

*Viktoria:
Unique Post-Tensioning Design
Creates Column-Free Interior
In Residential High-Rise*



Cary Kopczynski, PE, SE



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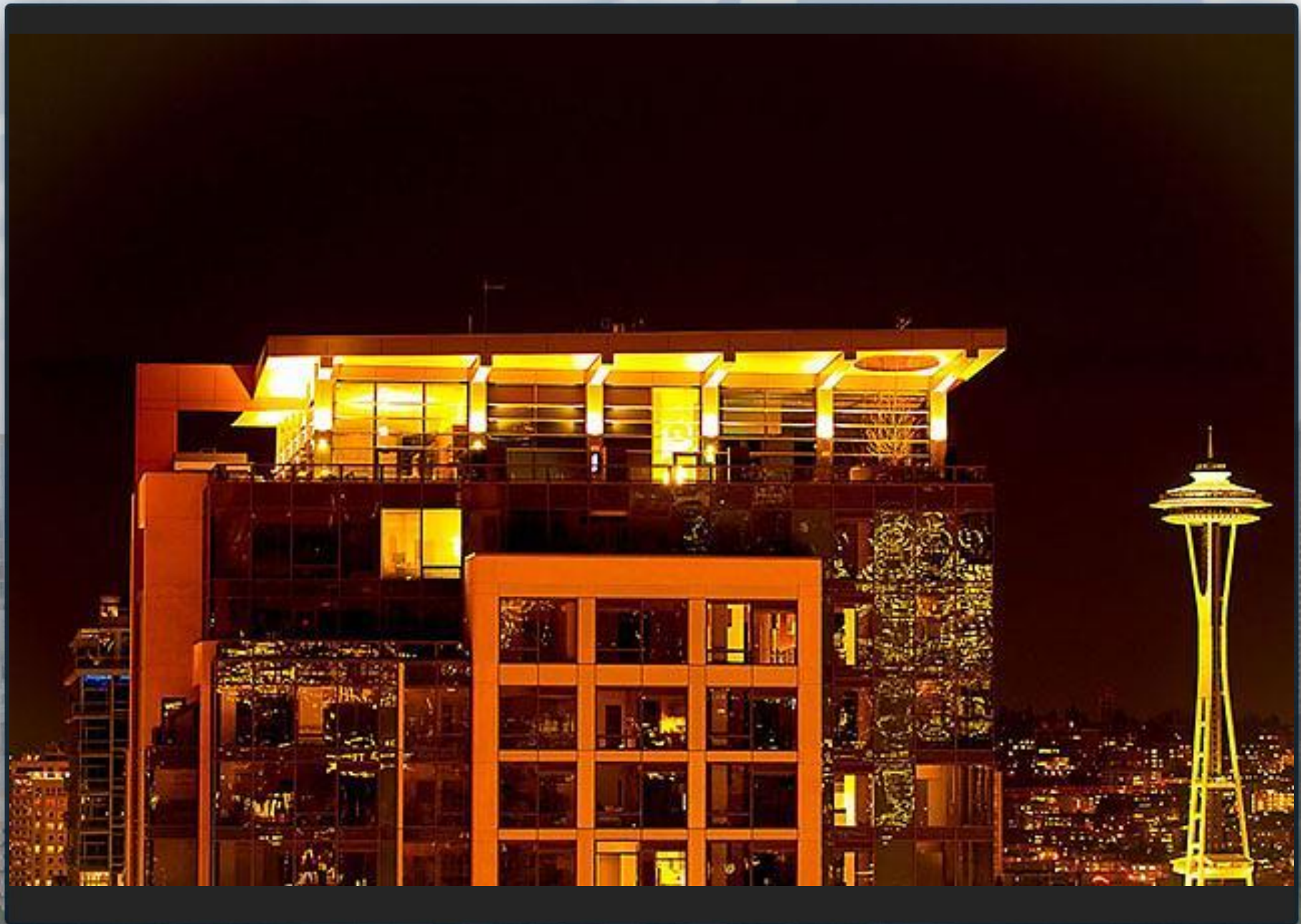
VIKTORIA

