

YBI West-Side Bridges Seismic Retrofit
Construction Manager/General
Contractor
CM/GC
Project Delivery

Board

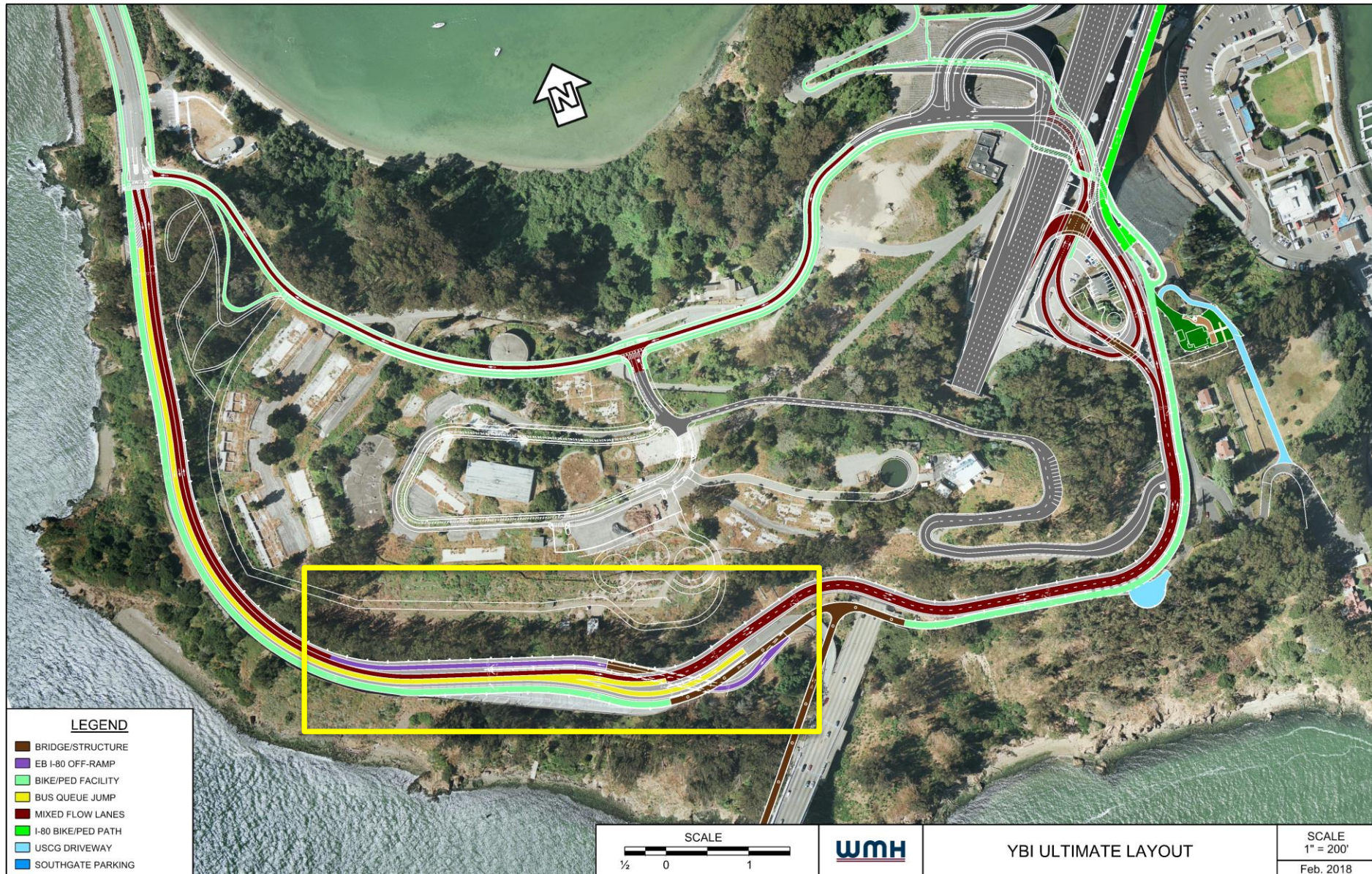
Agenda Item 8



SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY

March 13, 2018

Project Location



YBI I-80 West-side Bridges



- ▶ **Seismic Strategy:**
 - ▶ **Retrofit 5 Bridges**
 - ▶ **Replace 3 Bridges**
- ▶ **Construction Estimate: \$48M**
- ▶ **Total Project Estimate: \$69M**
- ▶ **Funding: Federal, State, TIDA**



