

# THE FUTURE OF WAREHOUSE ROOF SYSTEMS

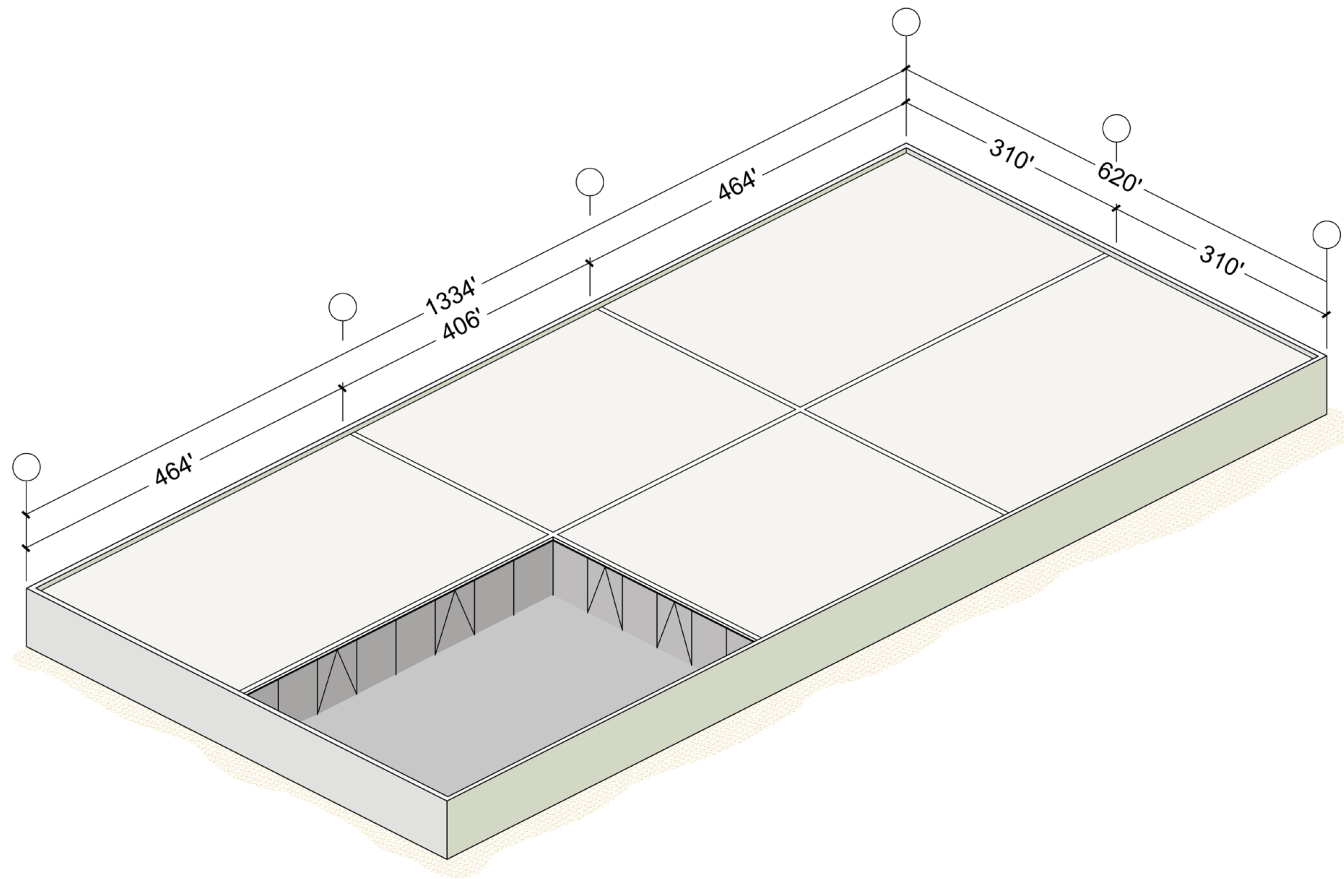
## MAXIMIZE THE VALUE

& minimize the initial investment of your next warehouse with the faster-to-erect, clean appearance, and wide-open space that Verco's high-performance steel roof system can provide



