



# MARS TECH HUB

MSU RESEARCH FOUNDATION | LANSING, MI

HED

GRANGER  
ADVANCE THE ART OF BUILDING

SPALDING  
DeDECKER  
Engineers | Surveyors

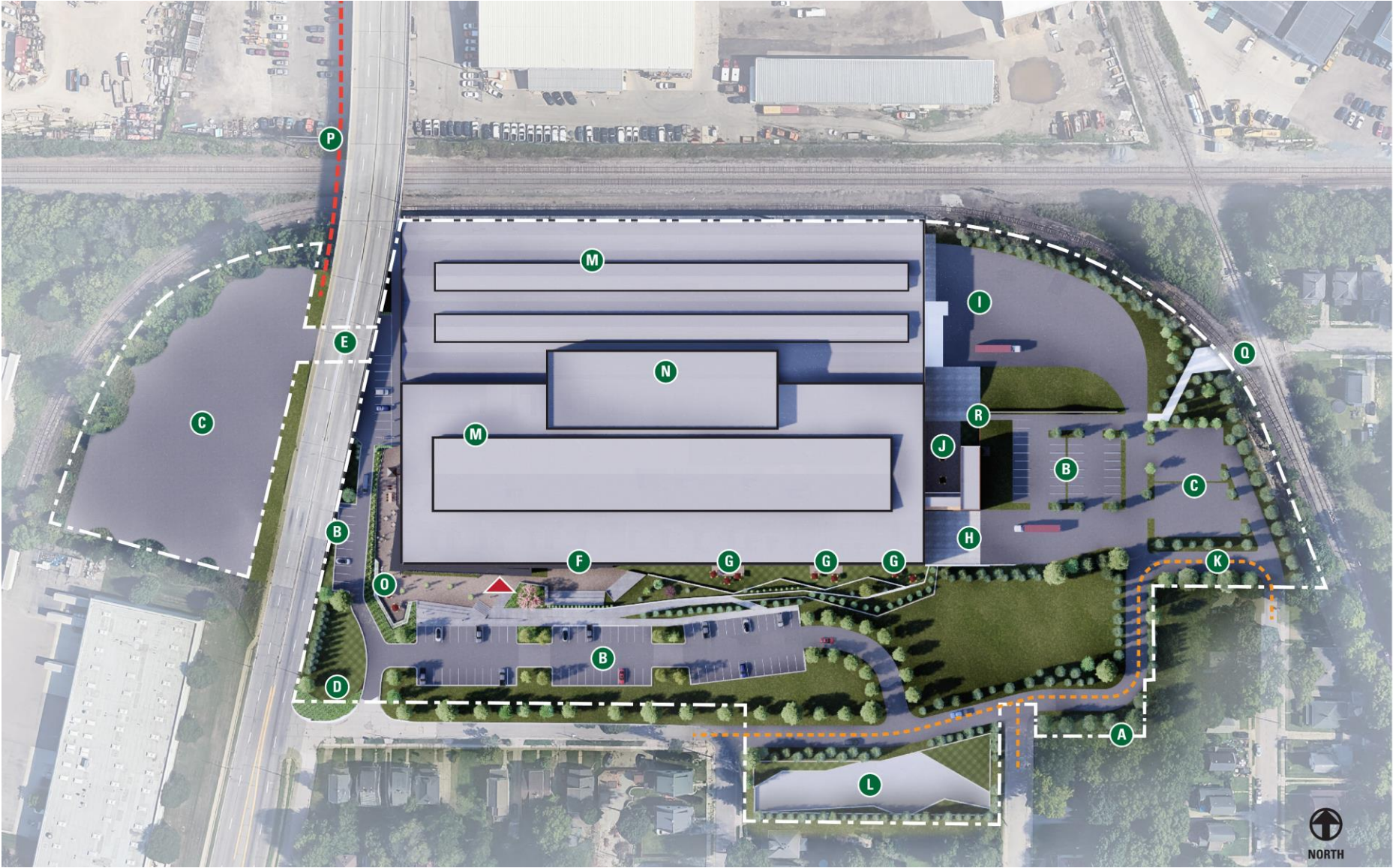


