

**City of Madison Police Department  
Training Center**

**Live Fire Tactical Training Range  
Range Equipment and Services Scope**

**October 28, 2010**

The intent of this scope document is to convey to potential vendors the equipment and services that are requested for a new live fire tactical training range for the City of Madison Police Department to be located at the City of Madison Police Training Center, 5702 Femrite Drive, Madison, Wisconsin, 53718.

The City of Madison is seeking to select a vendor for the systems described below on a selection process that includes qualitative and cost basis of selection. The scope defined below is not intended to be a detailed itemization of the parts required, but is intended as a description of the intended outcome of the new facility. It will be the selected vendor's responsibility to provide a complete and functional system.

**Overview of the Facility**

The live fire tactical range is a part of a comprehensive law enforcement training facility being developed to support the City of Madison's Police Department. Ultimately the training center will be approximately 40,000 square foot center that provides administrative and instructor office space, classrooms, tactical and physical training area and support functions.

The firing range is intended to be a tactical firing range with a variety of pistols and rifles using ammunition up to .223 and .308. The range is intended to be used for a variety of training needs that include: fixed position (25 yd); approaching the target to within 1 yard; cross fire; shoot-don't shoot scenarios; horizontal moving target ('running man') and the possibility of multi-directional targets.

**Initial Scope**

We are calling this the initial scope since it is our intent to refine the final equipment and design decisions for the range with selected range equipment vendor. The building design is intended to be adjusted to work with or compliment the final systems that are selected.

Please review the attached preliminary site plan, floor plan and exterior elevations as a starting point for the firing range development.

The Firing Range shall be 12 lanes wide with an interior dimension of approximately 50 feet. The two outside lanes shall be 4'-4" to 5'-0" wide and the 10 interior lanes shall be 4'-0" wide each. Since this is intended as a tactical training range, no shooting stalls are anticipated. Six primary components of the range are being sought: Bullet Trap, Range Control, Sound System, HVAC, Targeting System, and Safety Baffles.

### Components

#### Bullet Trap:

Steel, low slope tapered bullet trap with deceleration chamber and bucket, bin or standard canister based collection system for ammunition fragments. No vertical projections or flat surfaces will be accepted in close range, 'no ricochet' style trap. The trap should allow cross-range shooting, rated to contain rifle rounds up to and including .223 and .038.

Option for discussion and consideration: alternative collection systems, dust collection.

#### Fully Tactical Ballistic Ceiling System:

Steel baffle system that allows for safe shooting in the full length of the range. The baffles must be designed and installed to contain rifle rounds up to and including .223 and .038. Acoustic sound dampening is desired and detailed information on sound absorption shall be provided. Continuous unistrut or similar mounting bar shall be provided with the ceiling system along the lower edge of baffles for concealed mounting of sound and lighting systems.

Option for discussion and consideration: high efficiency lighting system with multi-control options.

#### Ballistic Side Wall Containment:

Steel wall baffle or containment system that allows for safe cross range shooting toward the side walls at the bullet trap end of the range. Initial considerations are to provide baffles the final 20 feet of the range, however, recommendations are sought from range designers. The baffles must be designed and installed to contain rifle rounds up to and including .223 and .038.

#### Target Systems:

Turning Targets shall be at each lane (12) and shall be fixed position and capable of high speed rotation in 90 degree increments to 180 or 360 degrees. System shall include programmable computer control system with wireless remote control.

Running Man Target shall be provided with lateral movements at variable speeds across the full width of the range (less restriction for mechanical installation). The system shall include controller and remote control operation.

Option for discussion and consideration: Charging or other variable moving target systems.

Range Ventilation System:

Design, furnish and install heating, ventilation, exhaust and filtration system certified to meet all OSHA, EPA, and NIOSH regulations and requirements. System shall provide a minimum of 75 fpm laminar flow for the entire shooting area of the range. Direct digital control system by Honeywell or compatible with complete system monitoring.

Option for discussion and consideration: energy recovery systems.

Public Address /Sound System:

Desktop and wireless lapel or head mounted microphones, amplifier, speakers and player that can play sound effects, and instructions over effects controlled system.

**Proposals**

Proposals shall include:

Information about the firm providing the proposal including: location; year in business; Dunns number; professional liability certificate (\$1 million minimum); proof and value of general liability, auto and workers compensation insurance; references; experience; payment terms; resume's of staff assigned to the project. Vendor shall include in the proposal cost for obtaining a payment and performance bond for 100% of the value of the contract amount.

Documentation, detailed descriptions, drawings or other literature that provided information about the operation, features, maintenance requirements, limitations, warranties, guarantees and installation of each system. Please list of exclusions or items that shall be provided by others.

The proposal shall also include line item price proposal that includes: all necessary materials, equipment, shipping, taxes, insurance and cost for installation and training at prevailing wage standards.