



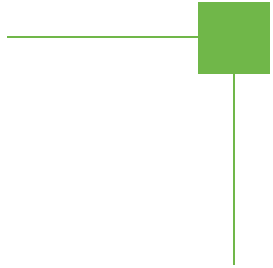

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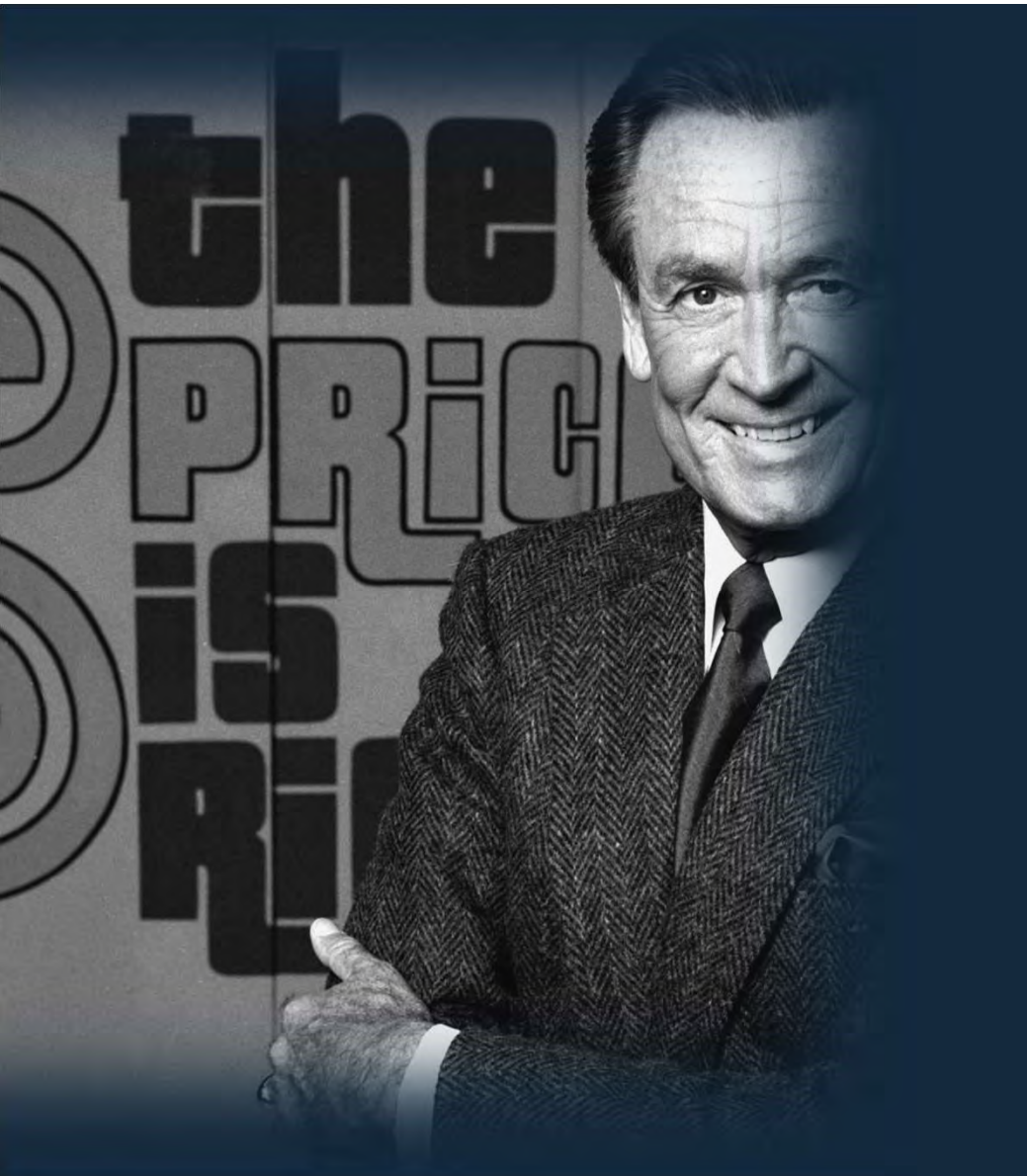
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-  Introduction
-  Main Components to project
-  Questions you should be asking
-  Tips
-  Questions & Discussion





INTRODUCTION



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PROJECT

- Complete Project
- Material Costs
- Impacted Facilities
- Land/Easements
- Consultants
- Contingency
- Funding



COMPLETE PROJECT

- Have you defined EVERYTHING?
- Do you have enough Property?
- Is this project related to another project?
- Is it funded, options?
- Clearances / Permits?



MATERIALS COSTS

- Construction is typically 2x material costs.
- Are materials available?
- Source other public bids.
- Time of construction – do you need to add escalation?



IMPACTED FACILITIES

- Does this project impact other utilities?
 - *Water*
 - *Sewer*
 - *Power*
- SCADA
- Stormwater
- Roads & access
- Federal / State



LAND / EASEMENTS

- Three Important Questions
 - *Does my project fit on my land?*
 - *Can I build my project without additional easements?*
 - *Can I access it in the future?*



CONSULTANTS

- Engineers
(civil/electrical/geo)
- Architects
- HVAC
- Specialists
(cultural/eviron/water)
- Grant administration



CONSULTANTS, CONT.

- Engineers & Architects
 - 15-20%
- Grand Administration
 - 5-10%
- Specialists
 - *Depends: get pricing early*
- \$5M constr = \$6.5M total



CONTINGENCY

- Contingency should be directly related to what you know about the details.

Funding	30-40%
Planning phase	30-35%
Concept Design	25-30%
60% review set	20-25%
Bid Set	15-20%

HINT: consider a contingency in your engineering contract.



FUNDING

- Spend money to get money
- Large project set aside 0.5-1% for a strong funding application.
- Include funding budget in total cost budget

\$5M project = \$25-50,000
funding application



SUMMARY

- Complete Project
- Good cost information
- Impacted facilities
- Land/easements
- Consultants
- Contingency
- Funding



QUESTIONS YOU SHOULD BE ASKING

- Who does my project impact?
 - *Have they been consulted?*
- Is there anything going on in the world that could affect timelines, pricing, etc.
- What other projects does the city need to complete?
 - *Should this be tied to another project?*
- Are materials available?
- Do I have enough land for the project, how about for construction?
- What permits are required?
- What does the funding agency require?



QUESTIONS YOU SHOULD BE ASKING

- How is my current infrastructure impacted?
 - Power
 - SCADA
 - Water – sewer – storm
- What do the professionals I need to hire cost?
 - *Do I have the best ones... so it doesn't cost me more?*
- Are there construction challenges that cost money?
 - *Bypass pumping?*
 - *Access?*
 - *Temporary facilities?*
- Is there anything special in my construction impact?
 - *Wetlands*
 - *Historical / cultural / archeological*



QUESTIONS YOU SHOULD BE ASKING

- Do I have enough contingency to cover unknowns?
- Do I have a plan if I end up with a little extra contingency?
- Do I need some help with funding?
 - *What can I do to increase my chances?*
- Does this project impact rates?
 - *Are we ready to educate the public on the need?*
- What is the total cost of the project?
 - *What is the cost if I don't do the project?*



TIPS

- Things rarely get cheaper over time
- Public bids are available to the public.
- Contractors can help you with pricing – and review your project?
 - *They can also help you define risk (which always costs money)*
- People want to help you... it helps them learn about your project.



DISCUSSION / QUESTIONS?

- Have ideas to share?
- Questions?



THANK YOU



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