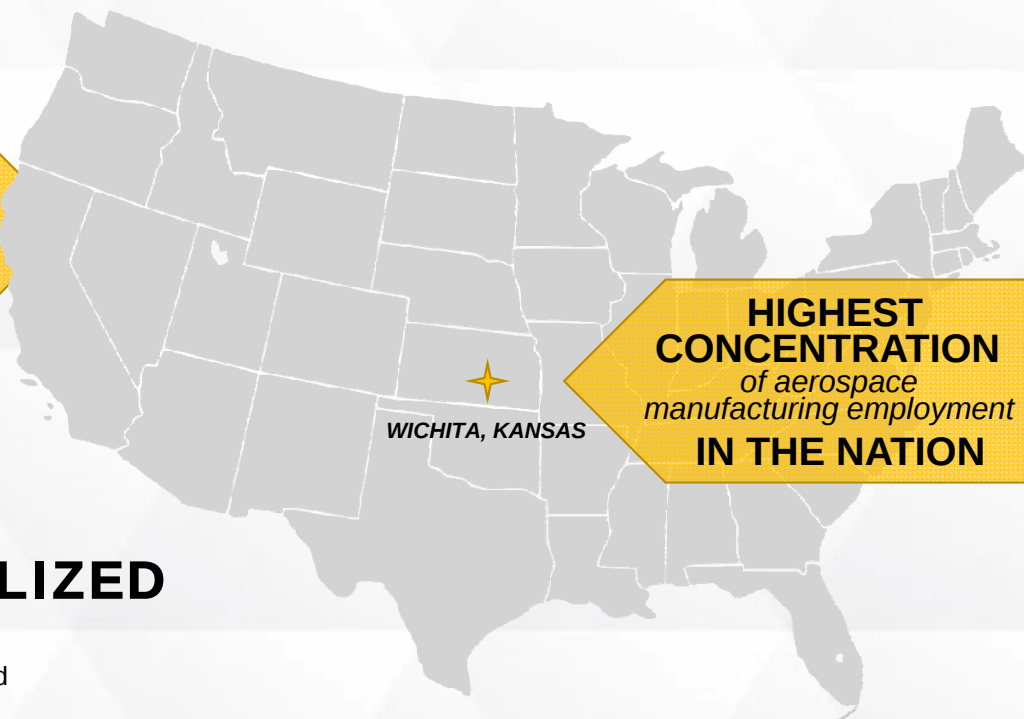


»» INNOVATION CAMPUS



OF THE 100 LARGEST U.S. METRO AREAS
WICHITA RANKS #1
IN MANUFACTURING JOBS
AS PERCENT OF ALL JOBS



**HIGHEST
CONCENTRATION**
*of aerospace
manufacturing employment*
IN THE NATION

Brookings calls South Central Kansas the

MOST MANUFACTURING-SPECIALIZED REGION IN THE UNITED STATES

with 17.7% of regional jobs in manufacturing, more than half of which are engaged
in making some of the world's most sophisticated aircraft.

**ADVANCED
INDUSTRY
HOTSPOT**

RANKED
3
NATIONALLY

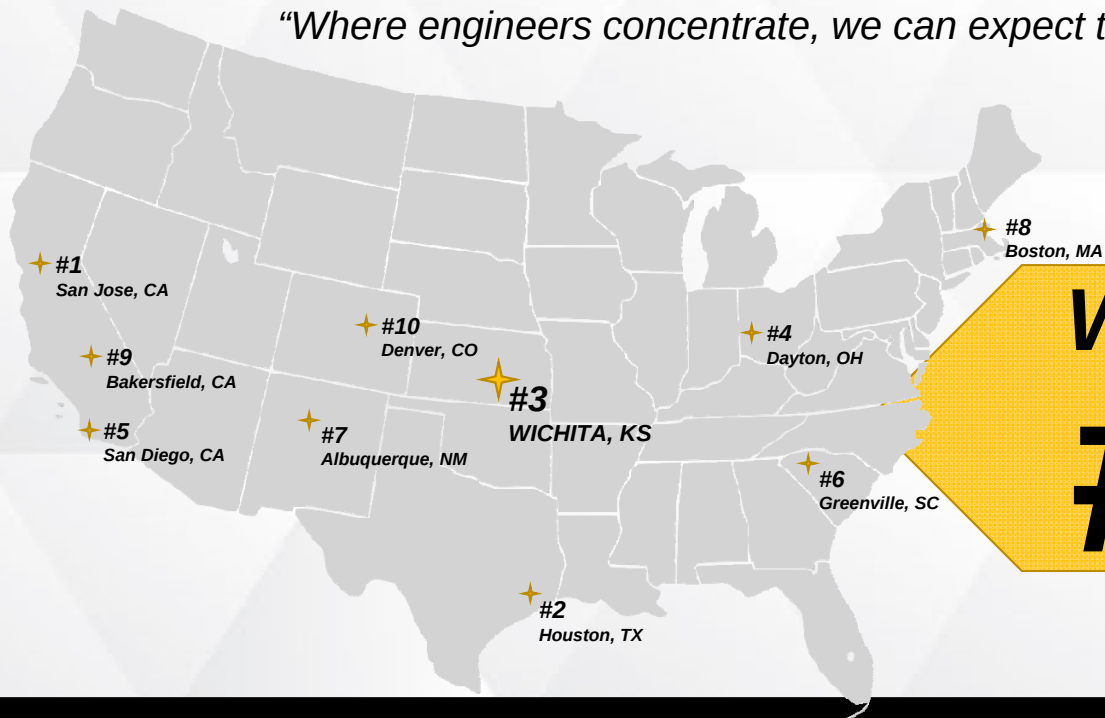
OF THE 100 LARGEST U.S. METRO AREAS

Brookings Institution Rankings

WICHITA RANKS **#1** IN PERCENTAGE
OF JOBS INVOLVING
Science, technology, engineering, and math (STEM Occupations)

America's Engineering Hubs: The Cities With The Greatest Capacity For Innovation

"Where engineers concentrate, we can expect the greatest capacity for innovation."



WICHITA RANKS

#3

AMONG METROS FOR
HIGHEST CONCENTRATION
OF ENGINEERS PER 1,000
EMPLOYEES (22.4 / 1,000)

