



PROJECT NUMBER 641-24-701 (2409)
PROJECT NAME EHRM Infrastructure Upgrades - Tier 3 DC
Mountain Home, TN
SUBMITTAL Final Bid Documents
SUBJECT Structural Narrative

Project Overview

The project includes updating the main computer room in building 77. The computer room will be moving south in building 77. Additional electrical equipment is being added to Building 204.

Existing Structure

The building 77 floor framing consists of lightweight concrete slab over 3” metal deck spanning between steel beams and girders supported on steel columns. Level 3 floor has an additional 3” lightweight concrete topping slab atop the floor structure. The roof framing is 1 ½” metal roof deck supported on steel beams and girders.

The existing structure of building 204 consists of two-way concrete slab supported on concrete columns.

All existing conditions shown on plan shall be verified in the field by the contractor.

Design Criteria

Design Manuals - PG-18-10 – Structural

IBC – International Building Code – 2024 Edition

IEBC – International Existing Building Code – 2024 Edition

Proposed Structural Changes

The renovations and upgrades of all rooms are primarily non-structural and currently do not cause any major changes to the vertical or lateral load path. There are no new buildings being constructed to support the EHRM project.

Stand has reviewed the existing floor and roof structures to confirm the adequacy for new mechanical electrical and telecom equipment as indicated on the structural design documents. The floor and roof systems are adequate to support the equipment as indicated on the structural design documents without structural modifications to the buildings.