

A STUDY INTO FOUNDATION DESIGN TO MINIMIZE THE IMPACT OF EARTHQUAKE

Prepared by: Wong Yeu Liang

ABSTRACT

The purpose for us to do this project is for us to show the knowledge that we had learnt in Inti in the past and ass more outside knowledge to share with our classmates and our lecturers. The purpose why I choose this title is to learn the methods of different type of foundations minimize the impact of earthquake.

In this project, that has covered the knowledge of different type of foundation that I have learnt in the previous, which are:

1. Pad and strip foundation
2. Raft foundation
3. Pile foundation

And two types of foundation design methods that I have learnt from internet and from my survey are:

1. Rubber bearing foundation design
2. Roller ball and spring foundation design

The scope of this topic is:

- to find how the earthquake impact the building
- to find the different type of foundation design that performs during earthquake
- to find the ways how they minimise the impact o earthquake
- to introduce the method that is using to minimize the impact of earthquake

It also cover the case study that i have done, those are Case Study of Putrajaya International Convention Center, KLCC (twin towers), and the Kansai International Airport in Japan.