


PUBLIC WORKS VEHICLE MAINTENANCE FACILITIES

Designing Facilities for the Future





Bear River Corporation Yard, Nevada County, Calif.



Gannett Fleming provides master plans and designs for a wide range of vehicle municipal operations yards and vehicle and equipment maintenance facilities to complement the various agencies' needs. Each facility is designed to ensure that the agencies' functional requirements are addressed and the facility is ready to operate on day one.

Clients building new or renovated fleet maintenance facilities require maximum functionality with built-in, sustainable features. Our approach to Department of Public Works (DPW) facility projects combines sound planning and engineering with effective decision-making processes with clients and stakeholders at start-up. Our planning and environmental documentation expertise can assist fleet managers in launching the process at the Record of Decision (ROD) through the National Environmental Protection Agency (NEPA) procedures and each state's environmental requirements through project completion. In addition, Gannett Fleming works with the stakeholders to address impacts due to circulation, noise, dark skies, and hazardous concerns to ensure a cohesive fit within the neighboring community.

We don't just design facilities. We collaboratively partner with our clients to understand their needs and develop innovative, cost-effective solutions to their most pressing challenges using holistic planning techniques, including:

- Needs analysis.
- Site assessment and evaluation.
- Financial solutions.
- Alternative project delivery.
- Facility design and renovations.
- Program management.
- Construction management.
- Sustainable design.
- LEED certification.
- On-going facility maintenance management.

Getting long-term value and flexibility from your facilities requires strategy and vision for future demands and technology. Our integral approach enables us to engage all design disciplines and stakeholders early in the project. Making key decisions during the planning and schematic design stages allows for a more cohesive design that serves the client well. Multi-disciplinary experience translates to more efficient and cost-effective projects for our clients.

We optimize our services to meet each client's distinct needs. This includes understanding each facility's needs, from simple fleet maintenance to large departmental operations, including Solid Waste, Streets/Transportation, Traffic, and Parks and Recs Department needs within the site's day-to-day operations.

Requirements and demand for zero-emission vehicles are now a fixture in facility fleets. Addressing current fleet and equipment technology and vision of the future needs of hybrid, electric vehicles, or other alternate propulsion needs for fleets is crucial. Incorporating site requirements for charging infrastructure and maintenance requirements for the same while supporting current fleet needs for combustible fuel technology is vital to minimize impacts as technology changes continuously evolve in the future.

We provide the expertise, technical insight, and partnership you need to transform equipment, systems, and entire buildings. Our deep experience in traditional services includes:

- Architecture.
- Civil Engineering.
- Structural Engineering.
- Industrial Engineering.
- Mechanical/Plumbing Engineering.
- Electrical Engineering.
- Technology/Communications Engineering.
- Vertical Transportation.
- Safety and Security Systems.

Our team works to complement your architectural vision while designing the most efficient building solutions to provide comfortable, healthy, and energy efficient spaces to enhance the working environment of your personnel.

Markets We Serve

Our experience includes the planning, design, construction inspection and construction management of:

