

**Project :** "AIT" Advanced Individual Training

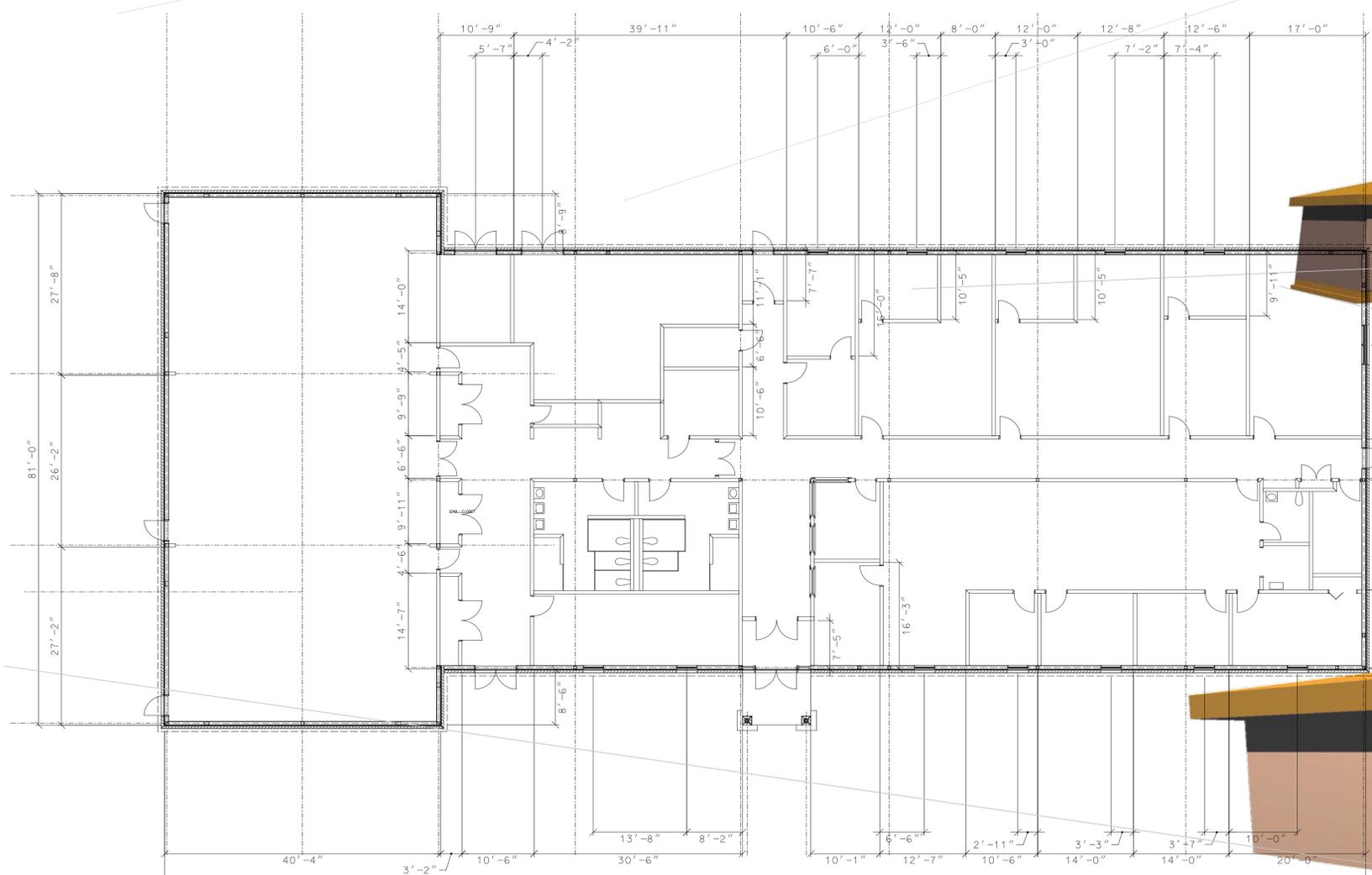
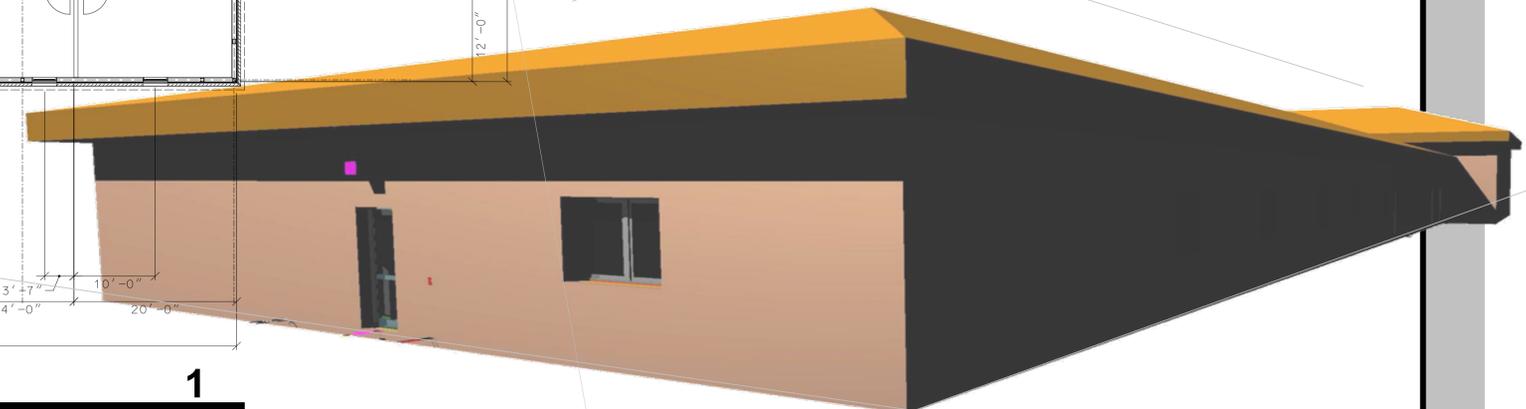
