

FMI/CMAA Twelfth Annual Survey of Owners







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CMAA convened an advisory panel of owner members to consult in the development of the survey questionnaire and study objectives. These owners generously shared their experiences and expertise in identifying and prioritizing areas where new knowledge was desired.

The owners advisory panel consisted of:

Stephen Ayers, AIA, Architect of the U.S. Capitol Mark a a s, PE, CCM, State Construction Engineer, Virginia Department of Transportation M_k hae¹ er nar , PE, CCM, Program Director, U.S. Customs and Border Protection A¹¹en arry, Senior Director, Project Management, Architecture and Construction, The Americas, Hilton Worldwide

EXECUTIVE SUMMARY

"It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one most adaptable to change." — Charles Darwin

The current operating environment rewards those most adaptable to change. In this environment, markets react violently to each new economic report or each new day's headlines about trouble around the corner or a world away. As the economic wheels continue to spin with little traction, firms are left with little choice but to adapt to survive.

In many ways, the industry finds itself in an unfortunately familiar place. The introduction to last year's Survey of Owners outlines economic challenges similar to those faced today. The statement, "Fear of a double-dip recession exists while talk of further stimulus spending, specifically for infrastructure, is inciting optimism,¹" fits today as well as it did then.

The 2011 CMAA/FMI Survey of Owners, the 12th in the series, adds further depth and detail to an evolving portrait of construction program owners coping with an operating environment that is changing profoundly and, in all likelihood, permanently. As is the case in past years, the new survey explored what owners expect from their professional construction and program managers. New findings reveal how these expectations have evolved over time and highlight some impressively durable trends regarding what remains and what changes as the industry evolves.

The 12th annual survey asked owners about how the continuing global economic uncertainty has affected their solicitation and procurement policies. Specifically, national business and industrial media have reported throughout the last two years that states, localities and other owners have been receiving surprisingly low bids on their projects. This might create a rare opportunity to execute important projects at major cost savings, were it not that levels of government funding and availability of long-term credit remain highly uncertain.

Have owners actually experienced this trend, and if so, how have they responded? What are the implications of lower margins for service providers as result of these low bids and the sustainability of the industry in its current form if the current economic reality is likely to remain for a number of years?

The survey took place during the summer of 2011. The overall economic temper of that time is summed up with a Washington Post headline from August 19:

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The first half of the summer was dominated by a prolonged conflict over raising the federal debt ceiling and devising a strategy to reduce the nation's deficits. All the while, the kr

HIGHLIGHTS

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 - More than half of respondents agreed or strongly agreed, "Due to national economic conditions, we find many bids are priced well below the levels we expected." Nearly half (48 percent) agreed or strongly agreed that "We are taking advantage of this opportunity to get work contracted at the lowest possible price."
 - Among those owners with best-value procurement policies, however, the tendency is to stick with that policy and resist the siren call of unexpectedly low bids. Nearly two-thirds (61 percent) of the best-value procurement owners disagreed or strongly disagreed with the statement, "In the interest of realizing these savings, we are departing, if necessary, from best-value strategy."
 - □ Indeed, fewer than 10 percent of respondents agreed with this statement, and not a single survey participant strongly agreed with it.
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 - □ While more than one-third (38 percent) either agreed or strongly agreed with the statement "Getting a project fully completed is harder today than ever before," 42 percent either disagreed or strongly disagreed.
 - □ The different experiences of these two owner groups reveal that while the current operating environment may not be getting any easier, it is not getting harder for a significant percentage of owners.
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 - □ Survey respondents were asked to identify areas in which "you need and/or expect your CM, whether in-house or contracted, to make a major contribution to your success."
 - For the first time, the function "Transitioning to ongoing operations and maintenance (startup)" ranked highest among 16 areas of support (percentage ranking the function as important or very important),
 - 77 percent of owners expect their CM to have either expertise or thorough working knowledge of facility startup.
 - The more traditional CM functions of document quality concerns and issues/disputes resolution were the other top CM functions identified by survey respondents.
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 - As the industry continues to debate the correct approach to Integrated Project Delivery, construction program owners are looking to professional construction managers for leadership and guidance in implementing IPD.
 - 71 percent expect their CM to have either expertise or thorough working knowledge of IPD.
 - □ The trend toward greater CM leadership on IPD creates an opportunity for savvy firms to deliver greater value for construction program owners.