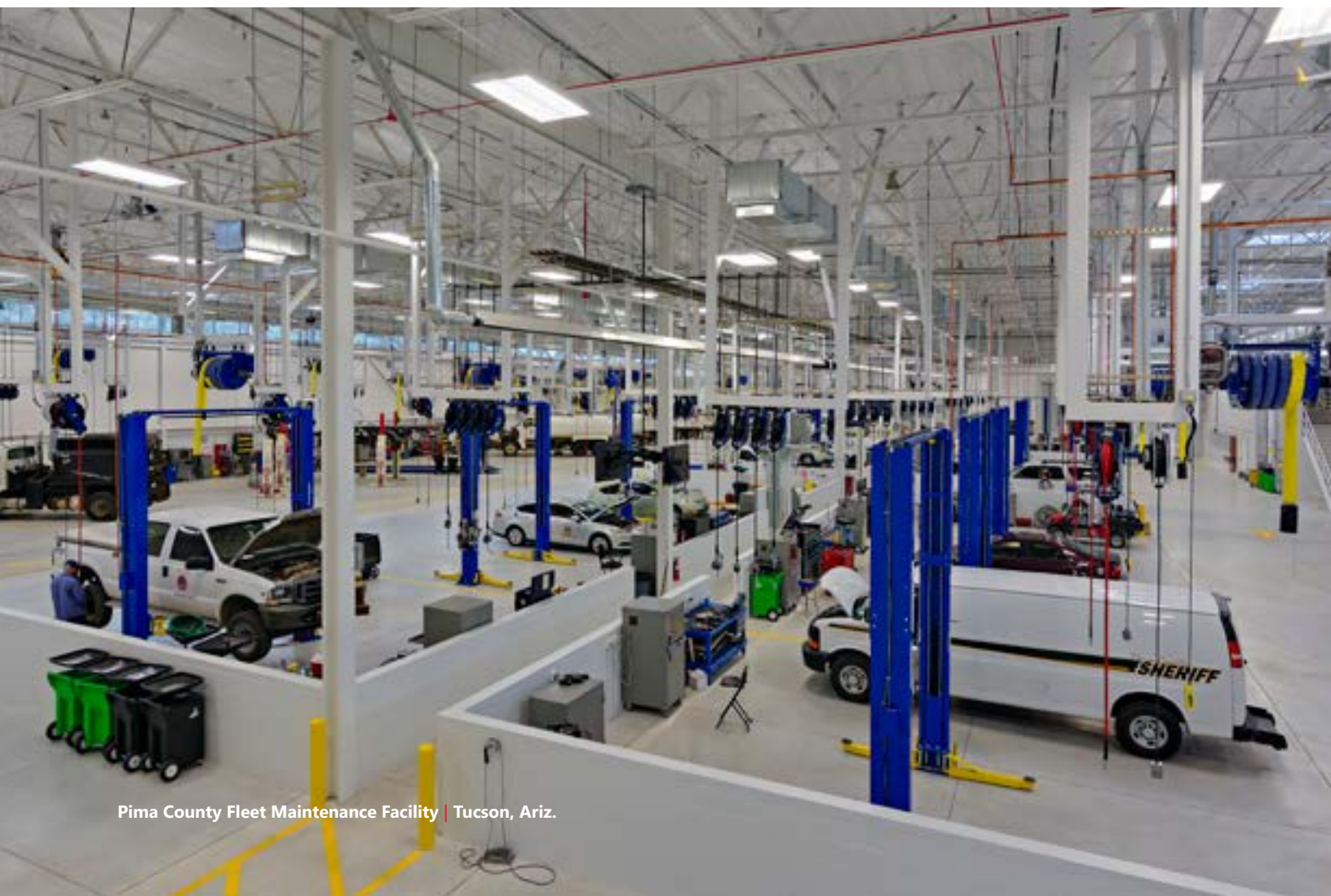
- Industrial Facilities.
- Transit Facilities.
- Military Facilities.
- Education.
- Transportation (DOT).
- Government.
- Water/Wastewater.
- Utility Companies.

Completed Projects Include:

- Master planning (including site selection).
- Programming.
- LEED project design.
- Facility architectural design.
- Industrial engineering/equipment selection.
- Industrial piping design.
- Alternative fuel designs.
- Civil/site development.
- Water and wastewater engineering.
- Structural system design.
- Mechanical and electrical engineering.
- Geotechnical engineering.
- Fueling plans, including alternative fuels.
- Program management (cost/schedule control).
- Construction inspection, administration, and management.
- Project closeout and documentation.
- Commissioning.



Pima County Fleet Maintenance Facility | Tucson, Ariz.



Pima County Fleet Maintenance Facility | Tucson, Ariz.



City of Surprise Fleet Maintenance Bays | Surprise, Ariz.

