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VULNERABILITY REDUCTION SOLUTIONS		Date: VRS Code: Author: Sheet:	10/4/2018 SBF UNIANDES 1 OF 1
REINFORCED CONCRETE BUILDINGS			
GENERAL INFORMATION			
Strengthening Intervention:	Steel Braced Frames		
Applicable Building Types: 1. Main structural system: RC1 X 2. Height range: . . 3. Seismic design level: Poor (PD) X	RC2 RC3 X Low (LR) X Low (LD) X	RC4 Medium (MR) X Medium (MD)	RC5 High (HR) High (HD)
 -Excessive building flexibility; -Soft story; -Captive column; -Low horizontal ca STRUCTURAL IMPROVEMENTS AFTER STRENGTHENING Stiffness increase. Ductility increase. Fragile collapse mechanism avoided. 	apacity and resistance.		
STRENGTHENING INTERVENTION DESCRIPTION			
The proposed strengthening intervention provides stiffness to the building and eliminate the short column (or weak story) collapse mechanism. In first place it is necessary to select at least two bays in the longitudinal direction, one in each principal axis, to reinforce the building. In these bays, remove non-structural elements and prepare RC beams and columns for connections. Construct and install modular steel braced frames between columns and beams. After this, reconstruct non-structural components in selected bays. Final step is to isolate and retrofit non-structural masonry walls in the remaining bays. Verify the need to rebuild or reinforce the foundation of the building.			
ILLUSTRATIVE FIGURES			





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D7_RC_Steel_Braced_Frames_V3