CEE 4333 - Estimating Planning and Control

Spring 2006 Amlan Mukherjee Homework 6 Homework due: 04/05/06, in class

March 22, 2006

Problem 1

Develop a cash flow for the project information provided below. For this project 15 Points

Activity	Duration	Predecessors	Cost
Mobilize	2	-	\$5,000
Stock Materials	4	Mobilize	\$22,000
Clearing and Grubbing	6	Mobilize	\$8,000
Grading of Road	7	Mobilize	\$2,500
Finish Grade	5	Stock Materials,	\$3,000
		Clearing and Grubbing	
Prefab Bleachers	16	Stock Materials	\$18,000
Landscape	12	Stock Materials	\$35,000
		Clearing and Grubbing	
Pave Road	8	Grading for Road	\$30,000
Place Tennis Court	10	Finish grade	\$20,000
Erect/paint bleachers	7	Prefab bleachers,	\$16,000
		Clearing and Grubbing	
Curbing	5	Landscape,	\$6,000
		Pave roadway	
Final Inspection/Clean-up	3	Place tennis court,	\$4,000
		erect/paint bleachers,	
		curbing	

Table 1: Cost for the Activities of a Sports Facility Project

the total expenditures amount to 150,000 and the receipts are 170,000 for a total profit of 20,000. The retainage is 10% and the owner makes payments on the 10th and the 25th of the month.

- Find the total duration of the project
- $\bullet\,$ Perform a cash flow analysis and find the net worth of the profit for interest rates of 6% and 12%.