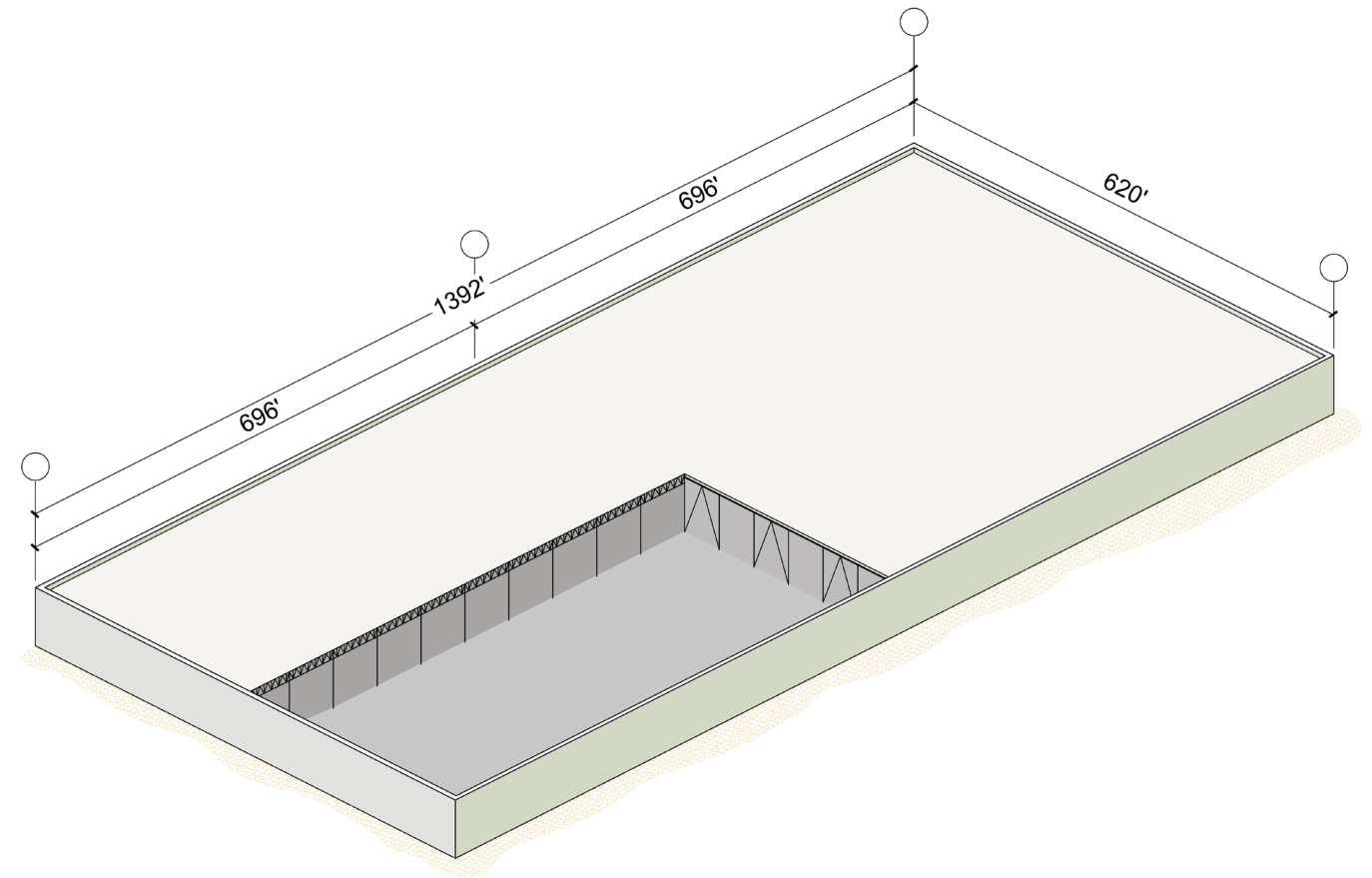
## ELIMINATE EXPANSION JOINTS

Open up all of your interior space with Verco's high-performance steel roof deck. Eliminate braced frames associated with thermal expansion joints which interfere with interior space utilization.



