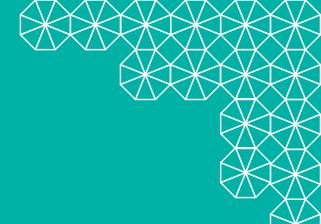


'Design-Build Done Right'

Sandra Beck AIA, LEED AP University of California, Berkeley





Why Design-Build?

TEAM

- One Integrated Project Team
- Team Continuity through Project
- Single source Contract, Contact & Accountability
- People who Know Work, Perform the Work (design-build subcontractor trades when appropriate)

BUDGET

- Increased Value Creative, Integrated Solutions
- Meet your Budget Cost Containment
 - Buy design you want, up-front know what you are getting





Why Design-Build?

- PROCESS & TIMELINE
 - Owner must define Scope & Parameters up-front
 - Selection process strategic processes result in time & effort
 - Simplify Project Process after Selection
 - Shorten / Consolidate Overall Project Schedule
- DESIGN QUALITY & EXCELLENCE
 - Collaboration breeds Creativity
 - Owner participation defines what is 'best' for the project
 - Competitions can promote Design Quality & Excellence





Owner's Reality

- PROCESS & TIMELINE
 - Intensive, initial phase of work required to get going
 - Set key project parameters before you know them
 - What is 'Bridging'?
- SELECTION
 - Multiple-stages
 - Prequalification takes time to do right
 - Competitions
- BUDGET
 - You get what you buy and you buy what you get
 - Changes cost money





Owner's Reality

- TEAM
 - D/B does not mean an Integrated Team integration & collaboration depend on *people*
 - How much transparency is there...really? Owner can get lost or left-out of process
 - Sophistication and decision-making needed from Owner
- DESIGN QUALITY & EXCELLENCE
 - Tracking Design Excellence throughout the project process
 - Decision-tracking can fall thru cracks
 - Owner visibility into Quality (design decisions, materials choices, detailing, inspections & testing)





Design-Build: UC Examples

- UCSF
 - CVRB: Design-Build MEP
 - MB Hospital Parking Garage
 - Diller 4th Floor Build-out
 - Byers Hall MRI Upgrade
 - Block 25A Academic Building
- Berkeley
 - Blue Oak Ranch Reserve
 - Jacobs Hall: Design-Build MEP
 - Berkeley Way possible D-B



CVRB: Design-Build MEP Subs

- Research Lab Building with Vivarium
- 243,000 GSF
- DD's as 'Bridging'

SmithGroup w/Jim Jennings Rudolph & Sletten Southland Industries Rosendin Electric





MB Hospital Parking Garage

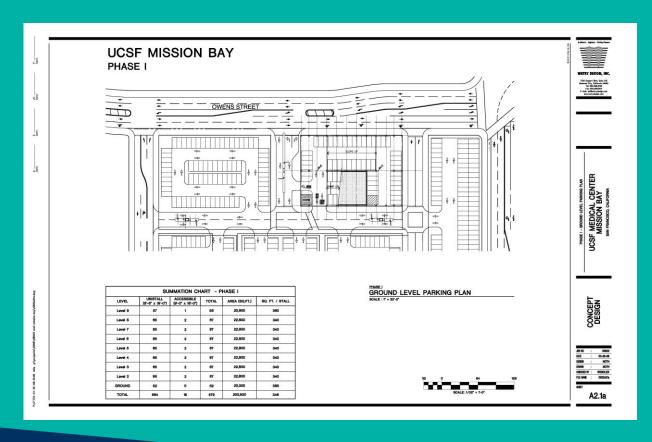
- 621 spaces, 10 levels
- Conceptual layout & performance specs as Bridging
- Prequalification
- Design Competition
 - Six Weeks
 - Stipend \$75k

WRNS Studios Rudolph & Sletten





MB Hospital Parking Garage







Diller 4th Floor Build-Out

- 22,000 GSF floorplate, labs & offices
- Bridging: Already designed, have construction docs – update for codes



Building: Rafael Vinoly Associates Hunt Construction Group

4th Floor: SmithGroup Level 10





Block 25A Academic Building



WRNS Studios Rudolph & Sletten





- Academic & Office Building
- Overall Project Timeframe: 3 years
 - Q4 2011 Q3 2014
- 1505 occupants
- ~ 263,000 GSF
- \$118.6M / \$93.8M





