



AIR FORCE CYBERSPACE & COMMUNICATIONS
AFCC HERITAGE CENTER

SCOTT AIR FORCE BASE, ILLINOIS

Master Plan

May 22, 2024

HealyKohler Design

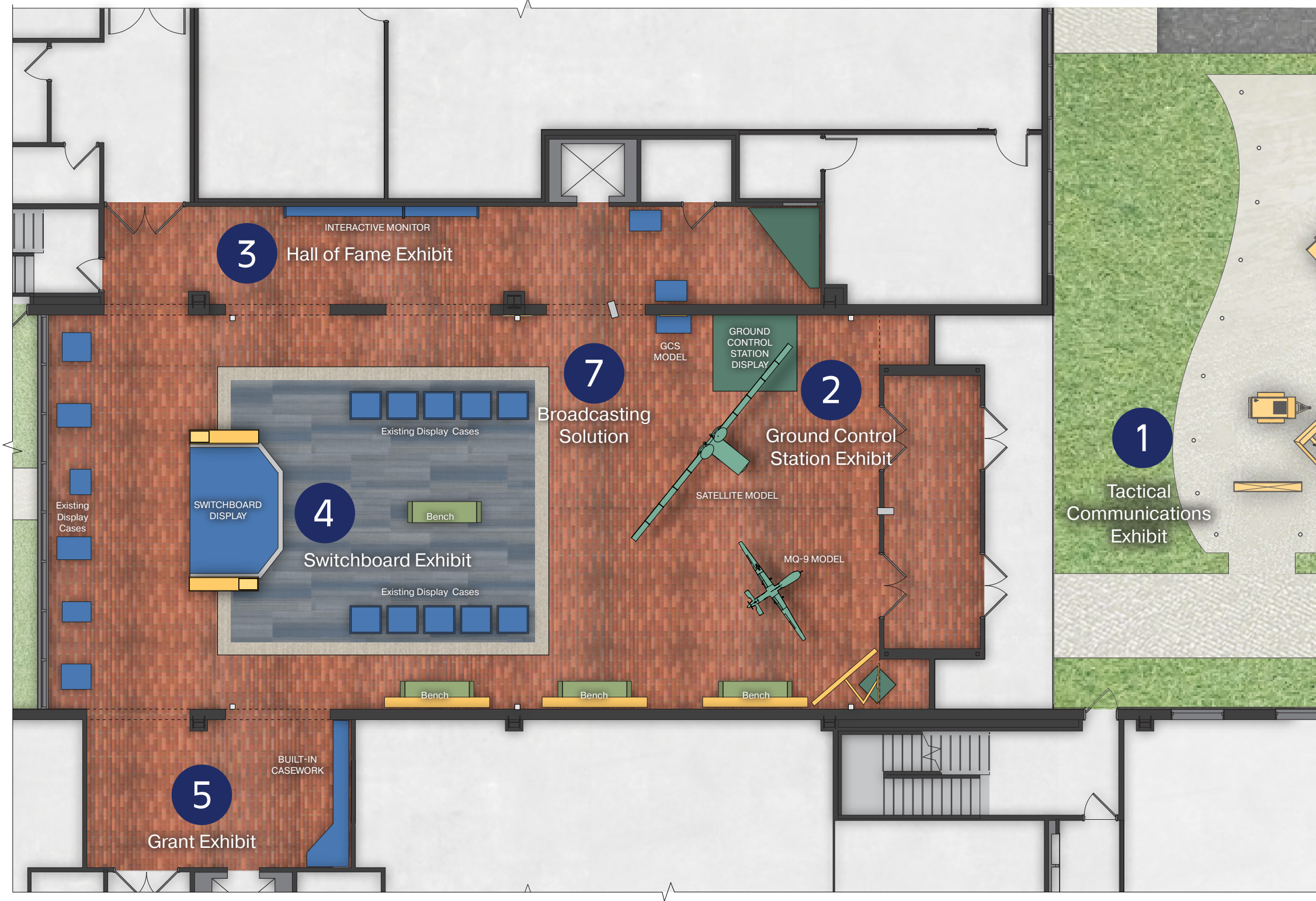


Over thirty-five years ago, a collection of artifacts dedicated to telling the story of the United States Air Force mission of cyberspace, communications, and information technology began to coalesce at Scott Air Force Base, Illinois. What started as a visitor's center in the major command headquarters, was added to, upgraded, and invested in – culminating in the 2020 creation of the Air Force Cyberspace and Communications (AFCC) Heritage Center.



The AFCC Heritage Center serves as the one and only heritage center in the USAF dedicated to telling this important story. This master plan will guide future exhibits and the growth of the center for generations of Airmen to come.

