

COVERED MESS



Function: The structure provides an area for troop messing at the range site. This facility is also used as a weapons cleaning facility by the troops using the range.

Design Drawings: See the ROCA Details in the Appendix of this document.

Size:	37.2 square meters (400 square feet) 65.7 square meters (707 square feet) TRADOC Ranges
Occupancy:	62 or 120 (TRADOC Ranges)
Foundation:	Concrete slab-on-grade with turned down edges
Shell:	None
Roof:	SSMR on wood or steel trusses
Doors:	None
Windows:	None
HVAC:	None
Special Lighting:	Red Lens or Red lamps
Special Switching:	See Night Operations Lighting paragraph
Lightning Protection:	Mast-style system
Misc:	Stainless steel tables
Power:	120/240Vac, Single Phase, 3-wire Secondary
Receptacles:	GFCI weatherproof, 120V, 20A duplex mounted 450 mm (24") above the finished floor
Communications:	None

Electrical Service: The Covered Mess is supplied via a main breaker power distribution panel that has separate circuits for the lighting and convenience outlets.

Grounding: Grounding is required for safety. Building electrical system grounding will consist of one or more ground rods connected to the service panel in accordance with NFPA 70 and all other applicable codes.

Night Operations Lighting: To prevent interference with specialized equipment used during night operations, red lenses or red lamps must be provided in addition to standard lighting if the following conditions exist.

- Night training will be performed

- ROCA buildings are near the firing positions
- ROCA building has windows that cannot be covered.

Separate switching for the standard and red lighting shall also be provided, located near points of egress.

Lightning Protection: A risk analysis performed in accordance with NFPA 780 on the Bleacher Enclosure and Covered Mess may indicate lightning protection is not required for these facilities. A mast style protection shall be provided for these facilities regardless of the results of a risk analysis. Range safety procedures require a solidly grounded structure on site for soldiers to safely assemble during lightning storm events. The Covered Mess and Bleacher Enclosure facilities provided with lightning protection systems serve this function.

Removal of the lightning protection system from either of these facilities will only be allowed under the concurrence of the safety personnel responsible for the range in consideration. In such cases, they should have a safety procedure in place to allow for the safety of soldiers during lightning storm events.