Technical Education Centers

Propelling the Next Generation of our Workforce

John Bryant
Vice President Finance & Administration

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Director of Higher Education

DEMONICA KEMPER ARCHITECTS

WAUBONSEE COMMUNITY COLLEGE

Current and Future Opportunities

Key Factors for Program Selection

- Enrollment Demand
- Labor Market Demand and Projected Growth
- Secondary Partnerships
- Industry Partnerships

Enrollment*

CTE enrollment is up **7.12%** in credit hours enrolled

Automotive Technology

Spring 2022 = 270
Fall 2022 = 288

560

Auto Body Repair^

Spring 2022 = 54
Fall 2022 = 120

160

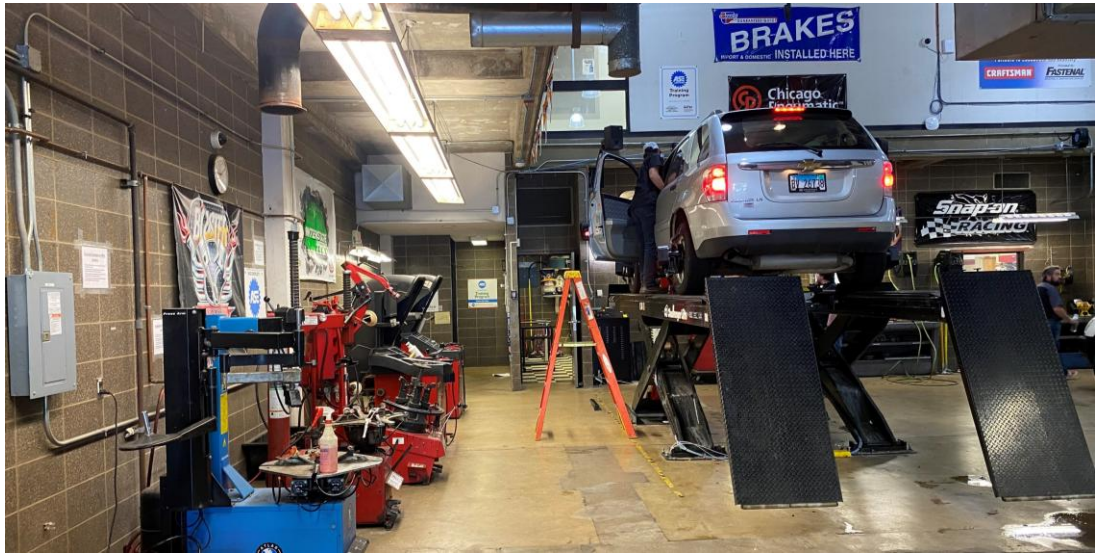