Overall Plan



Planned Projects

- 1 Tactical Communications Exhibit
- 2 Ground Control Station Exhibit
- 3 Hall of Fame Exhibit
- 4 Update Switchboard Exhibit
- 5 Grant Exhibit
- 6 Website / Digital Walkthrough (Online)
- 7 Broadcasting Solution
- 8 Materials & Finishes (Throughout)

1 Plan
Scale: 3/32" = 1'-0"

Preliminary Cost Estimates

Preliminary Order-of-Magnitude Costs for Development, Build, and Installation

1 Tactical Communications Exhibit \$154,000

Design and Development Fees
Pour concrete pad w/footers, run power, add lighting
Install macro artifacts, modify for outdoor display
Add interpretive rail panel

2 Ground Control Station Exhibit \$380,000

Design and Development Fees
Shipping and Modifications to existing Ground Control Station (GCS) artifact
Small-scale vehicle model with display pedestal and graphic interpretation
1/6 scale models of satellite and drone, plus installation
Video production to activate GCS screens

3 Hall of Fame Exhibit \$350,000

Design and Development Fees
New exhibit structure on 18 linear feet of wall (includes AV housing, graphics, and 6 embedded cases)
Hall of Fame Interactive with Content Management System (software and hardware, 85" touchscreen)

4 Update Switchboard Exhibit \$342,000

Design and Development Fees
Demo existing wall and casework
Create new switchboard display, with new lighting
Add (2) reader rails, including screens with historical AV footage
New figure (Studio EIS quality) with repro uniform
New carpet

5 New Grant Exhibit \$158,000

Design and Development Fees
Move storage doors to hallway
New built-in exhibit case with lighting
Case graphics, display risers, and artifact mounting

6 Website with Digital Walkthrough (online) \$176,000

Create and program new website for Heritage Center
Development of a Collections Explorer web application (featuring 40 artifacts, includes content research)

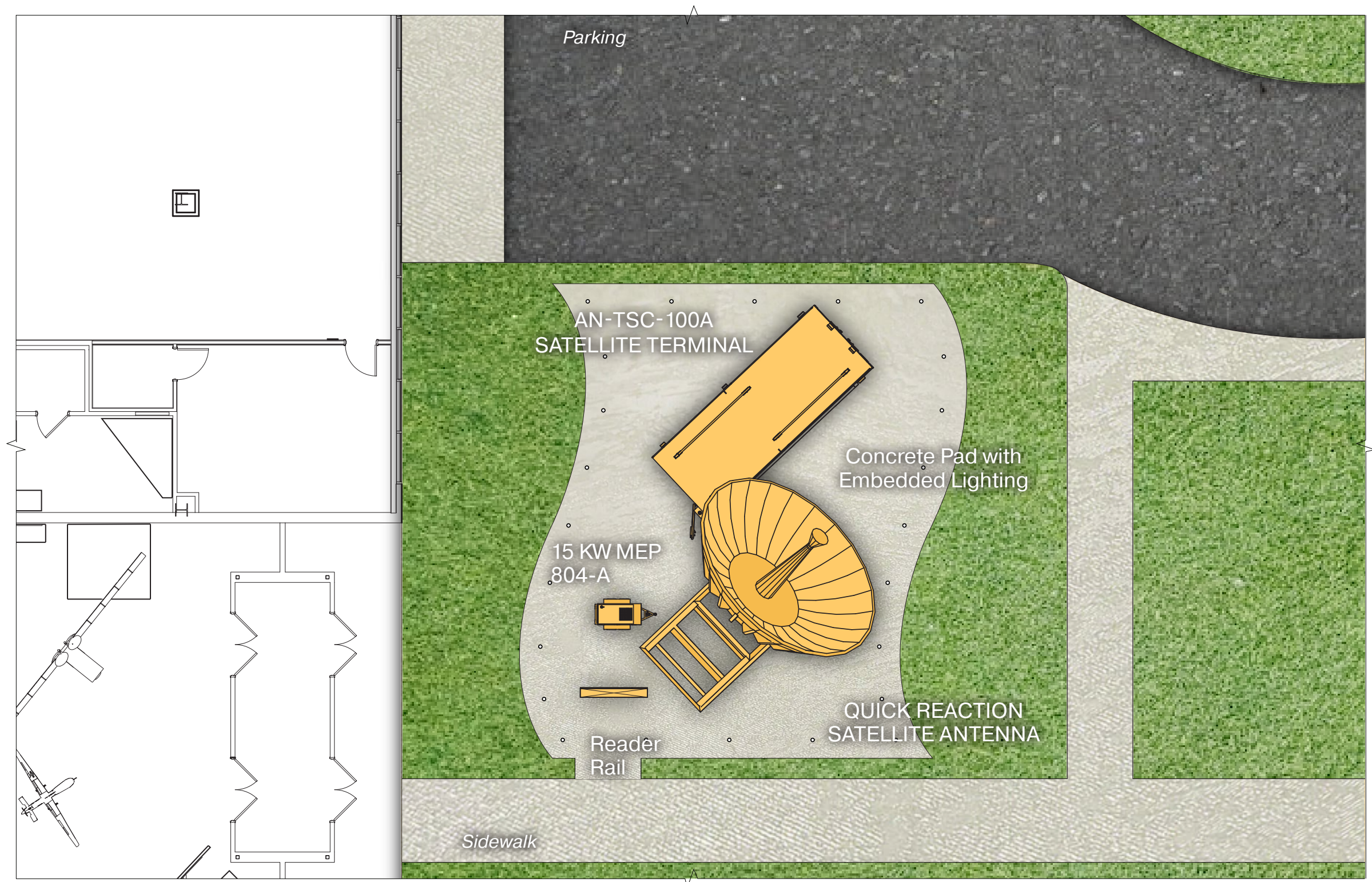
7 Broadcasting Solution \$276,000

Development fees including hardware specifications
Electrical / Internet base building work
New AV equipment (to be confirmed during development phase): Podium with microphone, 2 camera locations with video streaming capability, (6) new speakers, new 98" video screen.
AV Integration and Installation