Aerospace Engineering – Industry Funded

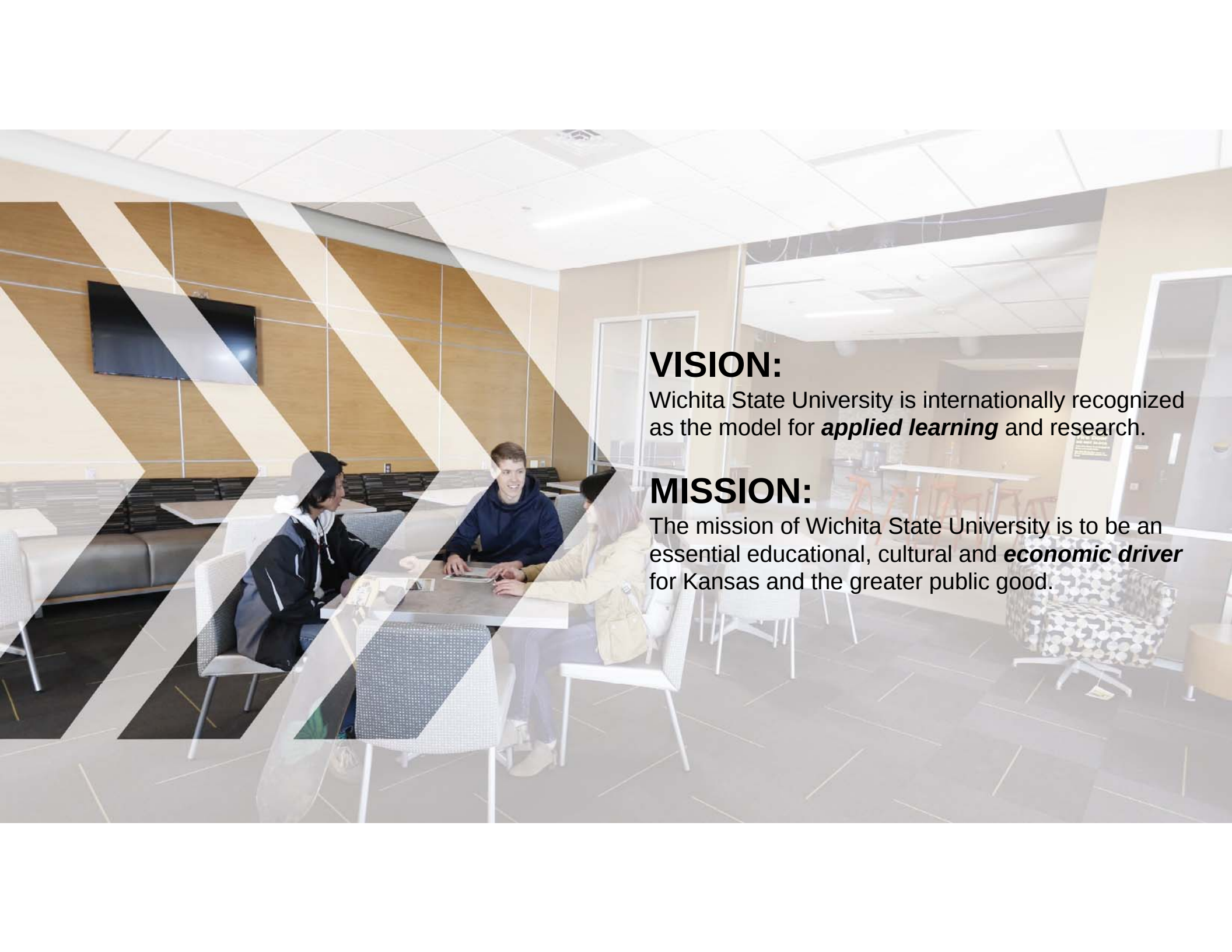
WICHITA STATE UNIVERSITY #1

Engineering – Industry Funded

WICHITA STATE UNIVERSITY #7

WICHITA STATE UNIVERSITY #2

In percentage of industry funding nationally
among Universities with over \$50M in
research expenditures

A photograph of a modern university interior, likely a library or study hall. In the foreground, three students are seated at a long white table, engaged in study. A male student in a dark blue hoodie is smiling at the camera. Two female students, one in a black jacket and one in a yellow jacket, are looking at a laptop. The background shows more study tables, a large screen on the wall, and a glass-walled room. The image is overlaid with a semi-transparent geometric pattern of white and grey triangles.

VISION:

Wichita State University is internationally recognized as the model for ***applied learning*** and research.

MISSION:

The mission of Wichita State University is to be an essential educational, cultural and ***economic driver*** for Kansas and the greater public good.

INNOVATION CAMPUS



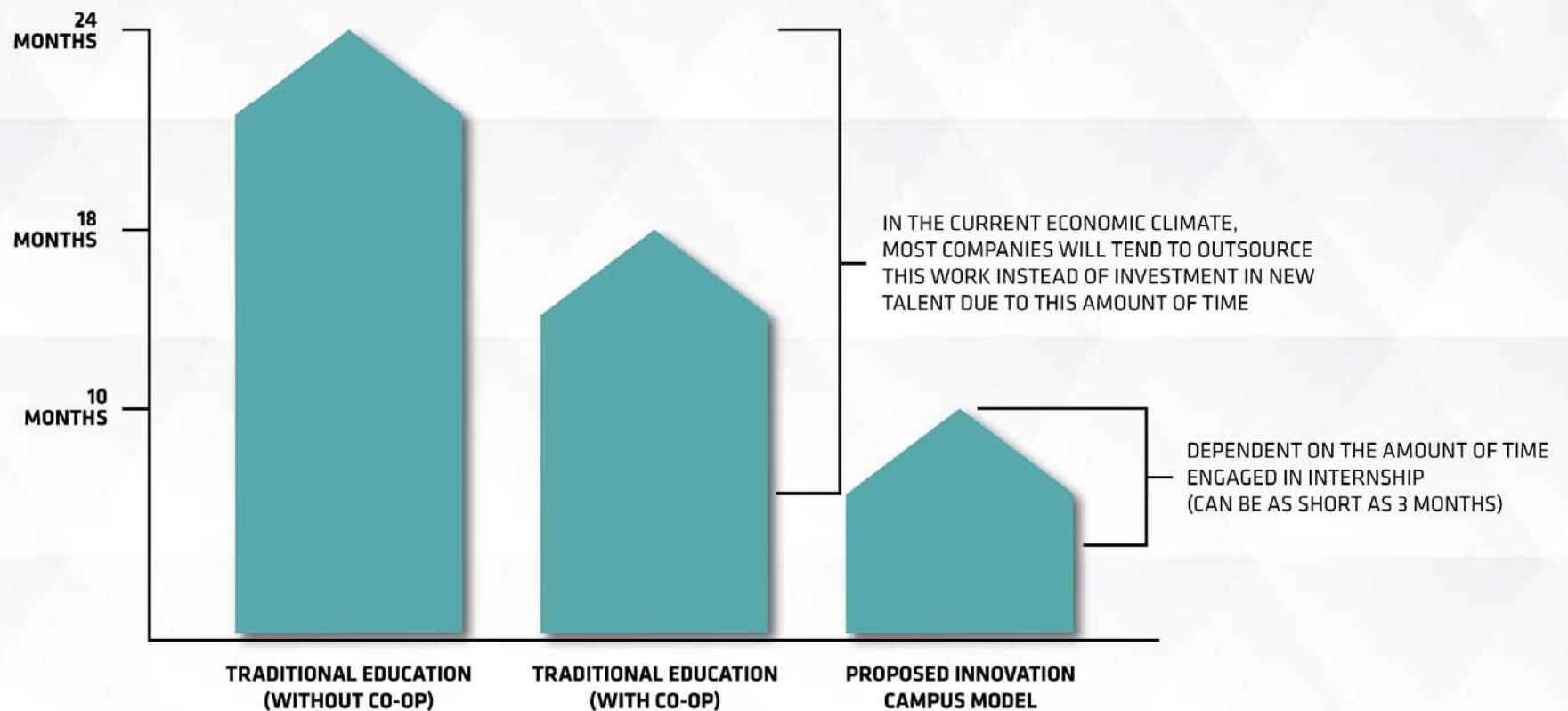
- Promote the startup of businesses based upon new ideas
- Support existing business growth in the region
- ***Grow a workforce for the future to serve both***



- ▶ Transform your innovation strategy by leveraging the latest disruptive technologies and Industry Solutions
- ▶ Prototype new concepts, methods and process
- ▶ Gain access to NIAR experts and the next gen workforce

APPROXIMATE TIME FOR NEW GRADUATE TO BECOME PRODUCTIVE IN AN INDUSTRY POSITION

- APPLIED LEARNING MODEL



BUSINESS CASE

LABOR COSTS

- Students wage range from \$10 - \$15 per hour
- Can be used for lower level “engineering tasks”

CASE STUDY – BEECHCRAFT

- 80 students working at average of 26 hours per week
- During the last three years, students performed 250,000 hours of work from CR Incorporation, ENOVIA V6, King Air 3D Modeling, Mentor Graphics, V4 to V5 transition, Special Missions, Standard Parts, REACH program, etc.
- Upon graduation, placement rate for the students is 96%
 - 35% stayed with Beechcraft
 - **83% stayed locally in Wichita/Region**



Beechcraft

I-35 CORRIDOR



- There are 10 megalopolis located in the U.S.
- ***I-35 is a key corridor for Wichita State University***