# PROJECT OVERVIEW

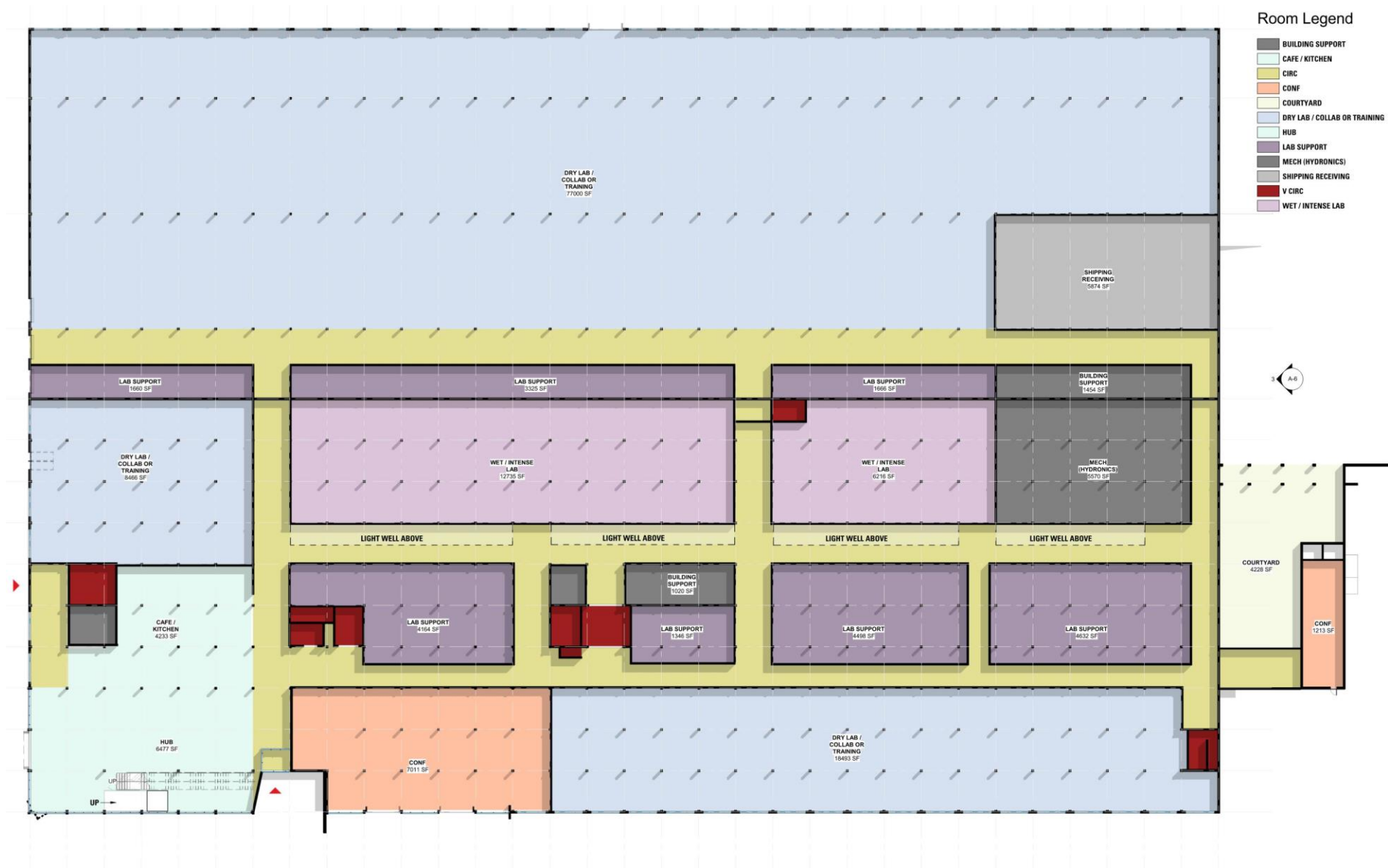
HED



# Site Plan

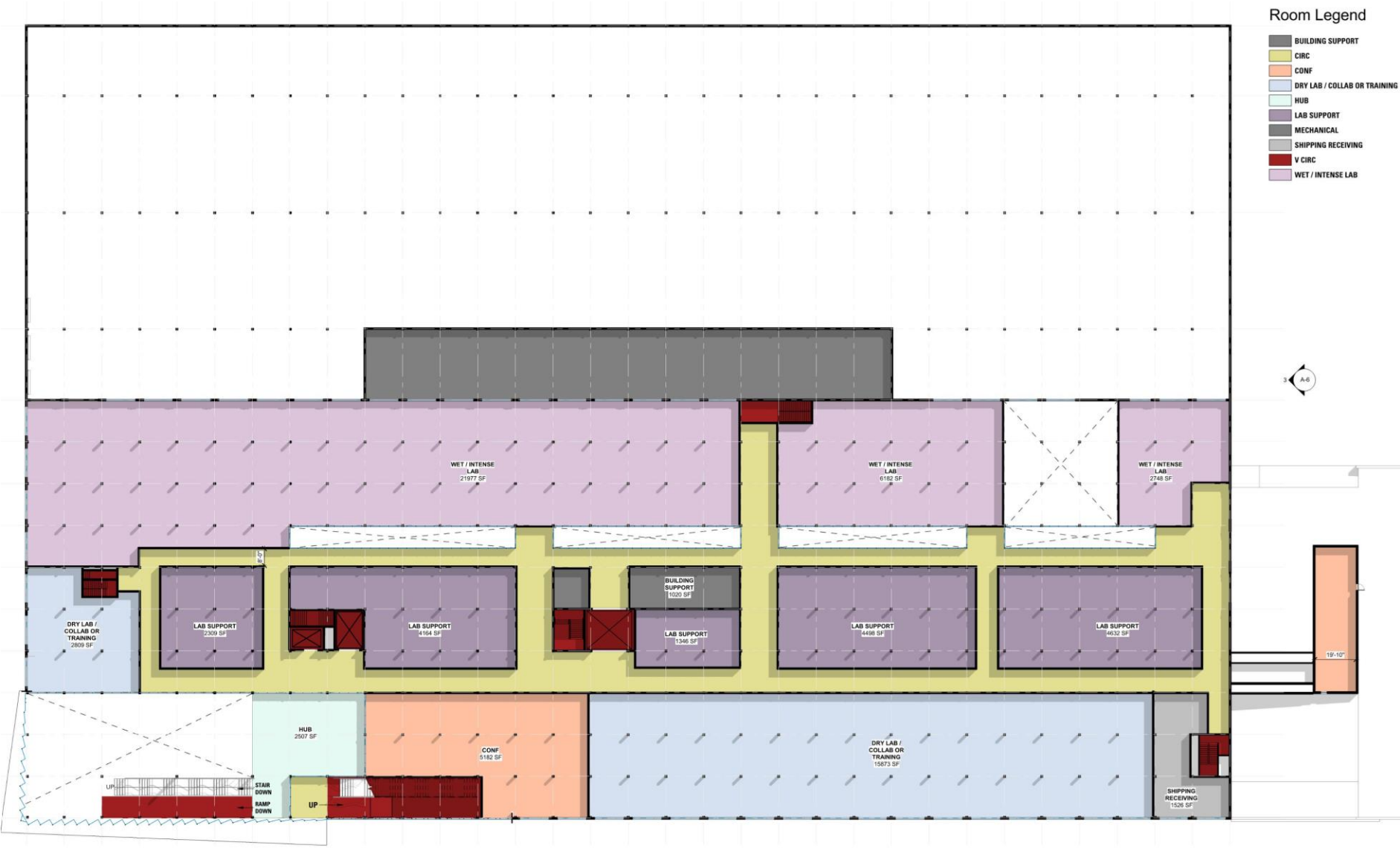


# First Floor Plan

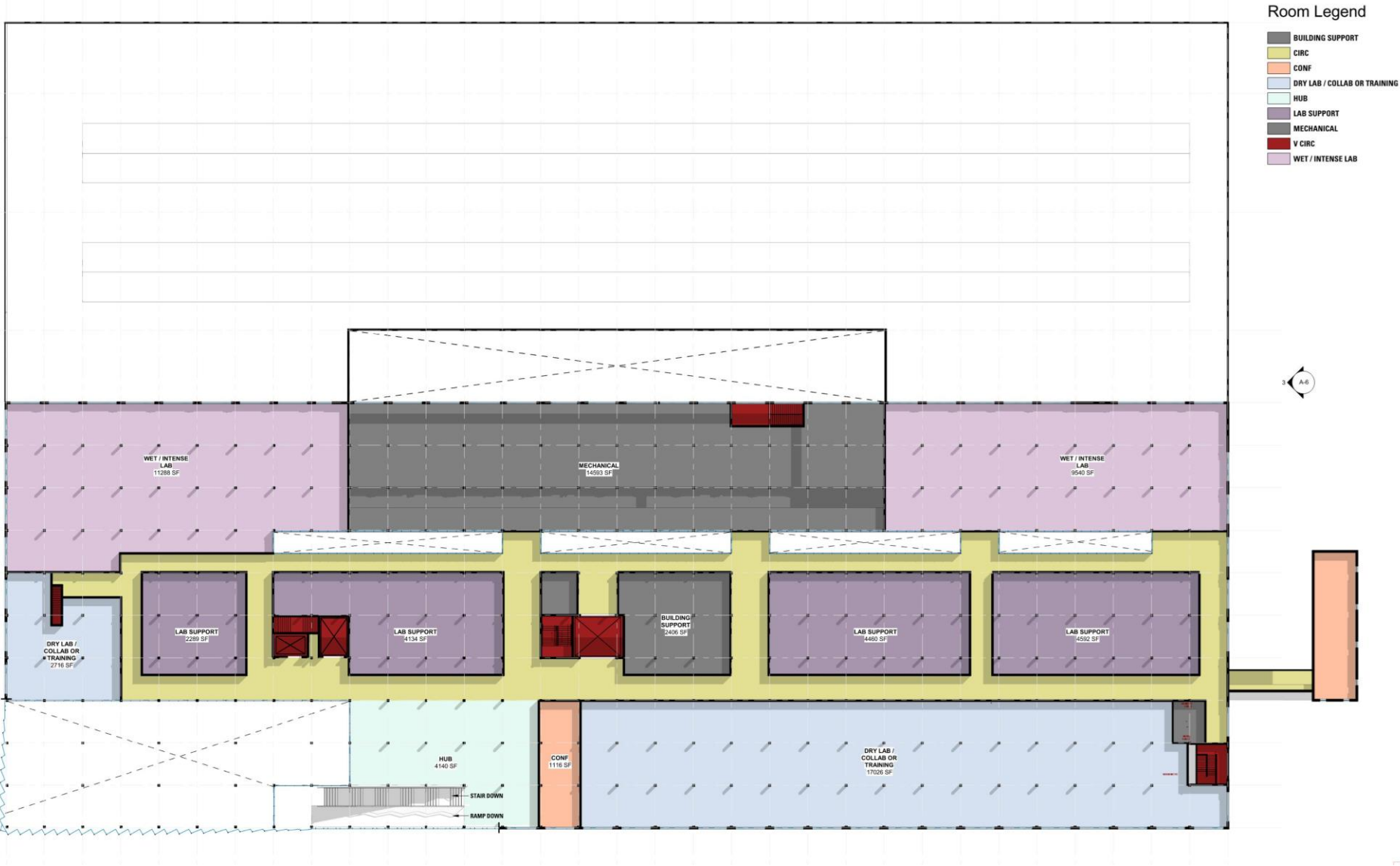