8 Update Materials & Finishes \$142,000

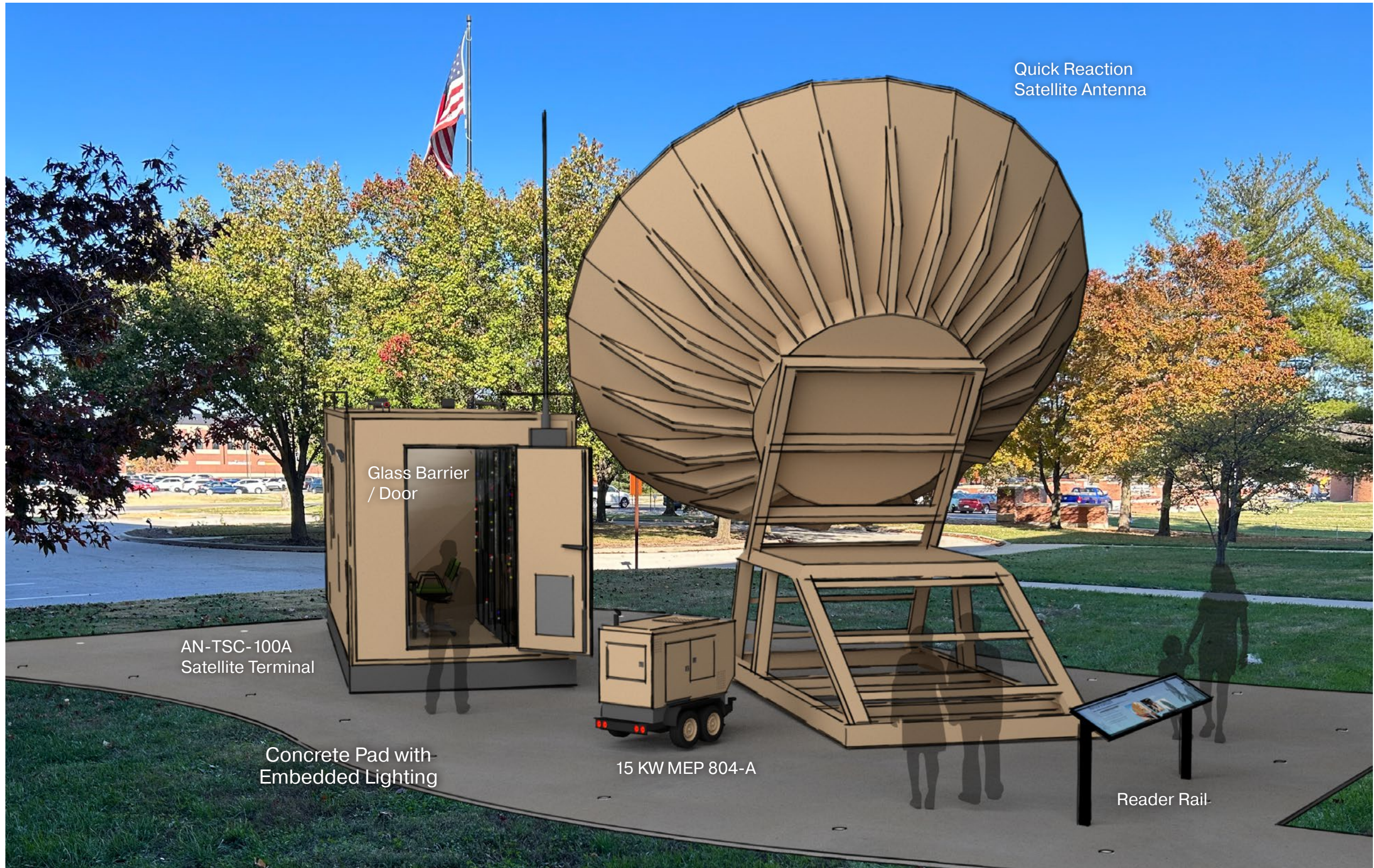
Design and Development Fees
Remove flags and repair walls
8 new Silicone-Edge Graphics (SEG) in wall-mounted frames (70 sf each)
New dimensional lettering
Other updates to materials and finishes to existing exhibits to match new

