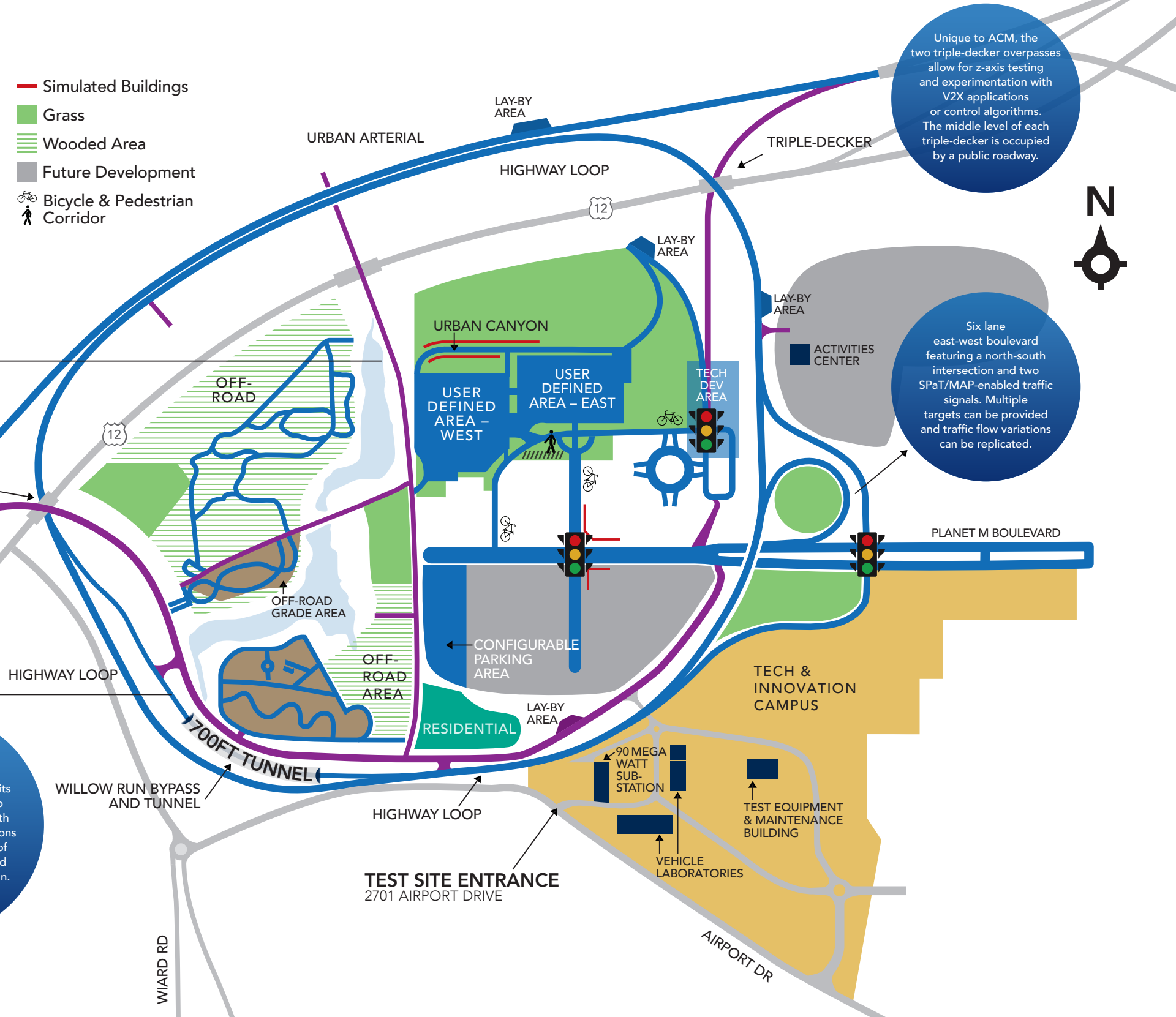


ACM SITE KEY

- Test Road
- Access Road
- Buildings
- ACM Tech Park
- Tech & Innovation Campus
- Residential Area
- Simulated Buildings
- Grass
- Wooded Area
- Future Development
- Bicycle & Pedestrian Corridor

ACM's UDA is an eleven-acre test area that can be outfitted with temporary lane lines and artificial re-creations of public environments.

700 ft. / 215 meter highway-speed curved tunnel constructed with corrugated metal. Tunnel exits due east, allowing tester to evaluate and experiment with hardware and software solutions to cope with the extremes of glare from the rising sun and shadows from the setting sun. Tunnel exit is not visible at the entrance.



Unique to ACM, the two triple-decker overpasses allow for z-axis testing and experimentation with V2X applications or control algorithms. The middle level of each triple-decker is occupied by a public roadway.

Six lane east-west boulevard featuring a north-south intersection and two SPaT/MAP-enabled traffic signals. Multiple targets can be provided and traffic flow variations can be replicated.