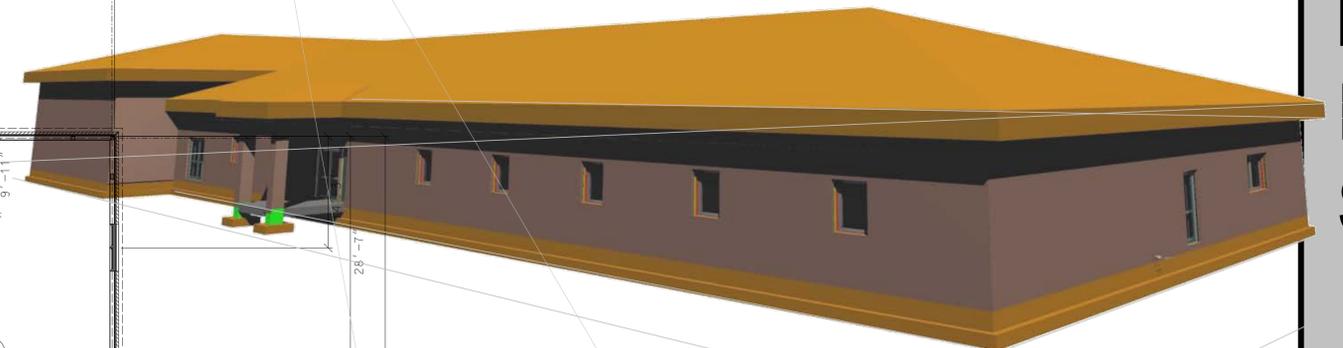
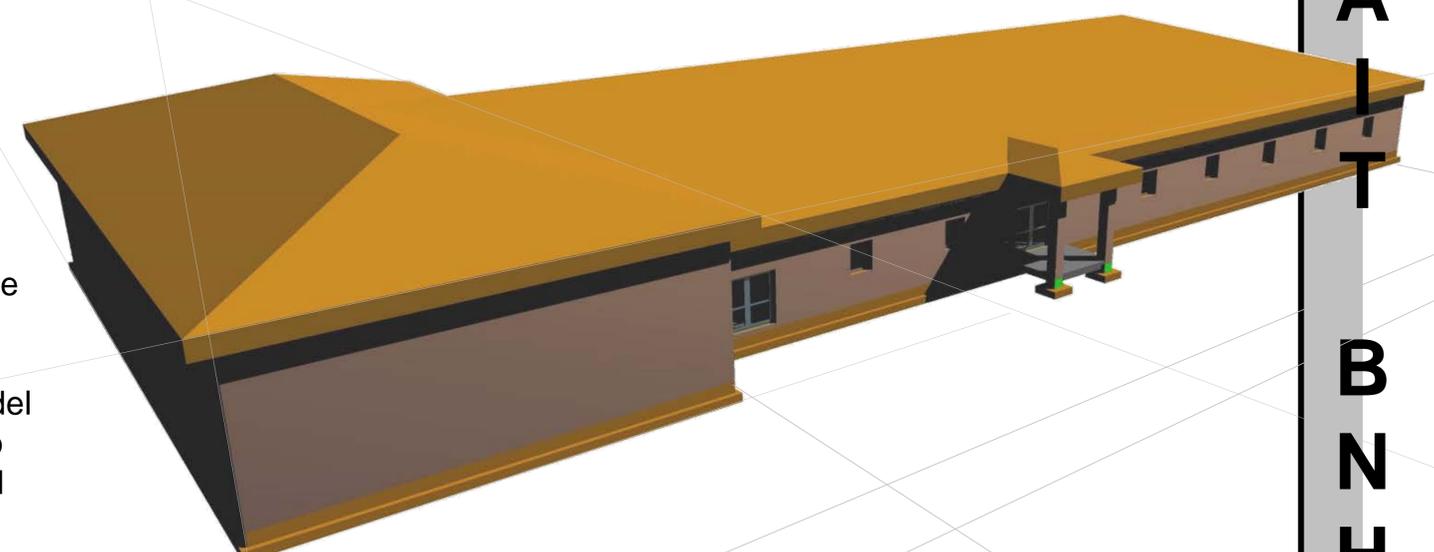
**Project Manager :** Jack Osborne