1 Tactical Communications Exhibit

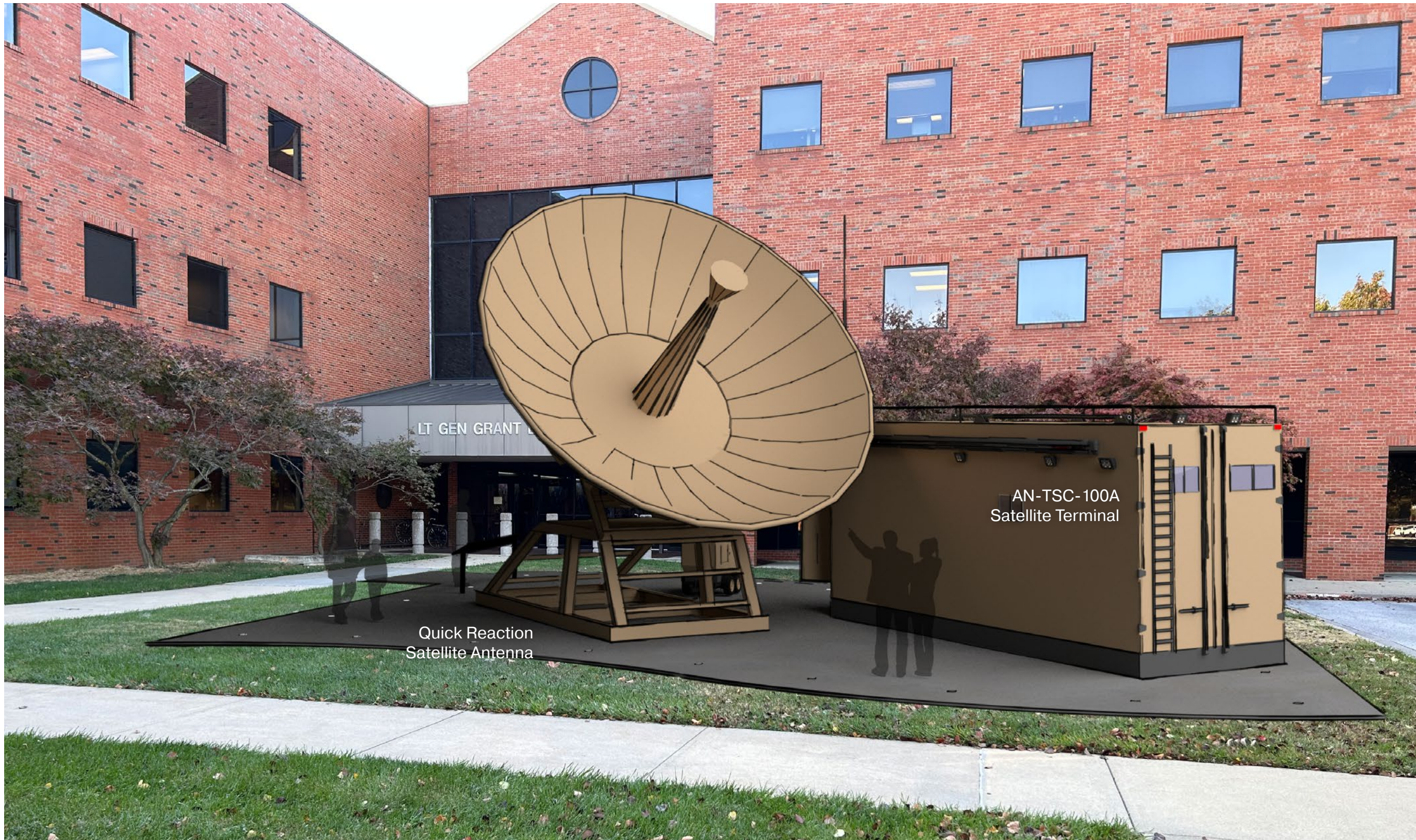


1 Plan
Scale: 1/16" = 1'-0"

1 Tactical Communications Exhibit



1 Tactical Communications Exhibit



1

Tactical Communications Exhibit

REFERENCE IMAGES



Existing Conditions



AN-TSC-100A
Satellite Terminal

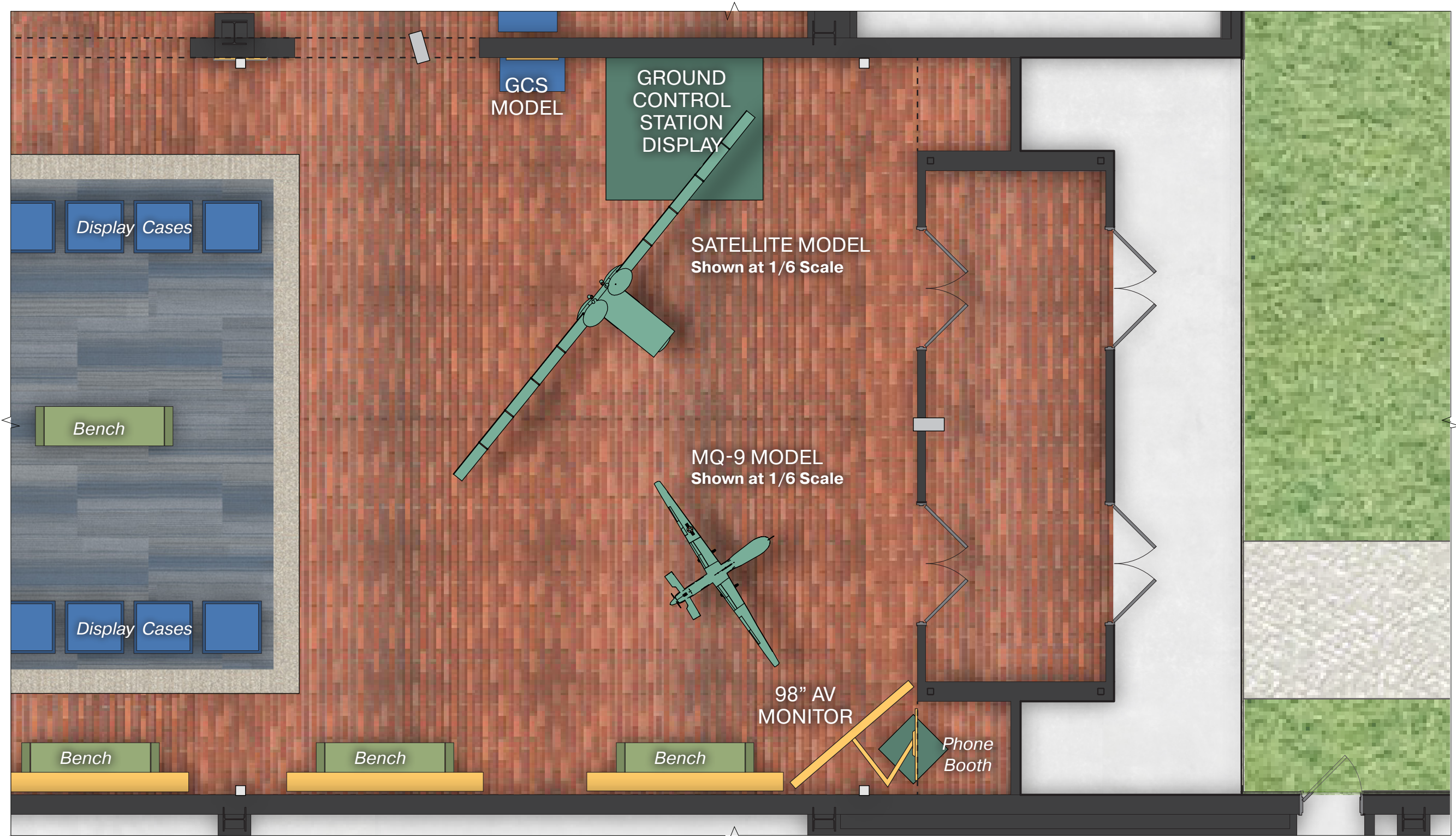


15 KW MEP 804-A



Quick Reaction Satellite Antenna

2 Ground Control Station Exhibit



1 Plan
Scale: 3/16" = 1'-0"

Ground Control Station Exhibit



Ground Control Station Exhibit



Ground Control Station Exhibit



Ground Control Station Cutaway

GROUND CONTROL
Team work is essential to the success of any mission. In a Ground Control Station, operators work together to monitor and control the operations of a satellite. This exhibit allows visitors to experience the work of a Ground Control Station operator.

INSIDE THE STATION
The Ground Control Station is a complex of equipment and software that allows operators to monitor and control the operations of a satellite. The exhibit shows the control room, the satellite, and the ground station.

