



INFRASTRUCTURE FOR THE eVTOL AIRCRAFT ECOSYSTEM

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THE INFRASTRUCTURE NEEDED FOR ELECTRIC VERTICAL TAKE-OFF AND LANDING (eVTOL) AIRCRAFT CALLS FOR THE SAME PLANNING, DESIGN, AND ENGINEERING THAT **MERRICK HAS BEEN DELIVERING IN ADJACENT SECTORS FOR DECADES**. FROM VERTIPORTS AND MEGAWATT-SCALE POWER SYSTEMS TO AEROSPACE FACILITIES AND SPACEPORTS, MERRICK DELIVERS THE INTEGRATED INFRASTRUCTURE THAT ENABLES ADVANCED AVIATION DEPLOYMENT.

Advanced aviation is transitioning from concept to deployment. The FAA's eVTOL Integration Pilot Program, commercial air taxi operations, and preparations for the 2028 Los Angeles and 2034 Salt Lake City Olympics are accelerating demand for new aviation infrastructure. Deploying these systems will require megawatt-scale power, aerospace manufacturing and maintenance facilities, FAA-coordinated site approvals, and integrated master planning. Merrick has delivered these capabilities for decades across aerospace, energy, federal, and transportation markets.



POWER INFRASTRUCTURE AND GRID INTEGRATION

Advanced aviation and vertiports require megawatt-scale electrical infrastructure, battery energy storage, and utility integration that exceeds traditional airport requirements. Merrick has designed comparable systems for military installations and utility clients, including resilient power systems built for future renewable expansion.



AEROSPACE MANUFACTURING AND OPERATIONS

eVTOL and advanced aircraft require manufacturing, maintenance, and test facilities designed for operational demands that don't align with conventional airport infrastructure. Merrick has engineered comparable facilities for aerospace and defense clients, including manufacturing plants, engine test cells, and military maintenance hangars.



SITE DEVELOPMENT AND REGULATORY COORDINATION

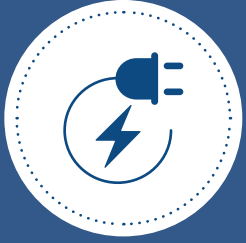
Vertiport siting requires environmental review, civil engineering, and FAA coordination that varies significantly depending on location and context. Merrick brings that experience from civil engineering and permitting work at federal installations across the country, where National Environmental Policy Act review, site development, and federal agency coordination are routine parts of getting a project approved and built.



MASTER PLANNING AND INTEGRATION

A vertiport's relationship to its surroundings will shape design decisions from the start. Advanced aviation infrastructure must integrate with airports, transit systems, commercial developments, and surrounding communities. Merrick has master planned more than 50 complex projects across aerospace, federal, and transportation markets.

MERRICK CAPABILITIES ACROSS THE EVTOL ECOSYSTEM



Power Infrastructure and Grid Integration

- High-capacity charging infrastructure
- Battery energy storage systems
- Substations and switchyards
- Microgrids and distributed generation
- Utility coordination and grid integration
- NERC-CIP compliance and cybersecurity



Site Development and Regulatory Coordination

- Site assessment and feasibility studies
- Civil engineering and site design
- Stormwater and water quality engineering
- Environmental review and NEPA strategy
- Surveying, mapping, and aerial lidar



Aerospace Manufacturing and Operations

- Aircraft ground and airside infrastructure
- Maintenance, repair, and overhaul facilities
- Aircraft manufacturing facility design
- Engine and component test cells
- Cleanroom and high-bay manufacturing
- Ground support equipment design



Master Planning and Integration

- Master planning for integrated infrastructure
- Multi-modal transportation integration
- Urban, campus, and mixed-use development
- Stakeholder engagement and charrette facilitation
- Resilience and emergency management planning
- Security and force protection planning

RECENT PROJECT EXPERIENCE WITH DIRECT EVTOL APPLICATION



AIRCRAFT CARBON BRAKE MANUFACTURING FACILITY, BFGOODRICH (NOW COLLINS AEROSPACE)

A 25-acre, \$50 million aerospace manufacturing facility with multi-discipline site development, process system design, and electrical infrastructure including switchgear and substations.



AIR FORCE BASE CENTRAL UTILITY PLANT EXPANSION

Two campus-scale energy plants integrating switchgear, battery storage, and headroom for future renewable expansion.



ENGINE TEST FACILITY RENOVATION, NAVAL AIR STATION JACKSONVILLE

A \$104 million renovation including computational flow dynamics, acoustic analysis to minimize noise impact on civilian areas, and a monorail system for engine transport.



LOWRY AIR FORCE BASE CAMPUS RE-USE UTILITY INFRASTRUCTURE MASTER PLAN

Infrastructure master planning for redevelopment of a former Air Force base into a multi-use campus, including water, wastewater, stormwater, and utility systems planning, facility evaluations, and phased development strategies.

ENGINEERING THE
INFRASTRUCTURE THAT
**ENABLES ADVANCED
AVIATION.**



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