

RANGE DESIGN AND COMMISSIONING SERVICES

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DESIGN

Merrick & Company has engaged in firing range engineering and architectural design for decades. Our company's experience includes:

- Shoot houses
- Indoor firing ranges
- Outdoor firing ranges
- Urban assault training facilities
- Combined arms training facilities
- Military Operations in Urban Terrain (MOUT) Complexes
- Range complexes

These training facilities are designed to simulate different terrain including urban areas, open field, and mountain terrain, and are suitable for handguns, rifles, shotguns, and other small arms. Facilities include backstops, firing positions, target carrier systems, firing range control centers and support areas suitable for use, cleaning, and storage of weapons. Projects often include support facilities for parking, site drainage, lighting, and specialized requirements for occupant safety, and health and wellness.

Merrick is a full-service firm with planning, design, and commissioning capabilities. Our services are available to federal, state, private, and public entities.

COMMISSIONING

We offer full-service commissioning services to confirm the design and functionality of the systems used for different types of firing ranges and training facilities. Careful attention is made to the design, installation, and operational checks for the ventilation and lighting systems for the health and safety of building occupants for indoor shoot houses and firing ranges. Other verifications include the proper operation of target carrier and mass notification systems.

SUSTAINABILITY

Merrick has a strong commitment to sustainable design practices. Our team has experience with projects seeking certification for Guiding Principles Compliance, Green Globes, and LEED. As part of our service, we support design and construction teams with navigating the process. Our consultants also assist design teams with evaluating sustainable technologies, measures, and approaches through energy modeling and life cycle cost analysis. The goal of this effort is for reducing energy usage and operational carbon emissions. We also help teams with reducing the amount of embodied carbon used on site.