### TRADITIONAL: STEEL DECK ROOF STRUCTURE WITH EXPANSION JOINTS

- › Expansion joints every 400 to 500 ft
- › Double braced frame lines at expansion joints, creating a forest of 28 obstructed bays in the warehouse



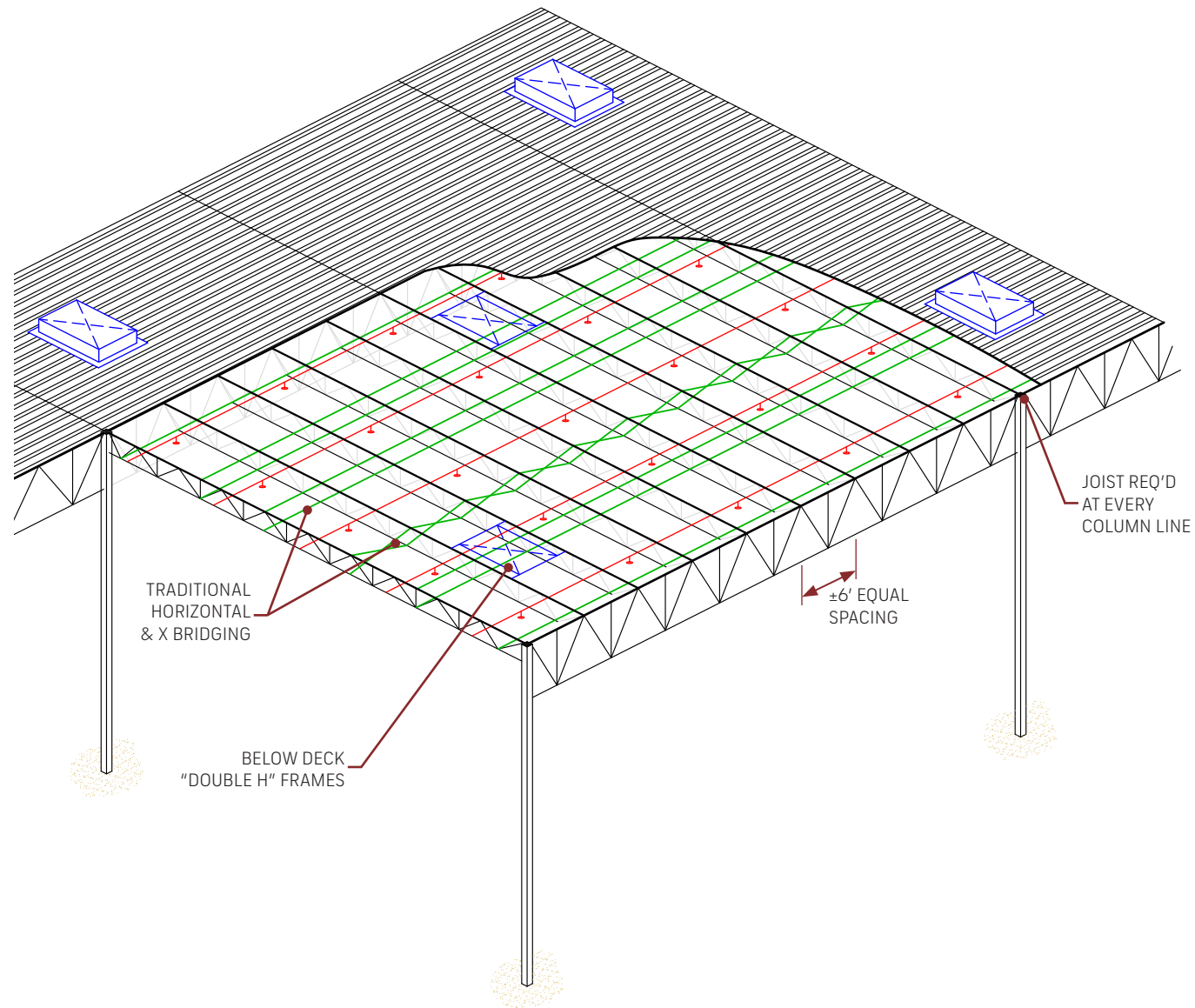
### OPTIMIZED: VERCO UNLIMITED LENGTH DIAPHRAGM WITHOUT EXPANSION JOINTS

- › Eliminate expansion joints with Verco's high-performance unlimited length diaphragm