ECONOMIC DRIVER

INCREASE WORKFORCE



KANSAS



POPULATION: 2.9 million

IN STATE TUITION

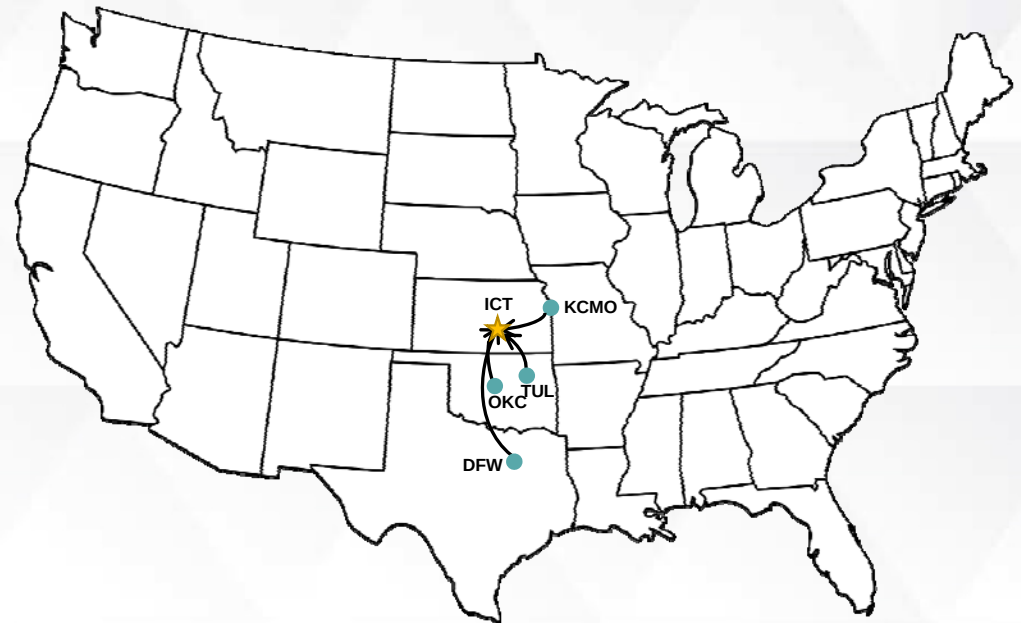
- Tulsa – pop.: 981,005
- Oklahoma City – pop.: 1.4 million
- Dallas/Ft. Worth – pop.: 6.39 million
- Kansas City, MO – pop.: 2.3 million
- **TOTAL: 11.1 million**

14
MILLION

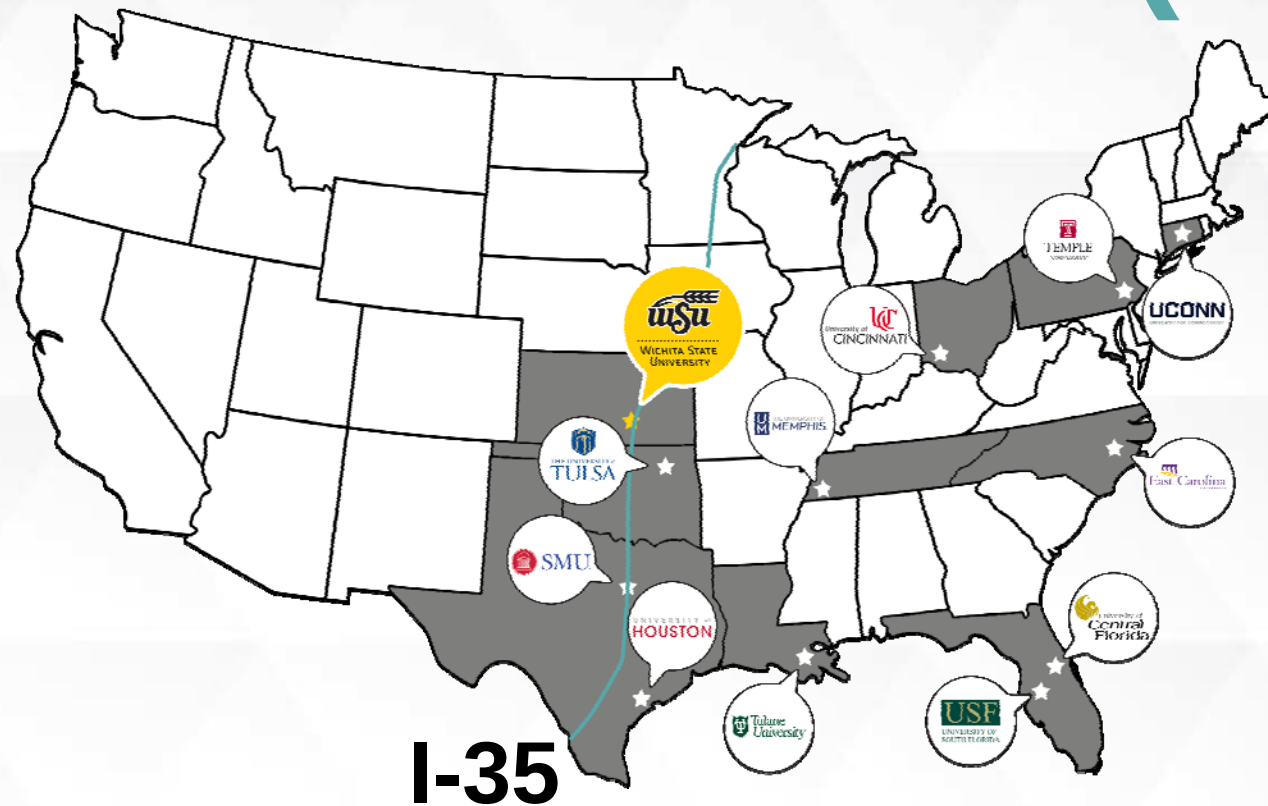
TREATED AS
KANSAS
RESIDENTS

ECONOMIC DRIVER

- So far, 80% of students participating in Applied Learning model stay in the region
- Supplies a future workforce due to retirement and/or natural attrition that may occur
- If only half of the newly recruited I-35 students stayed in the region, we could increase the workforce and population by 40%



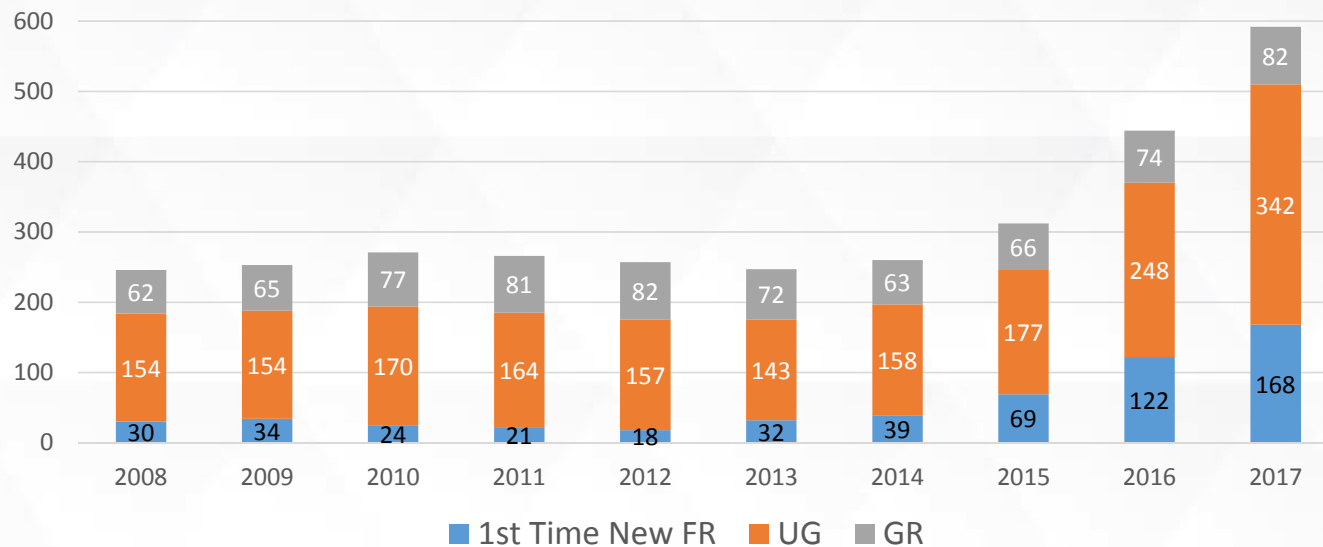
AMERICAN ATHLETIC CONFERENCE (AAC)



I-35 CORRIDOR

SEM Goal 4

- Increase enrollment along the I-35 corridor by 18% yearly through fall 2020:
 - ***37.7% increase first-time new freshmen over 2016***



WICHITA AREA TECHNICAL COLLEGE

WSU CAMPUS OF APPLIED SCIENCES & TECHNOLOGY



An aerial photograph of a campus. The left side shows established buildings and parking lots. The right side features a large, undeveloped area with a golf course and a pond, outlined in green. A road runs horizontally across the middle. In the top left corner, there is a graphic of three overlapping chevrons in grey, red, and green.