Welding Technology

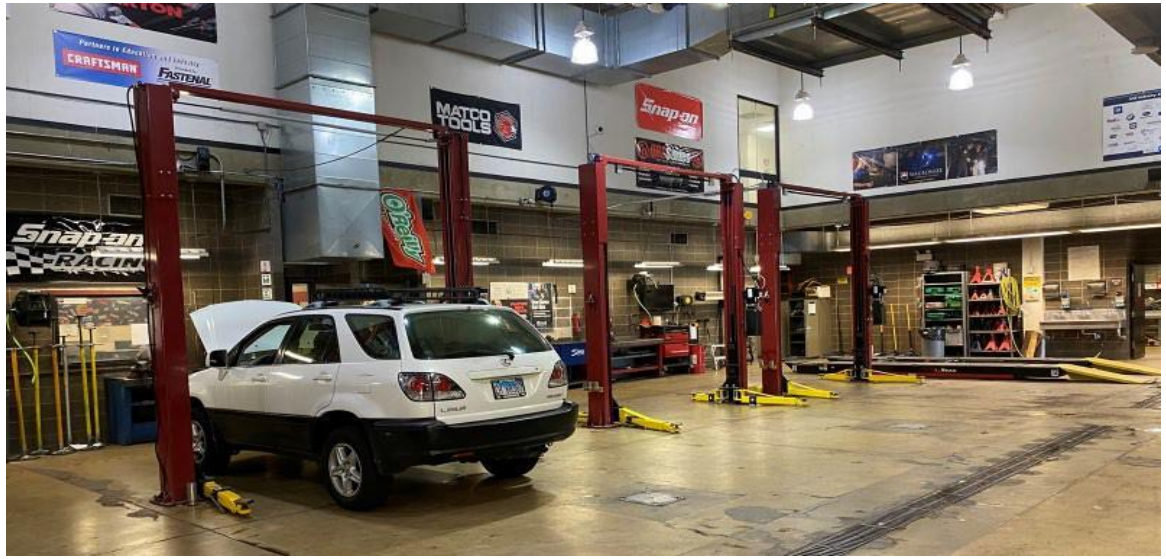
Spring 2022 = 117
Fall 2022 = 145

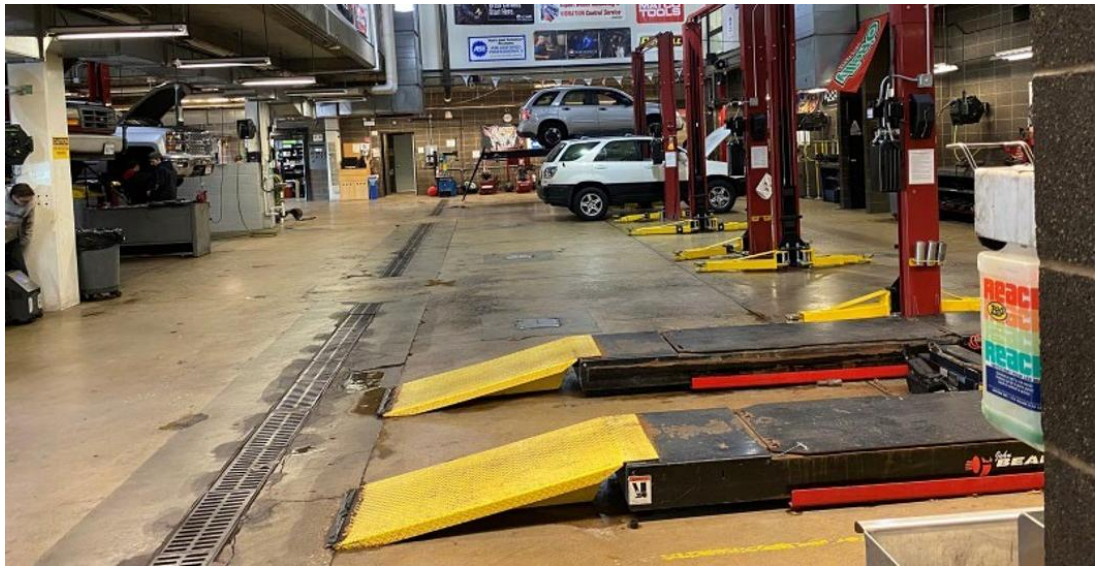
256

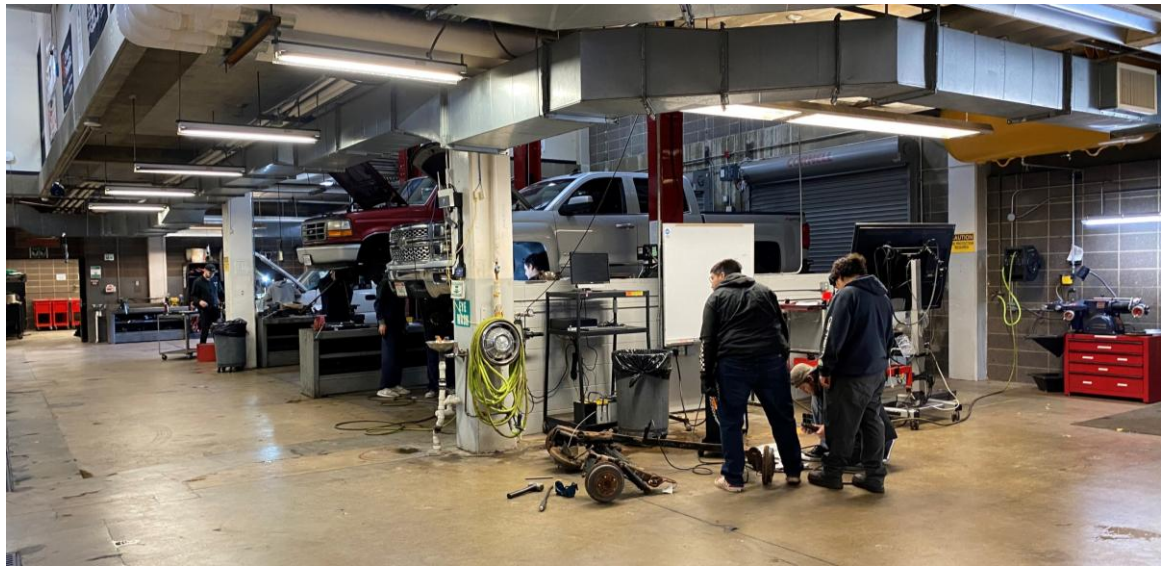
Enrollment figures based on duplicated enrollment representative of the classroom/lab capacity and utilization per section scheduled in fall, spring, and/or summer semesters
^Cohort program with a maximum of 20 enrolled students per semester; duplicated enrollment is representative of each section offered not individual course takers

Existing Automotive Technology Facility









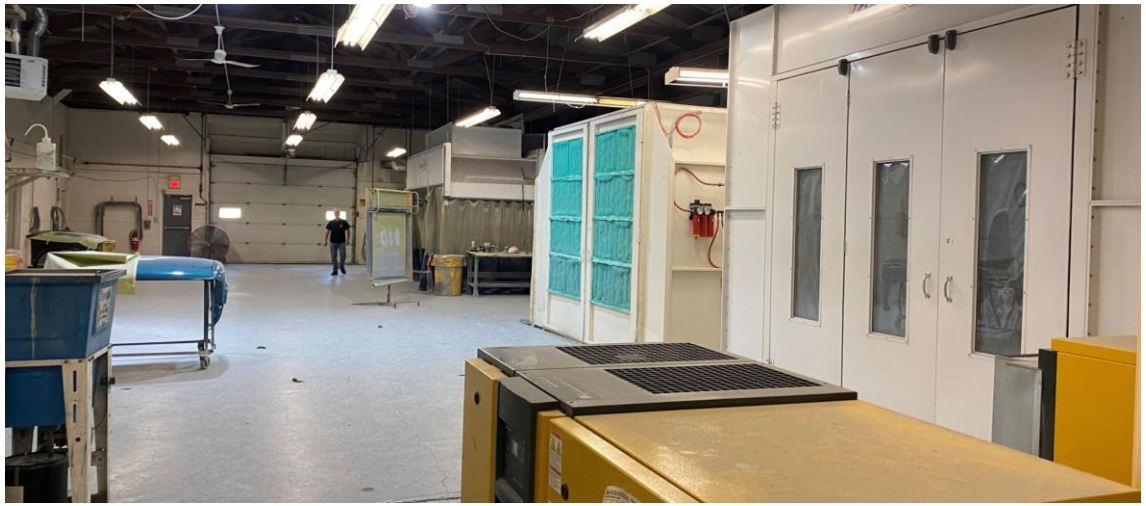
Preparing for the Future of Work:
Programmatic Growth