SEATTLE



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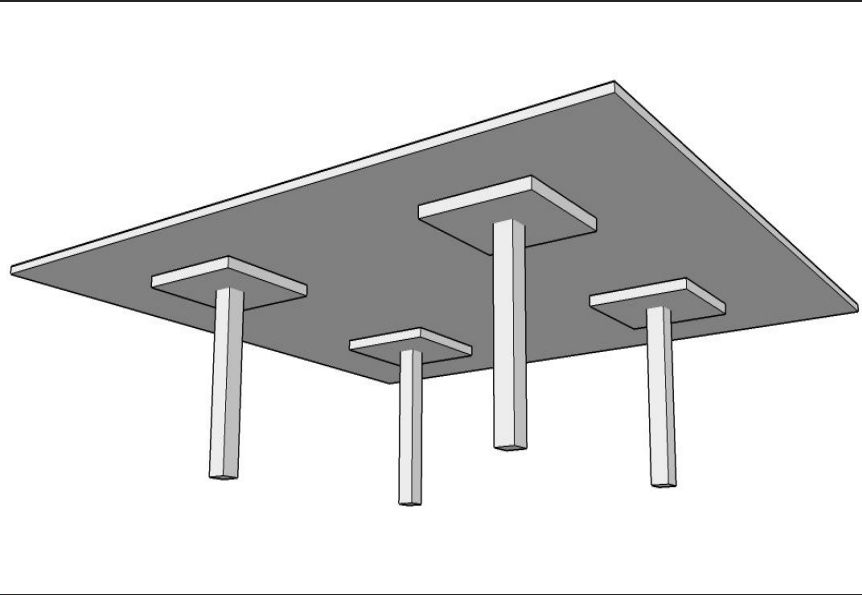
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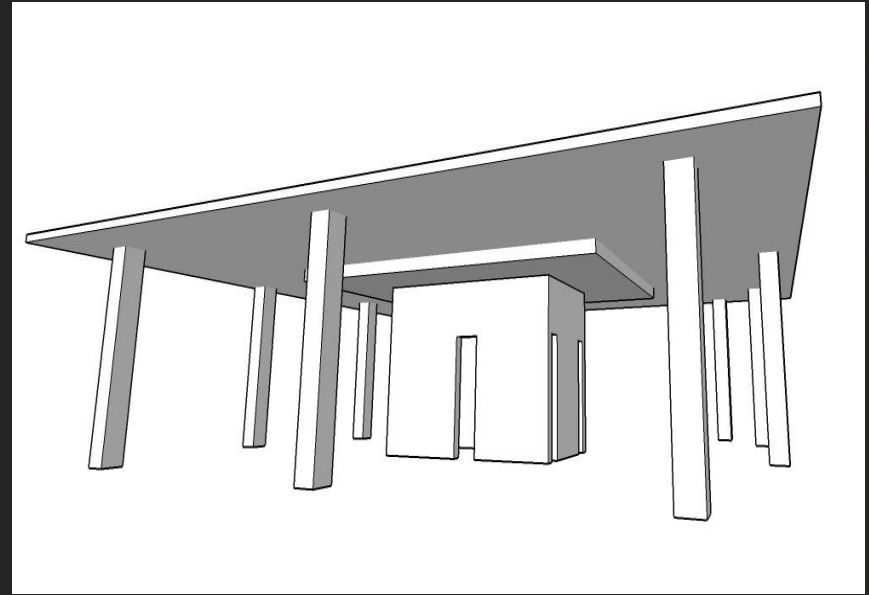
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DROPHEAD CONCEPT