**Facility :** Battalion Headquarters

**Designer :** Ambrose C. Rosario Jr.

**Total Project Cost :** N/A

This was our first project utilizing BIM (Building Information Modeling) to produce our Construction Documents for this design build project. Each Engineering Discipline within the Design Branch used BIM to aid in the 3 dimensional design of this facility. Structural, Mechanical and Electrical referenced the Architectural Design Model to provide modeling information from each discipline and in return I was able to reference in their discipline model into my Architectural Design Model. The facilities Master Model was where we were able to produce extractions for floor plans, building sections, elevations, reflected ceiling plans and any drawings needed to be incorporated into the Construction Document Set.



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# Advanced Individual Training Complex

## Battalion HQ Facility

**Project :** "AIT" Advanced Individual Training

**Project Manager :** Jack Osborne

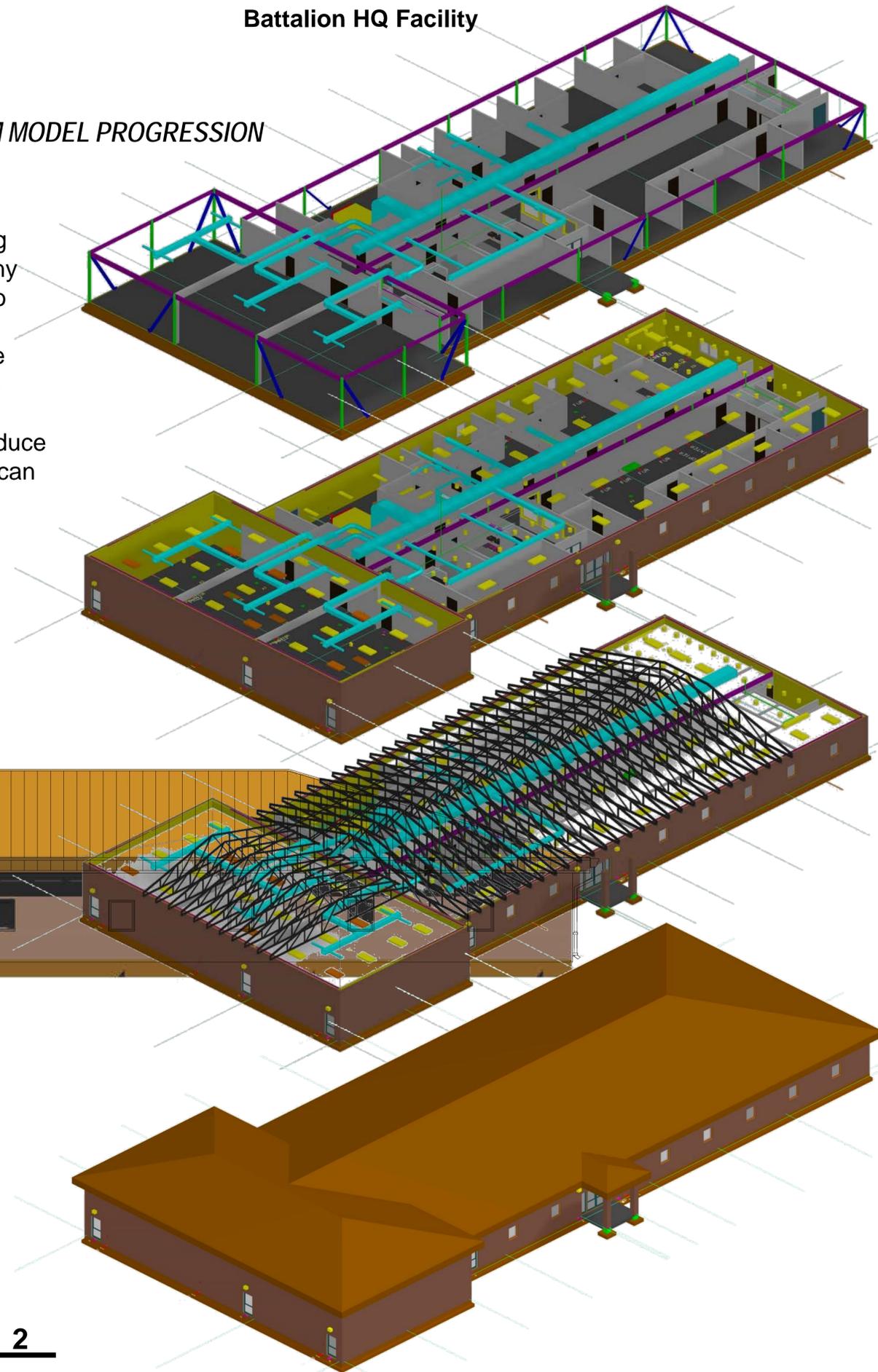
**Facility :** Battalion Headquarters

**Designer :** Ambrose C. Rosario Jr.

