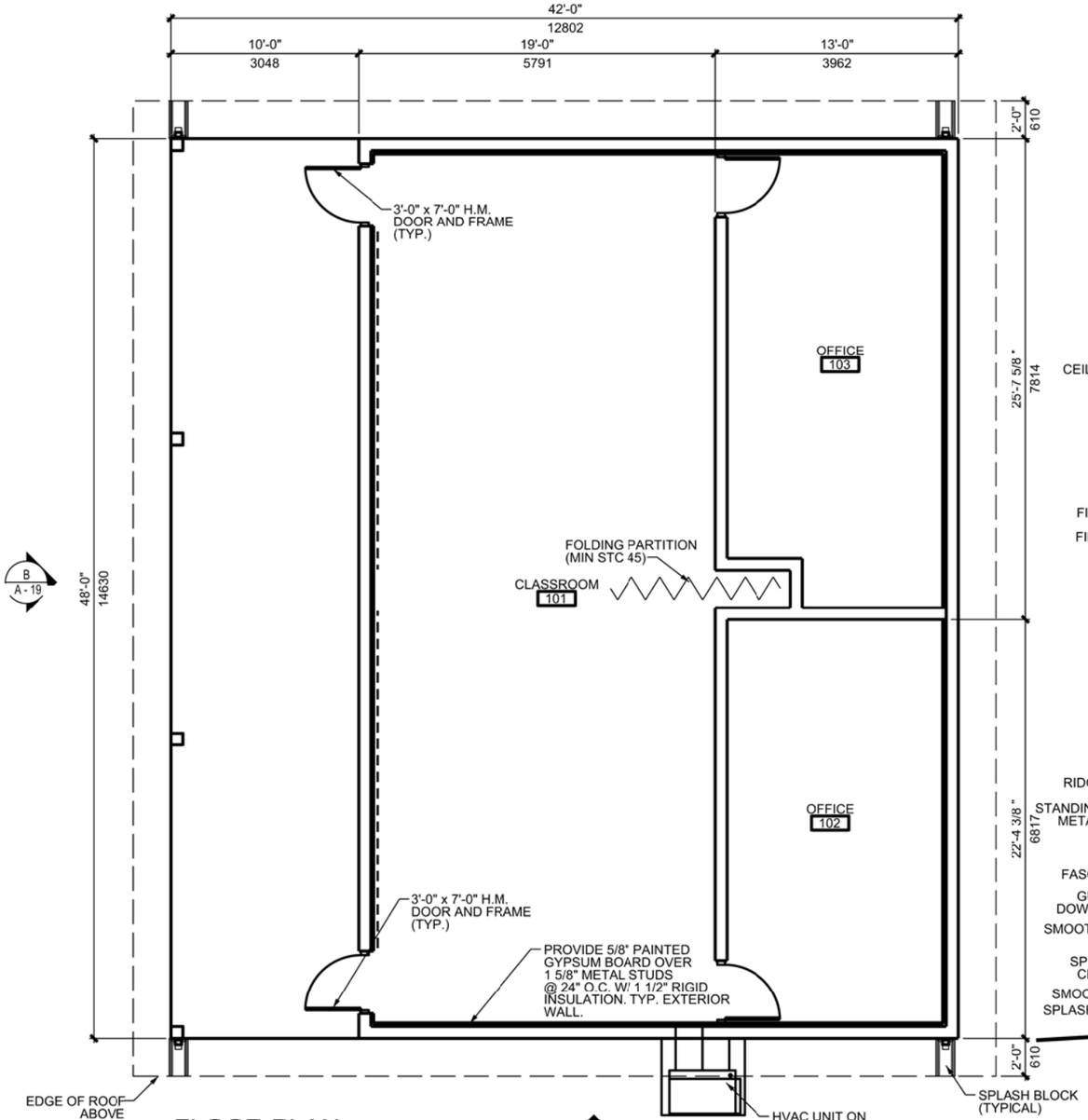
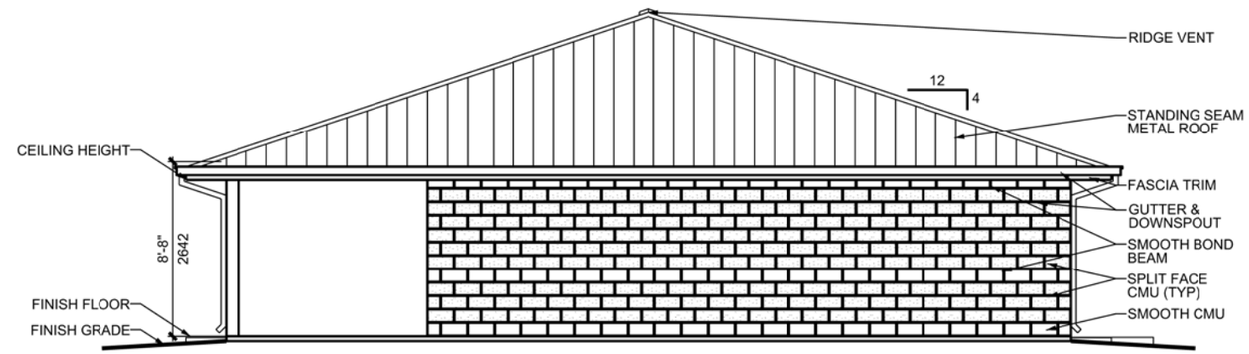