Ground Control Station Model

Active video screens

Reader Rail

Protective glass barriers

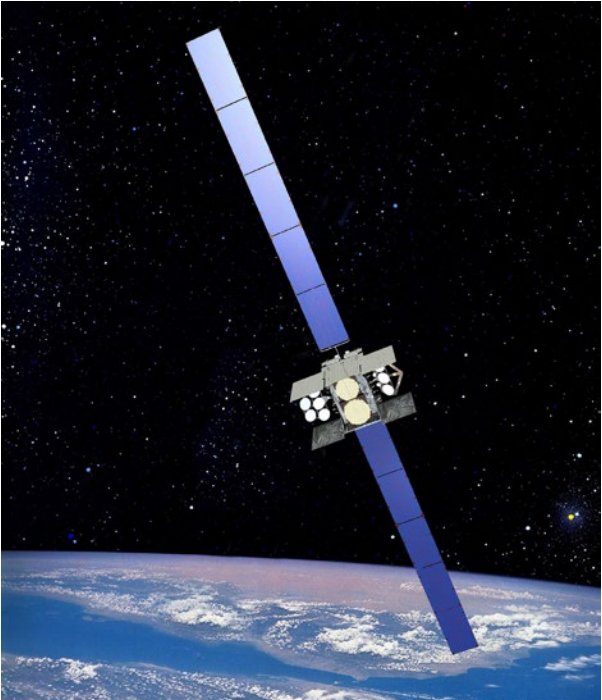
2

Ground Control Station Exhibit

REFERENCE IMAGES



WGS Satellite



MQ-9



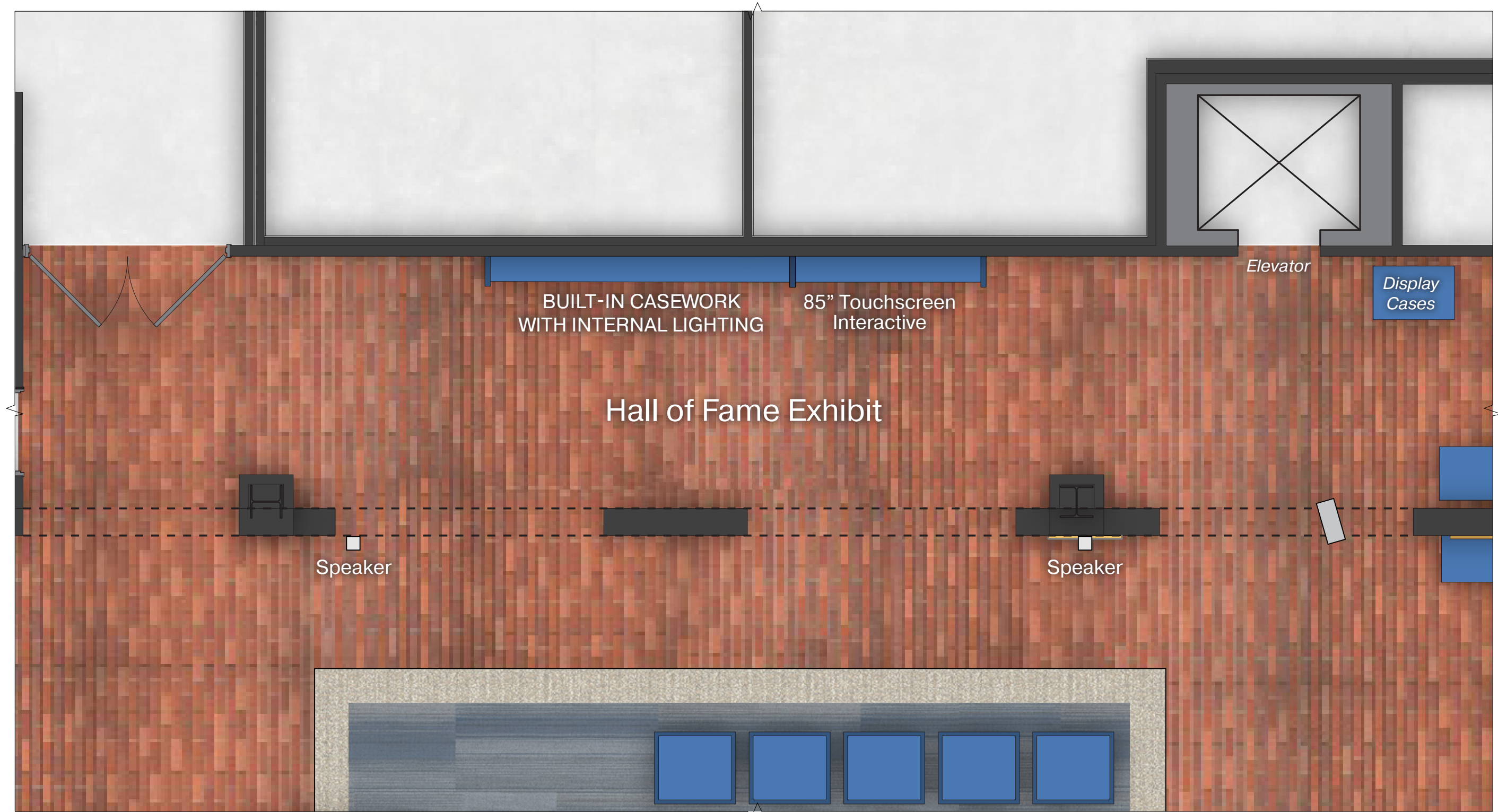
Ground Control Station



Scale Model Reference



3 Hall of Fame Exhibit



1 Plan
Scale: 1/4" = 1'-0"

3 Hall of Fame Exhibit



3 Hall of Fame Exhibit



Built-In Casework

85" Touchscreen with Interactive Database

Hall of Fame Exhibit

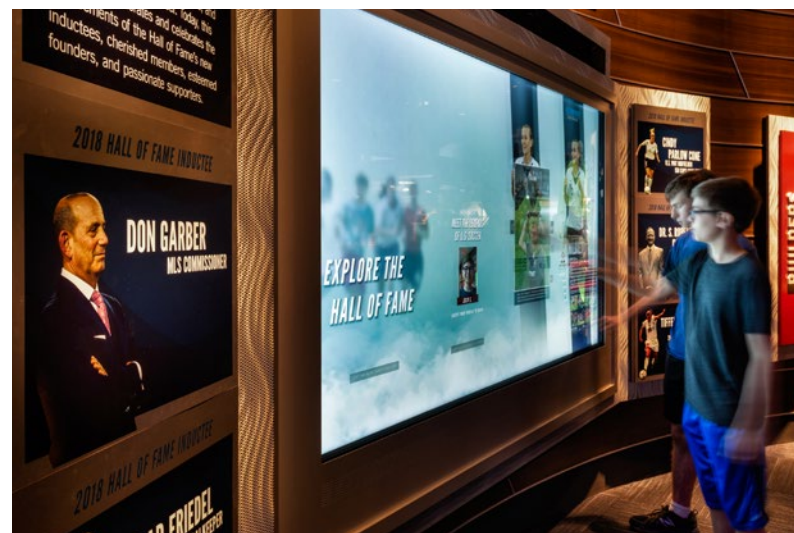
REFERENCE IMAGES:
Multi-User Interactive Database