- › Minimize brace obstructed bays
- › Faster to erect and much more economical with only 6 obstructed bays due to braced frames
- › Eliminate potential for roof membrane leaks at expansion joints



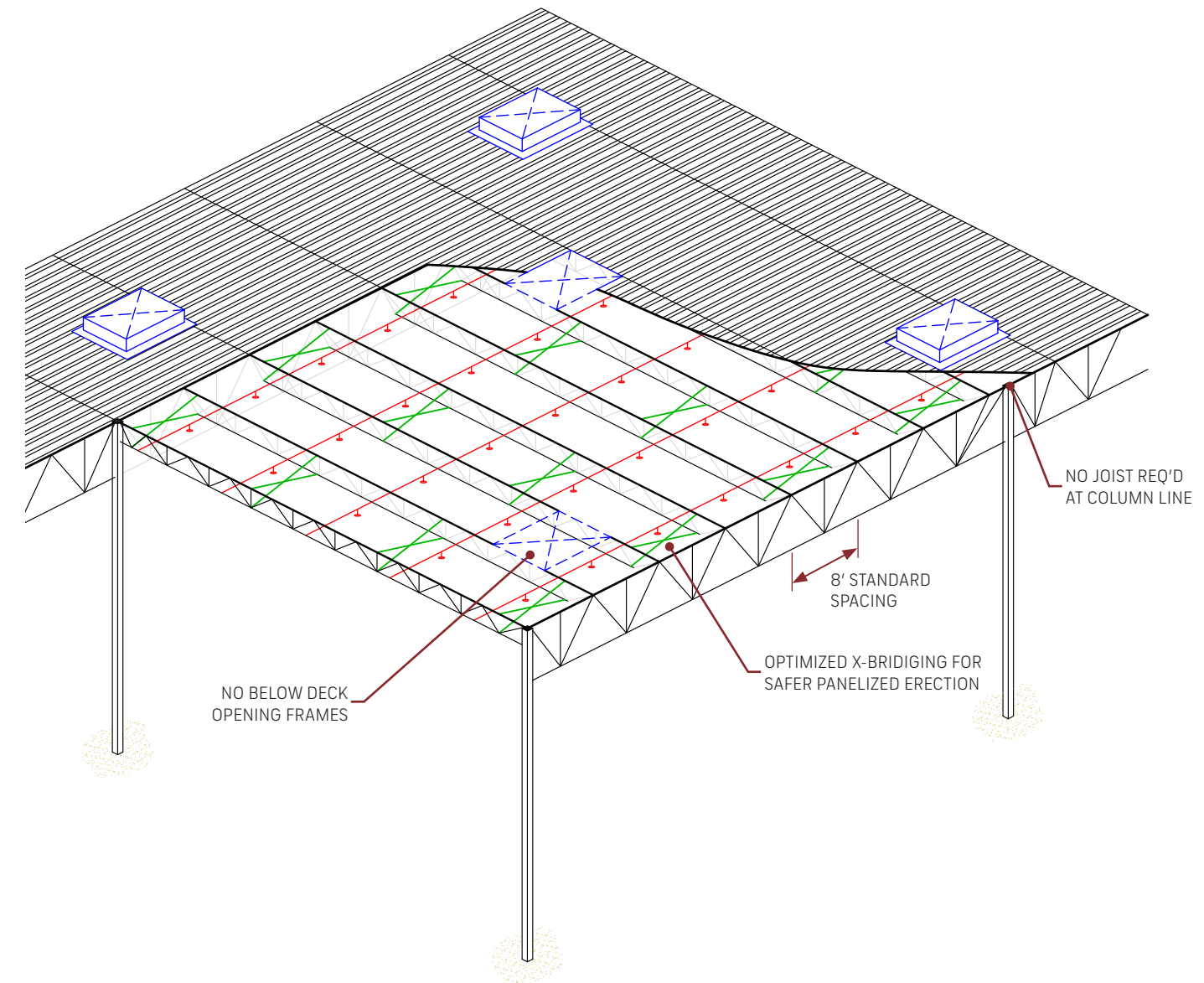
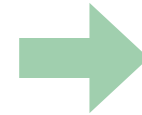
# THE MAGIC OF 8 FT JOIST SPACING