NATURAL SELECTION AT WORK?

Put simply, natural selection is a biological process that explains why certain traits remain while others change as a species evolves. The key to this process is that it is not random. What changes does so by design so that the species is better suited to survive in a constantly changing environment. What do the implications of Darwin's theory, a cornerstone of evolution, hold for the business of construction in today's economic climate?

To be fair, natural selection does not offer a perfect lens by which to view business. Government bailouts of the auto industry, the American International Group, Fannie Mae and Freddie Mac, and a host of banks are all clear examples of artificial selection at work. But what are the implications for those firms not deemed "too big to fail."

As Charles Darwin's quote eloquently states, it is the adaptable firm that is likely to survive. As the challenged global economy continues to force its will on the operating environment, construction program owners must adapt to this new reality. At the same time, advances in process and technology are changing the way that projects are managed and buildings built. Clearly, for owners and service providers to succeed in this environment they must be willing to adapt.

CONTINUITY AND CONTEXT

The 12th Annual Survey of Owners offers the opportunity to pull back from the day-to-day and observe the evolution of the construction industry in the current operating environment. To understand the current survey results in this light, they are best viewed in the context of earlier survey findings.

The CM's growing role as leader of the commissioning and startup process, for instance, has been evident for some time. The *10th Annual Survey of Owners* (2009) reported on broad trends toward outsourcing of a variety of functions throughout the industry, but most particularly predicted that use of outsourcing for "program activation and commissioning" and for "operations and maintenance" would see large gains through 2014.

That survey forecast a 60 percent increase in outsourcing of commissioning and a 30 percent gain in outsourced services for operations and maintenance.

The 2009 survey also concluded, "Owners are taking a more holistic view of their capital construction efforts and expect a broader set of services from pre-design to O&M functions." Between 2009 and 2014, the survey revealed that owners would increase

THE ECONOMY'S EFFECT ON ROCUREMENT STRATEGY

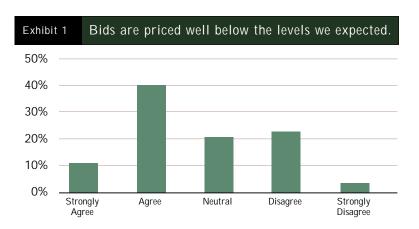
During the past year, some news media reports have highlighted a trend of construction owners receiving low bids in response to their RFPs. In response to that trend, this survey asked for owners' direct experiences with bid values. Specifically, the survey asked owners to indicate levels of agreement or disagreement on a scale of 1 to 5 on statements regarding the economic climate's impact on bid levels and procurement strategies.

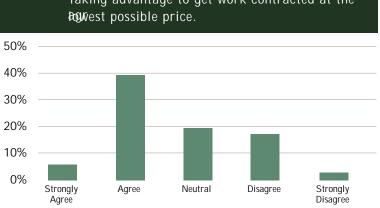
The results in) $h \blacksquare t$, are clear. More than half of respondents (52 percent) agreed or strongly agreed with the statement, "Due to national economic conditions, we find many bids are priced well below the levels we expected," while only 27 percent disagreed or strongly disagreed.

These low bids create an opportunity for construction owners to contract work at a discount. At the same time, they pose a threat to service providers in the industry who must now operate with little or no room for error.

Are owners taking advantage of these low bids to get work done more inexpensively? Nearly half of respondents (46 percent) agreed or strongly agreed with only 20 percent disagreeing or strongly disagreeing () h**▼**t).

Despite an economic environment that is producing lower bids, owner organizations that use best-value procurements are sticking to their guns and resisting the temptation to pursue these extra-low bids. Among best-value owners, fewer than 10 percent agreed: "In the interest of realizing these savings, we are departing, if necessary, from best-value strategy." In fact, not a single respondent strongly agreed with the statement, and an overwhelming 67 percent either disagreed or strongly disagreed() $h \blacksquare t$)





