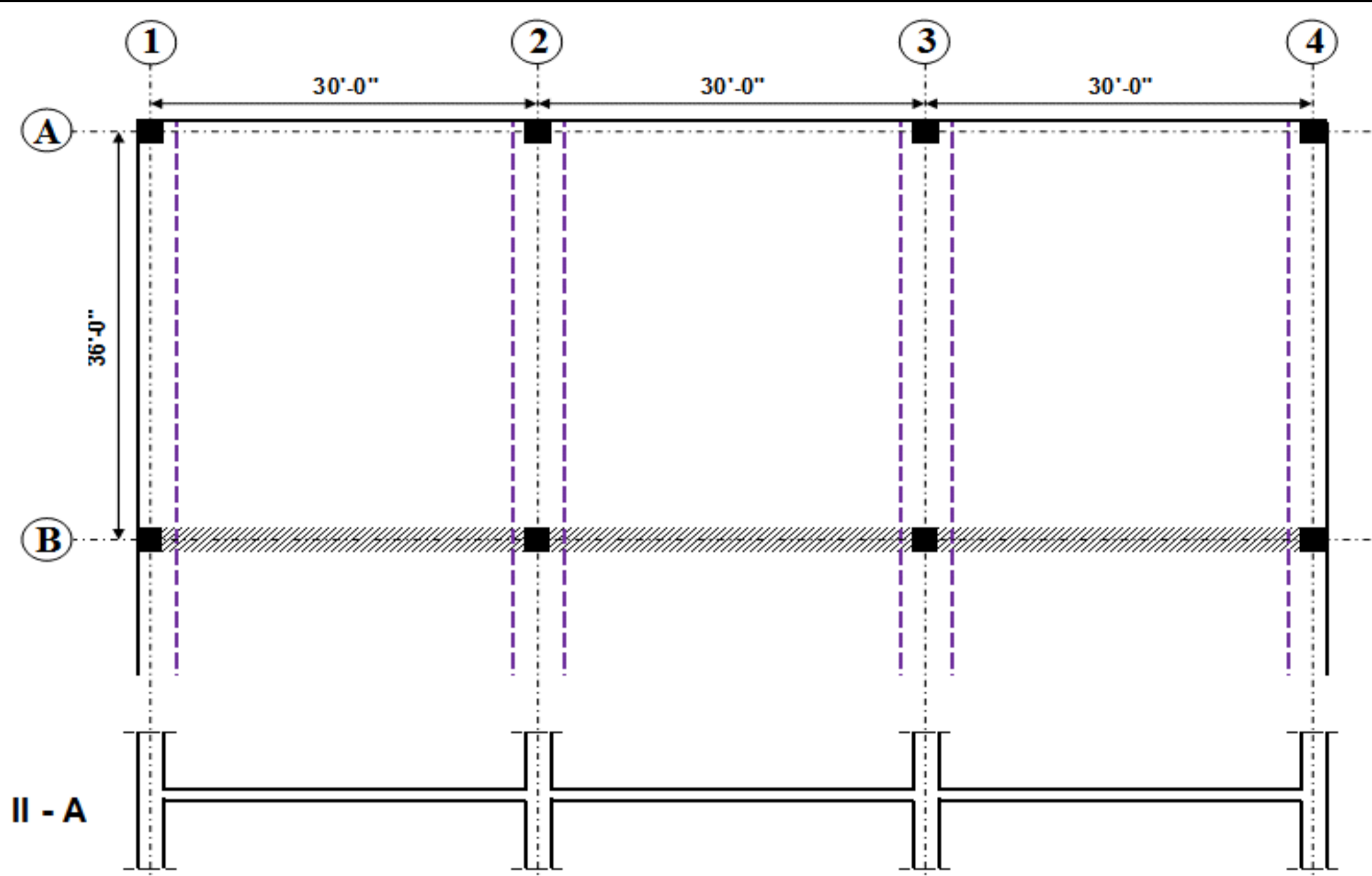
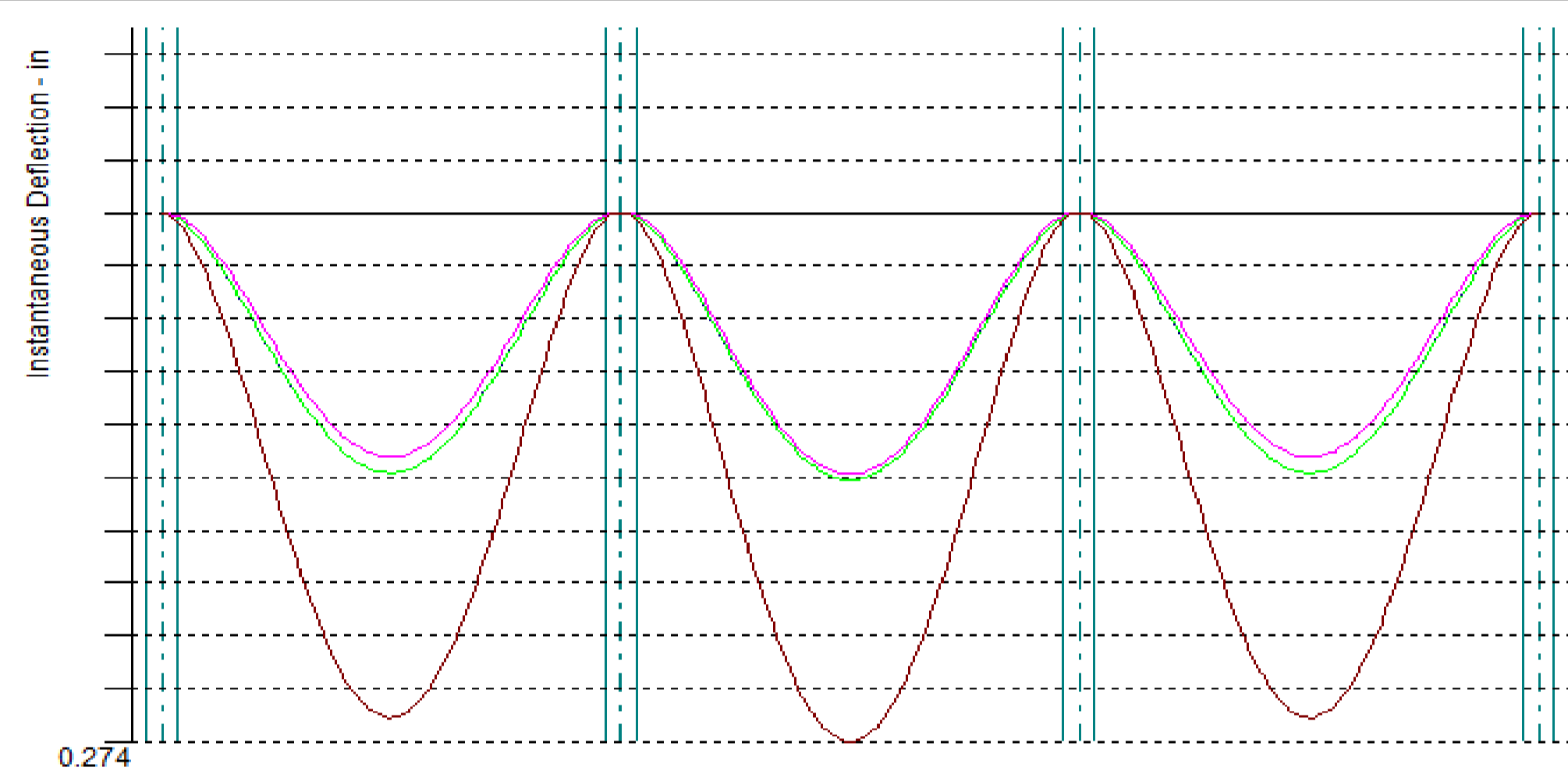


# STRUCTUREPOINT: spSlab/spBeam Deflection Consideration

Modeling Assumptions		Deflection Notes	System
Pin-Supported	Transverse Beam <u>NOT</u> Modeled	Slab has constant effective moment of inertia throughout the span based on the slab geometry.	
Pin-Supported	Transverse Beam Modeled	Modeling of the transverse beam increases the flexural stiffness at span ends significantly increasing the span average effective moment of inertia. This leads to significantly lower deflection values while the moment diagram remains relatively unchanged as compared to when transverse beam is not present	

# STRUCTUREPOINT: spSlab/spBeam Deflection Consideration

Modeling Assumptions		Deflection Notes	System
Column-Supported	Transverse Beam <b>NOT</b> Modeled	Slab has constant effective moment of inertia throughout the span based on the slab geometry. The column stiffness as compared to slab stiffness, is large creating near fixed end effect.	
			
Column-Supported	Transverse Beam Modeled	Modeling of the transverse beam increases the flexural stiffness at span ends significantly increasing the span average effective moment of inertia. This leads to significantly lower deflection values while the moment diagram remains relatively unchanged as compared to when transverse beam is not present	