The Sailing Museum



Museum of the American Revolution

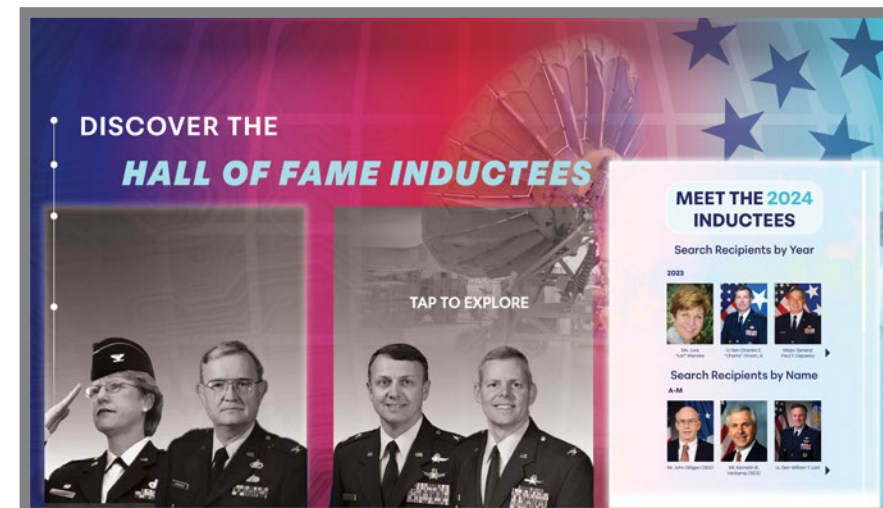


National Soccer Hall of Fame

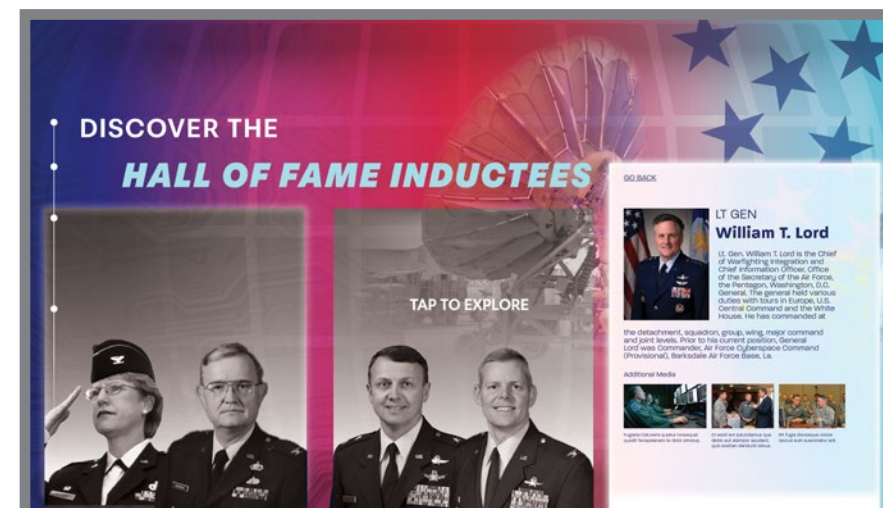
PRELIMINARY INTERACTIVE STORYBOARD



Default Screen

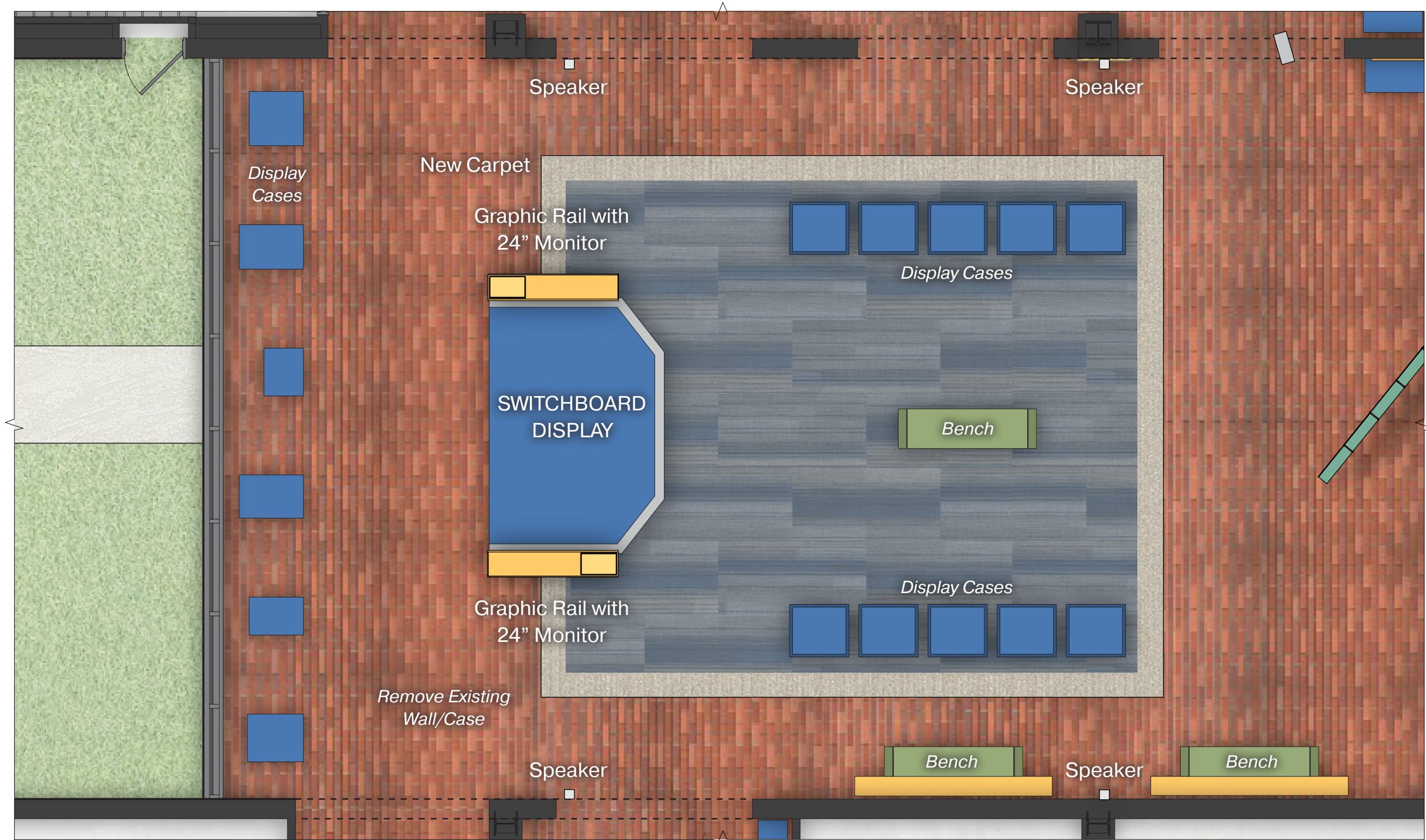


One section activated



Inductee Spotlight

4 Update Switchboard Exhibits



1 Plan
