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## **Construction management involves professionals in the complete design/construction process**

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If you are starting to feel a little better about the economy and are planning on expanding or renovating, you should give some serious thought to a construction management delivery system. Many people have heard the term but few can define it, mainly because there are so many ways to manipulate this construction delivery system that it cannot be specifically defined. Despite this fact, there are several advantages to construction management which involves construction professionals in the complete design and construction process.

Traditionally design and construction was handled by the master builder responsible for both the design and construction, delivering a complete product. Contractors normally would perform all aspects of the project within their own work force. During the mid 1950s, architecture became a separate service from construction. As buildings became more complex in the 1960s and '70s, contractors that traditionally self performed most of their work became brokers of smaller specialty subcontractors. At the same time, design professionals were beginning to pull away from their construction related responsibilities due to rising liability insurance costs.

Bidding competition became tougher and contractor margins were reduced. The successful bidding contractor would have to take advantage of missing items from the bid documents which would be necessary to complete the project. These items would not be included in the estimate in order to be the low bidder on bid day. As the project progressed, claims for change order compensation for any work not shown or implied on the bid documents, but necessary to complete the project, were made. This created an increasing adversarial relationship between the owner and the contractor while the design professionals were trying to back away from the construction process. The result is a construction project over budget, behind schedule and an unhappy owner.

It became evident that the owner required an advocate on the construction side to guide him throughout the complete process. Enter the construction manager. The construction manager became an agent for the owner responsible for managing trade contractors and material purchases in the best interest of the owner. The construction manager would procure competitive pricing from qualified subcontractors and suppliers. A selection recommendation was made to the owner based on qualification, cost, and schedule. The owner would have complete access to project accounting throughout the entire project.

In order to take full advantage of the services offered, the construction manager should be involved from the onset of design. Construction manager preconstruction services include the following: project scheduling, project budget, develop cost management procedures, coordinate design comments, review and advise on constructability, develop bidding procedures, coordinate permit process, assist in public relations, generate bidder interest, coordinate long lead purchase items, expedite bidder interest, expedite bid document delivery, conduct pre-bid conference, bid

evaluation.

Construction manager responsibilities during construction include the following: contract administration, manage submittal process, conduct job site meetings, coordinate inspections and testing agencies, construction observation, recommendations regarding non-conforming work, monitor construction schedule, review contractor/subcontractor payment request, negotiate change order costs and time extensions, review contractor claims, receive and review equipment instruction manuals.

Probably the least thought about but equally important is post construction services including: assist in occupancy permit, coordinate as built documents, coordinate training sessions, claim analysis, coordinate punch list items, final project reports commissioning and building staff training.

Construction managers are normally on a qualification basis with a negotiated fee, similar to selection of a design professional. At this point, owners and construction managers must negotiate as to the amount of risk the construction manager is required to take on. Two forms of contracts emerge at this point including Agency Construction Management and Construction Manager at Risk.

Agency Construction Management will place the CM at minimal risk. The owner is normally responsible for the direct payment of the subcontractors and material. The CM will remain as an informed advisor to the owner with minimal conflict of interest.

With a CM at risk contract, the construction manager is responsible for the payment of all material and subcontractors with a guaranteed maximum price. This approach may be desirable however it leaves more opportunity for a conflict of interest.

In general a professional construction manager can be invaluable to an owner for pre-planning, design, construction, engineering and management expertise.

Christopher Eseppi, PE is vice president of PDS Engineering & Construction, Inc., Bloomfield, Conn.

New England Real Estate Journal - 17 Accord Park Drive #207, Norwell MA 02061 - (781) 878-4540