INNOVATION CAMPUS DEVELOPMENT

CAMPUS MASTER PLAN



AIRBUS ON INNOVATION CAMPUS

- 300 engineering, support personnel, students
- Recent NIAR/Airbus Projects:
 - Recurring composites and manufacturing training for Airbus employees
 - Full-scale structural testing of an A350 XWB pylon structure in NIAR's Aircraft Structural Test and Evaluation Center



EXPERIENTIAL ENGINEERING



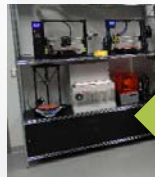
3D EXPERIENCE Center



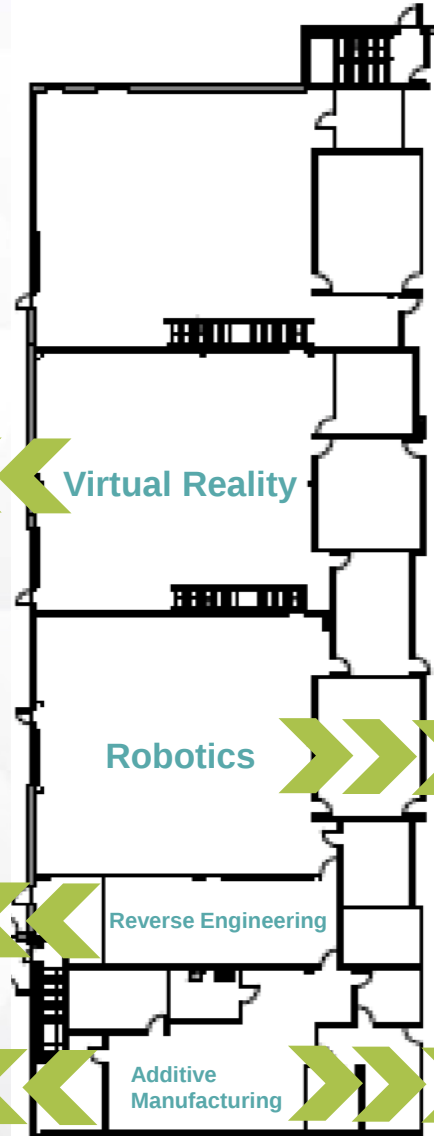
Virtual Reality



Reverse Engineering

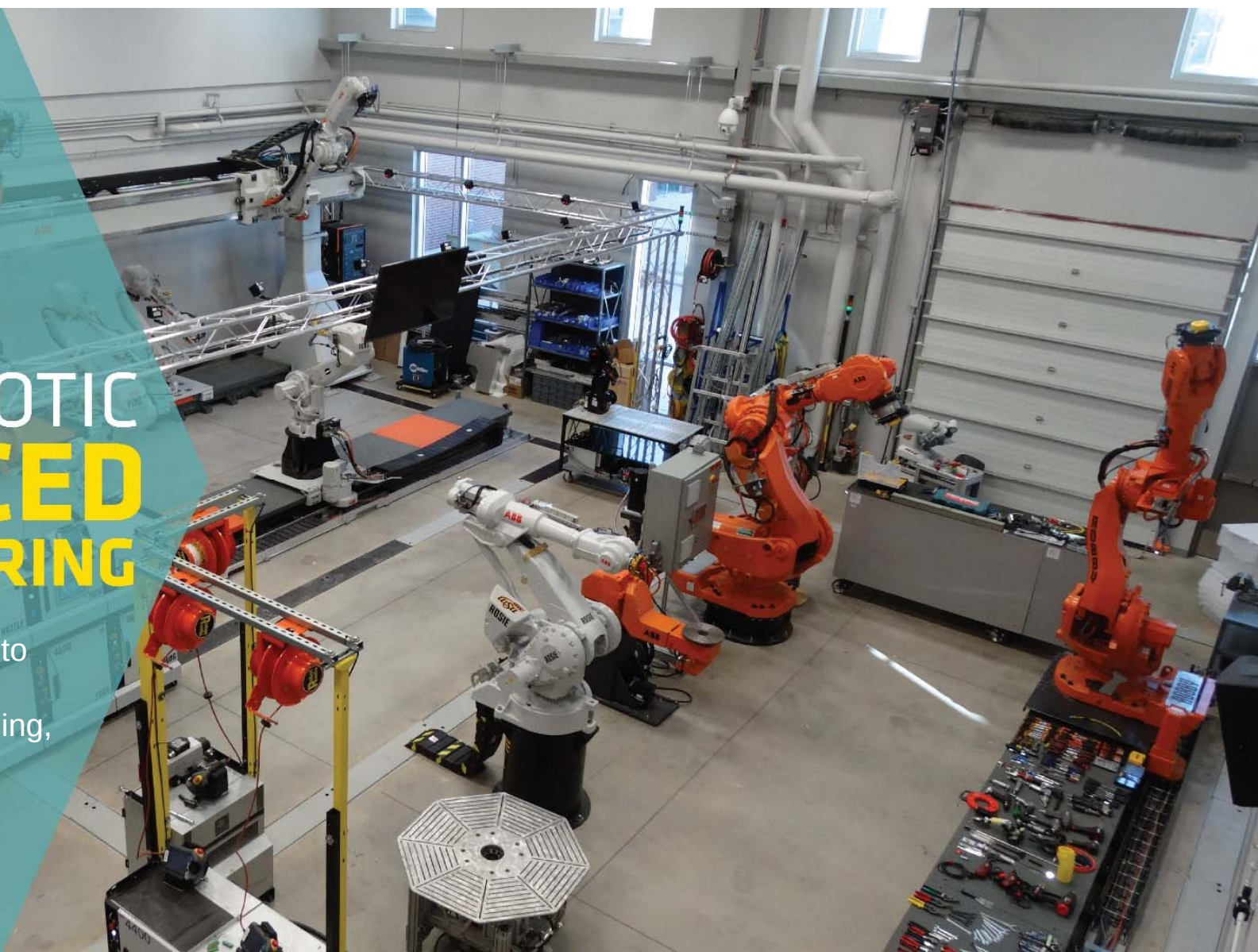


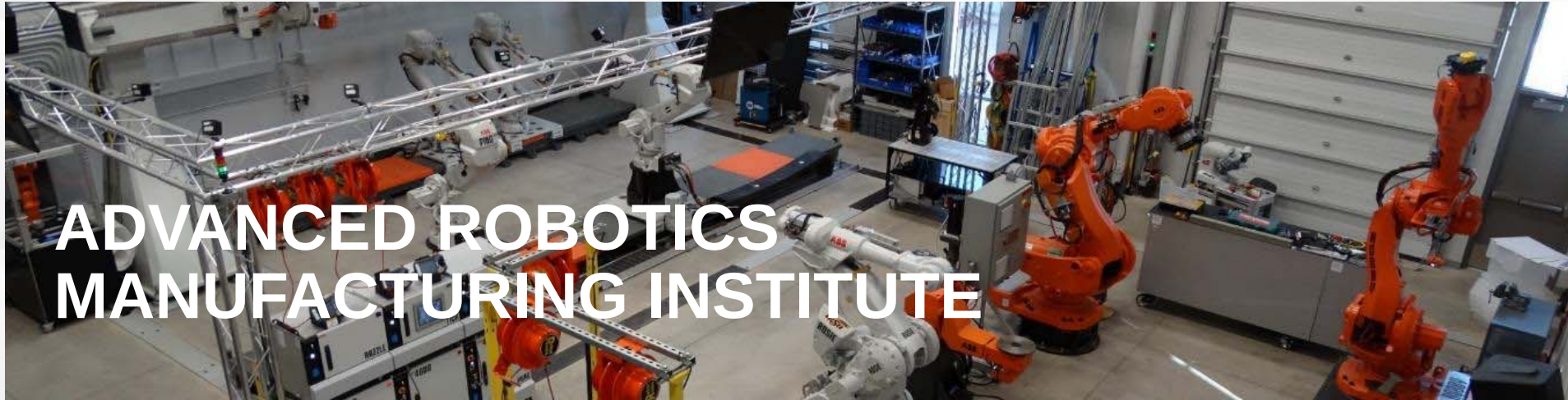
Additive Manufacturing



MULTI-ROBOTIC **ADVANCED** MANUFACTURING

Six robots working in unison to perform various advanced manufacturing tasks – scanning, printing, building and more!