City of Surprise Fleet Maintenance Bays

City of Surprise DPW Site includes a full-service fleet facility to service a wide variety of equipment, including large construction trucks, street vehicles, fire apparatus, police vehicles, solid waste trucks and administration fleet, and support equipment. The facility includes an interior circulation design to minimize openings and maximize the ambient temperatures of the work area.

Gannett Fleming Software and Hardware Technology

The use of REVIT (BIM) Modeling software allows us to work in a three-dimensional environment between disciplines to properly coordinate infrastructure and components to allow any conflict resolutions to take place, which proactively addresses issues and helps mitigate delays. It also allows the user to see the development of the facility in three-dimension to better discuss and coordinate during the process.

Lidar scanning is an intricate part of the planning and design process. It allows the design team to capture terrain conditions on new sites and develop electronic as-builts for coordination with rehabilitation projects where as-build documentation is not available. This is a time- and cost-saving tool that we use regularly on projects.



University of Arizona Warehouse Consolidation - High Level Storage | Tucson, Ariz.



LAMTA Division 20 - Maintenance of Way Facility | Los Angeles, Calif.

Representative Public Works Fleet and Equipment Maintenance Facility Clients

- New Jersey Turnpike Authority.
- New Jersey Department of Transportation (NJDOT).
- Maryland Interagency Committee on Public School Construction (IAC).
- Prince George's County (MD) Department of Environment Resources (DER).
- Prince George's County (MD) Sediment Control District (SCD) Washington (DC) Suburban Sanitary Commission (WSSC).
- Maryland State Department of the Environment (MDE).
- Maryland Department of Transportation, State Highway Administration.
- Anne Arundel County, Maryland, County Department of Public Works.
- City of Baltimore Department of Public Works Bureau of Water and Wastewater.
- Howard County, Maryland, County Public Schools and Department of Public Works.
- Maryland-National Capital Park and Planning Commission.
- Black Hill Regional Park Maintenance Complex, Boyds, Md.
- Pennsylvania Department of Transportation (PennDOT).
- County of Rockland, New York, General Services and Highways Maintenance.
- City of Scottsdale Public Works, Ariz.
- Nevada County Public Works, Calif.
- North Area Recovery Station (NARS), Sacramento, Calif.
- Los Angeles Metro-Maintenance of Way, Los Angeles, Calif.
- City of Yuma Public Works, Ariz.
- City and County of San Francisco Public Works, Calif.
- Pima County Public Works, Ariz.
- City of El Monte Public Works, Calif.
- Orange County Resources and Development Department, Calif.
- U.S. Department of the Army, Honolulu, Hawaii.
- Colorado Department of Transportation, Cascade, Colo.
- Arizona Department of Transportation, Phoenix, Ariz.
- Los Angeles County Department of Water and Power, Calif.
- California Air National Guard, Van Nuys, Calif.
- California Department of Transportation, Essex, Calif.
- Naval Facilities Engineering Command, Western Division, Calif.
- City and County of Honolulu Public Works, Hawaii.
- Oregon Department of Transportation, Clackamas County, Ore.
- Pasadena Department of Water and Power, Calif.
- US Marine Corps, Barstow, Calif.
- City of Surprise Fleet Maintenance Facility, Ariz.
- City of Tempe Corporation Yard & Fleet Facility, Ariz.
- City of Peoria Fleet Maintenance Facility, Ariz.
- City of Peoria Fleet Maintenance Facility, Ariz.





Gannett Fleming is a privately-held AEC firm partnering closely with our clients on some of the toughest challenges facing our communities today—and into the future. Across North America and select global locations, we offer comprehensive infrastructure solutions to a wide range of markets, including transportation, life sciences, water resources, education, industrial, federal, power, and energy. Founded in 1915, we are the employer of choice for 2,500+ of the best and brightest in the industry. With a focus on making the built environment safer, as well as more resilient and sustainable, our clients seek us out for our expertise and prefer us for our personal service, innovation, and creative minds.

For more information, visit gannettfleming.com.

