Company: Company Engineer: Name
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 7) 9:58:06 a. m. 27/06/2025
File: C:\IE REGIDOR\MOD7.rcb

REDUNDANCY ANALYSIS

STORY-STRENGTH REDUCTION DUE TO REMOVAL OF CRITICAL ELEMENT

	E A R T H Q U A K E - X				E A R T H Q U A K E - Y			
Story	Vi	Vi/Vb	Crit.Element	Ve/Vi	Vi	Vi/Vb	Crit.Element	Ve/Vi
1	6.4	1.00	BEM:M(7-9)	0.45	6.0	1.00	BEM:9(M-K)	0.49
MAXIMA				0.45				0.49

NOTE: Shear values are divided by R

Removal of a critial element on a story supporting more than 35% of Vb (Base Shear) would reduce the story strength by more than 33%. Thus SYSTEM LACKS REDUNDANCY!!!

Proposed Reduction Factor for Lack of Redundancy: Ørx = 0.75 Øry = 0.75