

**Region 7 Problem Preview
"Heavy/Civil"
Sponsored by Granite Construction**

**ASC Competition 2010
Heavy/Civil Problem Preview
Granite Construction**

INTRODUCTION:

The project chosen for the 2010 Region 7 competition will require each team and team member to demonstrate skills in the following main categories:

QUANTITY TAKE-OFF

PROBLEM SOLVING/SCHEDULING

COST ESTIMATE AND PRICING

CONTRACT QUESTIONS

WRITTEN PROPOSAL/FORMAT

ORAL PRESENTATION

SCORING

Scoring criteria will be assigned to each main category and to subcategories to establish a consistent scoring guide for the panel of judges. The following scoring criteria are for the main categories:

Bid Submittal	200 points
Contract Questions	100 points
Takeoff/Estimate Items	1500 points
Schedule	100 points
Written Proposal-Binder	100 points
Oral Presentation	500 points
Total	2500 points

ENVIRONMENT:

The oral presentation environment will emulate a typical bid review, discussion and presentation among fellow company employees and senior management. The bid opening has been planned to simulate that of an actual bid process. Note – Follow the bidding information in your bid documents and specifications.

- DISTRIBUTION OF MATERIALS (6-6:30 AM)
- PREBID CONFERENCE (8:00 AM)
- BID/PROPOSAL PREPARATION (16 Hours)
- SUBCONTRACTOR/SUPPLIER QUOTATION SOLICITATION (3-10:00 PM)

- WRITTEN PROPOSAL SUBMITTED - BID OPENING (Check Bid Documents)
- PRESENTATION MATERIALS SUBMITTED (12 noon on Day 2 of competition)
- ORAL PRESENTATIONS (Start at 1 PM on Day 2 of competition)
- PROBLEM OVERVIEW AND DEBRIEF (8:00 AM Day 3- Room TBA)
- AWARDS PRESENTATION (TBA)

PROBLEM:

The problem will involve application of scheduling techniques, excavation, pre-stressed concrete placement, asphalt paving, concrete paving, utilities, traffic control, and conventional concrete for a heavy civil project. The successful team will be required to demonstrate: full knowledge of the plans and specifications, problem solving and method analysis, technical ability, cost analysis and communication skills.

PREPARATION:

Teams and team members are advised to prepare for the competition by utilizing the following skills.

I. QUANTITY TAKE-OFF

A. Earthwork, concrete, reinforcing steel, pipe, paving, etc

II. PROBLEM SOLVING

B. Specification reading, plan reading, method analysis, scheduling, etc.

C. Construction methods, concrete placing, excavation planning and layout, equipment analysis, etc.

D. Basic understanding of portable concrete and asphalt plant operations.

III. COST ESTIMATING

E. Labor, material, equipment, subcontract analysis.

F. Production calculations, crew analysis.

G. Audit trail, presentation organization, and readability.

IV. PRICING

H. Unit pricing extension, overhead and profit, use of estimating spreadsheet.

I. Job in-directs.

J. Error avoidance.

V. CONTRACT

K. Special provisions.

L. Contract review.

M. Submit proper bid package.

VI. PROPOSAL PRESENTATION

N. Project overview, problem solutions, schedule, etc.

O. Verbal skills, presentation graphics, charts, etc.

P. Logic, order, clarity, technical accuracy, etc.

REGION 7 HEAVY CIVIL PROBLEM RULES:

The following rules will pertain to all teams competing in the Heavy/Civil Division.

- I. Teams may have a maximum of six members.
- II. Once the problems have been distributed each team will be on an honor system regarding outside help. No one is allowed in the designated hotel room, during the 16 hours to prepare the problem solution and the oral presentation preparation, except the six-member team. This includes faculty, coaches, friends, and spouses, etc. The judges will be making several trips to the individual team rooms throughout the competition. Failure to meet this requirement will result in disqualification.
- III. Each team will be allowed to use whatever computer equipment they bring to the competition site per Region VII rules. Take note, the proposal preparation can be done with a calculator and a simple word processing program.
- IV. All teams must stay in their hotel room during the scheduled oral presentations until their time to present. As mentioned above, only the six-member team will be allowed in the room.
- V. Written proposal documents, working papers, support data, and bid forms will be turned in together, for review by the judges, at bid opening. This means the doors will shut and if you are not inside we will consider your bid non-responsive. For scoring purposes this is a 200-point deduction from your score. Please note there will be no opportunity to submit any required information after the bidding deadline.
- VI. Each team will be allowed a total of 30 minutes (presentation and questions). Please be advised, you must leave at least 12 minutes for questions by the judges. Failure to do so will result in a 200 point deduction off your oral presentation score.
- VII. All teams will submit oral presentation materials to the judges at noon on the second day of competition. Teams will be limited to only those items submitted for use during their presentation, no exceptions.
- VIII. Only students, faculty, friends and spectators associated with the presenting school will be allowed to view the team presentation. Please be on time as the doors will close promptly and will not reopen until the end of the presentation.
- IX. The last rule, but most important, have fun!