YBI I-80 West-side Bridges



- ▶ **Environmental Complete**
- ▶ **Preliminary Engineering @ 30%**
- ▶ **Construction Start Date: Early 2020**



YBI I-80 West-side Bridges

Site Conditions – Retrofit Bridges

- ▶ Steep Terrain
- ▶ Land Slides



YBI I-80 West-side Bridges



Site Conditions – Treasure Island Road

- ▶ Steep Terrain
- ▶ Limited Access



YBI I-80 West-side Bridges



Site Conditions – Replacement Structures



YBI I-80 West-side Bridges – Value Analysis



- ▶ Value Engineering Analysis Completed: 2014
- ▶ Determined: Challenges and Constraints High Risk
- ▶ Recommended CM/GC Delivery Method be evaluated
- ▶ CM/GC best used on projects with complex, high-risk scope
- ▶ AB 2374



YBI I-80 West-side Bridges – AB 2374



- ▶ Evaluate Design-Bid-Build (DBB) vs CM/GC delivery methods
- ▶ DBB is traditional project delivery method
- ▶ CM/GC Delivery Method – Construction Manager engaged during project design process





State of the Practice

Why use CM/GC?

- **Risk Mitigation**
- **Opportunities for innovation**
- **Need for specialized qualifications**
- **Benefits from early procurement**
- **Cost certainty/Schedule Certainty**
- **Collaboration**



Delivery Method Overview

Project Team Selection

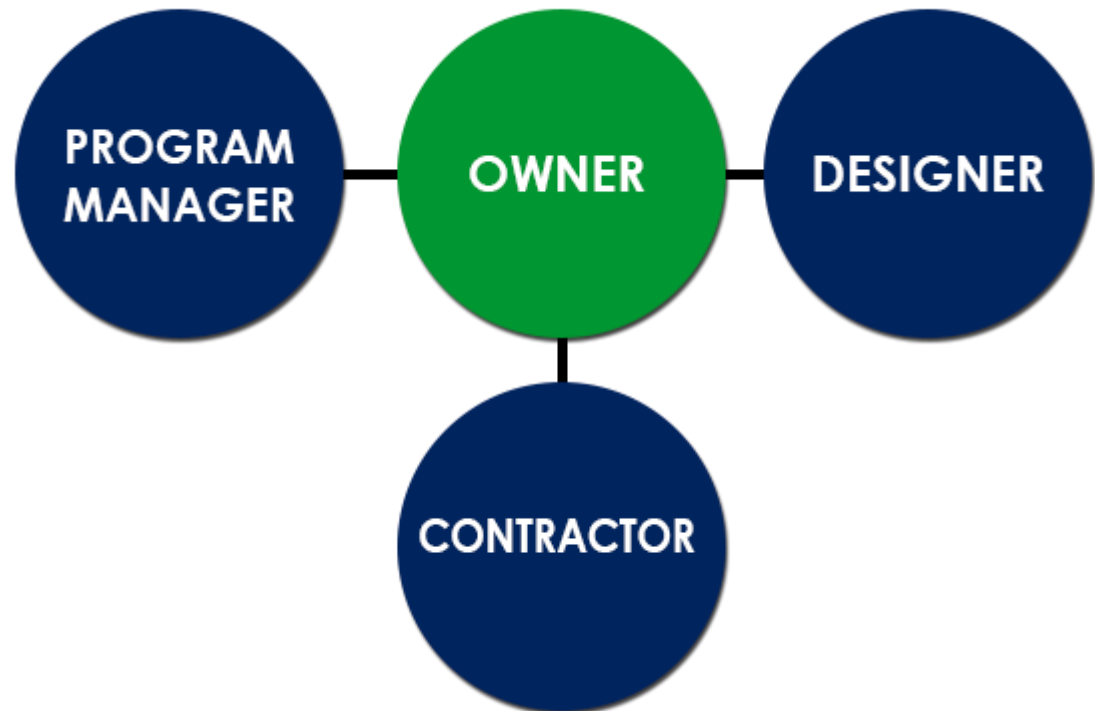
- **Contractor**
 - 1. Qualifications Based Selection**
 - 2. Best Value Selection**
 - **Technical score**
- **Independent Cost Estimator – Quals based procurement**

Delivery Method Overview

What is CM/GC?