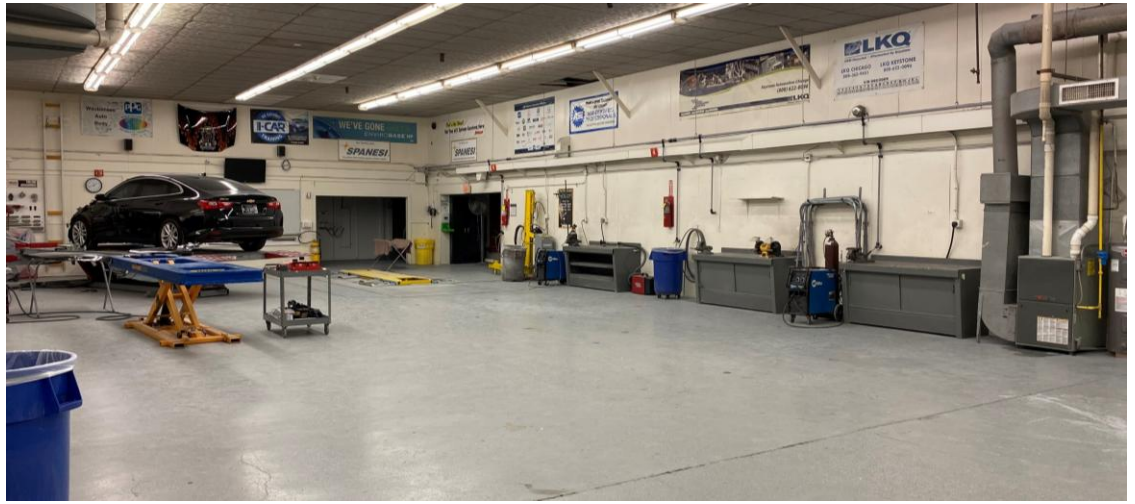
Automotive Technology

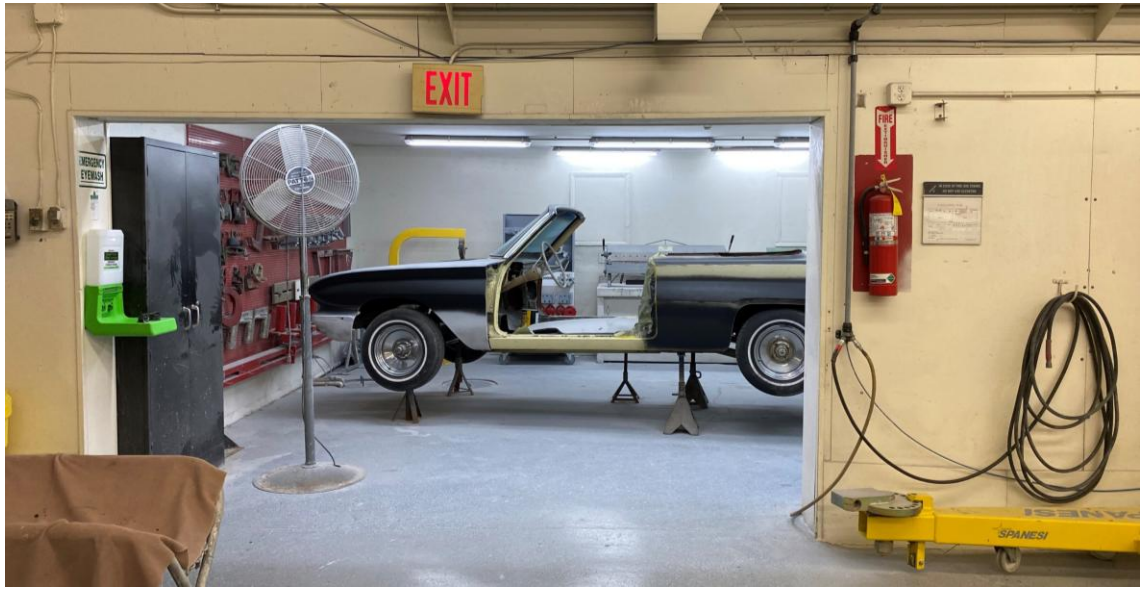
- Diesel Technology
- Electrification (EV)
- Electrical Troubleshooting
- Advanced Technology and Connectivity

Existing Autobody Repair Facility

Existing Autobody Repair Facility







Preparing for the Future of Work:
Programmatic Growth

Autobody Repair

- Estimatics
- Increased Cohort Capacity (AM/PM)
- Advanced Technology and Connectivity

Existing Welding Facility

Preparing for the Future of Work:
Programmatic Growth

Welding Technology

- Robotic Welding
- Fabrication and Testing
- Competency-Based Education
- AWS Accredited Test Facility (ATF)

Revised Program Needs

Program	2020 Enrollment Capacity	Projected Enrollment Capacity
Autobody Repair (ABR)*	20	150
Automotive Technology (AUT)	280	560
Computer-Aided Design (CAD)**	180	272
Machine Tool Technology (MTT)***	61	117
Welding Technology (WLD)	176	256
	717	**1355**

Notes:

*Increase to two cohorts (AM and PM) and addition of Estimatics

**Includes projections from Engineering Graphics (EGR)101 which utilizes the CAD lab/space

***Does not include the MTT100 Safety Principles online only offerings

Illinois Community College Trends

Black Hawk College

New Career & Technical Education Center

- 63,000 sf
- $22,925,000
- **Completed 2025**

Heartland Community College

Advanced Manufacturing & Technology Training Academy

- 45,100 sf
- $15,132,000
- **Completed 2023**

Illinois Central College

New Workforce Sustainability

- 30,000 sf
- $13,270,000
- **Completed 2023**

McHenry County College

New Center for Advanced Technology & Innovation

- 52,000 sf
- $25,000,000
- **Completed 2024**

Rock Valley College

New Downtown Learning & Training Center

- 95,000 sf
- $54,000,000
- **Completed 2026**

Waubonsee Community College

New Technical Education Center

- 100,000 sf
- $61,200,000
- **Completed 2025**

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$192M / 385,100 sf

WAUBONSEE COMMUNITY COLLEGE

Waubonsee Community College
Strategic Plan

REDEFINE

Our Relationship with the Community

INVEST

in Academic Innovation

STRENGTHEN

the Student Experience

ENRICH

the Employee Experience

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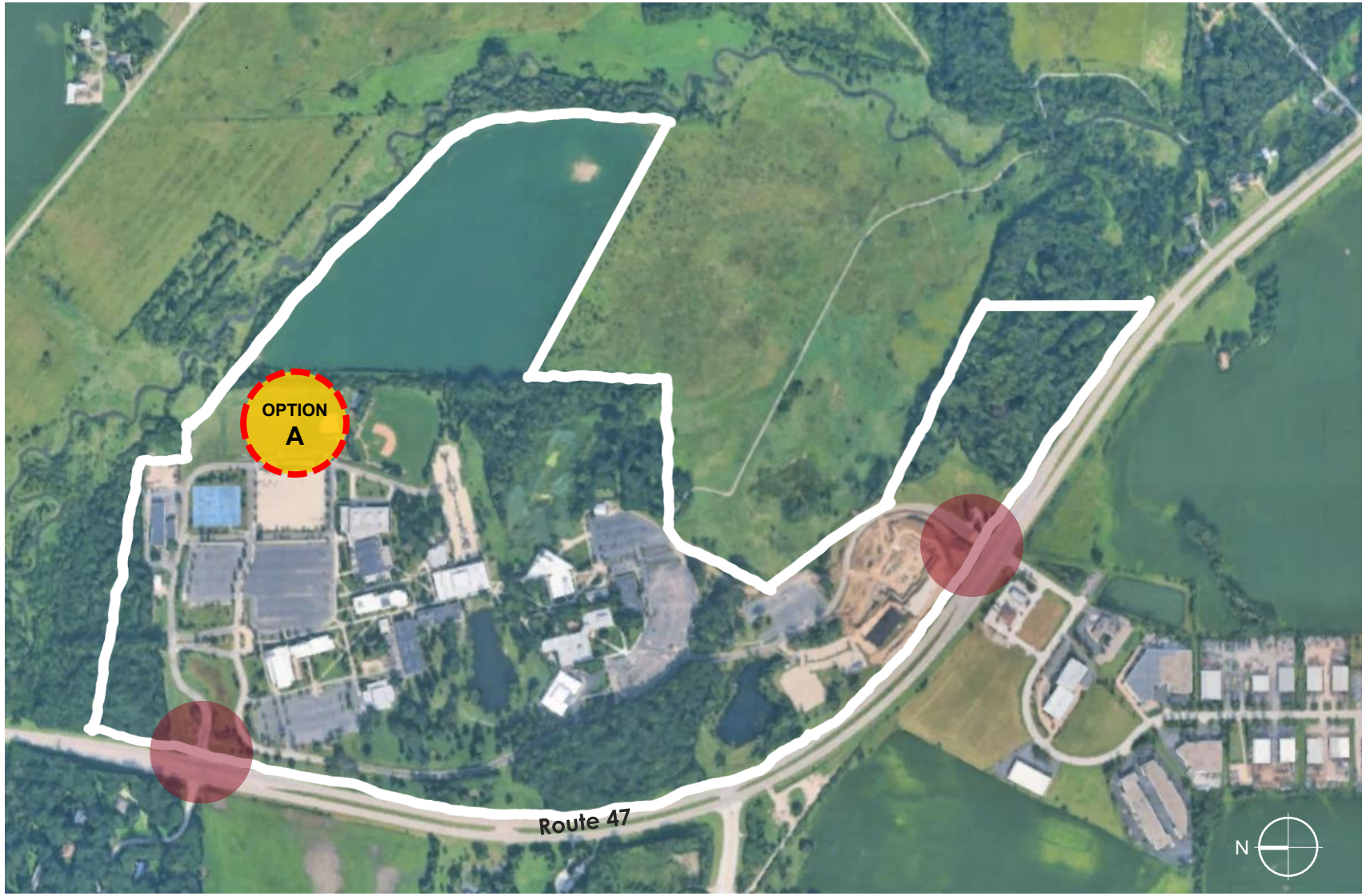
WAUBONSEE COMMUNITY COLLEGE