FLOOR PLAN

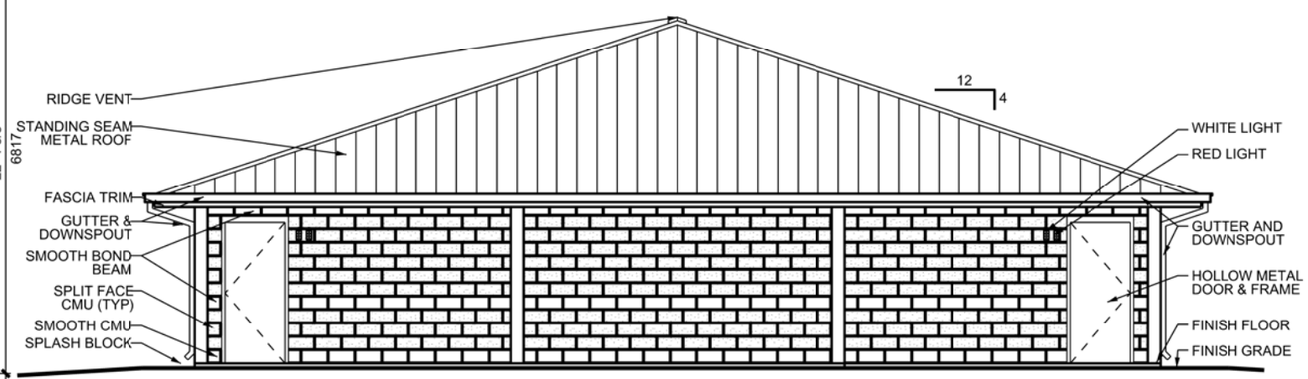
SCALE: 1/4" = 1'-0"



A
A - 11

ELEVATION

SCALE: 1/4" = 1'-0"



B
A - 11

ELEVATION

SCALE: 1/4" = 1'-0"

4' 2' 0 4' 8' 12'

GRAPHIC SCALE: ¼"=1'-0"

GENERAL
The Large After Action Review (AAR) facility provides space for personnel to review training exercises. The facility is not designed for automated AAR, but is wired to allow connection of a laptop to an overhead projector. The occupant load factor is 9.3 net sq. meters (100 sq. feet) (per person) for the development room, control room, offices. The occupant load for the classroom is 100 based on an assembly occupancy, less concentrated use, without fixed seating. See NFPA 101 table 7.3.1.2.
All dimensions not labeled are in millimeters.

SITE ADAPTATION
This standard definitive design should be adapted to local conditions such as climate, available construction materials and techniques, topography, seismic zone, the existing character of surrounding buildings and the local Installation Design Guide. These factors may affect plans, elevations and building systems. The building foundation must be designed based on the results of a geotechnical investigation.

REFERENCE CRITERIA
The design and construction must comply with applicable codes and standards.

FUNCTIONAL REQUIREMENTS
A folding partition is provided in the classroom to provide the option for two smaller classrooms. Windows are double hung to meet functional requirements providing viewing, natural light and ventilation. Windows have forced entry resistant metal frames and are provided with insect screens. Provide polycarbonate security glazing in windows and doors. Floors should be sealed concrete or vinyl tile for ease of cleaning, with acoustical drop ceilings. Gutters, downspouts and splash blocks should be provided where required by climatic conditions. Covered entries and ice guards may be necessary in northern climates. The AAR is accessed only by able-bodied personnel and does not require ADA compliance unless dictated by local criteria.

MECHANICAL
The Mechanical Equipment shall be selected and sized based on site requirements, local weather design criteria, available energy sources, and building construction materials. HVAC design for personnel comfort shall be in accordance with UFC 3-410-FA.