Eliminate skylight frames and realize efficient fire sprinkler layout by utilizing Verco's optimized deck solutions on 8 ft steel joist spacing.



## TRADITIONAL: CLOSELY-SPACED STEEL JOIST

- > 791 structural steel opening frames for the 4 ft x 8 ft skylights with a ±6' joist spacing per 1M square feet
- > 2,720 roof members to erect per million square feet
- > 8,004 ft of bridging to install per million square feet
- > 262,003 steel roof deck fasteners to joists million square feet

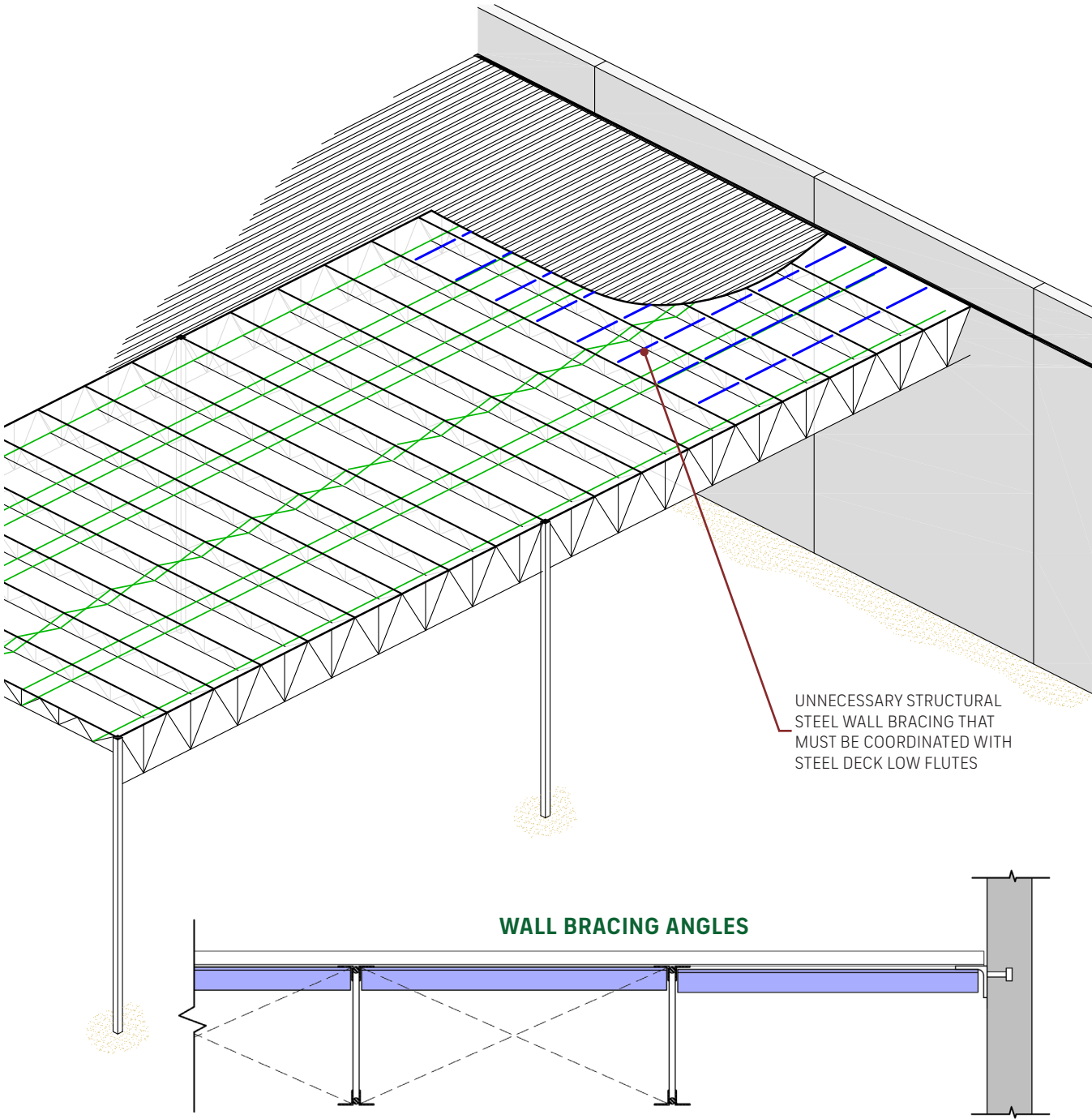