Site Location

Option A



Pros

- Minimal earthwork required
- Minimal extension of water main required

Cons

- Need to relocate athletic fields
- Disturbance of drainage below south parking lot
- Noise / odors near athletic fields
- Reduction of parking on campus
- No visibility from Route 47

Site Location

Option B

Pros

- Minimal earthwork required
- Maintains visibility from Waubonsee Drive / some from Route 47

Cons

- Anticipated poor soil conditions based on proximity to wetlands
- Buffer requirements at wetlands / tree demo
- Parking reduction
- Limited growth potential

Site Location

Option C

Pros

- Strong visibility from Route 47
- Space for Growth
- Use existing parking
- Minimal impact on Campus Core during construction

Cons

- Anticipated poor soil conditions
- Potential wetlands / tree demo
- Significant earthwork required
- Water main extension

Site Analysis

Topographic Survey

Geotechnical Study

Wetland Delineation Study

Environmental Site Assessment

Archaeological Study

Water / Sanitary Sewer Study

Site Analysis

- Views
- Circulation / Parking
- Existing Construction
- Vegetation / Water

Design Challenges & Opportunities

Views
- From Intersection
- Along Route 47
- Along Waubonsee Dr.

Two-Tier Site

Wetland Mitigation

Proximity to Existing Parking

Existing Auto Body Building to Remain thru Construction

Equipment-Driven Design

BENCH BRAKE LATHE
WXDXH: 49 X 36 X 76 in

PARTS WASHER
WXDXH: 36 X 24 X 43 in

SIDE DRAFT PAINT ROOM
WXDXH 16'4" x 26'4" X 11'2"

DOWNDRAFT PAINT BOOTH
WXDXH: 36 X 24 X 42 in

MOTORVAC MACHINES
WXDXH: 92 X 265 X 77 in

TRANS FLUSH MACHINES
WXDXH: 43 X 35 X 68 in

SEMI DOWN-DRAFT
PAINT BOOTH
WXDXH 14'8" 25'4" 11'2"

PAINT PREP BOOTH
14' x 24'
can be customized to 18'-6" x 27'
w/ 3' of circulation around booths

HOT TANK
WXDXH: 51 X 43 X 81 in

ON-CAR BRAKE LATHE 1
WXDXH: 60 X 24 X 84 in

Coordination of Over

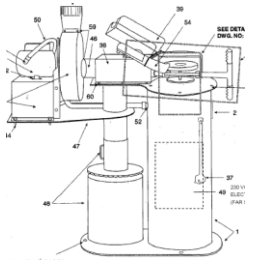
150

Pieces of Equipment

PIPE BEVELER
WXDXH: 27 X 18.5 X 7 in

METAL SHEAR
/ IRON WORKER
WXDXH: 74 X 48 X 68 in

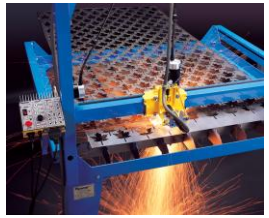
BAND SAW
WXDXH: 90 X 46 X 56 in



BACK STRAP REMOVAL
WXDXH: 45 X 31 X 48 in

DRILL PRESS W/ STAND
WXDXH: 45 X 31 X 48 in

IRON WORKER
WXDXH: 48 X 27 X 76 in



PLASMACAM
WXDXH: 60 X 64 X 90 in

HYDRAULIC WRAP-
AROUND BENDER
WXDXH: 36 X 36 X 34 in

CHOP SAW
TBD

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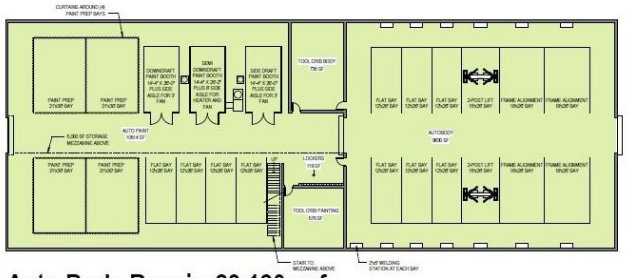
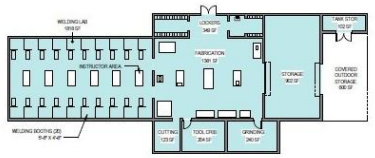
WAUBONSEE
COMMUNITY COLLEGE

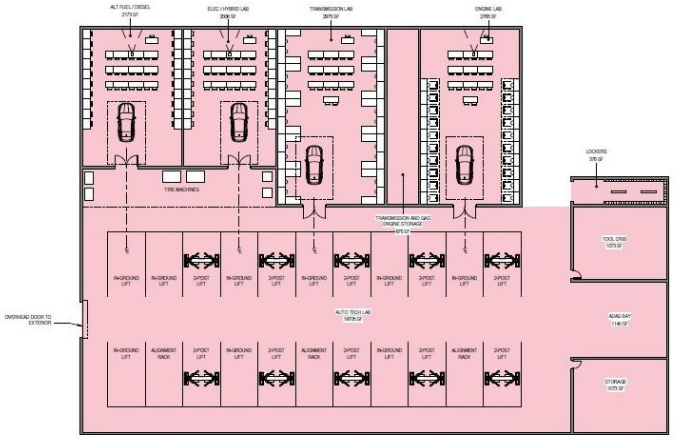
Program Needs



Auto Body Repair: 23,120 nsf

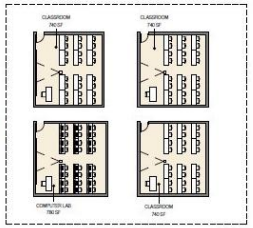


Welding: 4,990 nsf

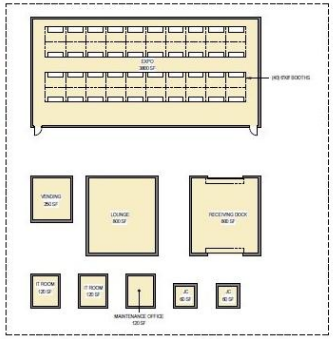


Auto Tech: 31,650 nsf

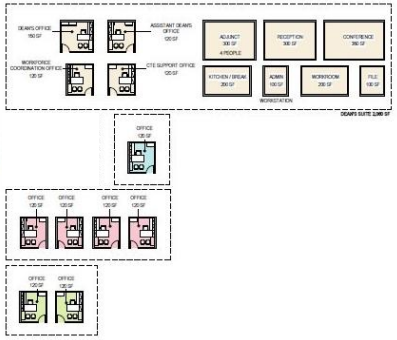
Classrooms: 3,000 nsf



Common Space: 6,130 nsf



Offices: 3,140 nsf



Automotive Technology	32,130 nsf
Auto Body Repair	23,360 nsf
Welding Technology	5,110 nsf
Classrooms / Computer Labs	3,000 nsf
Office Suite	2,060 nsf
Common / Support Space	6,130 nsf
Net Assignable Building Area	71,790 nsf
Grossing Factor	28,716 sf