ADVANCED ROBOTICS MANUFACTURING INSTITUTE

- Most recently designated Manufacturing USA Institute
- DoD led
- Headquarters: Carnegie Mellon U., Pittsburgh, PA
- 123 industry partners, 40 academic partners, 64 gov. partners
- Wichita State is a core member

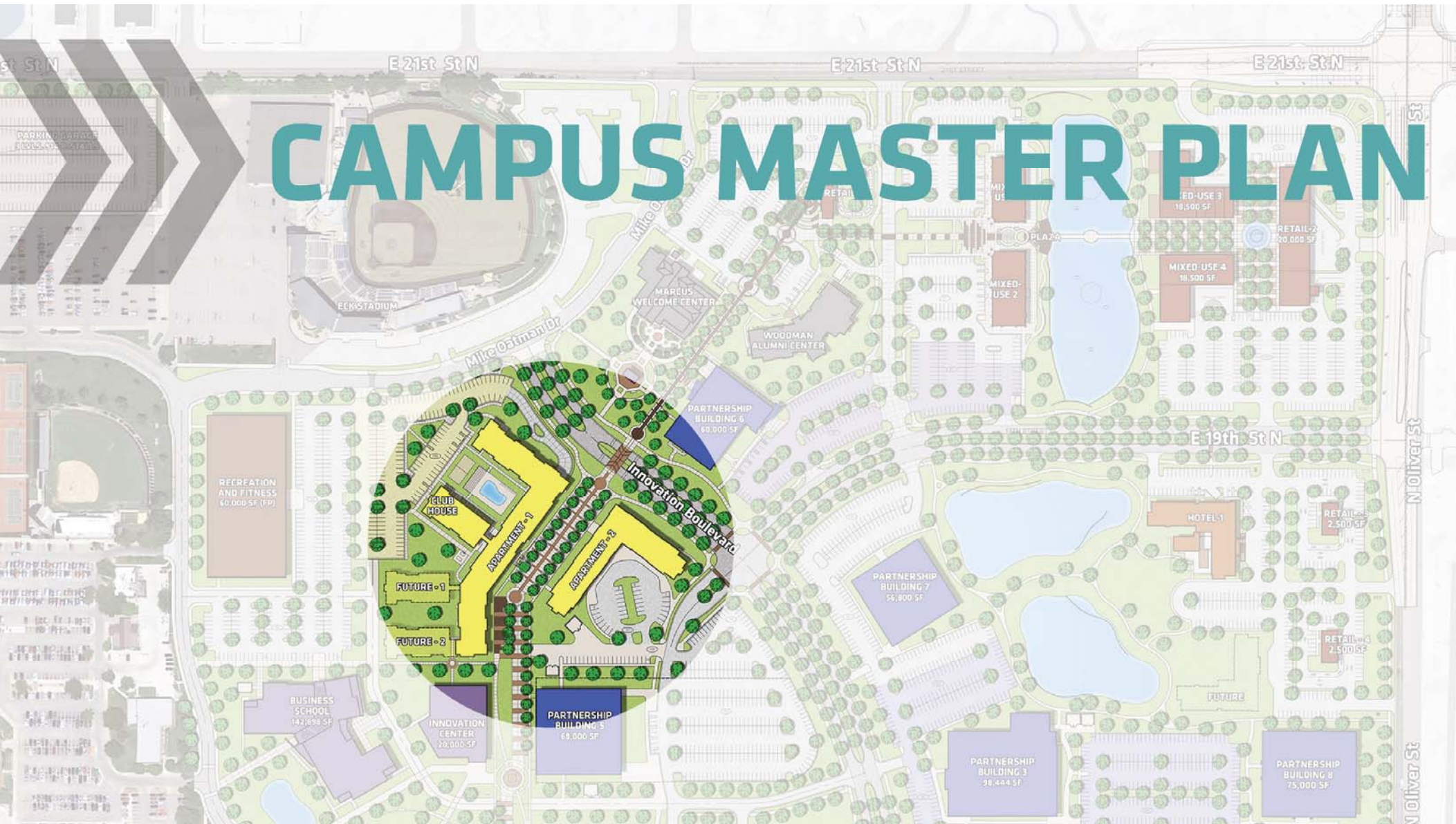


GoCreate



- 3-D Printing
- Metal
- Wood
- Plastic
- Textile
- Electronics
- Software Design
- Advanced Materials (Composites)