Taking advantage to get work contracted at the

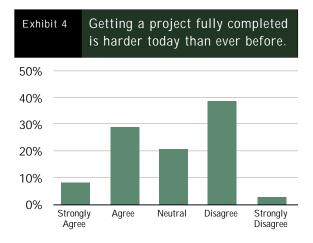
ROJECT CLOSEOUT REMAINS CHALLENGING, FOR SOME

Project Closeout

Previous CMAA/FMI Owners Surveys have reported on the growing importance owners attach to finishing projects right. Anecdotal evidence in recent years suggests that achieving this goal is becoming more difficult. Respondents to related questions on this year's survey, however, split almost down the middle. Presented with the statement, "Getting a project fully completed is harder today than ever before,"

- 38 percent agree or strongly agree
- 41 percent disagree or strongly disagree

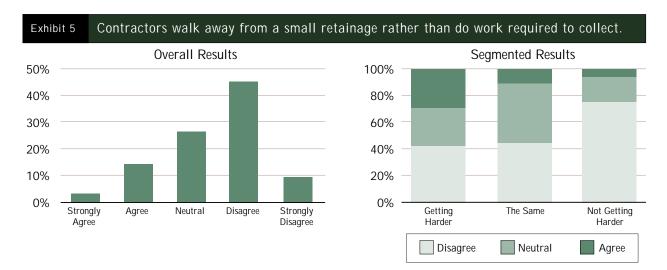
While the bimodal distribution of responses is fascinating in and of itself, it also divides respondent owners into two core groups: those who agree closeout is getting harder and those who do not agree. In addition, another 21 percent neither agreed nor disagreed, providing a baseline to compare the two groups. Looking at how these groups' experiences and perceptions differ across other questions relating to closeout and commissioning shows that while the current operating environment may not be getting any easier, for some, it is not getting harder () $h \blacksquare t_{\overline{s}}$).



Retainage

Are contractors willing to walk away from retainage amounts rather than do the work necessary to collect them? A survey question sought to determine whether the common practice of retainage, or withholding a specified amount of money from contractor payments, was an adequate strategy for assuring that unfinished work will be completed.

Presented with the statement, "Contractors will often walk away from small retainage amounts rather than do the work required to collect this money," more than half of respondents (55 percent) either disagreed or strongly disagreed with only 17 percent agreeing or strongly agreeing () $h \mathbf{v} \mathbf{t}$).



While the overall response skews largely toward disagreement, there are differences when looking at the response of the two groups: those who agree that closeout is getting harder, and those who do not agree that closeout is getting harder. The 'Getting Harder' group was more inclined to also agree with the statement that contractors are willing to walk away from small

retainage amounts when compared to the 'Not Getting Harder' group. While 31 percent of the former agreed and 42 percent disagreed that contractors are willing to walk away from small retainage amounts, only 8 percent of the latter agreed, and an overwhelming 73 percent disagreed with the same statement () $h \equiv t$).

Commissioning

Looking at specific project commissioning issues, the two issues that owners report struggling with most regularly are complete documentation and inadequate staff training for operations and maintenance, with respondents experiencing these either frequently or sometimes 70 percent and 50 percent, respectively () $h \bullet t$).

Comparing the different groups' responses to this question again reveals stark differences. Of the "Getting Harder" group, fully 87 percent said they frequently or sometimes encounter problems with documentation, and 75 percent reported frequently or sometimes experiencing issues related to adequacy of staff training. In the "Not Getting Harder" group 41 percent and 47 percent, respectively, said they rarely or never encounter these problems () $h \blacksquare t$).

Time to Adapt

The current environment may not be getting any easier, but it is at least not getting harder for some construction program owners. Variations between the two respondent groups identified in this year's survey stand as evidence that the distinction is real. While responses to the survey are unable to answer the question of how an owner moves from one group to the other, it stands as a sign that there is a better way out there, and it is in the best interests of our industry to identify that way and adapt.

AN EVOLVING VIEW OF ROJECT EXECUTION

Needs and Expectations

CM Expertise

A separate question asked owners what level of capability they needed and/or expected of their CMs in the same 16 functional areas. The basis for this question is the assumption that owners may expect CMs to be knowledgeable in a wider range of areas than those that are actually most critical to their job performance.

The findings of this question align very tightly with the previous data, insofar as transitioning to ongoing operations and maintenance, together with dispute resolution, topped the list of areas in which owners expect either expertise or "thorough working knowledge."