**Total Project Cost :** N/A

Using BIM "Building Information Modeling" provided us the opportunity to visualize our building virtually in 3D. When all disciplines combined together into one model we were able to view any interference's produced by our designs. This enabled us to correct any preconceived design to provide a more efficient design. To the right you can see a slight progression of our model in stages of assembling each discipline and building system. We begin with our foundation grade beams, slab, columns, beams, chevron bracing, interior partitions and HVAC. Then we start to enclose the envelope with our exterior wall assembly and place holders for recessed lighting fixtures. The final image is our finished product model. At this stage we are able to extract/produce any information needed from our facility and filter this into our construction document set. We can run all our extractions to produce our floor plans, building sections, wall sections, roof plans, reflected ceiling plans, elevations, enlarged floor plans, building corner details and almost everything needed for a full design construction document set.

*BIM MODEL PROGRESSION*



*FRONT ELEVATION*



*RIGHT SIDE ELEVATION*

# Advanced Individual Training Complex

## Barracks, Company Operations Facility

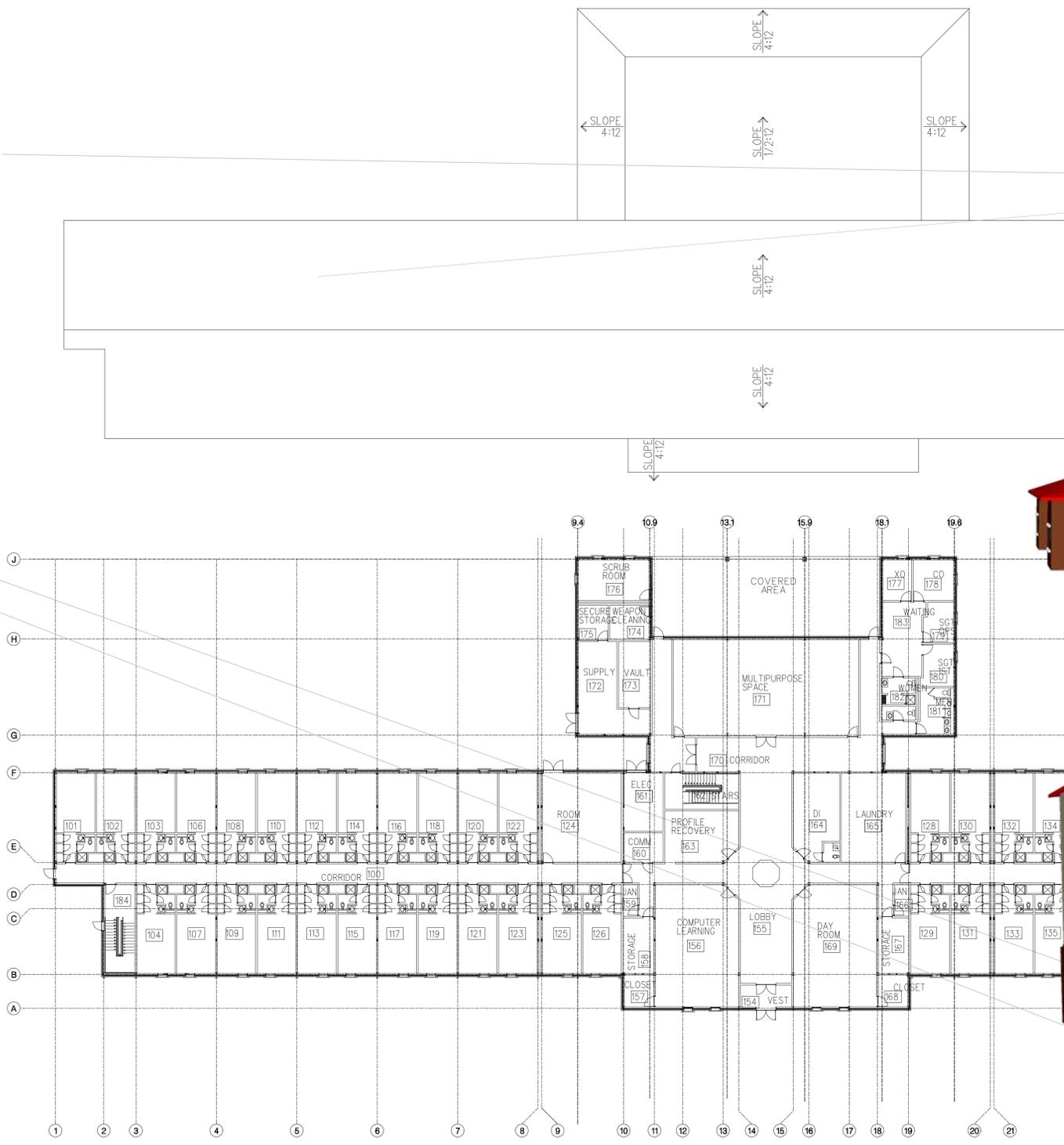
**Project :** "AIT" Advanced Individual Training

