



Oregon Department of Transportation



Design-Build: a method of project delivery used on mainstream projects for ODOT

INDUSTRY FORUM



Oregon Department of Transportation
September 29, 2005



Industry Forum Agenda

- What is Design-Build
- *New Procurement Process*
- **How To Participate**
- OTIA III Bridge Initiatives
- Upcoming Projects



How To Participate

- Design-Builders form teams of specialists that meet the needs of the Project and Agency's requirements
- The differing type and frequency of projects offer opportunities for "new comers"
- Networking – Build your team to maximize your strengths



How To Participate

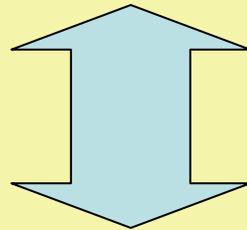
Team Dynamics

- Contractors are used to “low bid” process against completed designs (Plans and Specs).
- Designers and Environmental Consultants are used to qualification-based selection whereby the proposal sells their services.
- ROW, Utility Relocations, and Railroad Coordination are done by Agency forces or specialists under contract with Agency to their exact requirements, typically in support of the design and permitting efforts prior to construction advertisement



How To Participate

Contractors tend to rely on their Design firms to assist in Team assembly and Proposal preparation... because designers are used to Qualification-based selection as well as the pre-construction tasks.



Synergy, no other delivery method provides

Designers depend on the contractor's innovation and savvy to build the proposed solutions. It is the contractors that know how to assess risk, price work, and deliver designs.

It is the strong Teams that get the job



How To Participate

- Match DB Team members to Agency requirements and standards
- Amplify Team strengths and mitigate weaknesses
- Understand Agency's goals / objectives
- Address project specific risks with Team resources, plans, and schedules

Team members should bring **solutions** to the project requirements and risks from their past performances and lessons learned.
Agency is depending on the strength of the DB Team.



How To Participate

- Use previous procurement documents (Agency RFQ and RFP) to increase understanding
- Use previous SOQs and Proposals to see how the current participants are responding to Agency requirements
- Look to build your Team with specialists having previous experience with Agency and the DB Program
- Have one-on-one meetings with Agency to get first hand knowledge as to Agency expectations and processes associated with Design-Build
- PARTICIPATE... Learn from the experience



How To Participate

- Include familiarity with Agency's
 - Highway Design Manual (HDM)
 - Bridge Engineering Section's Office Practice Manual
 - Bridge Design and Drafting Manual (BDDM)
 - Hydraulics Manual
 - Manual of Uniform Traffic Control Devices (MUTCD)
 - Standard Drawings and Details
 - Standard Construction Specifications
 - Standard Special Provisions
 - Qualified Products List (QPL)
 - Construction Manual
 - Inspector's Manual and QCCS Manual

Available off
Agency's Web



Resources available today

- List of Participants, alphabetic order by firm
- Copies on CD of I-5 Clarks Branch SOQs
- Copies on CD of I-5 Sutherlin to Roseburg Proposals, a project that contains:
 - Bridge Replacement
 - Bridge Repair
 - Interstate Maintenance (IM)
 - Interchange Modernization Work
 - Roadway Improvements



RFQ Requirements

- Pass/Fail re. Legal, Financial, and Responsiveness
 - Proper ID of all Principal Participants
 - Demonstrate capability and willingness to enter into Contract
 - Demonstrate capability to provide bonds and other financial requirements
 - “Answer the mail” in terms of filling out and signing forms
- Quality Evaluation Factors
 - Experience – How does your Team Experience meet requirements
 - Past Performance – Demonstrate team members record of performance
 - Backlog/Capacity – Current workload and/or future commitment of resources (staff and conflicting projects)
 - Project Understanding – Knowledge and understanding of project issues, constraints, risks, challenges, and potential benefits. DB Team brief explanation of how to ensure project success
 - Connectivity, Clarity and Congruency of the SOQ



SOQ Responses

- Propose a Team that matches the project requirements with key personnel and commitment of resources to perform the work.
- Embrace the QA/QC role as a “self-policing” but independent and essential element of project delivery – Agency will walk in your footprints
- Record of Past Performance is relevant to the work associated with project elements
- Workload and Capacity Plan to perform project
- Project Understanding that reflects the project’s characteristics and risk mitigation measures



RFP Requirements

- Category I: (P/F) Firm Offer Letter, Evidence of Corporate Existence / Cert of Authority, Evidence of Legal Structure, Evidence of Authority of JV, Evidence of Proposal Signatory Authority, Proposal Security, Surety Letter of Intent
- Category II: (xxx Points) Organization & Expertise
- Category III: (xxx Points) Mgmt Plans and Schedule
- Category IV: (xxx Points) Technical Solutions
- Category V: (xxx Points) CS³ Implementation

Typically 3,000 Points are allocated to project specific issues and risks providing weights signifying Agency importance



Proposal content on PM / Admin

- All legal and financial paperwork is signed per RFP requirements (follow checklist provided for completeness)
- Organization Charts are clear, concise and responsive to project needs. Key roles and responsibilities defined to meet the single-source accountability expectations. Self-performance and subcontracting plan complies with project characteristics, risks, and scope.
- Key Personnel (form) and associated resumes contain experience that match assignment and role. If certifications are required make sure Proposals so state.
- Mgmt Plans (i.e. Quality, Safety, Environmental, Design and Construction) and Schedule are coordinated and congruent. Provide brief narratives and summaries, if requested, not full plans. Risk mitigations should reflect project knowledge.



Proposal content on Tech Solutions

- Proposed design concepts, construction staging/detours and materials chosen will:
 - Improve the long term performance of project elements
 - Enhance the maintainability of the project
 - Minimize maintenance costs; and
 - Minimize interruptions in service or maintenance of traffic
- Baseline Concept Plans include plan, elevation, appropriate typical sections for each bridge type or roadway section and the staged construction scheme
- Narratives that describe design assumptions, innovations, temporary traffic control and applicable standards applied
- Provide "Bridge Table" (form BT) completed for all bridges
- Preliminary Geotechnical Assessment that provides general understanding of the geology and subsurface characteristics, proposed site investigation plan and related issues and proposed solutions
- Quantify Interstate Maintenance (IM) elements, if required



Proposal content on CS³

- Summarize the approach for project that reflects; community character in design, enhance performance of the environment, the economy, mobility, project delivery, and provide sustainability (recyclables and reuse)
- Communication plan that includes public information development, stakeholder identification and outreach processes, and compliant resolution / feedback mechanisms
- Diversity plan that maximizes the use of subcontracts for both design and construction as well as provide workforce diversity and that commitment is applied at all subcontracting levels
- OJT / apprenticeship training approach on construction
- Preliminary Aesthetics Plan describing structural aesthetics and visual components of the Project



DB Website & Contact Info

Design-Build Website Address:

<http://www.oregon.gov/ODOT/HWY/OPD/DBprojects.shtml>

Contact:

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Thank you!
Questions?



Slide 17

KJ16

Replace with "thank you" and "questions?" if there's time for Q&A?

KJones, 8/24/2005