Some additional nuance is gained by breaking out the percentages of the two high-end responses, expertise and thorough working knowledge. The

BID ROTEST EX ERIENCES

The 2011 Owners Survey concluded with a series of questions aimed specifically at public sector owners, who made up more than half of the respondent universe. These questions are related to those that elicited owners' experiences of lower-than-expected bids, together with their willingness to depart from their usual procurement policies to seize opportunities presented by these low bids.

For the statement, "We are receiving more bid protests than we did four years ago," fully 65 percent either disagree or strongly disagree, while only 35 percent of respondents agree or strongly agree () $h \equiv t_{\infty}$).

The next statement was "More of the protests we receive today are frivolous than was the case in 2007." Again, there was a striking difference in response, with 60 percent disagreeing or strongly disagreeing compared to only 39 percent who agreed or strongly agreed.

Over two-thirds of respondents (70 percent) disagreed or strongly disagreed with the statement, "Our projects have been negatively affected by our need to manage bid protests."

As to the grounds put forward for protests, owners reported that they sometimes or frequently encountered the following:

RES ONDENT DEMOGRA HICS

The *CMAA/FMI 12th Annual Survey of Owners* had 119 owner respondents. The two largest respondent groups by type of owner were publicly traded stock corporations, representing 22 percent of respondents, followed closely by federal/national agencies, representing 21 percent of respondents. In total, public and quasi-public organizations accounted for 51 percent of respondents.

The respondents represent a broad distribution across market segments. Infrastructure represents the most represented vertical with 34 percent of respondents. This was followed by commercial/office/vertical building projects with 29 percent of respondents. Institutional building (16 percent) and energy projects (10 percent) were also significantly represented.

CONCLUSION

The 12th Annual CMAA/FMI Survey of Owners provides an opportunity to step back, look up and reflect on the evolution of the construction industry through what is changing and what is staying the same. It adds to a series of CMAA/FMI studies that have revealed a strong trend among owners to view their projects and programs more

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ARTIAL LIST OF ARTICI ANTS

Infrastructure

New York Metropolitan Transportation Authority Bridges and Tunnels U.S. Army Corps of Engineers San Diego Unified Port District Otay Water District, California American Water San Francisco Bay Area Rapid Transit MTA New York City Transit Baltimore, Maryland Department of Public Works Washoe County Public Works, Nevada Metropolitan Washington Transit Authority

Other government

Public Buildings Commission of Chicago National Oceanic and Atmospheric Administration Architect of the U.S. Capitol New York City Department of Environmental Protection Loudoun County Government, Virginia City of Clearwater, Florida City of San Antonio Department of Capital Improvements City of Loveland, Colorado U.S. Department of Veterans Affairs Town of Groton, Connecticut Public Works U.S. Customers and Border Protection Virginia Beach City Public Schools

Buildings/General J&H Unlimited Properties CityCenter, Las Vegas Northstates Utilities Fairview Health Services, Minneapolis, Minnesota Union Gas Ben E. Keith Foods The Salvation Army General Electric Shell The Doe Run Company Iowa State University University of Virginia Cornell University California State University University of Southern California Michigan State University Johnson & Johnson DTE Energy Procter & Gamble Knolls Atomic Power Laboratory

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A Jou FMI

FMI is the largest provider of investment banking, management consulting and research to the engineering and construction industry. FMI's Building Products Group provides M&A advisory, capital formation and corporate finance services for manufacturers, distributors and installers of residential and commercial building products. We have experience creating value at every stage of the supply chain for companies in:

- Strategy Development
- Market Research and Business Development
- Leadership and Talent Development

Founded by Dr. Emol A. Fails in 1953, FMI has professionals in offices across the U.S. FMI delivers innovative, customized solutions to contractors; construction materials producers; manufacturers and suppliers of building materials and equipment; owners and developers; engineers and architects; utilities; and construction industry trade associations. FMI is an advisor you can count on to build and maintain a successful business, from your leadership to your site managers.



A jou CMAA

The Construction Management Association of America is North America's only organization dedicated exclusively to the interests of professional Construction and Program Management.

The Association was formed in 1982. Current membership is more than 8,200, including individual CM/PM practitioners, corporate members, and construction owners in both public and private sectors, along with academic and associate members. CMAA has 28 regional chapters.

CMAA presents two national gatherings annually: The Owners Leadership Forum in the spring, and the National Conference &