ELECTRICAL
The AAR shall be served by 120/240V, 1 phase, 3-wire secondary power. Provide Surge Protective Device (SPD) for incoming service. Rigid Steel conduit shall extend a minimum of 5' (1524 mm) outside the building for power and communication circuits entering and leaving the building. All panel boards shall be recessed if installed in finished areas. Provide a lightning protection system in accordance with NFPA 780. In addition to normal receptacles, provide dedicated 120V, 20 amp circuits serving quad outlets mounted 18"AFF in both offices, provide 120V duplex receptacles mounted flush in the ceiling for an overhead projector in each classroom, and provide 120V duplex receptacles for a presentation podium located in the front of each classroom. Coordinate the requirements for a projector screen at the front of each classroom and provide power for screen as required. Provide recessed 4"X 4"junction boxes with removable faceplates adjacent to the additional receptacles in the wall at the front of each classroom, in the ceiling for an overhead projector in each classroom, and in each office. Connect the junction boxes with 1"conduit with pull wires. For locations where training will occur at night, provide separately switched red lighting on the building exterior and in all interior rooms that have windows or doors opening to training areas. Ensure all white lighting can be turned off when the red lights are used.

TELEPHONE
Telephone service is not a requirement for range operations. However, service should be provided to the offices in the AAR if it is available in the area.

TARGETRY SYSTEM INTERFACE
No fiber optic connection is required between the AAR and the targetry system. However if telephone service is included, provide an empty conduit for future connection.

FIRE PROTECTION
Fire protection is not required per fire codes for this building. Consult local Fire Marshall for compliance with local requirements.

US Army Corps of Engineers

Rev.	Description	Date	Approved

Designed by: | Dwn by: | Ckd by: | Reviewed by: | Submitted by:
Date: | Design file no. | Drawing code: | File name: | Plot scale: | Plot scale:
Rev.

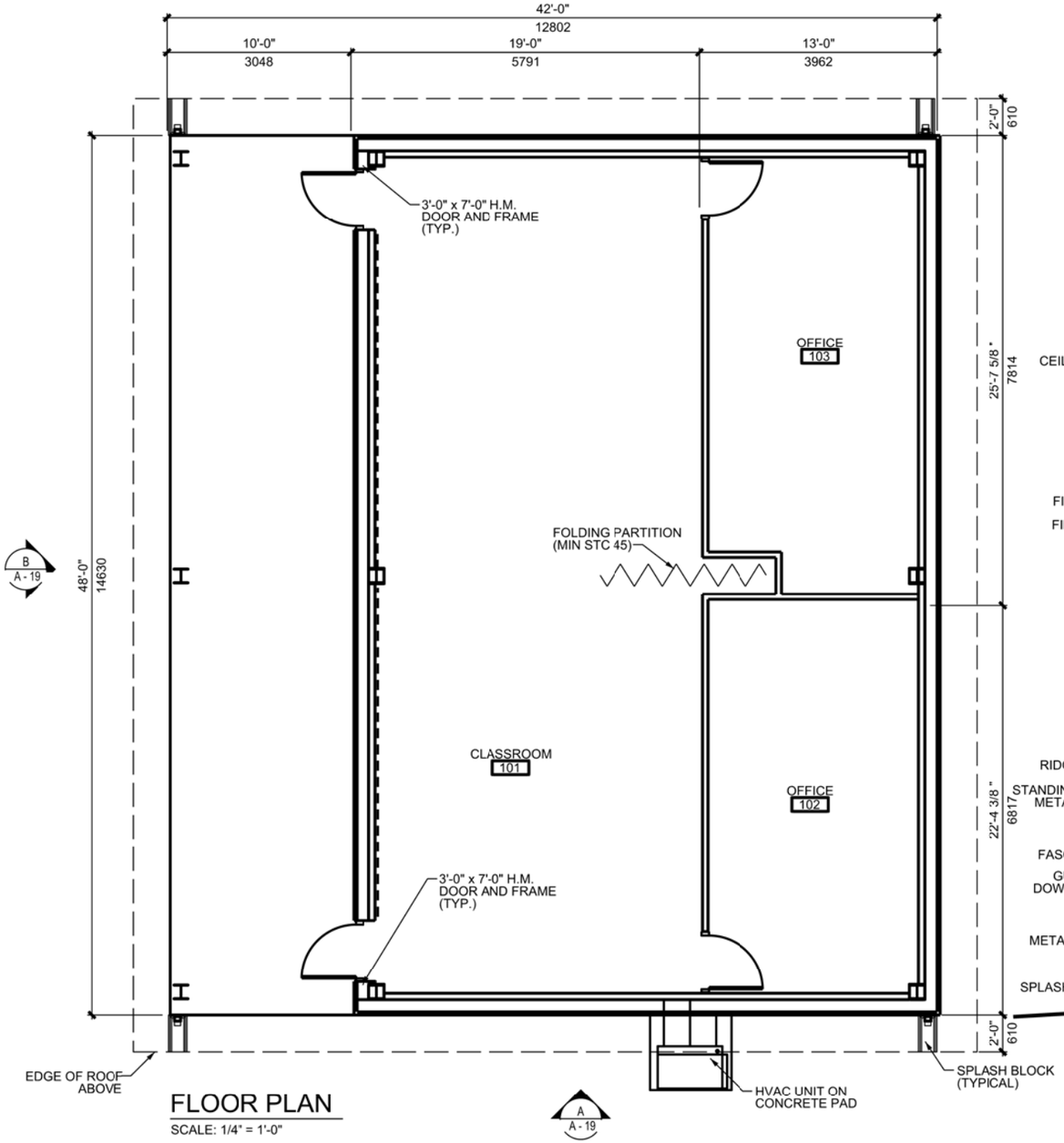
U. S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE
HUNTSVILLE, ALABAMA

