MODIFICATION DESIGN OF A EDUCATION DEPARTMENT & CULTURE STRUCTURE USING SPECIAL MOMENT RESISTING FRAME SYSTEM

Student Name : Andik Tri wahyudi  
Reg. Number : 3108 100 506  
Department : Civil Engineering FTSP-ITS  
Supervisor : Triwulan, Ir.Dr.Prof

Abstract

Education Department & Culture building’s structure will design at the area that have high risk of earth quake in quake zone 5, which is in Jayapura. In this Final Assignment the redesigning of the building structure using special moment resisting frame methode.

The modification for this building are the number of story from 2 story become 7 story, simplification some unsymmetrical primary structure location, and alteration room for elevator. This building were designed using “Tata Cara Perhitungan Struktur Beton Untuk Bangunan Gedung (SNI 03-2874-2002)” and “Tata Cara Perencanaan Ketahanan Gempa Untuk Bangunan Gedung (SNI 03-1726-2002).

Hopefully this Final Assignment can be the standard of building design procedure using special moment resisting frame system.

Key words : Modification, Education Department & Culture, Spesial Moment Resisting Frame System(SMRFS).