

# Model Changes

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## Swap Rocker Bearing Locations

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The rocker bearings are on the other 4 girders.

Center Pier Links

## Model Rocker Bearings with XY Rigid Links

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The pinned bearings used, release all rotational degrees of freedom. This is not a realistic representation of the true behavior of a rocker bearing. A rigid link in the XY plane will more properly release longitudinal translation. Furthermore, these new links should only extend from the bottom of the I-girder to the top of the box-girder. New nodes with rigid links to the component center nodes may need to be created to accomplish this.

Rocker Link

## Model Elastomeric Bearings Differently

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New nodes will need to be created at the bottom of the I-section girder (there appears to be a node already at the top of the box girder).

Bearing Locations

Existing node stiffness should be removed. This method of simulating a flexible connection between components is incorrect.

Node Stiffness

Rigid links will have to be modified such that they go from the center of the I-section girder to the bottom node, and the center of the box girder to the top node. The two nodes (girder bottom and box-girder top) will be connected with a pinned link and a spring-damper element.

Spring-damper element

The same process should be completed on the elastomeric bearings between the pier columns and the box-girder.