CAMPUS MASTER PLAN



THE FLATS AT WSU

Currently WSU is **102%**
on design occupancy

9% of students currently
live on campus

Goal: **25%**
live on campus



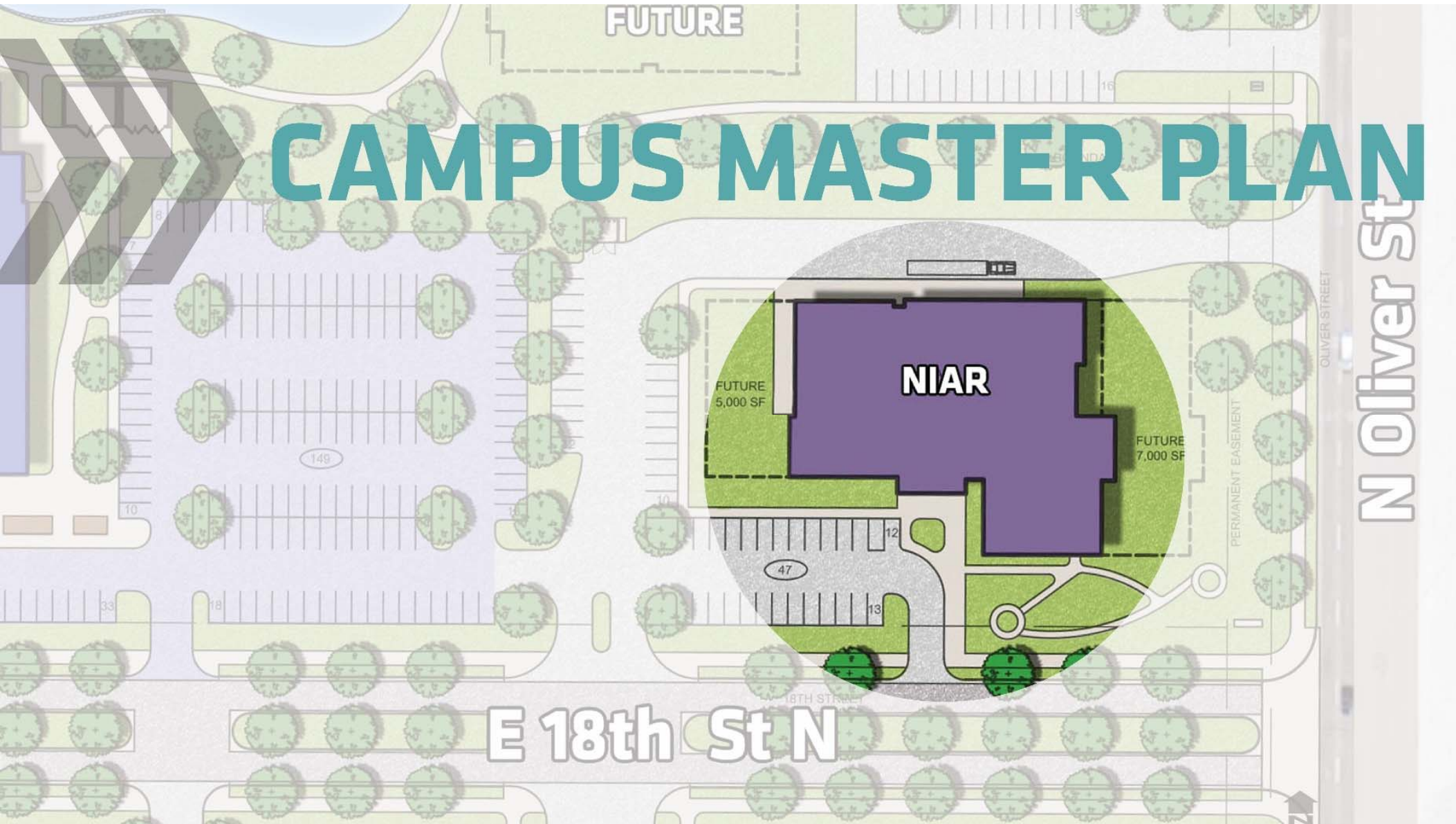
LAW ENFORCEMENT
**TRAINING
CENTER**



PARTNERSHIP **BUILDING II**



CAMPUS MASTER PLAN



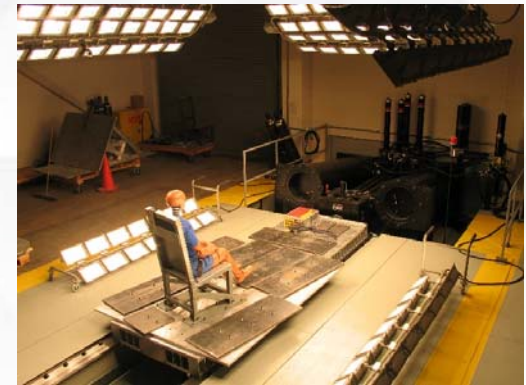
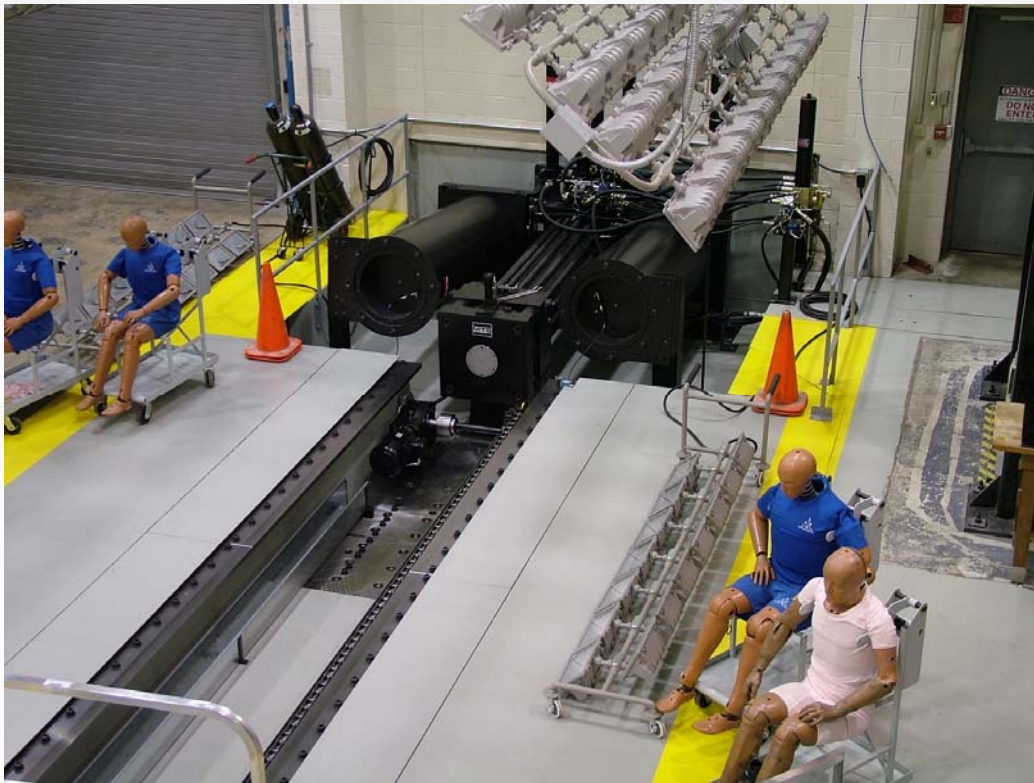


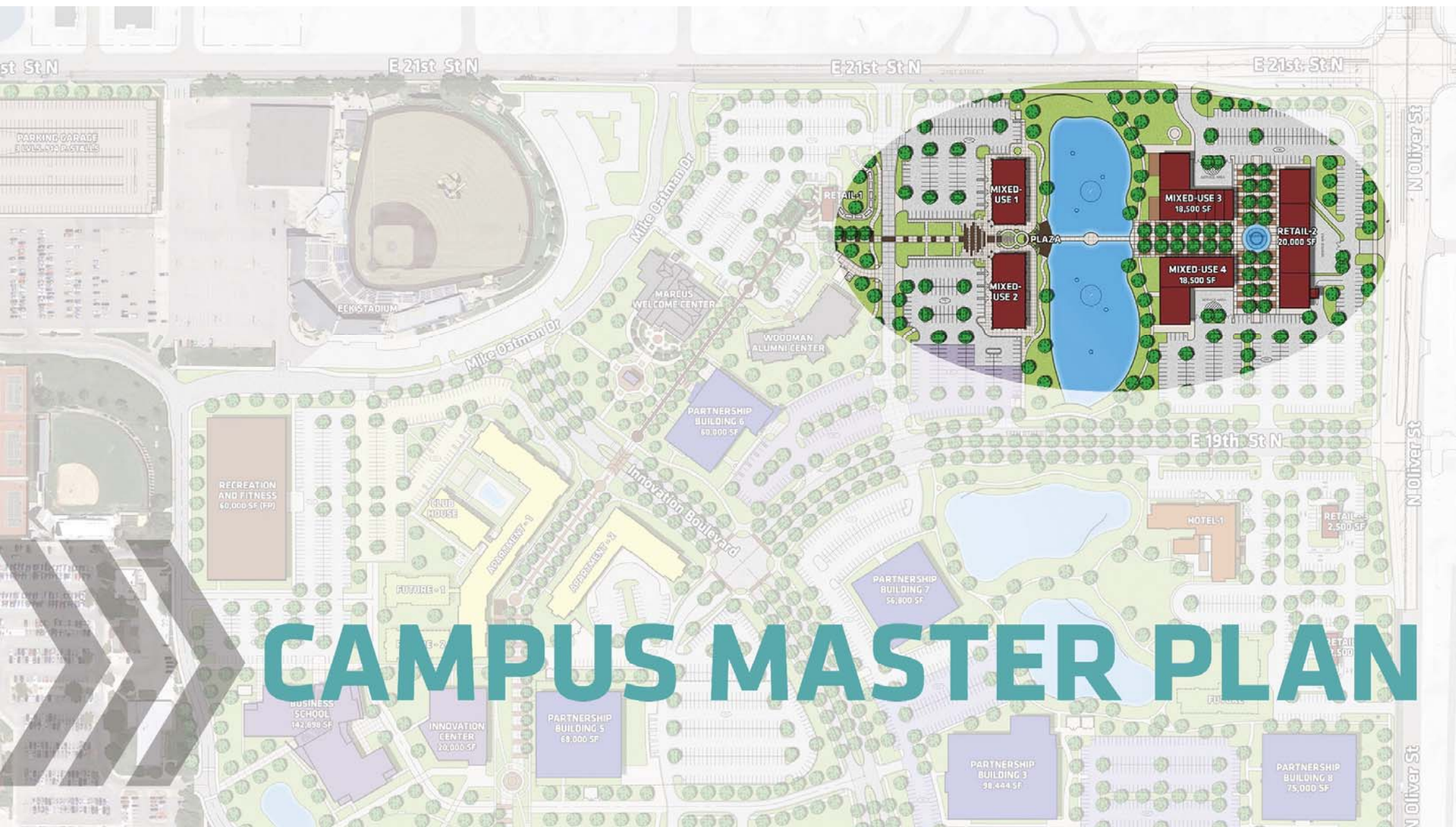
NATIONAL INSTITUTE FOR AVIATION RESEARCH