- Program Clinical and Academic Faculty
- Performance Based Design
 - 'Technical Criteria'
 - Design Parameters
- Prequalification
 - Two Stages
- Design Competition (incl stipend)
- Evaluation
- Best Value Selection Process



Block 25A Academic Building





Site Landscape Spaces Overview

COMPONENTS

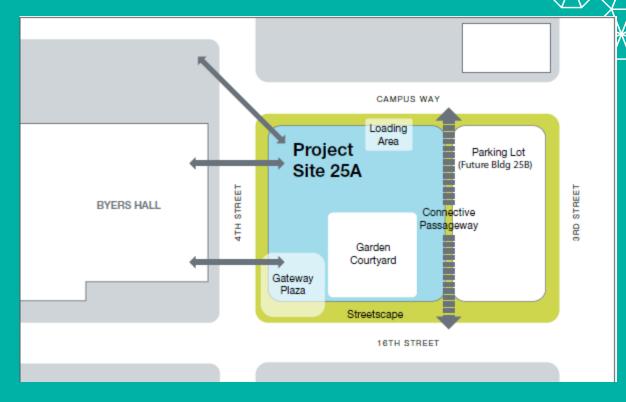
GATEWAY PLAZA

GARDEN COURTYARD

PARKING LOT

CONNECTIVE PASSAGEWAY

STREETSCAPES



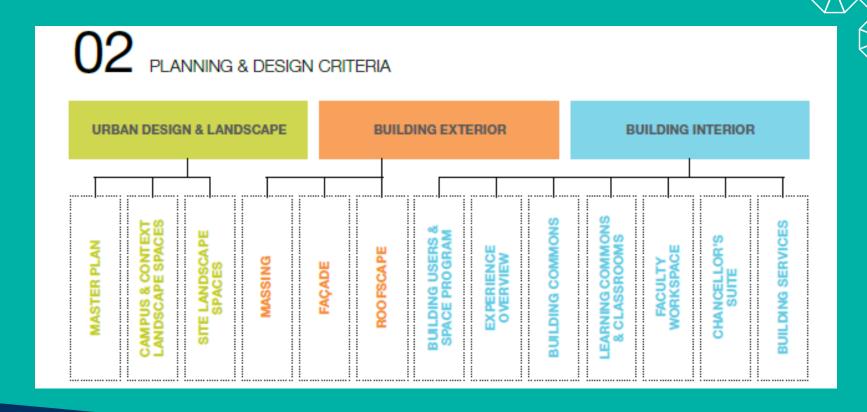


Block 25A Academic Building





Block 25A Academic Building







- Initial Phase -- 5 months
 - Program Definition
 - Technical Criteria
 - Bid Documents
 - Prequalification
- Design Competition & Selection -- 3.5 months











UC Berkeley

- BORR Blue Oak Ranch Reserve
- Jacobs Hall
 - -- Design-Build MEP, FP
- Berkeley Way -- possible Design-Build
 - Academic & Office building on NW edge of campus



Blue Oak Ranch Reserve

Development of site utilities infrastructure & residential dwellings to support occupancy expansion in a UC Natural Reserve

San Jose, CA







- Engineering building for design studios
- Design-Build MEP/F



LMS Architects McCarthy





Challenges for Owners

- Faster Decision Making Owner Process must 'keep up'
- Streamlined Design Process (less time for development)
- Who Leads Communications With Stakeholders? Typical Architect's role has changed
- Budgeting need to allow 'value-add contingency'
- Schedule define Owner's process as basis for schedule





Owner's Guidelines

- Use Prequalification process to assure consistent pool of bidders qualified for the individual project
- Front-end lead time lengthened due to complexity and detail in Prequal and Bid processes
- Design-Build is automatically 'Best Value'
- Include Competitions when Design is not yet developed
- Must maintain open stance cannot draw Prequal or Best Value processes so tightly that competent firms are excluded





Objectives & Benefits

- Accurate Buy-out at Target Cost
- Condensed Schedule
- Reduced Risk of Claims
- Improved Risk Management Process During Construction
- Integrated Team & Improved Design Process
- Faster Decision Making
- Improved Communications With Stakeholders