Total Gross Building Area 100,506 gsf

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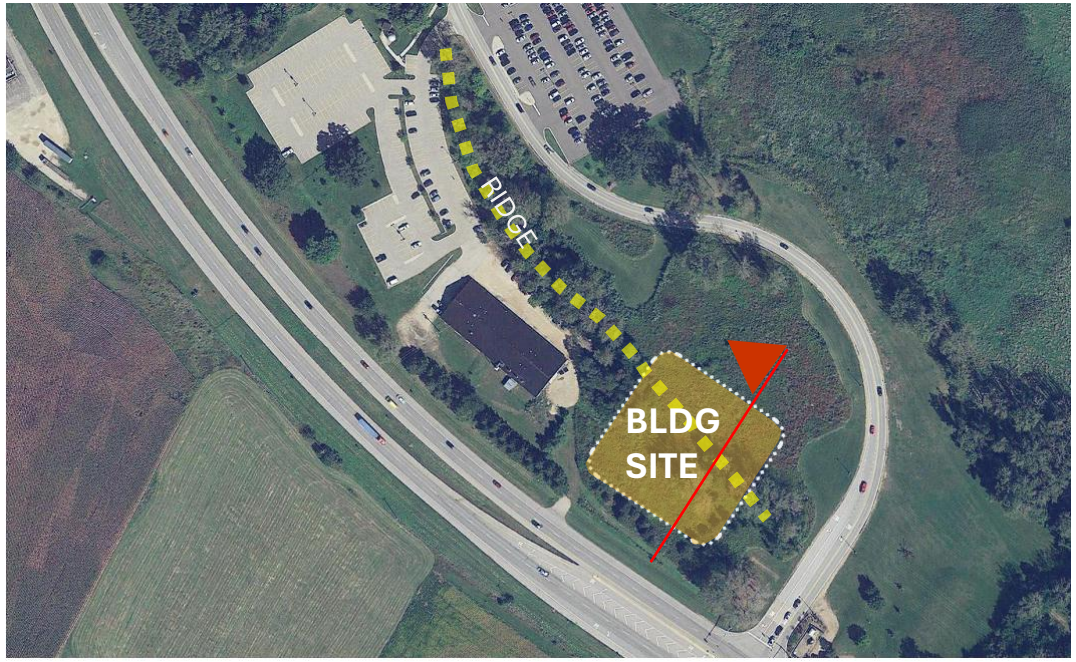
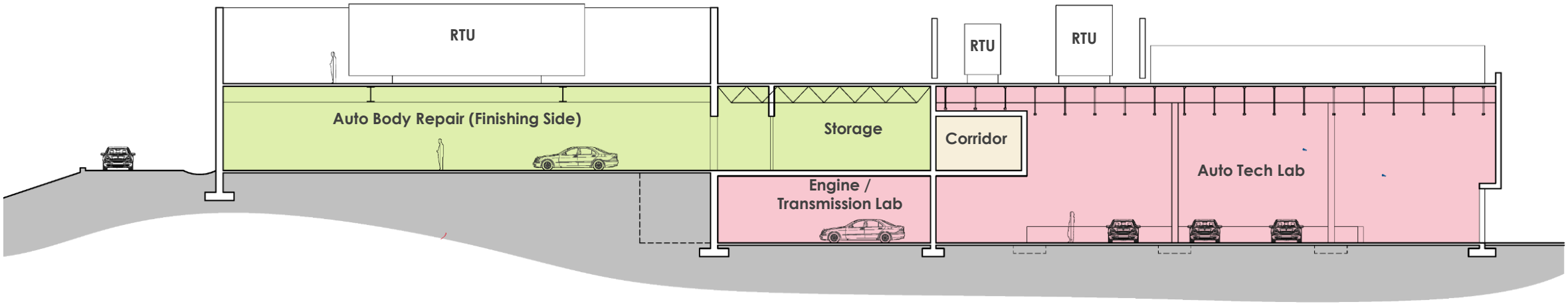
Site Section Looking North





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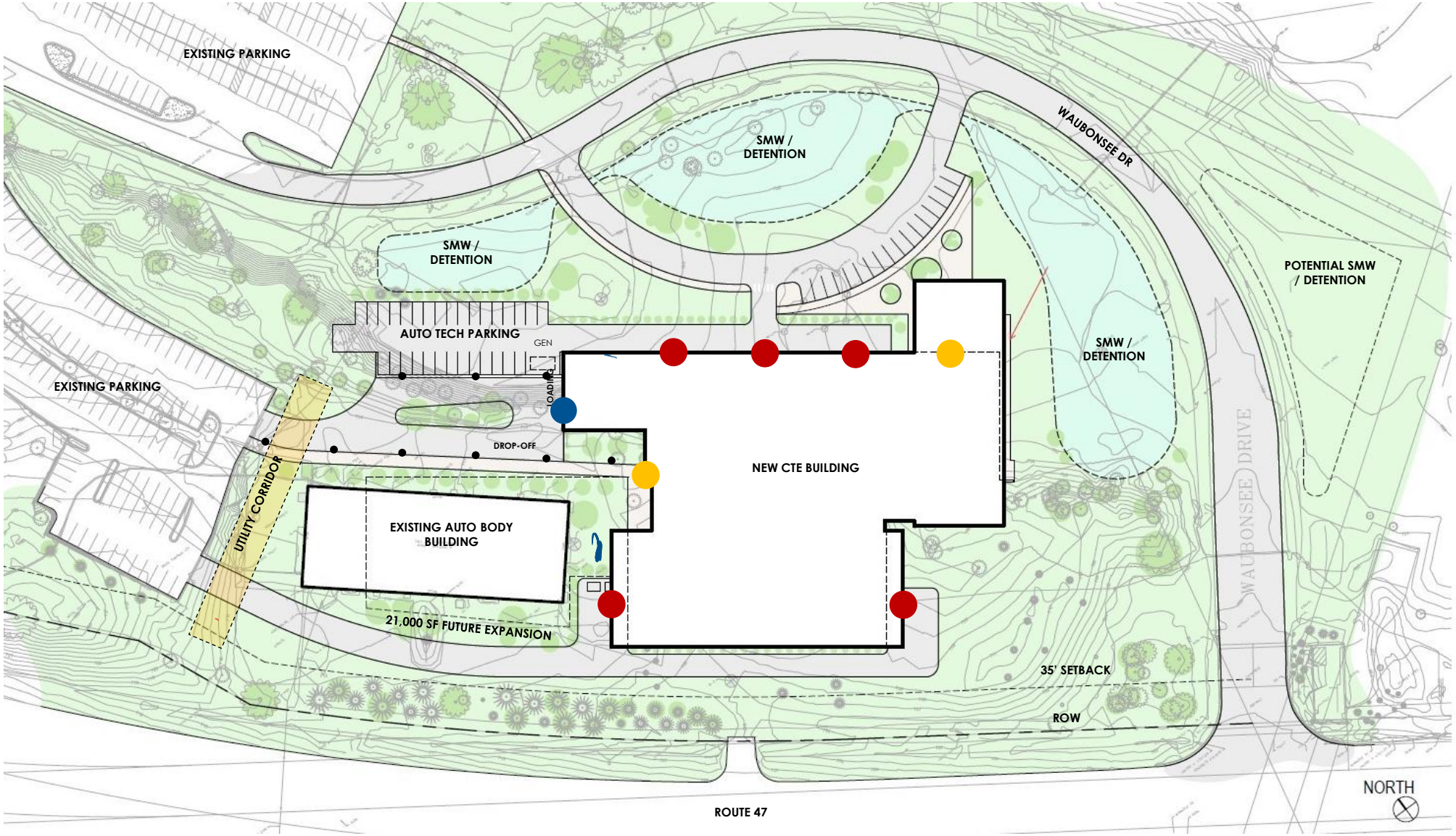
Pepper Construction

