



The Power of Technology | People | Integrity

2012 ASC OPEN ELECTRICAL PROBLEM

ADDENDUM THREE – **REVISION #1**
PREPARATION OUTLINE

January 12, 2012

Problem Description:

The proposed problem will be a design-build, high-density, high-rise residential project in San Francisco, CA. The project includes procurement and installation of several systems, including: switchgear and distribution equipment, feeders, branch circuit wiring, light fixtures, dimming system, and the use of various subcontractors for fire alarm and low voltage systems. Each competing team will be responsible for the design and layout for a portion of the project using design criteria and Title 24 requirements.

Each team will be provided with a set of plans, specifications, basis of design, general contractor's schedule, estimating software, contract, general conditions, and bid forms.

Preparation Outline:

Each team will be expected to use the project progress drawings (not complete) and the basis of design to design and layout the residential dwelling units including light fixtures, lighting controls, receptacles, branch circuits, and tele/data/cable T.V. cabling.

Each team will be required to turn in at least one complete copy of their design layout with the written proposal (drafted on plans).

To accomplish this work, each team will be expected to be familiar with the following requirements:

- Light fixture selection and layout
- Fixture submittals
- Title 24 requirements, residential
- Required residential branch circuits, per Title 24 per NEC
- High rise residential wiring methods
- Power device layout
- Cabling and outlets for voice/data and cable T.V.
- Residential service calculation and feeder sizing

Once the residential layout is complete, each team will be required to estimate their layout using the Accubid estimating software and partially complete estimate provided.

The project is being built under the current San Francisco Building Codes, including the 2010 California Building Code, the 2008 California Title 24 Energy Efficiency Standards, and the 2010 California Electrical Code (incorporating the 2008 National Electrical Code).



The Power of Technology | People | Integrity

Written Proposal:

Each team will be turning in a complete written proposal with the following contents:

- Design-build layout plans for power and lighting
- Circuiting requirements, including service calculation
- Bid form and proposal letter with clarifications
- Final Accubid estimate
- Partial man loaded schedule
- Fixture submittals
- Written narrative on approach to project

Interview Presentation:

Each team will be given 40-45 minutes to present their proposal and company to the Owner's project team. The purpose of this interview is two-fold. To present both the company as the best company for the project and review the project design, estimate, and written proposal.

Teams will be judged on their ability to present both their company information as well as their approach to the project.