## OPTIMIZED: 8 FT JOIST SPACING

- > No skylight opening frames for 4 ft x 8 ft skylights
- > 17% fewer members to erect, 472 fewer members per million s.f. at 8 ft o.c.
- > 67% less bridging, 2,248 lineal feet per million s.f. less bridging to install with safe panelized erection
- > 19% fewer Hilti nails to joists, 51,000 fewer per million square feet
- > 1 piece mark for typical 24 ft sprinkler pipe sections

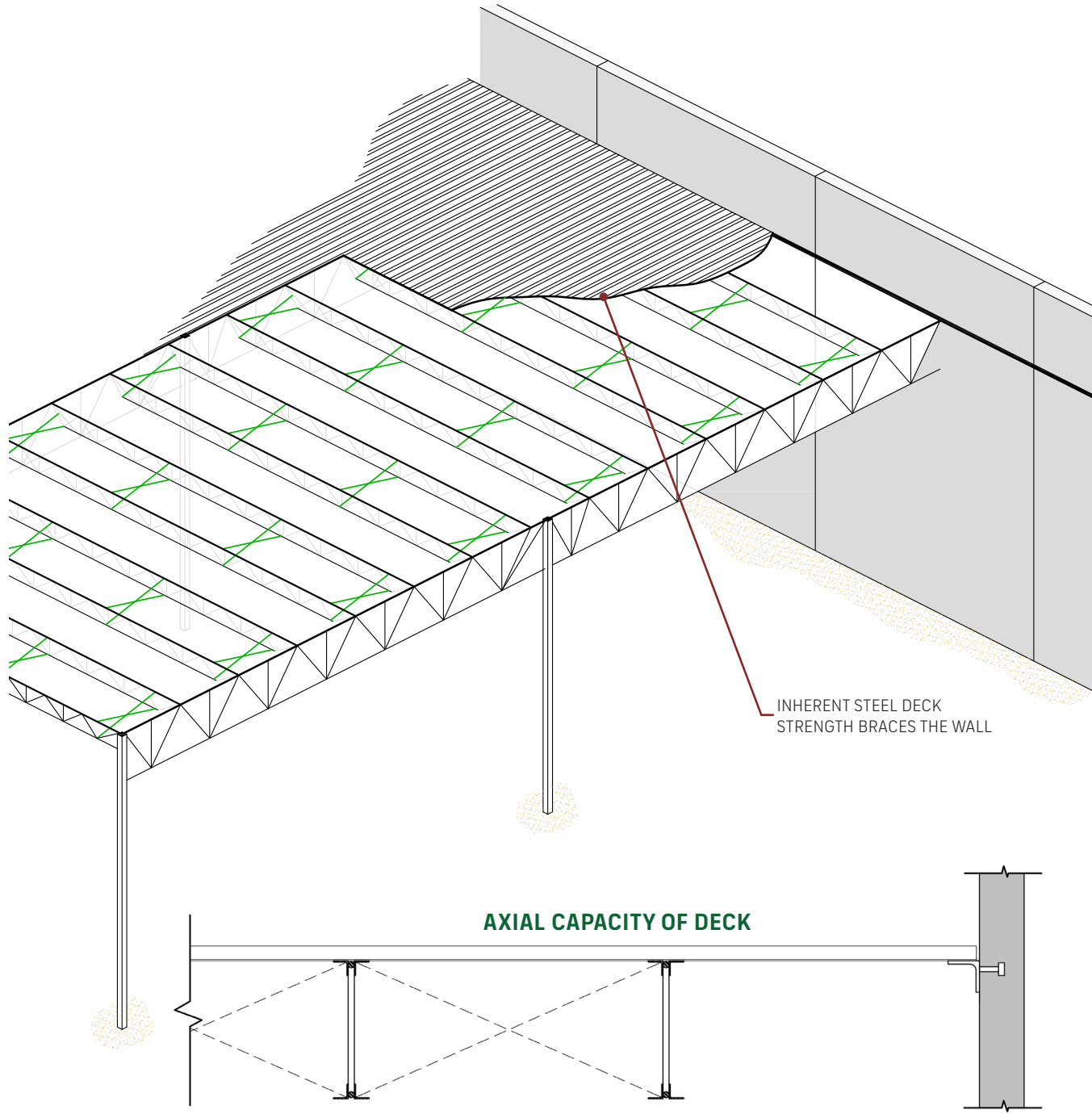
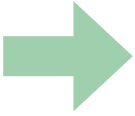
# LET THE DECK TAKE THE LOAD

