# CEE 4333 - Estimating Planning and Control

Fall 2006 Amlan Mukherjee Homework 1 Homework due: 09/27/06, 5pm

September 12, 2006

### Problem 1

Review the bids included in Appendix A. Which one is the lowest responsible bid? 10 Points Are there any clerical mistakes in the bids? If so, would they affect the selection of the lowest responsible bid? Why or why not?

### Problem 2

Perform a payment schedule calculation taking bid #4 (Appendix A) as the owner's 10 Points estimate, and bid #2 (Appendix A) as the contractor's estimate. Is there evidence of an unbalanced bid? Why or why not?

## Problem 3

The CEO of the Denver Construction Company is concerned about the fact that the 10 Points company is bidding a little bit too high in the latest projects, thus reducing their competitiveness. Therefore, she has ordered cost control audit reports in several ongoing projects. Calculate the cost audit report for one of those projects based on the information provided in Table 1 Does the report confirm the CEO's worries?

Division	Estimated	Percentage of	Cash
Number	Total Cost	Completion	Expenditures
1:	$135{,}500$	50	60,600
2:	$120,\!600$	95	125,500
3:	607,800	45	$210,\!800$
4:	$245,\!400$	25	$52,\!900$
Others:	2,748,500	0	0

Table 1: Available Data

Estimated total cost, percentages of completion and expenditures by division: Inventory Valuation:

- 8,000 concrete masonry units \$1.5 per unit
- 7,500 units of lumber for forms \$0.5 per units
- 350 sheets of plywood for forms \$30 per sheet

#### Accounts Payable:

- \$4,000 for concrete masonry units
- \$1,000 for plywood sheets
- \$35,000 for concrete pouring