

Jackson Crossing

Alexandria, Virginia

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Structural Option

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The Pennsylvania State University
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Construction Management Breadth

Breadth Topics:

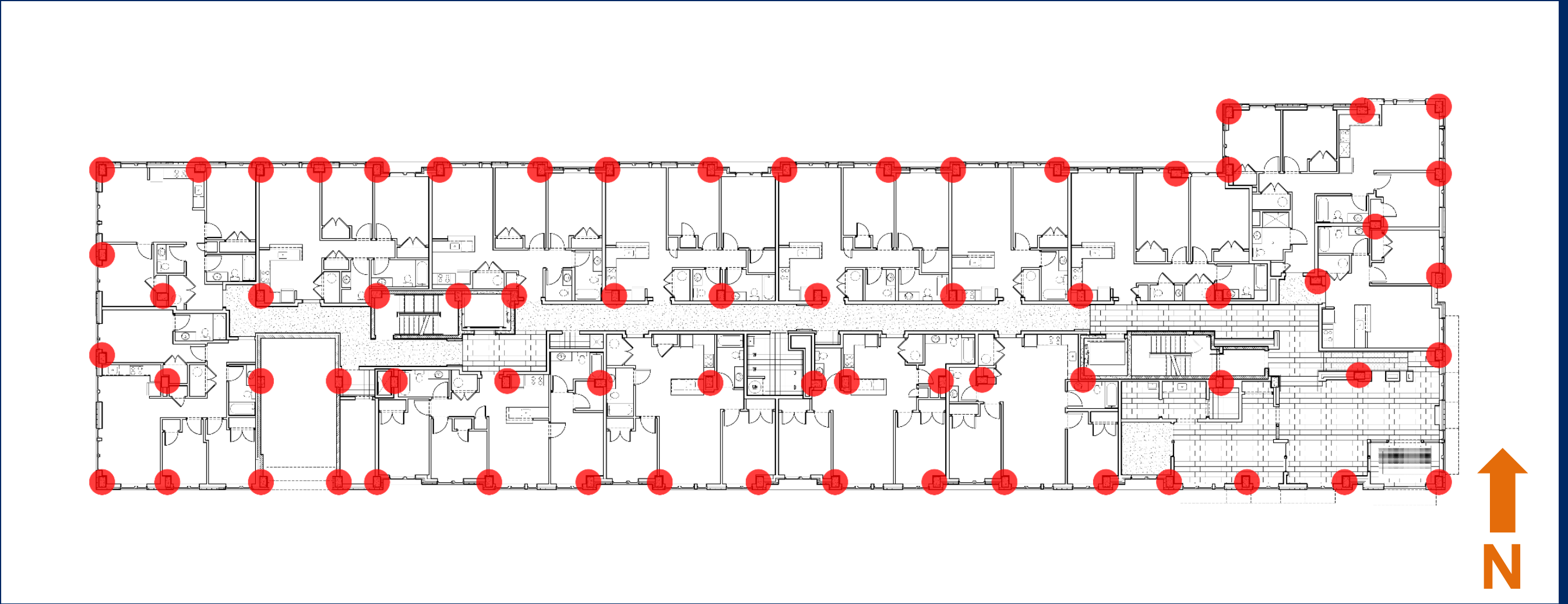
- Impact on:
 - Structural cost
 - Critical Path

Other Breadth Topics:

- Acoustical Consideration
 - Impact on:
 - STC Rating
 - IIC Rating

Gravity System Redesign

-Location of Columns on Plan



Lateral System Redesign

- Moment Frames are located on exterior of structure to reduce twist
- Difference between C.O.R. and C.O.M.
 - For first 3 stories
 - ~3 ft in X direction
 - ~1 ft in Y direction
 - For Fifth and Roof
 - ~3 ft in X direction
 - ~1.5 ft in Y direction

-Location of Moment Frames on Plan