Use axial capacity inherent in Verco roof deck to provide wall bracing.



## TRADITIONAL: UNNEEDED STEEL WALL BRACING BETWEEN JOISTS

2,479 ft of wall blocking between joists creates a subdiaphragm between girders per million square feet.



## OPTIMIZED: WALL BRACING USING VERCO ROOF DECK

Eliminate all wall blocking between joist using the high axial strength of Verco steel roof deck to create the subdiaphragm between the girders.

## VERCO'S OPTIMIZED SOLUTION FOR 8 FT JOIST SPACING SAVES YOUR COMPANY MONEY

PER 1,000,000 SF	6' - 5 1/4"	8' - 0"	SAVINGS	
Braced Frame Bays	28 ea	6 ea	22 ea	79%
WF Beams	66 ea	6 ea		
OWSJG	230 ea	253 ea		
OWSJG	2,424 ea	1,989 ea		
<b>TOTAL:</b>	2,720 ea	<b>TOTAL:</b> 2,248 ea	472 ea	<b>17%</b>
Erection Bridging	5,336 ft	0 ft		
Uplift Bridging	2,668 ft	2,668 ft		
<b>TOTAL:</b>	8,004 ft	<b>TOTAL:</b> 2,668 ft	5,336 ft	<b>67%</b>
Wall Bracing	2479 ft	0 ft	2479 ft	<b>100%</b>
Double H Skylight Frames	791 ea	0 ea	791 ea	<b>100%</b>
Hilti Nails	263,003 ea	211,058 ea	50,945 ea	<b>19%</b>

**CONTACT YOUR LOCAL CUSTOMER REPRESENTATIVE TODAY!**

VISIT [WWW.VERCDECK.COM](http://WWW.VERCDECK.COM) FOR MORE INFORMATION AND TO EXPLORE THE AVAILABLE VERC STEEL DECK ROOF STRUCTURE RESOURCES:

- > Owner Brochure
- > Roof Structure Design Guide
- > Web-based steel deck solutions
  - » Steel roof deck diaphragm shear strength and stiffness
  - » Steel roof deck uniform loads
  - » Steel deck wall anchorage design
- > IAPMO UES Evaluation Report
- > FM and UL recognized



SCAN CODE