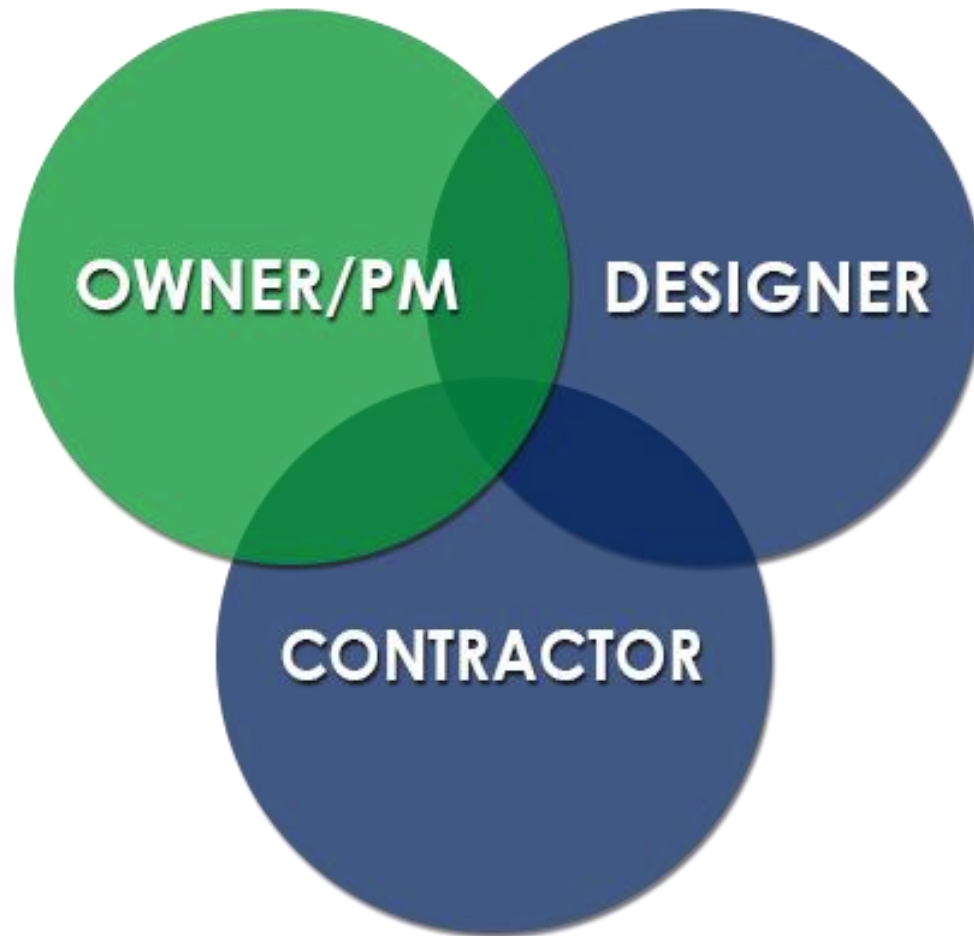
Two-Phase Contract with Contractor:

- Phase I:
Construction Management
- Phase II:
General Contracting



Delivery Method Overview

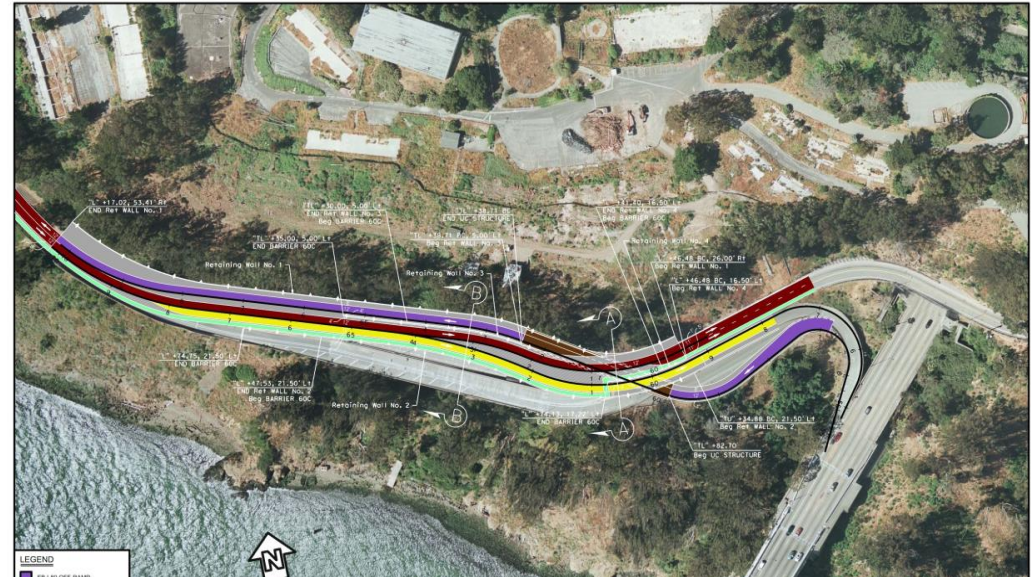
CM/GC Collaboration



YBI I-80 West-side Bridges – Evaluation Criteria



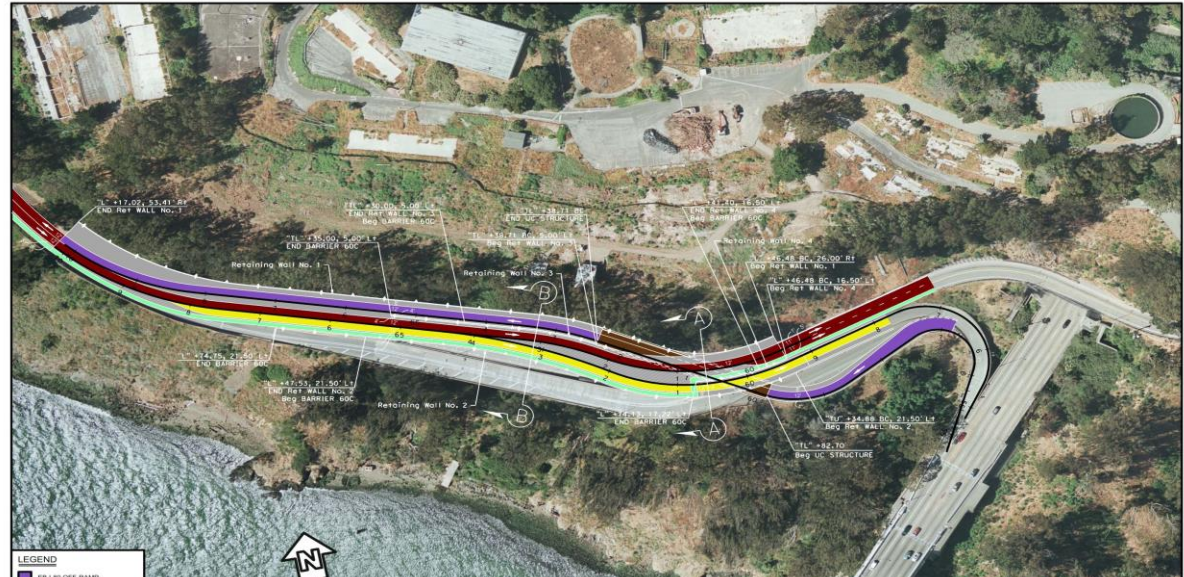
- ▶ Complexity
- ▶ Risk Assessment
- ▶ Delivery Schedule
- ▶ Level of Design
- ▶ Contractor Experience



YBI I-80 West-side Bridges – Evaluation and Recommendation



- ▶ **CM/GC delivery method would provide numerous advantages over DBB**
- ▶ **Recommend using CM/GC delivery method**





Questions?



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