# Second Floor Plan



# Third Floor Plan





# Aerial Rendering





# Exterior Rendering





# Interior Rendering



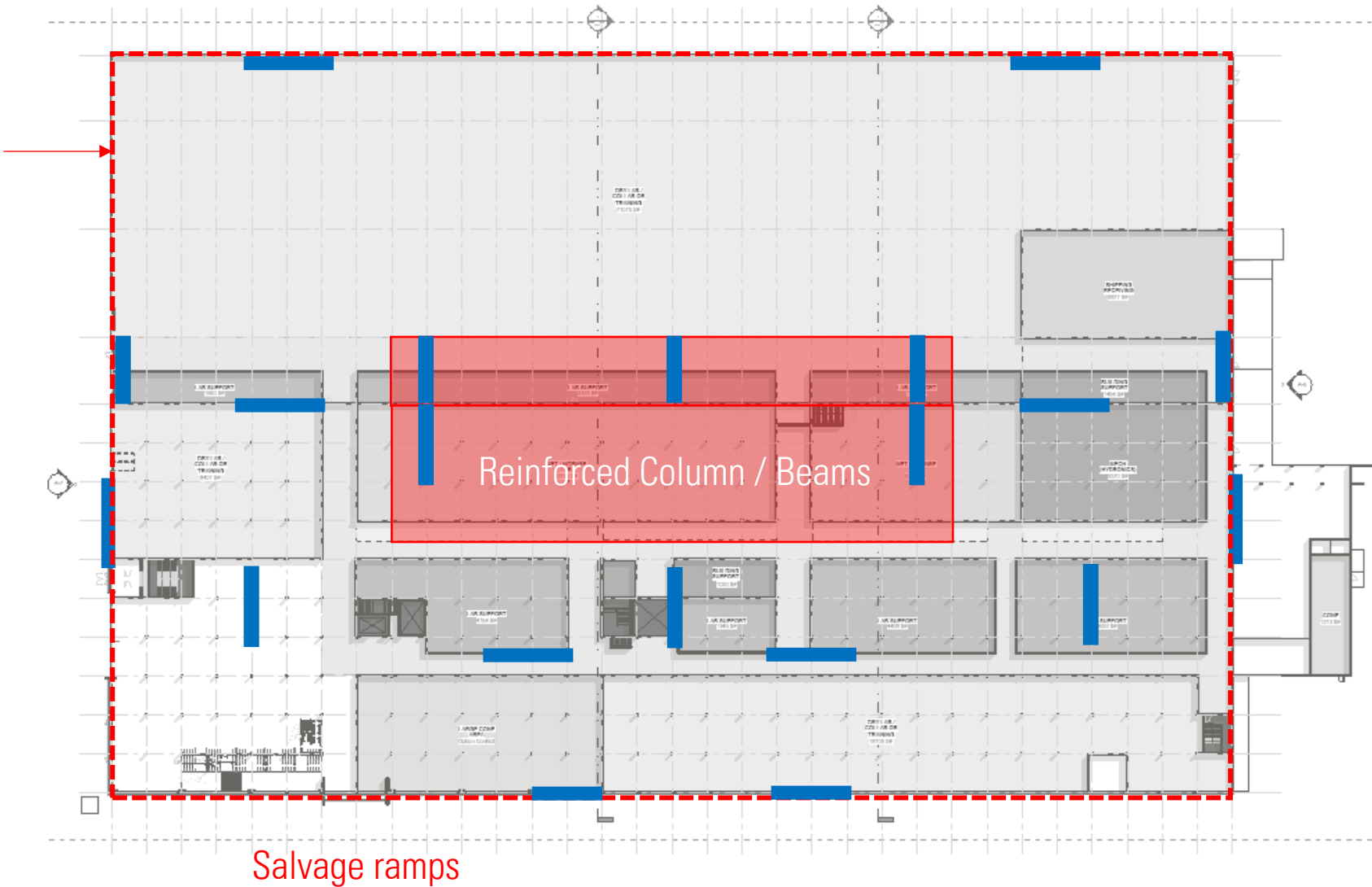