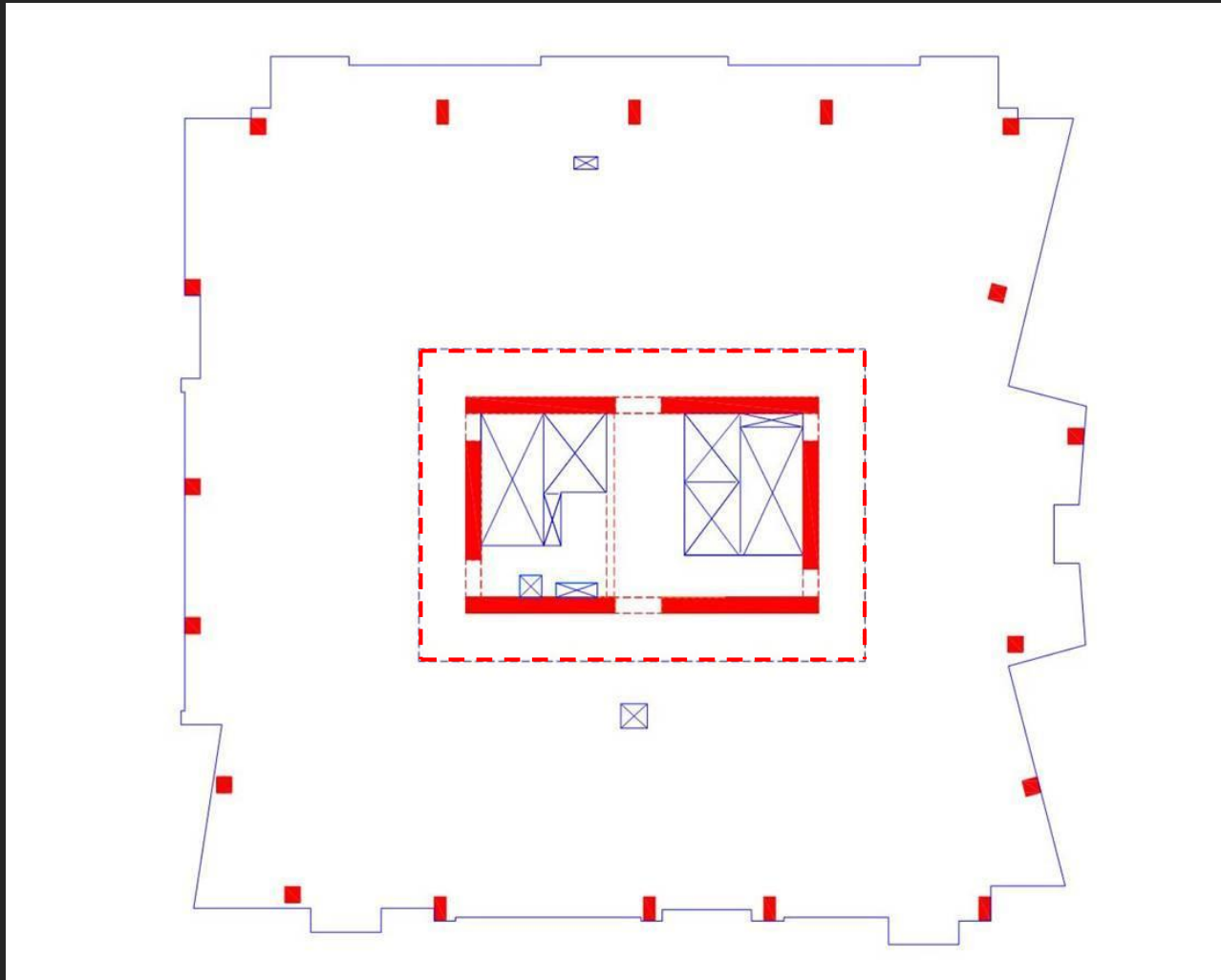


*COLUMN
DROPHEADS*



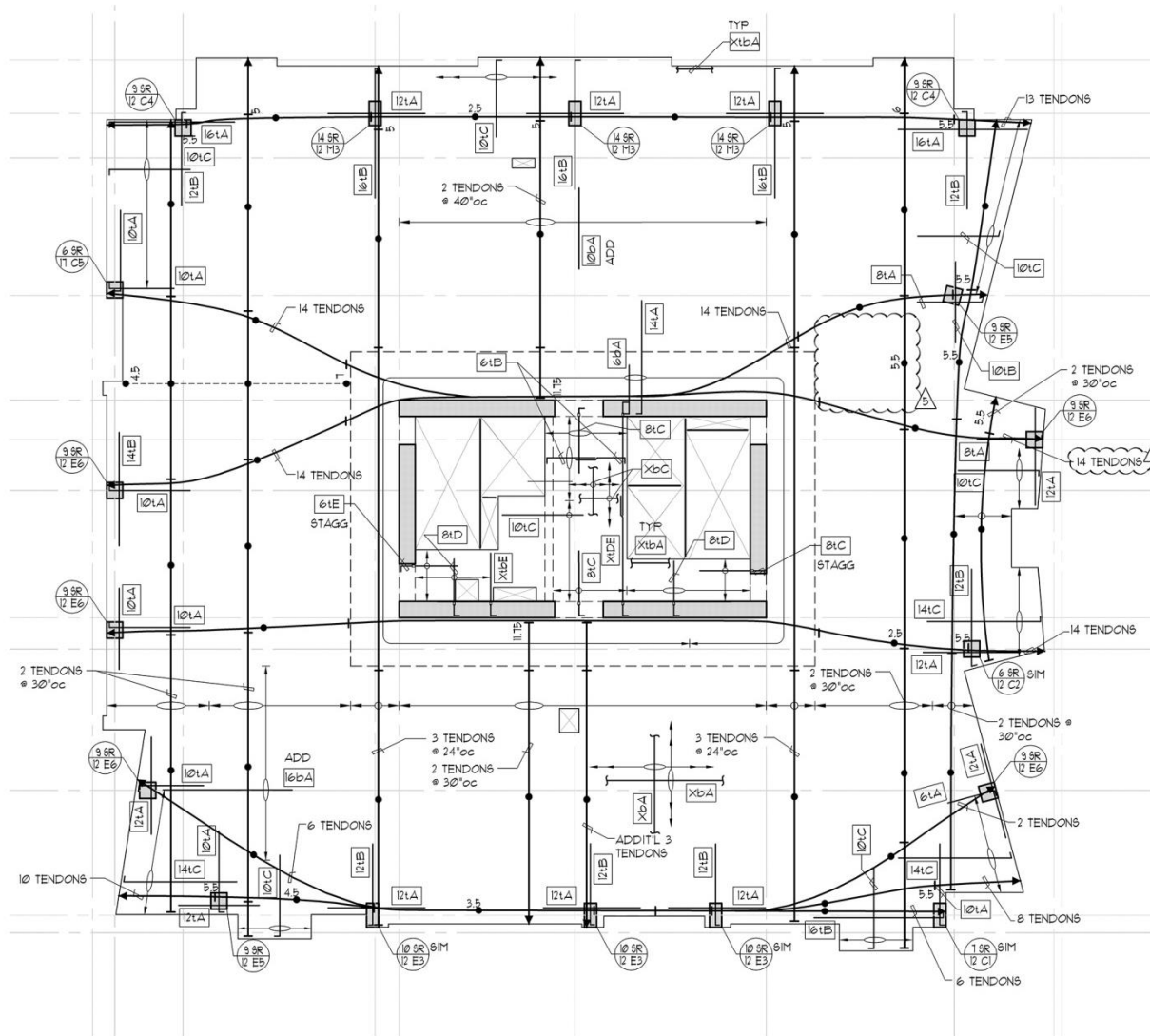
*CORE
DROPHEAD*

CORE DROPHEAD



BENEFITS OF CORE DROPHEAD

- ELIMINATION OF INTERNAL COLUMNS
- ELIMINATION OF TRANSFER BEAMS
- IMPROVED CORE EFFICIENCY
- IMPROVED UNIT LAYOUTS & PARKING EFFICIENCY