CRASH DYNAMICS

LABORATORY

NIAR CRASH DYNAMICS LAB





BRAEBURN SQUARE





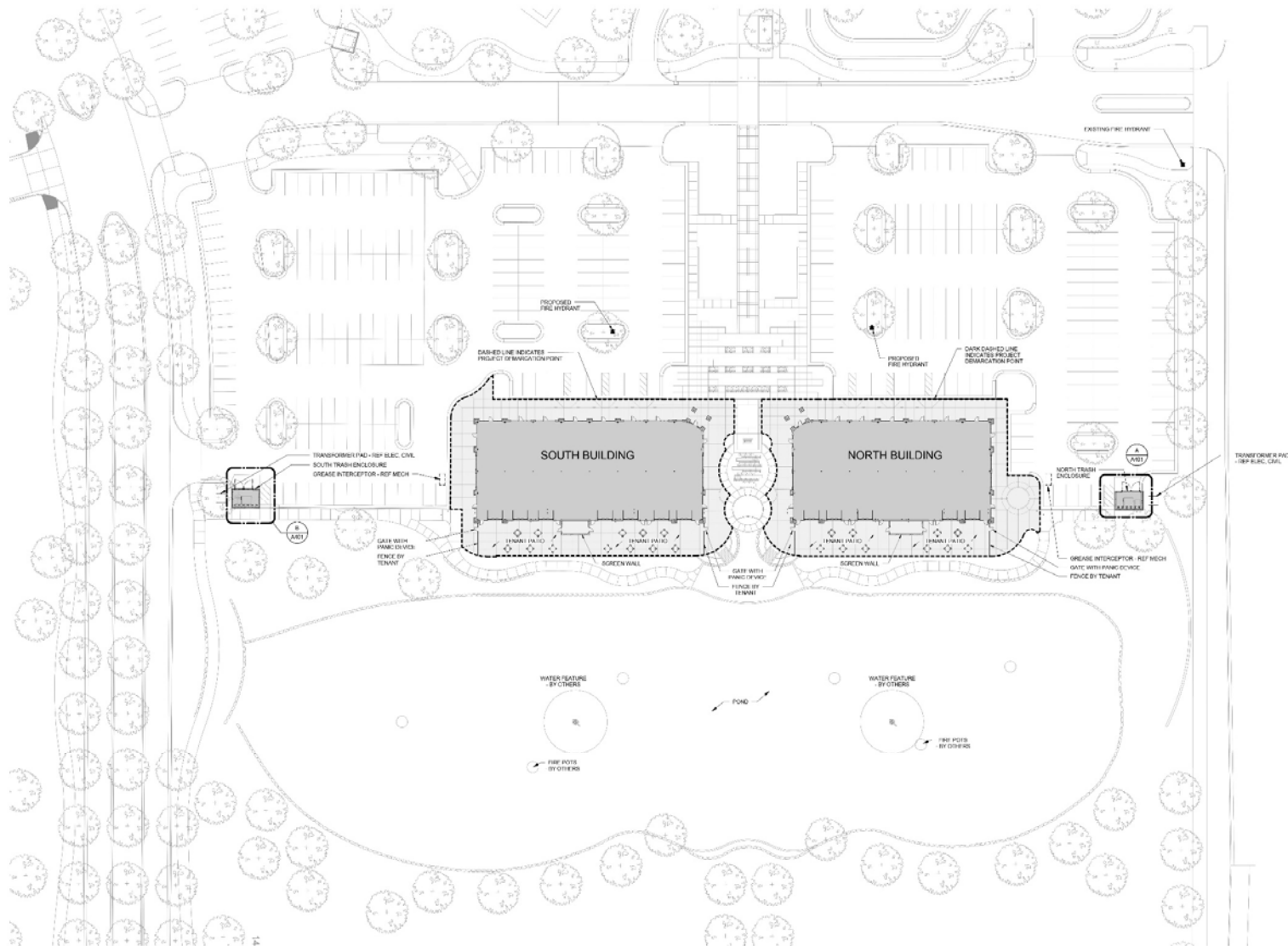
STARBUCKS

STARBUCKS

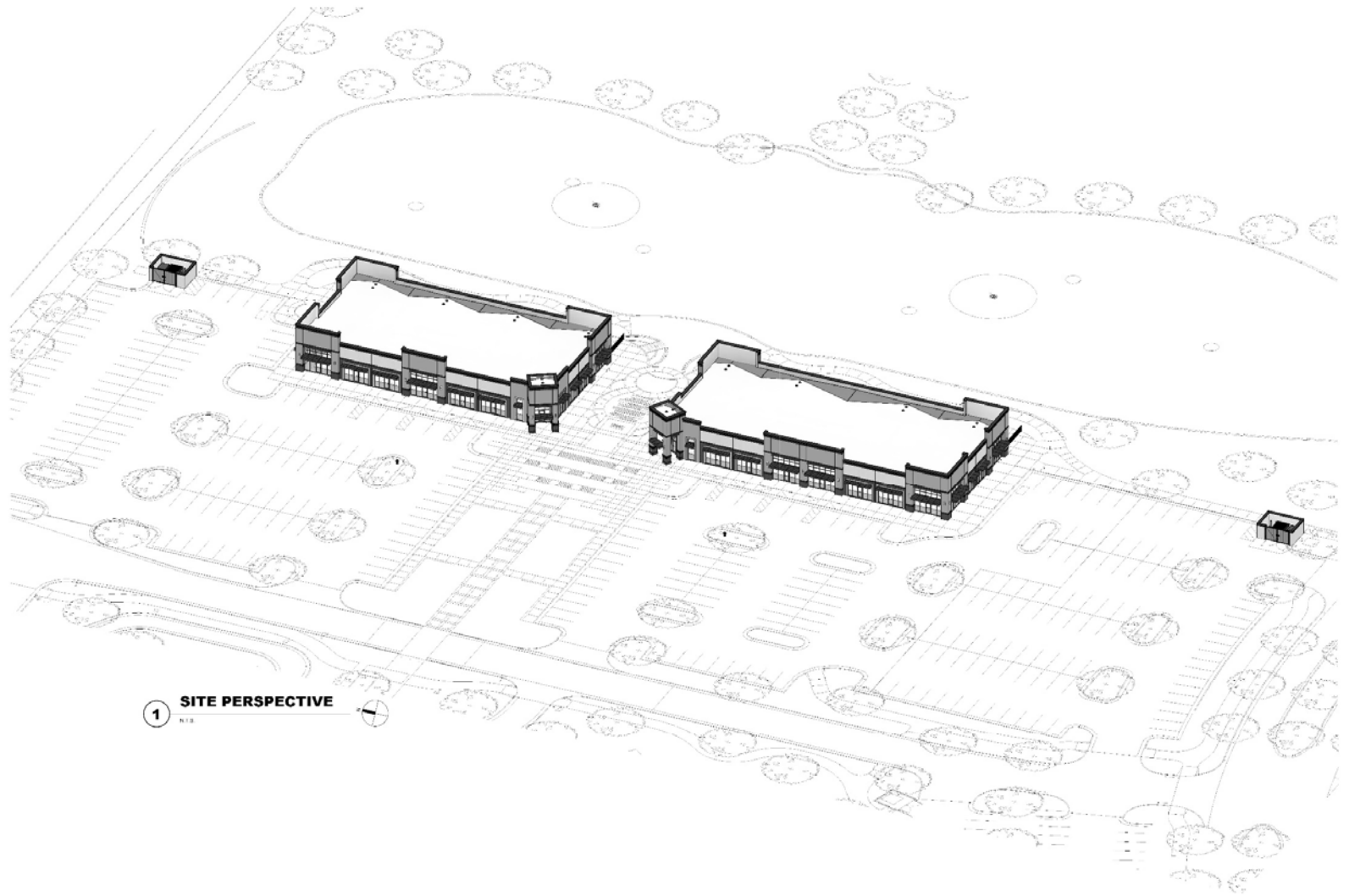
DRIVE
THRU





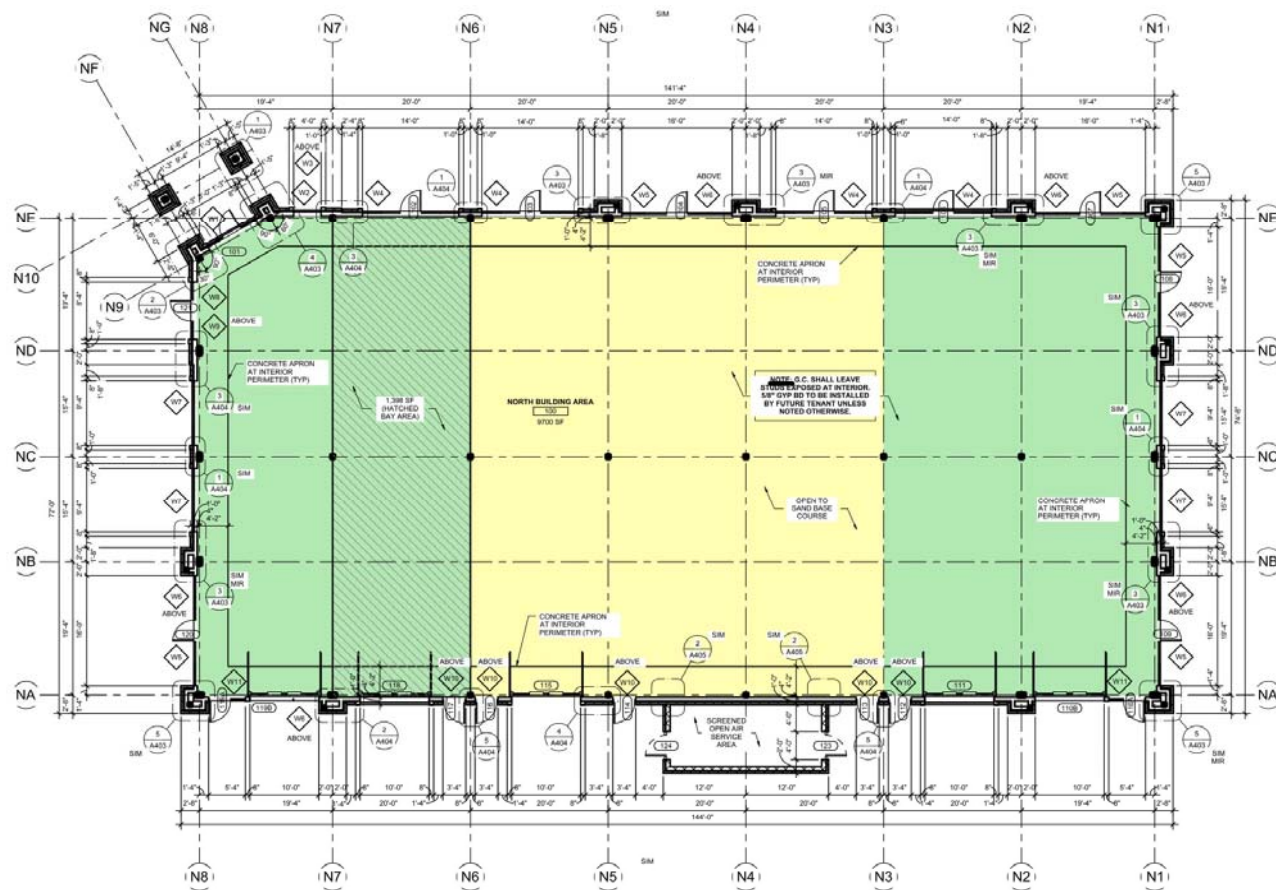