Site Plan



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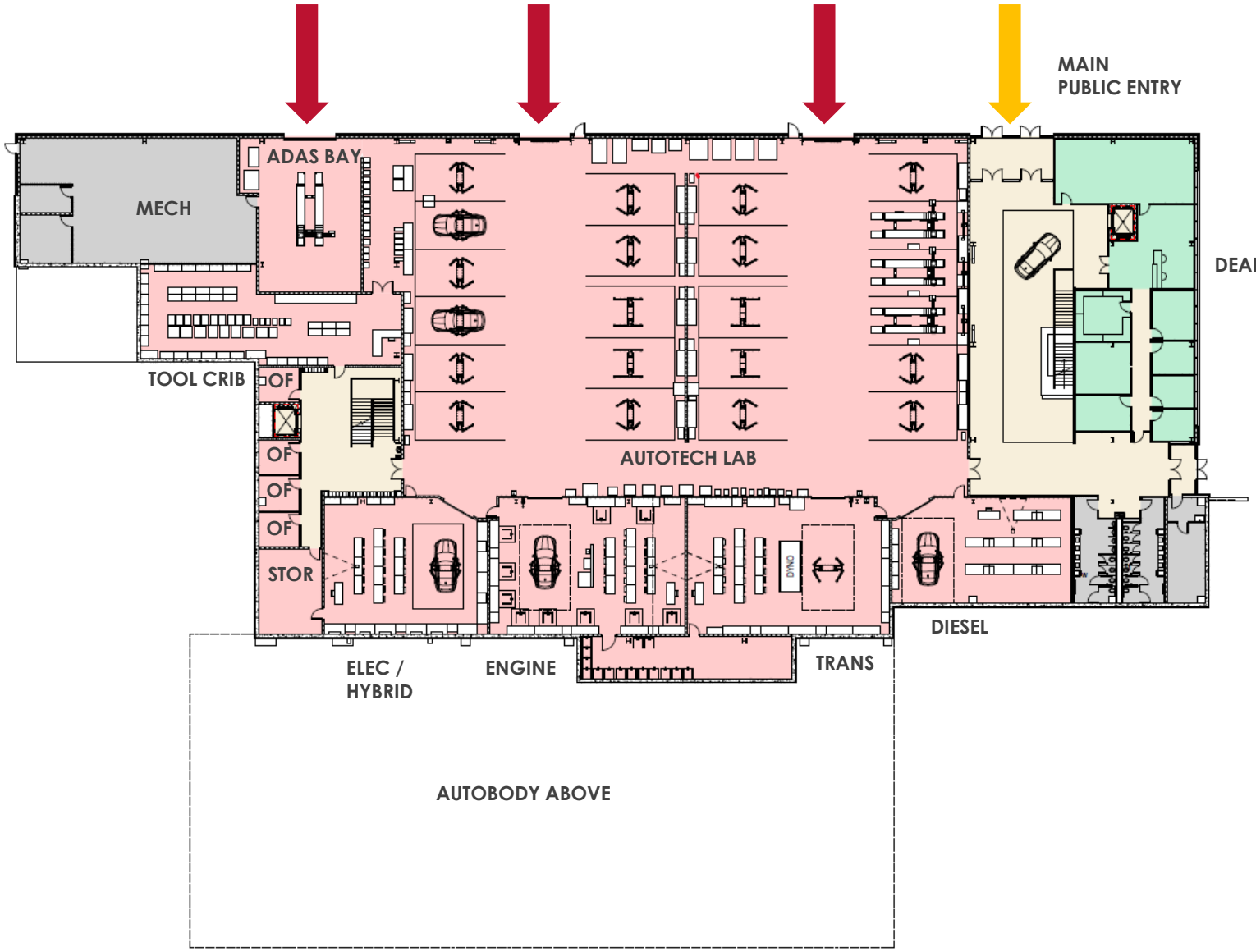
Lower Level Floor Plan