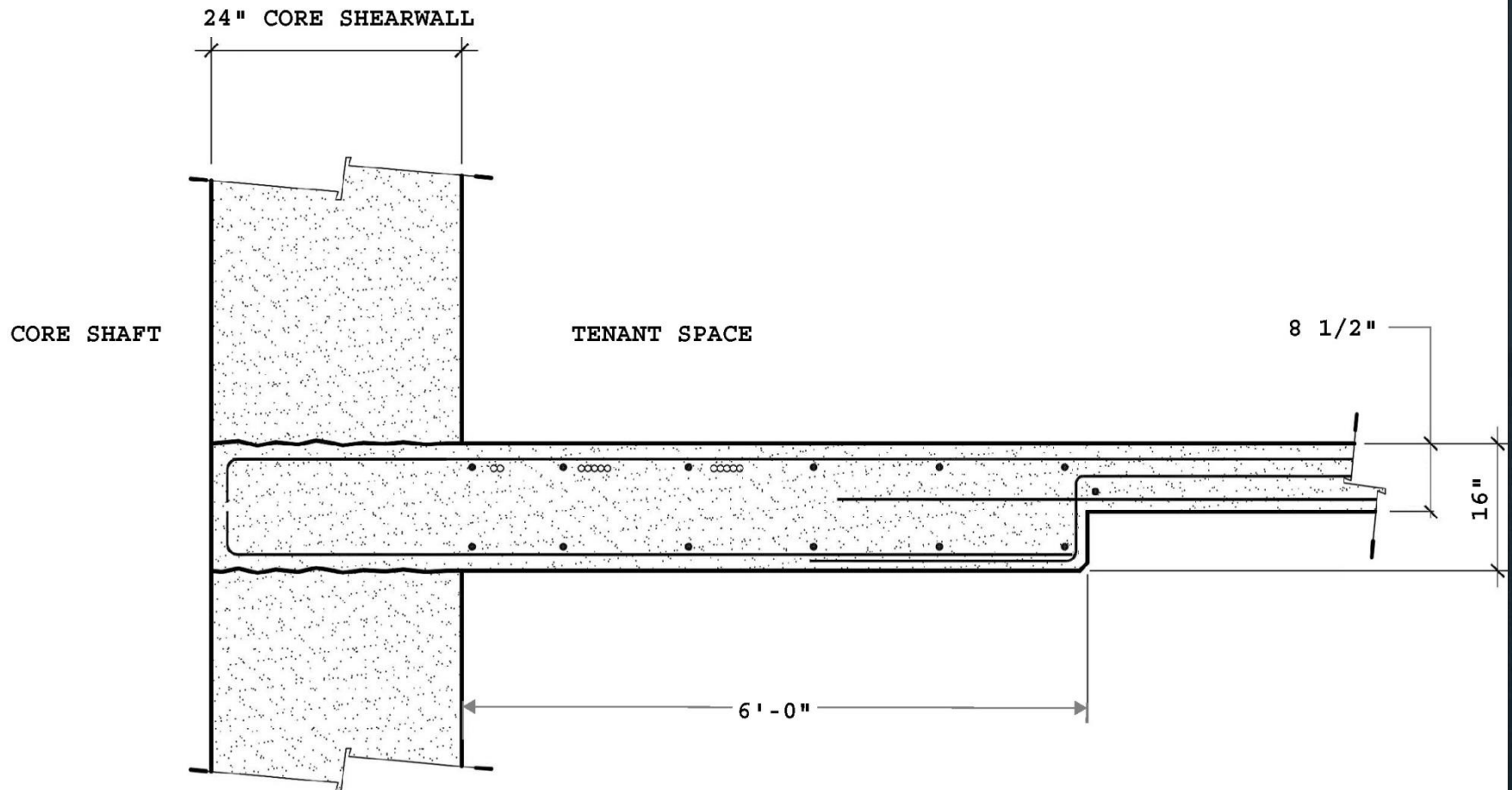


LEVEL 14-21 REINFORCING PLAN

3/32" = 1'-0"



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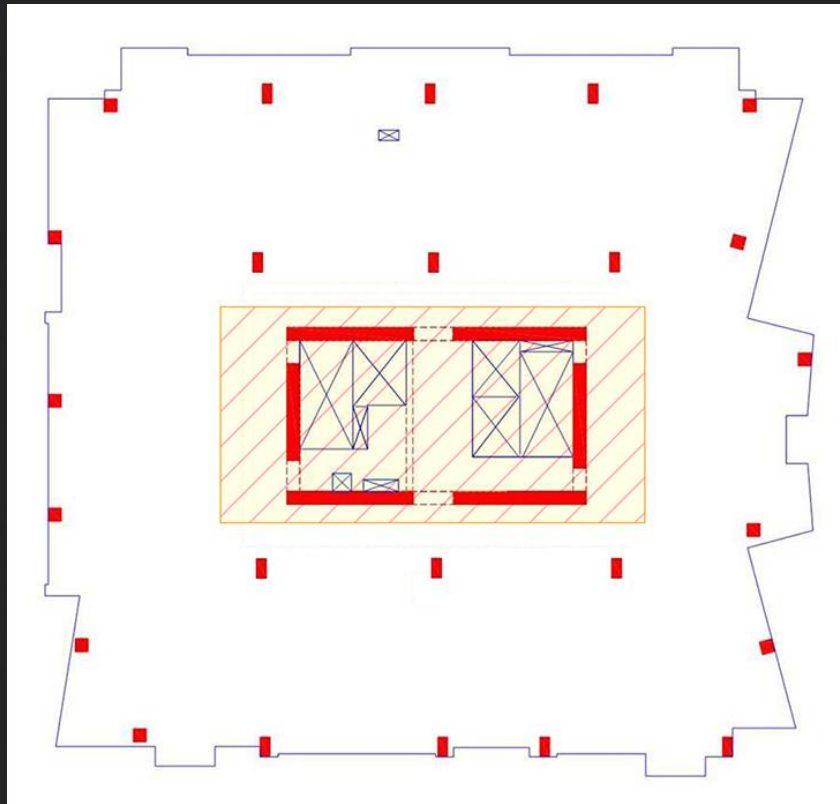