**Project Manager :** Jack Osborne

**Facility :** Barracks, Company Operations Facility

**Designer :** Edward Citzler

**Total Project Cost :** N/A



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Project : "AIT" Advanced Individual Training

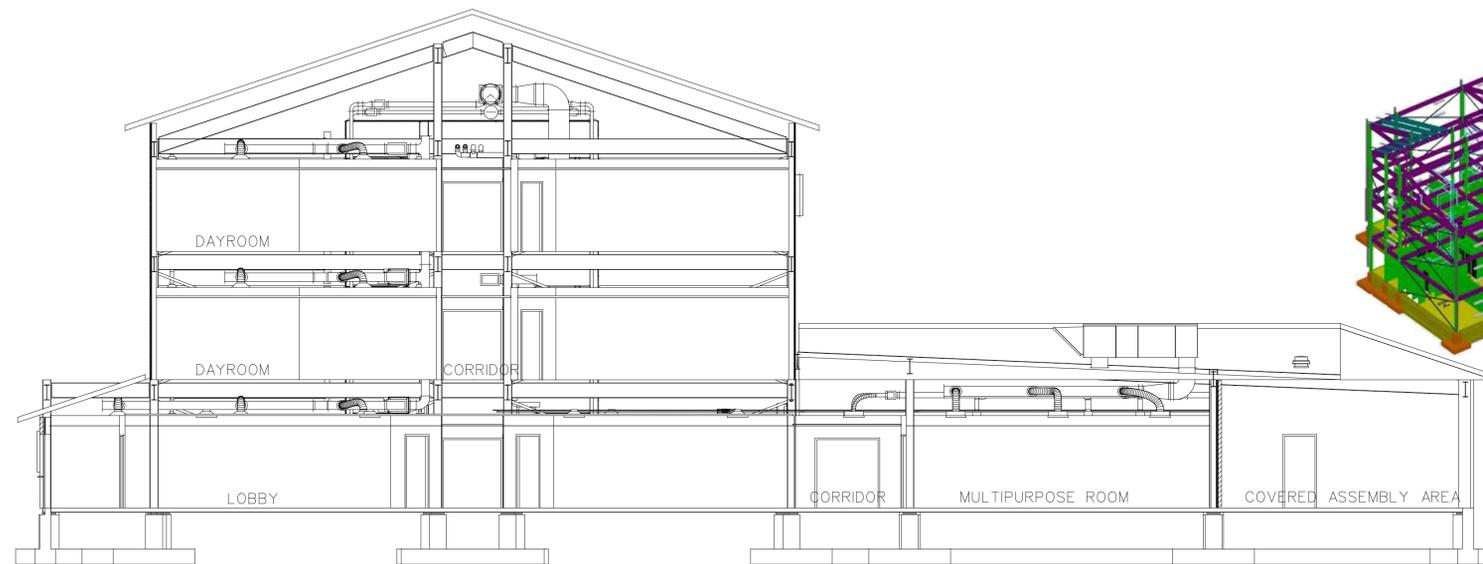
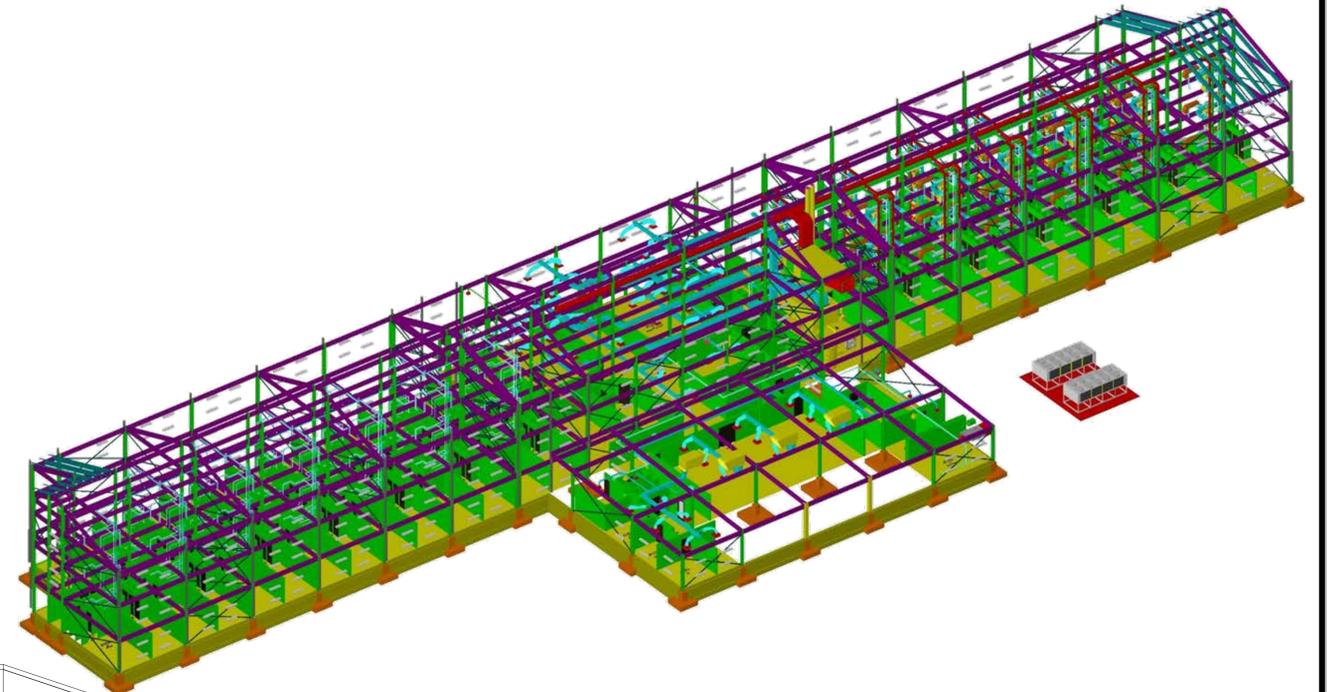
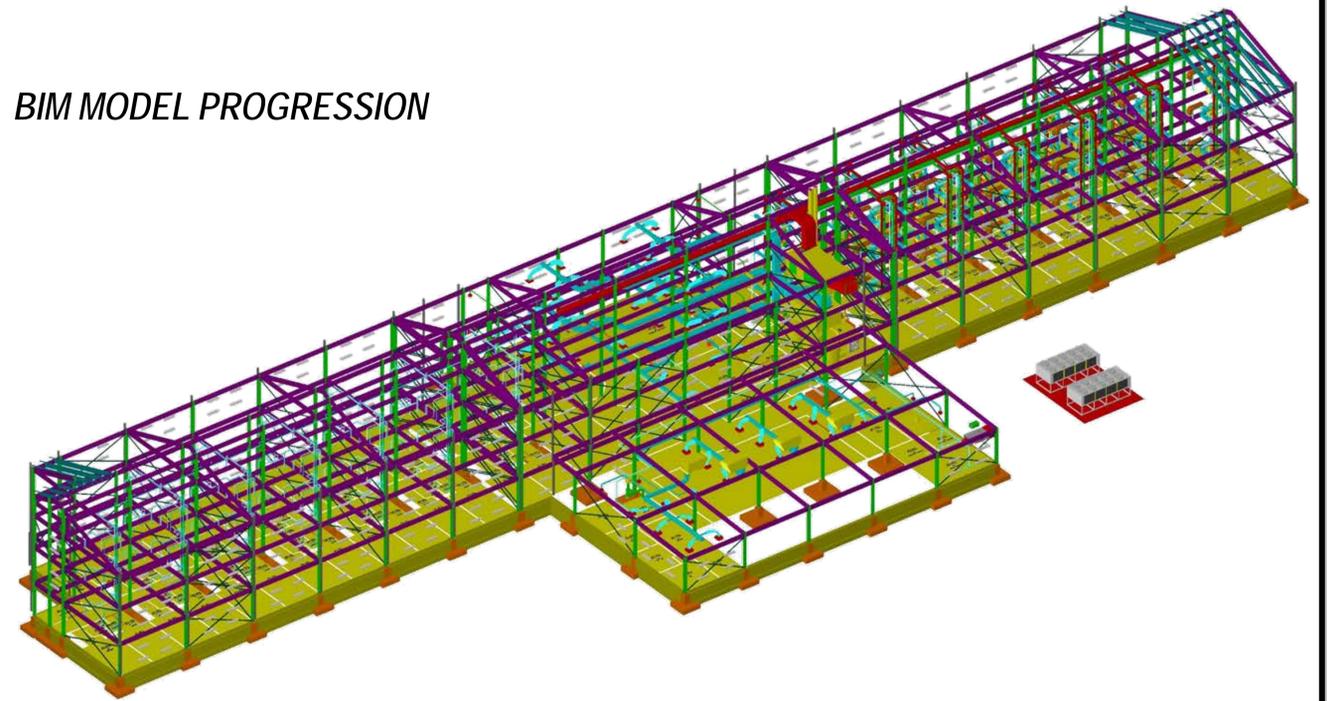
Project Manager : Jack Osborne

