The Orthopedic Clinic building that built in 2010, Citraland Surabaya is a 4 (four) stories concrete structure building with total area of 891.2 m². This final project is to use the building to plan its structural construction in order to calculate total construction cost and duration based on each construction activity needed to build just its structure.

Productivity and resources needed for each construction activity must be calculated using the modern analysis and based on 3 (three) contractor experiences in order to find its cost and productivity. Each construction activity should be described in detail its movement both man power and equipment, in order to get total construction duration. Productivity of an construction activity is based on reference and constructors’s experience data. Having known the duration and productivity, each construction cost can be estimated accordance with a chosen construction method, and thus the total construction cost and duration can be
determined. Theoretically, this construction cost must be lower than total cost calculated using standard building construction cost unit published by the Provincial Government of East Java year 2013 (HSPK 2013).

The knowledge of cost and productivity in building construction is very needed by a building technician in site. By using an application software of MS Project 2010, the calculated cost and duration of each construction activity can be used as an input with a chosen construction method and it will yield interconnected activities as a network planning that has total duration of 6 (six) months and 22 (twenty-two) days with total cost of IDR 4,031,328,708.59

Key word: Construction Productivity, construction cost, construction method