(22) Vehicle Bays
- (3) Alignment Bays

ADAS bay

Electric Vehicle Lab

Engine Lab

Transmission Lab

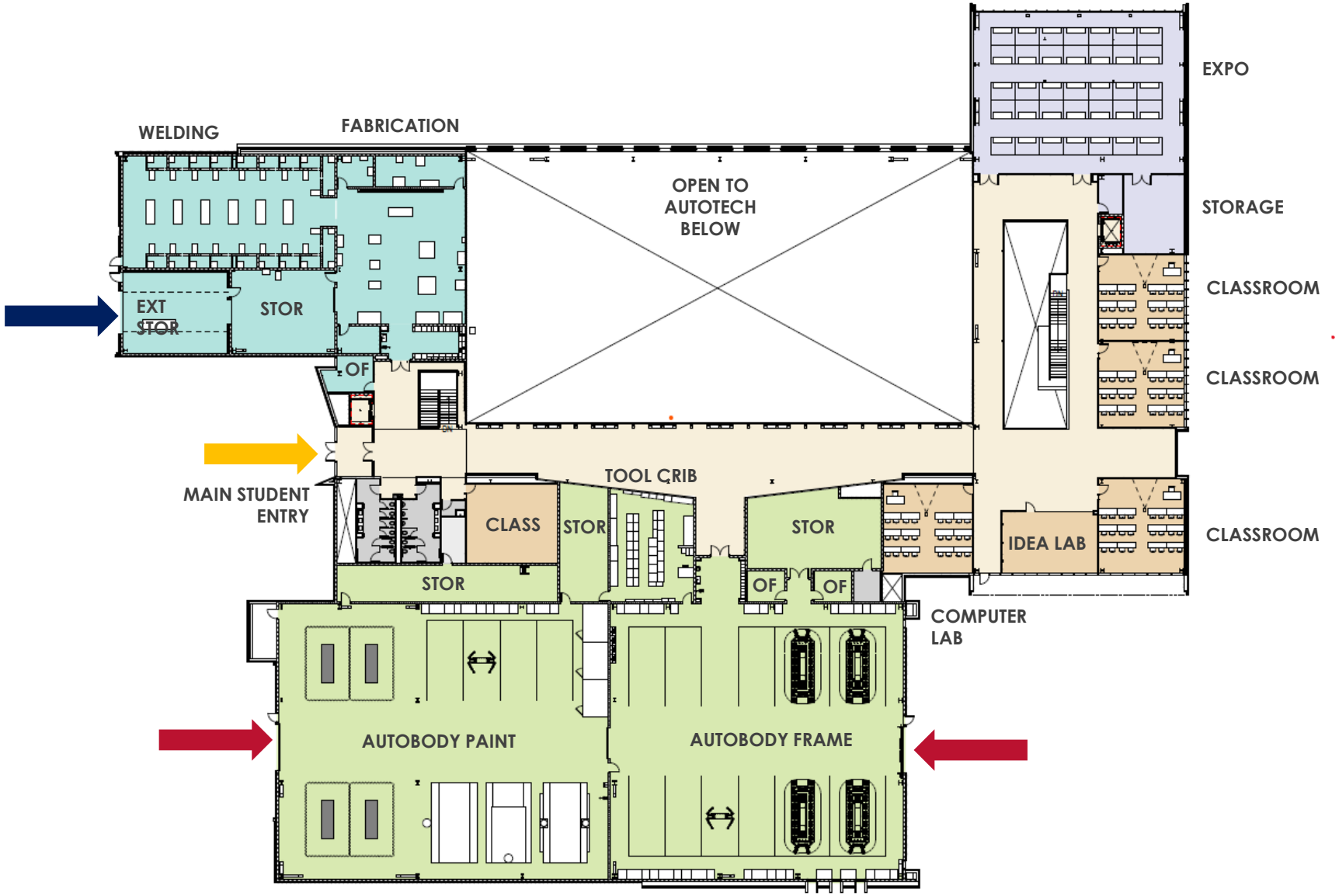
Diesel Lab

Tool Crib

Legend

WELDING:
CIRCULATION:
CLASSROOMS:
SERVICE:
AUTOBODY:
AUTOTECH:
DEAN'S SUITE:
EXPO:

Upper Level Floor Plan



Legend

WELDING:
CIRCULATION:
CLASSROOMS:
SERVICE:
AUTOBODY:
AUTOTECH:
DEAN'S SUITE:
EXPO:

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WAUBONSEE COMMUNITY COLLEGE

Pepper Construction

Preliminary Cost Evaluation

Subtotal						**$34,299,100**
	General Conditions and Overhead and Profit		15%			**$5,144,865**
Design Cost Estimate						**$39,443,965**
	Contingency		10%			$3,944,397
Total Construction Cost Estimate						**$43,388,362**
	Add Building A&B Phasing Allowance					
	Maintain existing building - logistics premium	3	months	$ 125,000.00		**$375,000**
	Shoring allowance	1	ls	$ 75,000.00		**$75,000**
	Building AB Phasing Sub-total					**$450,000**

Original Cost Estimate Prepared December 2020

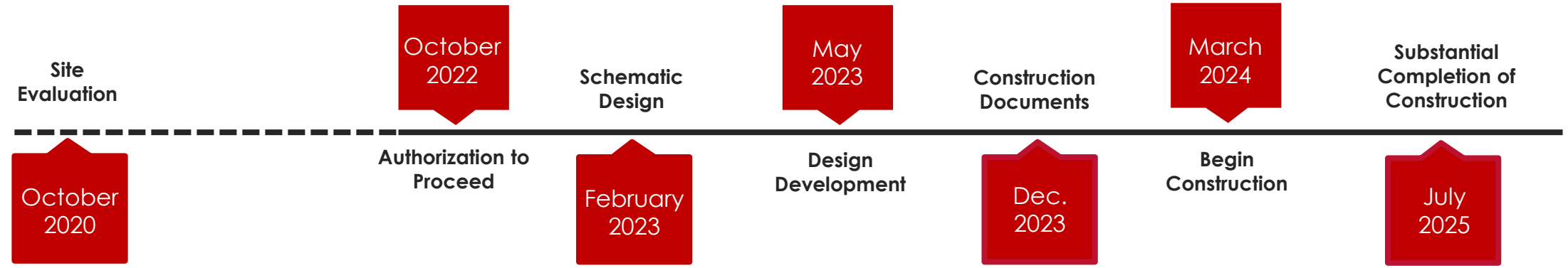
Escalation thru 2023: $9,644,440
- > 2021 Escalation @ +/-10%
- > Est. 2022 Escalation @ 5%
- > Est. 2023 Escalation @ 5%

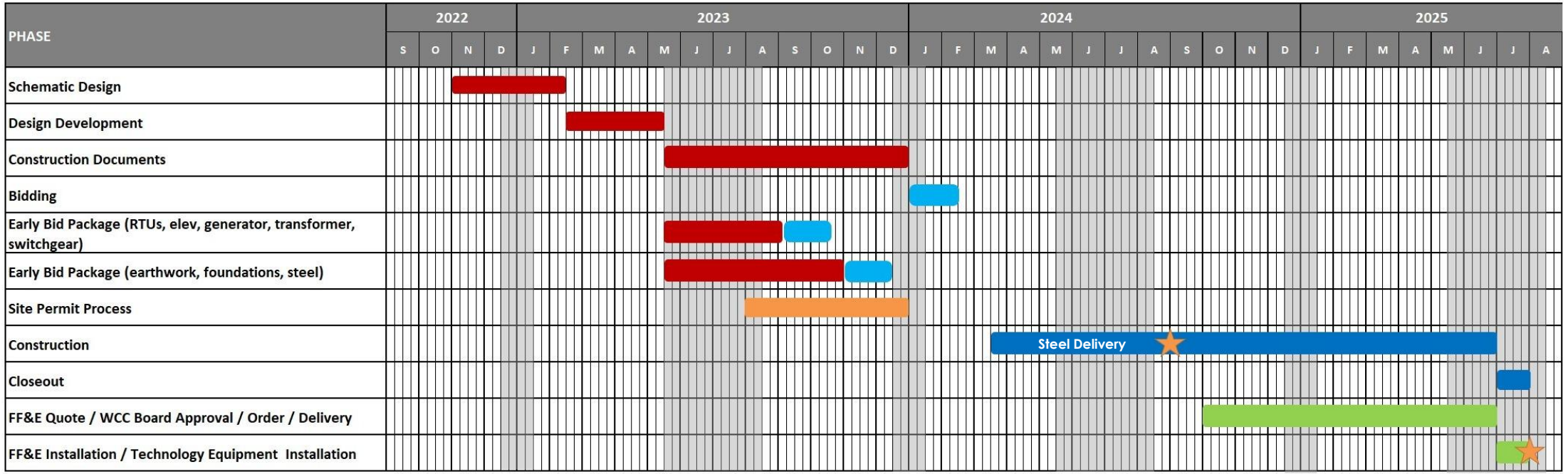
Furniture & Equipment Estimate: $3,500,000