# Structural Bracing Concept

FIRST FLOOR



New Braced Bays

New Slab  
On Grade





# Structural Bracing Concept

SECOND FLOOR

New Braced Bays

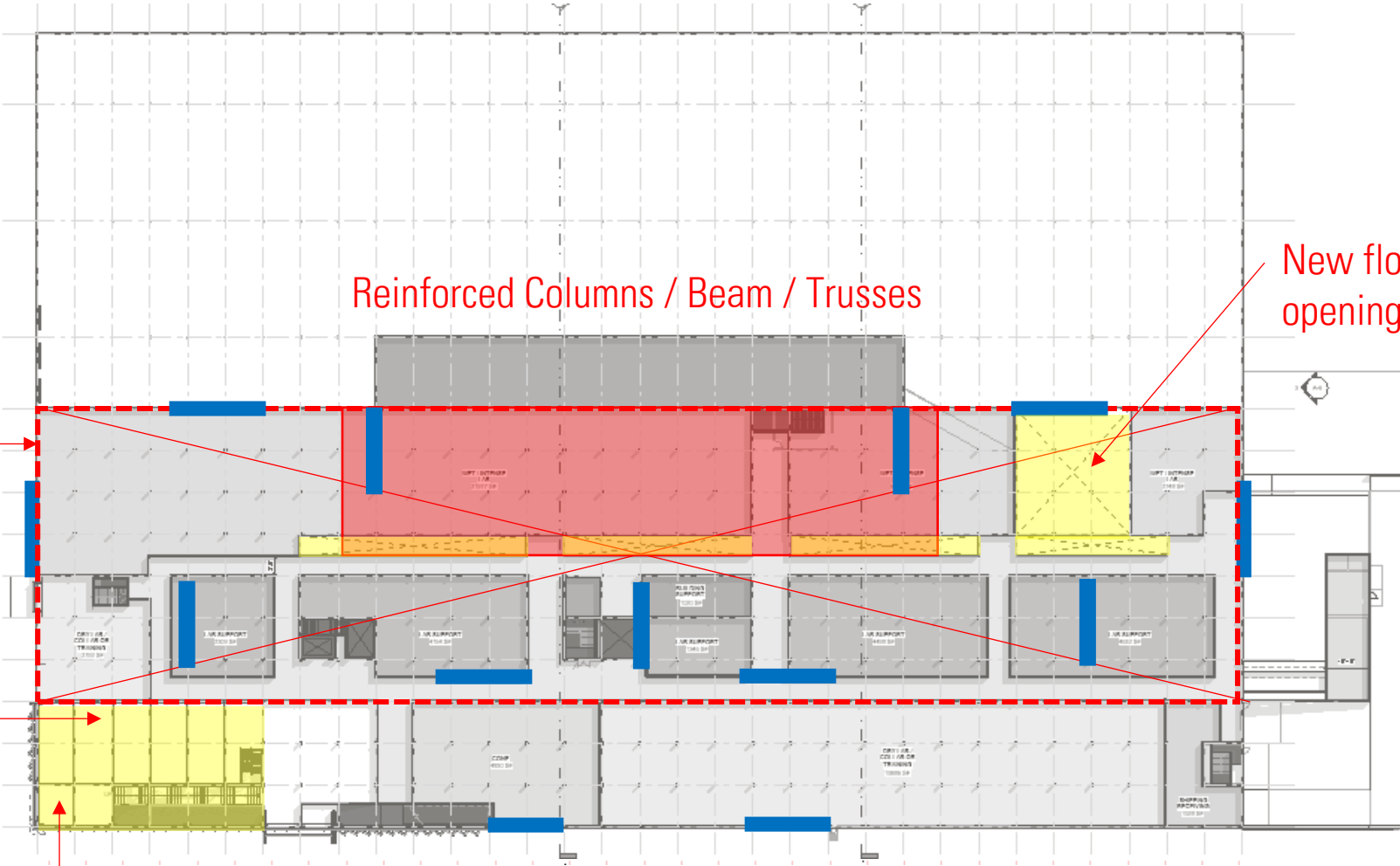
New Metal Deck and Concrete Slab

Remove interior columns. Replace perim cols and beams

New floor opening  
Salvage ramps opening

Reinforced Columns / Beam / Trusses

New floor opening



# Structural Bracing Concept

THIRD FLOOR

New Braced Bays

New Metal Deck and Concrete Slab

Remove interior columns. Replace perim cols and beams

New floor opening  
Salvage ramps

