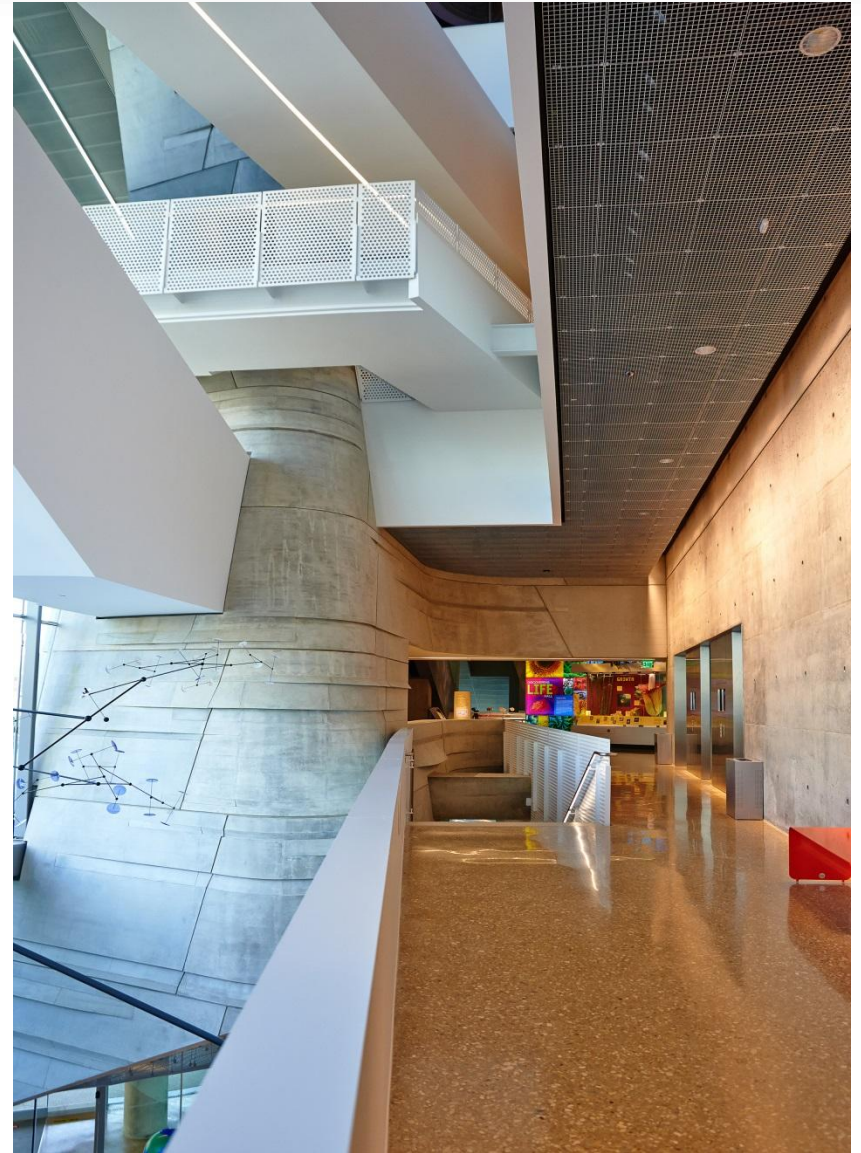
- New to certain trades
- The CM conducted BIM clash detection meetings on project site and included subcontractor superintendents and project managers
- Team was engaged and excited.
- Became “natural” to solve issues within the 3D model – saved time and money

Example

- Excavation discovered a massive abandoned concrete structure from 1926, buried at 26 feet below grade
- Conflicted with museum foundation plans and electrical feeds
- 3D model, using GPS coordinates, helped device new placement of foundations and utilities without complex excavation

Partnering

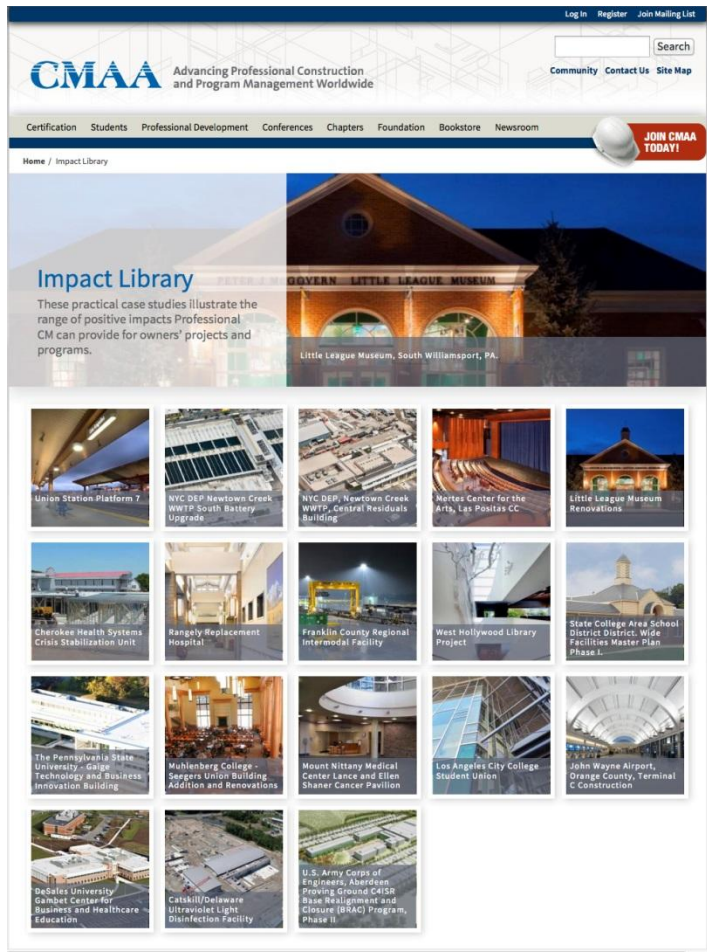
- Lasting relationships
- Solutions-based mindset
- Relentless dedication to a collective goal



A “Once in a Lifetime” Project

- Unique, high-visibility project
- Met quality goals
- Achieved fund-raising targets
- Excellent safety record
- No claims

For More Examples



- Online Impact Library with case studies of successful CM/PM
- Access at:
 - www.cmaanet.org/impact-library