Facility : Barracks, Company Operations Facility

Designer : Edward Citzler

Total Project Cost : N/A

BIM MODEL PROGRESSION



BUILDING SECTION

Project : "AIT" Advanced Individual Training

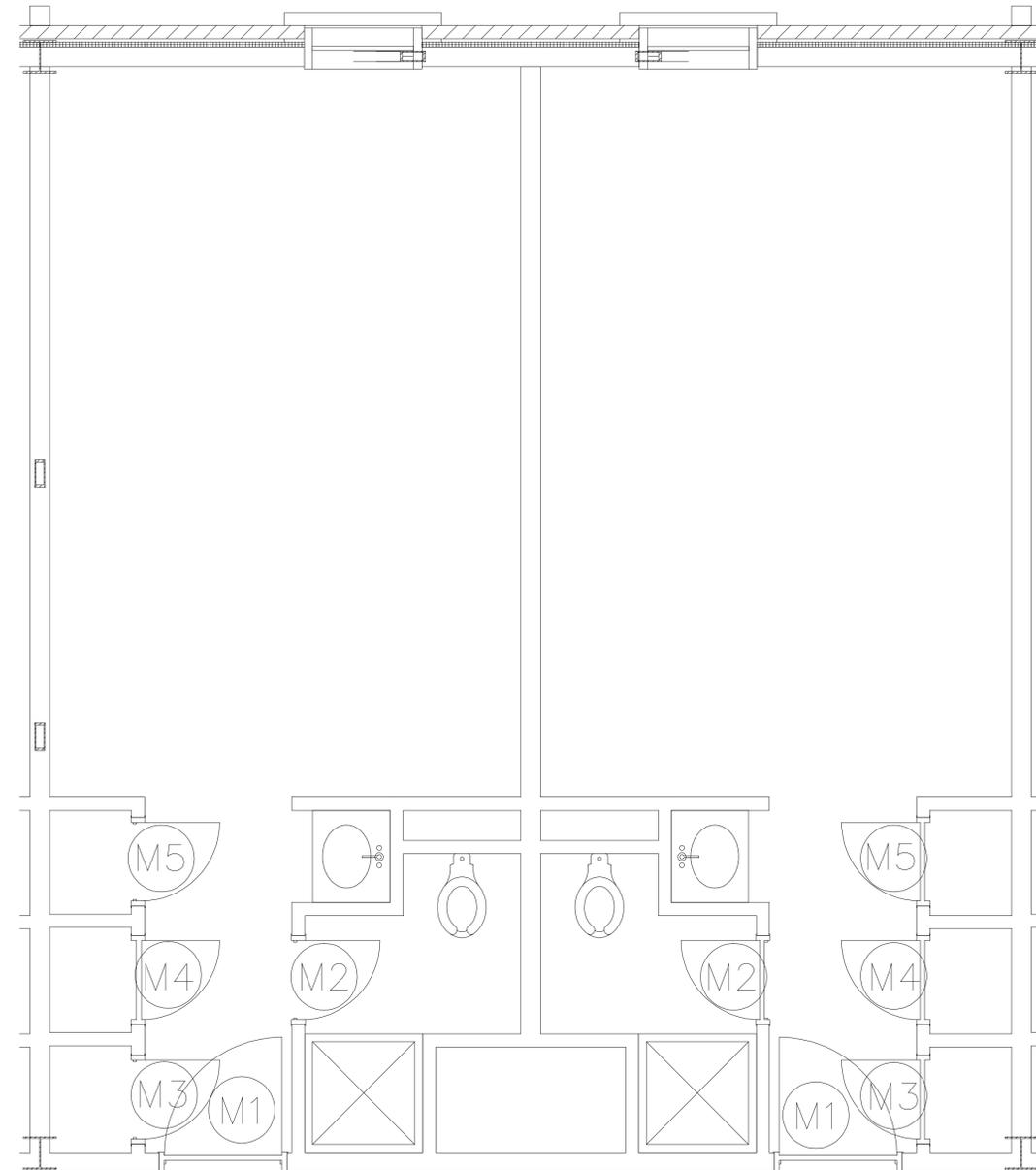