ENVIRONMENTS, INTELLIGENT TRANSPORTATION SYSTEM & TECHNOLOGY FEATURES:

- 2.5 Mile (4 km) Highway Loop
 - 2+ Lanes, 50-65 mph
 - Exit and Entrance Ramps
 - Triple-decker Bridges
- 700 ft. (215 meter) Curved Tunnel, 55 mph
- 1.5 Mile (2.4 km) Urban Arterial Road, 2 Lanes, 55 mph
- 6 x 6 Lane Reconfigurable Intersection, 55 mph
- User-defined Area, 8+ Acres
- Urban Canyon
- Off Road Course
- Parking Environment
- 2 Lane Roundabout
- Bicycle Lane and Pedestrian Corridor
- 1.1 Mile (1.8 km) Off-Road / 2-Track Network
- ITS Network:
 - 96-strand fiber-optic back haul
 - Private 4G LTE Cellular Network
 - (15) 5.9 Ghz DSRC Roadside Units
 - (7) Wifi Access Points
 - (5) 480v; 240v xfmr
 - Cloud (Data Management and Analytics Platform)
- Garages – Short & Long Term
- 41 Intersecting Points
- Overhead signs at bridge and gantries
- Cold Chamber



FUTURE ENVIRONMENTS AND FEATURES:

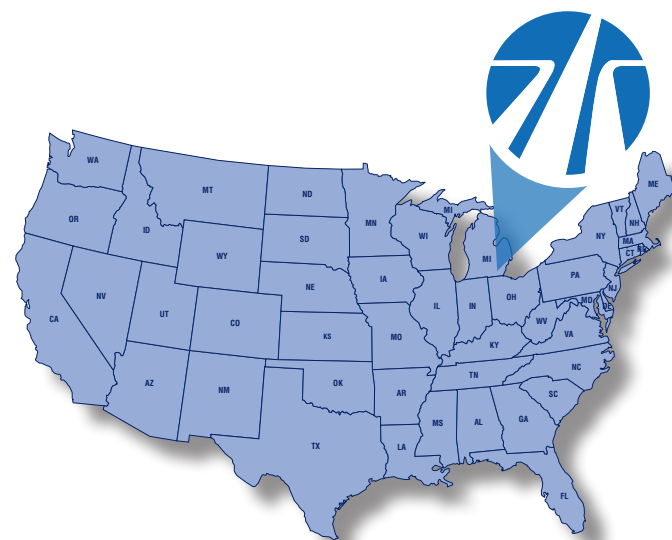
- Residential Test Environment
- Signalized Corridor (Urban Canyon/Intersections)
- Low Mu Pad
- 5G Sub 6Ghz Network
- Cybersecurity Lab
- Multi-mode: Air and Rail; In Addition to Car and Commercial Trucks
- xFC Station, Wireless Static and Dynamic Charging

CUSTOM TESTING EXPERIENCE

BEYOND INFRASTRUCTURE ACM ALSO PROVIDES TEST EQUIPMENT:

- DRI Soft Car 360 Global Vehicle Target
- OxTS RT-Base Station
- AB Dynamics Guided Soft Target with a self-propelled platform
- AB Dynamics Steering and Pedal Robots
- EV Chargers
- Escort and Interaction Vehicles
- Euro NACP Vehicle Target (EVT) and Pedestrian Targets
- 4 activePS Static Adult and Child Pedestrian Targets and Surfboards
- Moshon Data Foam Core Vehicle Target
- Moshon Data Foam Slab Vehicle Target
- RaceLogic VBOX ADAS Data Acquisition and RTK System
- Road Mist Simulator
- Rooster Tail Trailer
- Overhead Rain Gantry
- Facility 3D Map
- High Speed Data Services
- Augmented Reality Simulation Tools

ACM is developing a custom cloud-based Data Management and Analytics Platform tool that will enable users to ingest and share test data securely and with greater efficiency.



POWERED BY
intertek

MORE INFORMATION:
www.acmwillowrun.org

CONNECT WITH US:
info@acmwillowrun.org
(734) 482-0701

 Twitter@acmwillowrun

 linkedin.com/company/american-center-for-mobility

AMERICAN CENTER FOR MOBILITY
2701 AIRPORT DRIVE • YPSILANTI TOWNSHIP, MI 48198

ACM OFFERS A COMPLETELY

The American Center for Mobility (ACM) is a smart mobility test center designed to enable the research, development, test, validation, self-certification and training for emerging vehicle and transportation technologies.

Located in the heart of the automotive industry just minutes from Detroit Metropolitan Airport in Ypsilanti Township, ACM is a shared use facility open to the public spanning more than 500 acres. ACM features real-world road systems and a range of testing capabilities:

- Simulation of virtually any driving conditions (snow, sun, rain, sleet)
- Extensive network infrastructure
- Flexible usage options to create time and tech efficiencies
- Equipped to enable a combination of simulation, track testing and on-road testing
- Accommodates all classes of vehicles 1-8

ENGINEERING SERVICES

ACM's professional team members have proven automotive industry experience, technical knowledge, and skills to support clients solve complex CAEV testing challenges offering the following services:

- Engineering Support
- Test Plan Development
- Test Report Development
- Drivers
- Technicians