

# Construction Management at Risk

## 1. Overview of CMAR Method:

- Key Elements of this project delivery method inclusive of best practices for the engagement of the CMAR firm, categories of cost, pricing models, how the CM is at risk, and primary CMAR major participants.
- Differences with the CMAR method from the Owner/Architect/CM perspectives
- Best practices for the selection of the CMAR firm.

## 2. In-depth Review/Discussion of the CM Pre-construction Services with project examples and what an owner should expect; below is the list of the categories of the CMAR services:

- Project Review/Consultation Services
- Cost Estimating/Cost Model Services and associated management
- Value Engineering
- Construction Advice/Planning
- Constructability Review
- Coordination of Contract Documents
- The Art of the Guaranteed Maximum Price (GMP) inclusive of pre-qualification of trade contractors, scopes of work, bidding packages, scope reviews, and the GMP submittal.

## 3. In-depth Review/Discussion of the CM Construction Services – How the CMAR firm remains the Owner's advocate during construction and provides these services differently with highlights from actual projects; the categories of these services include:

- Project Schedule
- Project Staffing
- Submittals/Shop Drawings, RFIs, Substitution Requests
- Cost Control/Change Orders
- Quality Assurance/Inspections
- Project Safety
- Claims Avoidance/Resolution
- Contract/Project Close Out/Audit

## 4. Examples of CMAR Benefits

## 5. Recommendations on Using the CMAR Method

Notes: Throughout the course, group exercises are planned to further demonstrate the subject

matter with participant engagement. In addition, participants will receive a variety of tools/handouts to consider utilizing on their projects.