Fees & Reimbursables Estimate: $4,278,600

TOTAL ESTIMATED PROJECT COST: $61,261,402

Preliminary Project Timeline





Design Inspiration

Detail
Precision
Speed
Design
Quality

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Pepper Construction

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TECHNICAL EDUCATION CENTER

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Pepper Construction

Aerial View of Site

from the southwest

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View from Route 47

daytime view

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WAUBONSEE
COMMUNITY COLLEGE

View from Route 47

dusk view

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View from Route 47

evening view

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View from Entry Intersection

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View from Waubonsee Drive

event space / classrooms

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WAUBONSEE COMMUNITY COLLEGE

View from Waubonsee Drive

event space / daytime view

DEMONICA KEMPER ARCHITECTS

WAUBONSEE COMMUNITY COLLEGE

View from Waubonsee Drive

event space / administration entry / daytime view

DEMONICA KEMPER ARCHITECTS

WAUBONSEE COMMUNITY COLLEGE

View from Waubonsee Drive

event space / administration entry / dusk view

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WAUBONSEE COMMUNITY COLLEGE

View from Campus Core

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Vehicle Entries auto tech lab

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Student Entry from the north

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Student Entry

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Main Corridor / Bridge

entry to Auto Body Repair

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Main Corridor / Bridge

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Main Corridor / Bridge

student collaboration space

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Pre-function Space

student collaboration space

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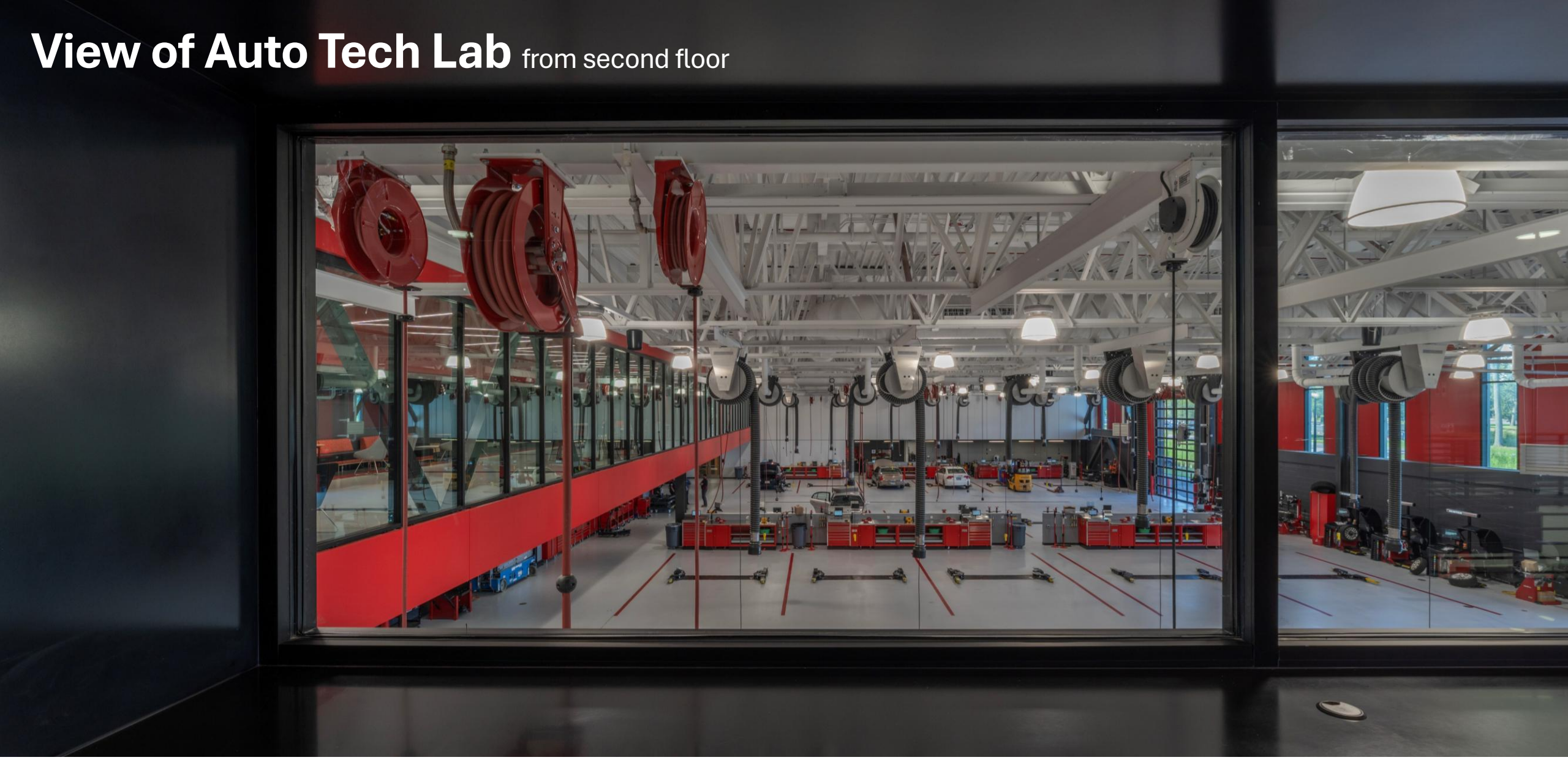
View of Auto Tech Lab from second floor



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Event Space

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Pre-function Space

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Auto Tech Lab

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WAUBONSEE
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Auto Tech Lab

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Engine Lab

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Welding Lab

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Auto Body Repair Lab

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Auto Body Repair Lab

(3) paint booths
(2) double prep booths
(2) paint mixing / prep areas

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WAUBONSEE COMMUNITY COLLEGE

Ribbon Cutting Ceremony

September 12, 2025

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WAUBONSEE COMMUNITY COLLEGE

Ribbon Cutting Ceremony

September 12, 2025

Engagement of Industry Partners

Enrollment Projections vs. Actual Fall 2025

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Questions & Answers

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