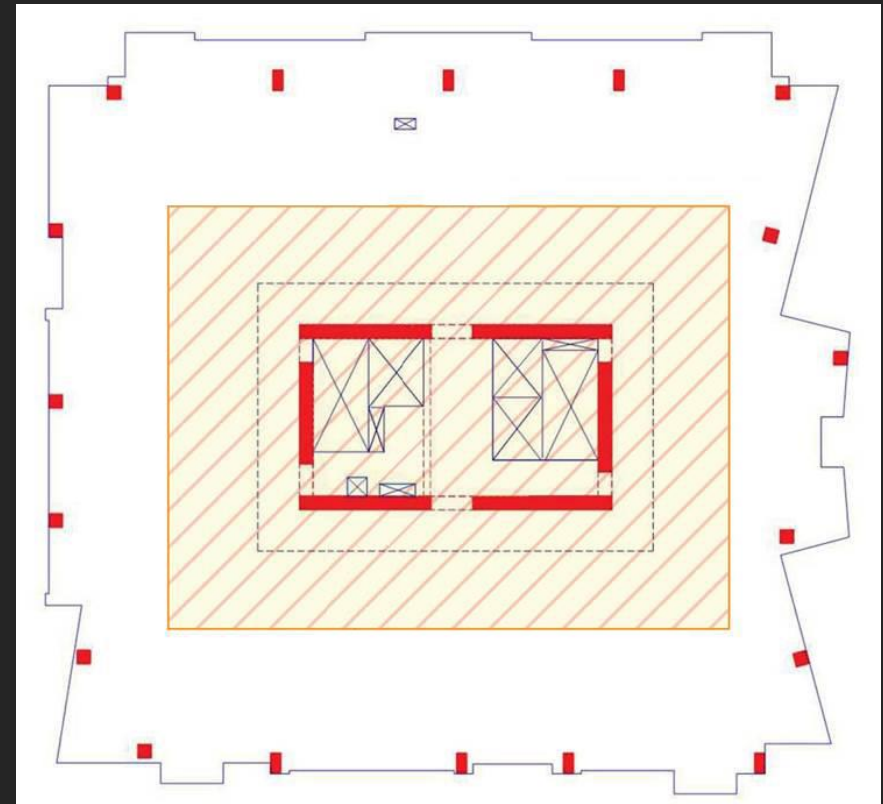


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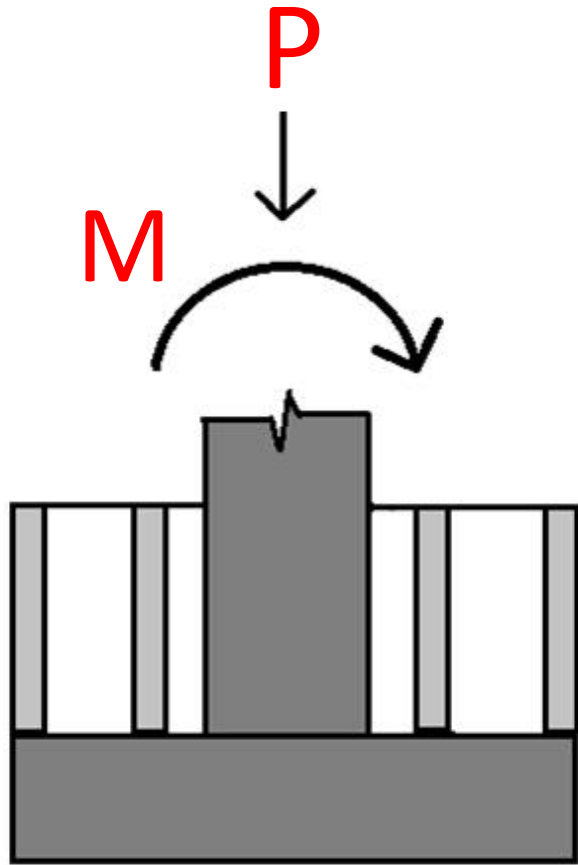
GRAVITY LOAD TRIB AREAS



