Delivery System Comparitive Analysis

Three Primary Delivery Methods

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	Defining Characteristics	Design-Bid-Build	CM@Risk	Design-Build
1	Players	3 Prime Players (Owner, Designer, Builder)	3 Prime Players (Owner, Designer, CM@R)	2 Prime Players (Owner & Design-Build Entity)
2	Contracts	2 Separate Contracts Owner: Architect Owner: Contractor	2 Separate Contracts Owner: Architect Owner: Contractor	1 Contract Owner: Design-Build Entity
3	Final Contractor Selection	Lowest Responsible Bid or total contract price	Aspects other than cost	Cost or Solution based
4	Phases of Project Development	3 linear phases (design, bid, build)	Overlapping phases (design & build)	Overlapping phases (design & build)
5	Fast Track	NO	YES	YES
6	Price Guaranty	Stipulated Sum (owner) Lump Sum (contractor)	GMP (Guaranteed Maximum Price) (flexible as to when price becomes fixed)	GMP (Guaranteed Maximum Price) (flexible as to when price becomes fixed)
7	Considerations of Budgetary Risk	Amount of Contingency Owner's willingness to share risk in cost overruns	 Amount of Design info available Amount of Contingency Owner's willingness to share risk in cost overruns 	Project costs may be lowered be- cause of the close working relation- ship between the architect and GC who are on the same design-build team working toward a common goal
8	Claims / Change Orders E&O Issues	Owner must be concerned about loss of communication & mis- understanding between designers & constructors, which may create legal & liability issues & added costs	Although there is less conflict as compared to Design-bid-build, the architect and GC are still under separate contracts requiring the owner to arbitrate issues	Claims / CO's / E&O Issues signifi- cantly reduced. Architect & contractor are thrust into a collaborative environ- ment aimed at a common goal. The owner's role in claims mitigation is eliminated
9	Definition of players roles	Well established & broadly documented roles	Specific contractual arrangement determines the roles of the players	The AIA & AGC agree that either the architect or general contractor can lead the design-build entity

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(There must be an explicit deter-

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9	(continued)			mination of the roles & responsibil- ities)
10	Preconstruction Services	Precon Services are not included	Hiring of CM during Design phase (service included)	Architect & GC contribute to pre- construction process (service included)
11	Construction Planning	Opportunity for construction planning based on completed documents (at commencement of construction)	Preconstruction services offered by the constructor, construct- ability review, bid climate de- velopment & bid management, etc. (during design phase)	Preconstruction services offered by the design-build team now include input from the architect in addition to the general contractor (during design phase)
12	Quality Control / Quality Assurance	Complete specifications that produce clear quality standards provide the backbone for a QA/QC effort	Clear quality standards produced by the contract's prescriptive specifications are required	Prescriptive specifications & a well focused QA/QC effort must be in place to ensure compliance with the construction documentation
13	Completeness of Construction Doc- umentation Package	CD's are typically completed in a single package before construction begins, requiring construction related decisions in advance of actual execution (Configuration & details of finished product agreed to by all parties prior to construction)	CD's are completed in progressive stages permitting work to commence prior to the completion of the entire design package (Some final details related to the aesthetics may be completed just prior to execution)	CD's are completed in progressive stages permitting work to commence prior to the completion of the entire design package (Some final details related to the aesthetics may be completed just prior to execution)