A **ARCHITECTURAL SITE PLAN** 1" = 30' 0"



1 SITE PERSPECTIVE

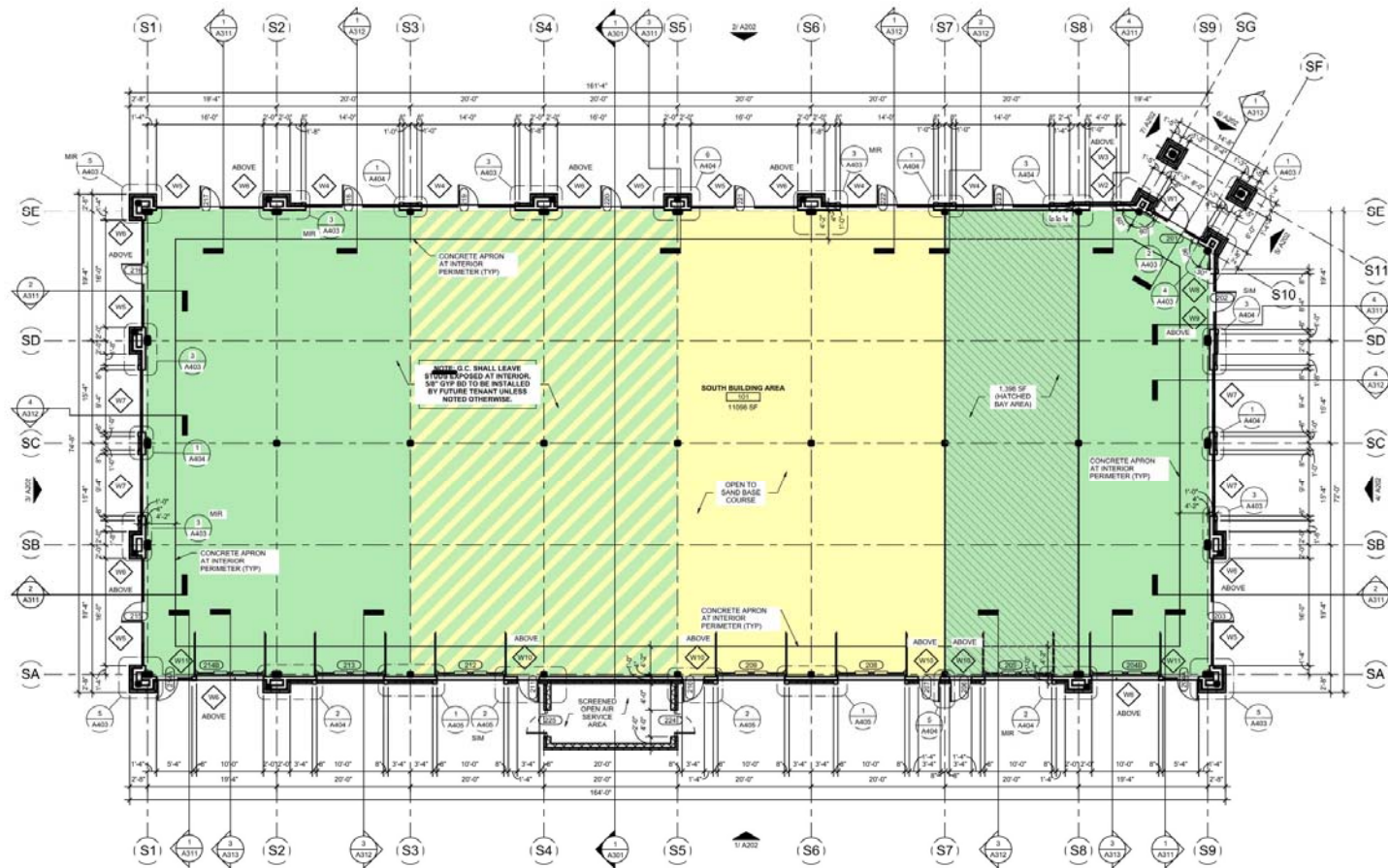
N18



A NORTH BUILDING - FLOOR PLAN

0' 5' 10' 15' 1/8" = 1'-0"





B SOUTH BUILDING - FLOOR PLAN

0' 5' 10' 15' 1/8" = 1'-0"



STUDENT HEALTH & WELLNESS CENTER