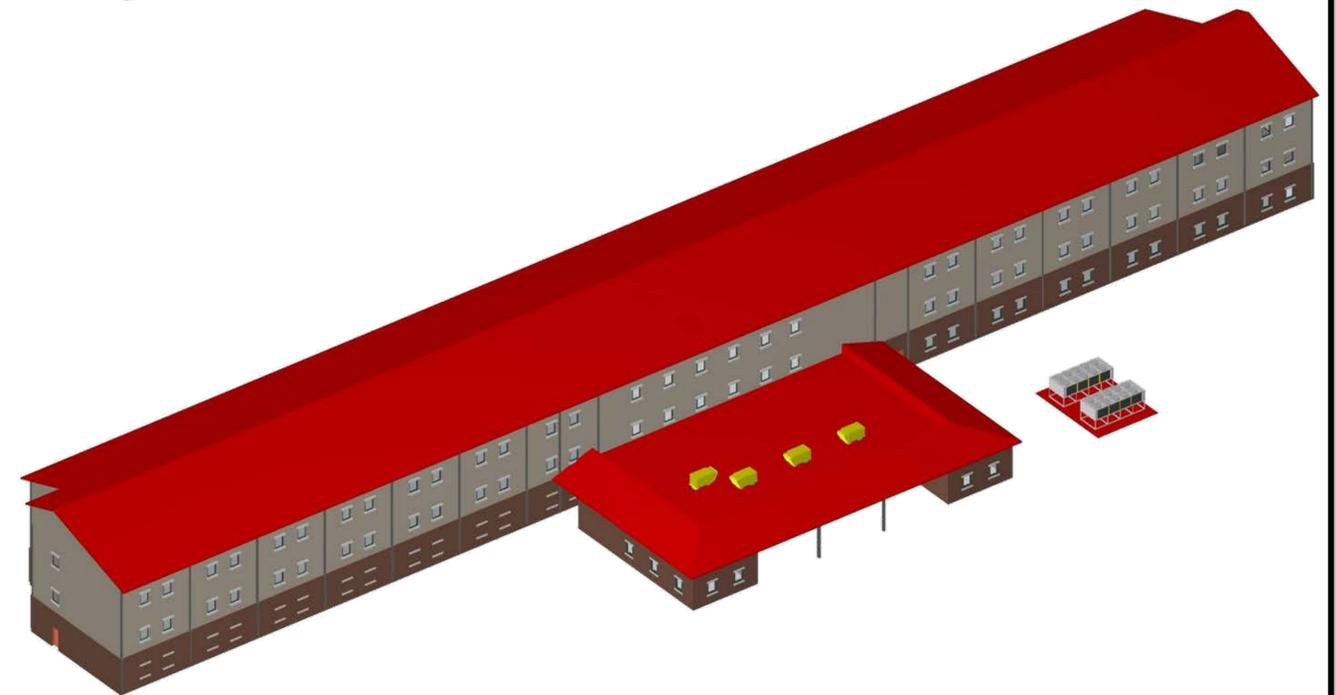
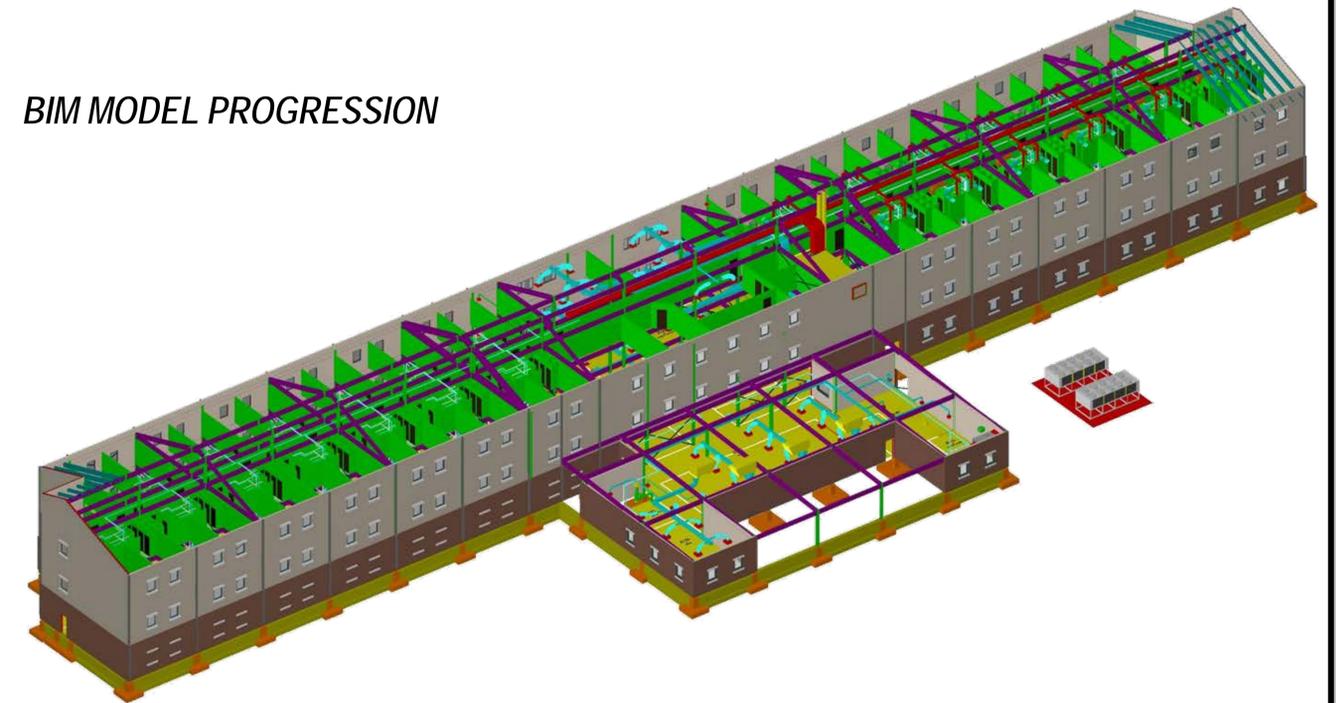
Project Manager : Jack Osborne

Facility : Barracks, Company Operations Facility

Designer : Edward Citzler

Total Project Cost : N/A

BIM MODEL PROGRESSION



SLEEPING MODULE