Without Drohead

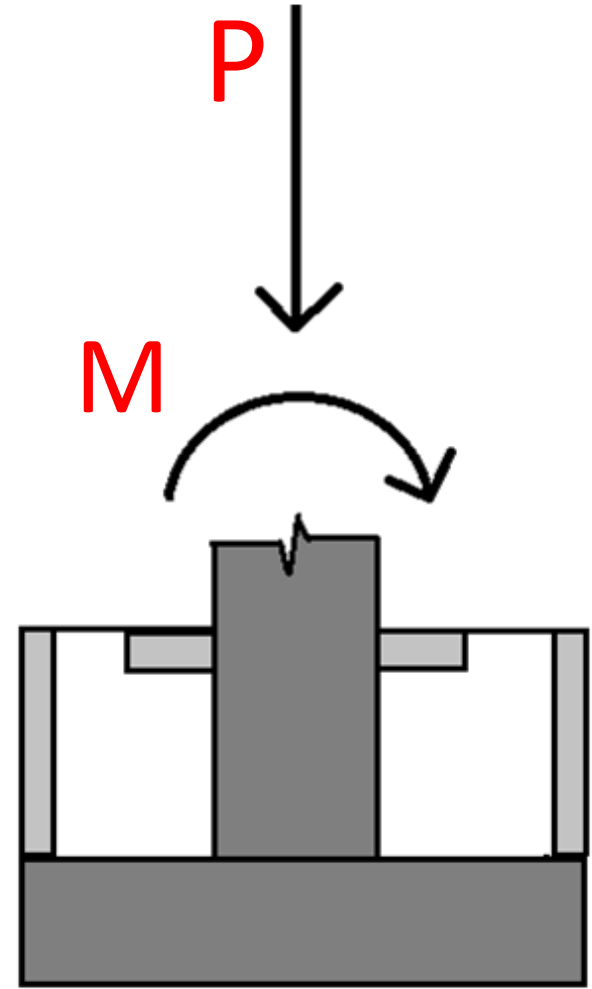


With Drophead

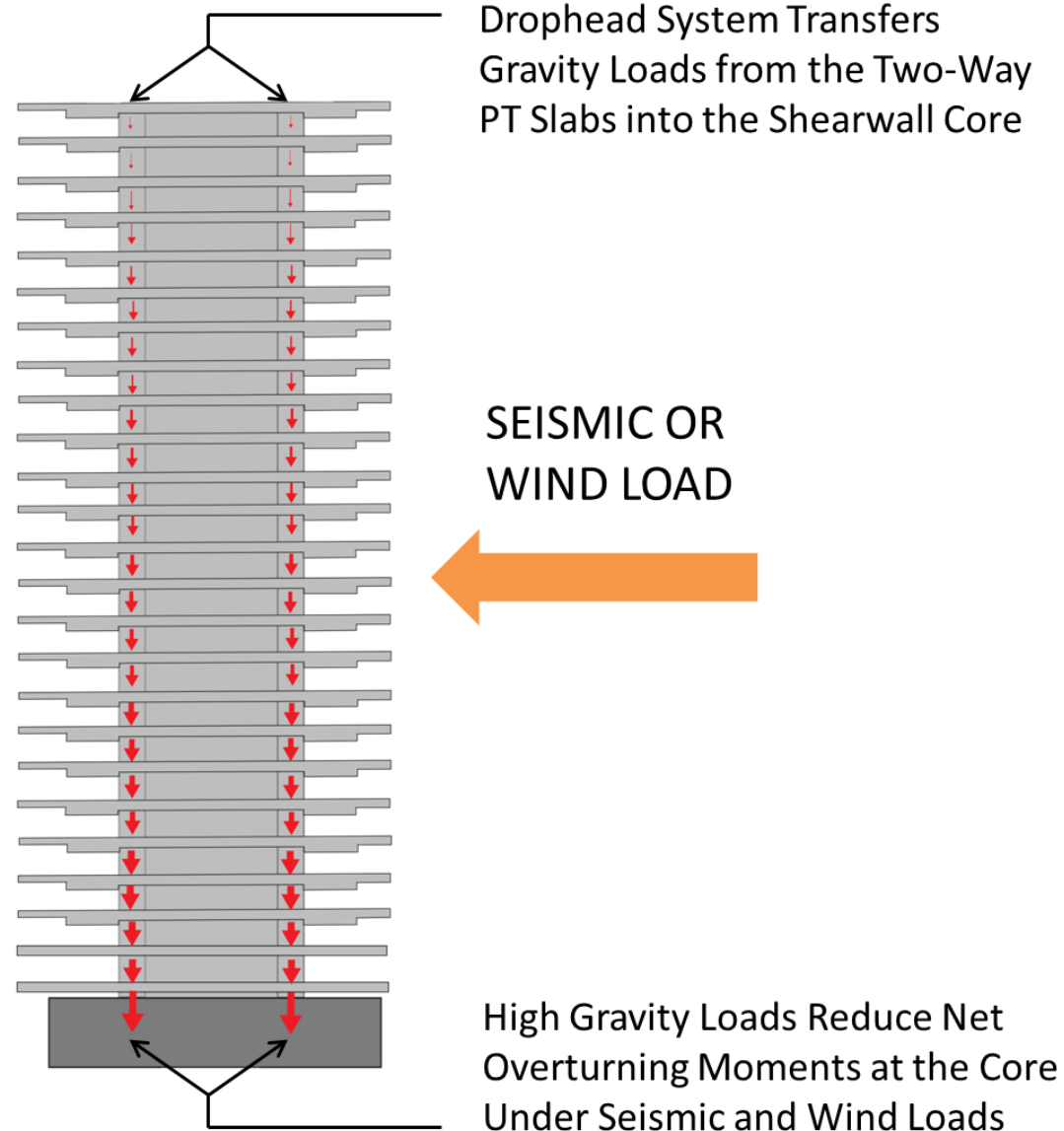


Without Drophead

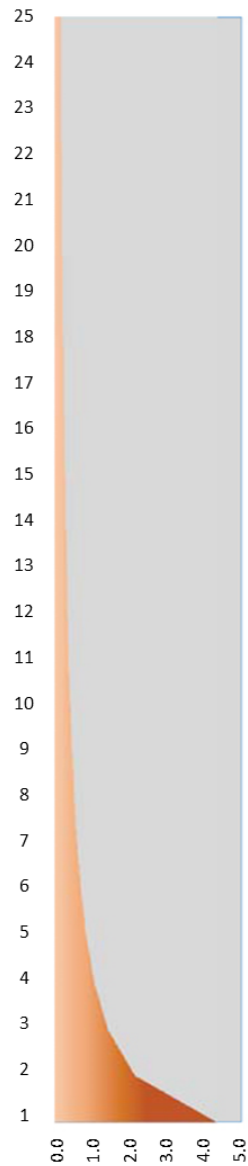
VS



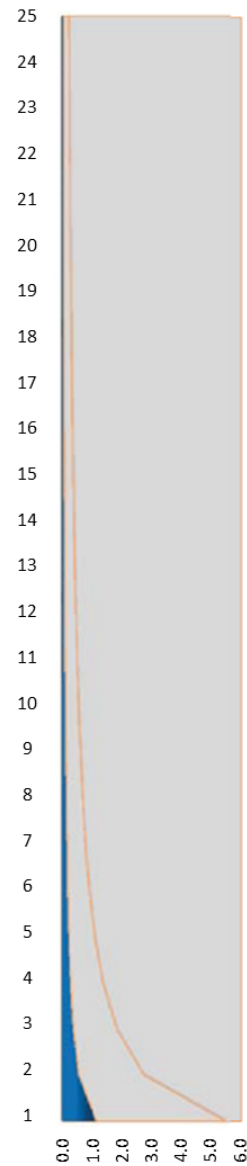
With Drophead



Core Overturning
Moments without
Drophead



Core Overturning
Moments with
Drophead











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STRUCTURAL ENGINEERS