JANUARY 2011

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

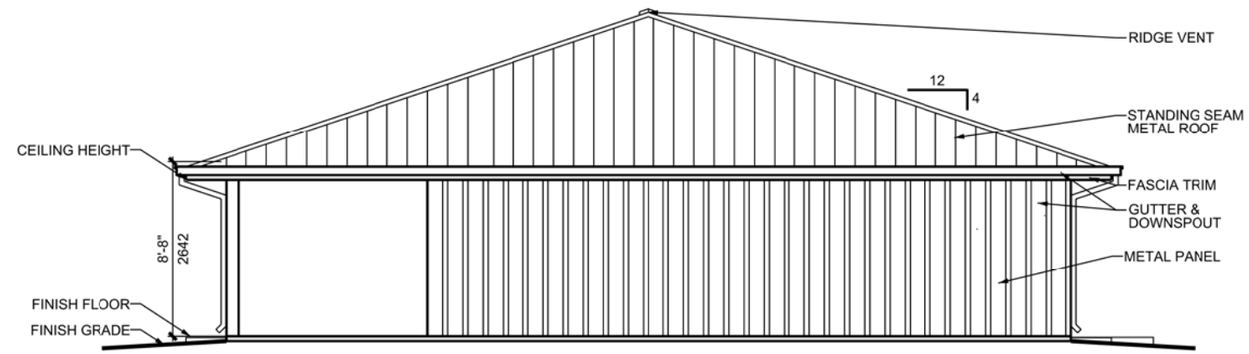
NON-INSTRUMENTED RANGE
AFTER ACTION REVIEW

Sheet reference number:
A–14



FLOOR PLAN

SCALE: 1/4" = 1'-0"



ELEVATION

A
A - 11

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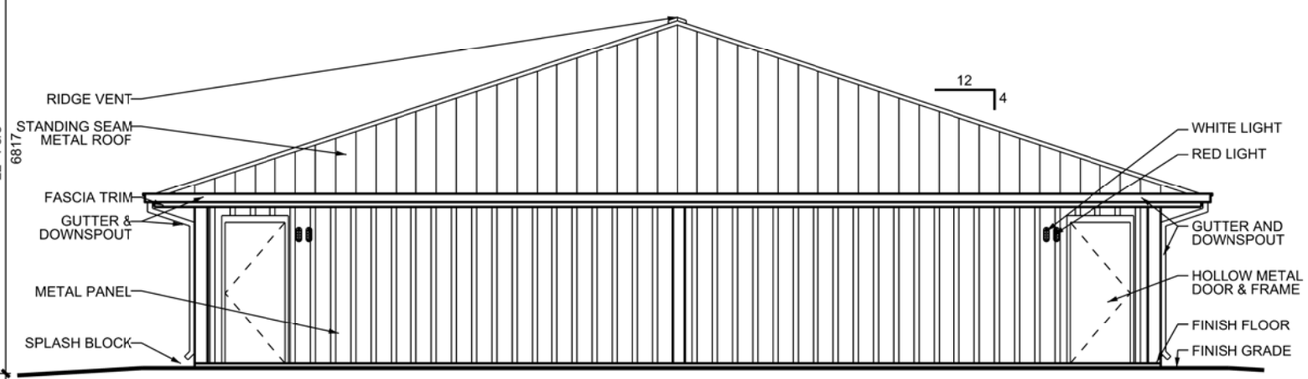

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US Army Corps of Engineers

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U. S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE
HUNTSVILLE, ALABAMA

JANUARY 2011

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

NON-INSTRUMENTED RANGE
AFTER ACTION REVIEW

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A–14