Scale: 3/16" = 1'-0"

4 Update Switchboard Exhibits



4 Update Switchboard Exhibits



4

Update Switchboard Exhibits

REFERENCE IMAGES



Switchboard Artifact



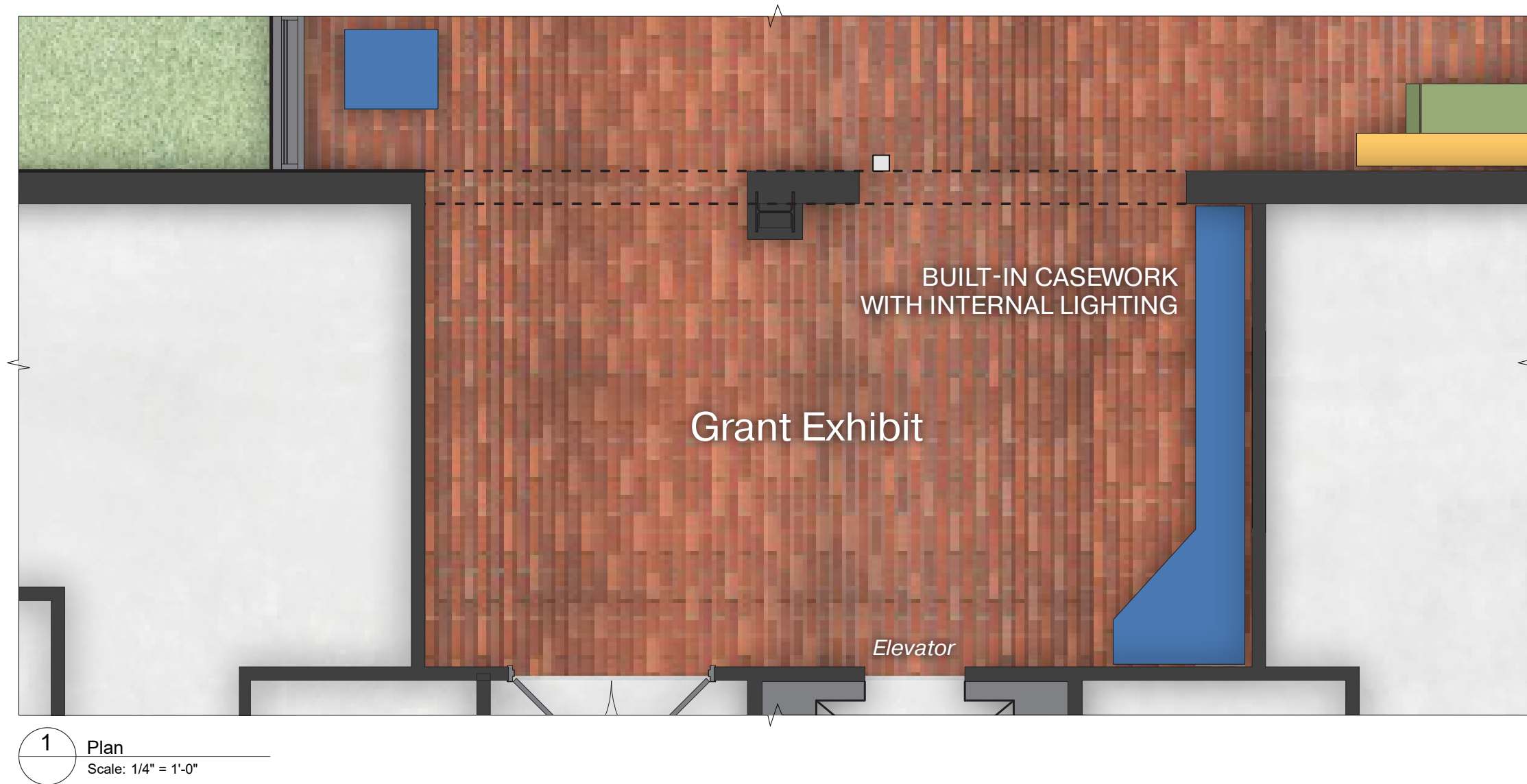
Museum-Quality Figures



Historic Imagery



5 Grant Exhibit



5 Grant Exhibit



Built-In Casework with access doors and internal lighting

5

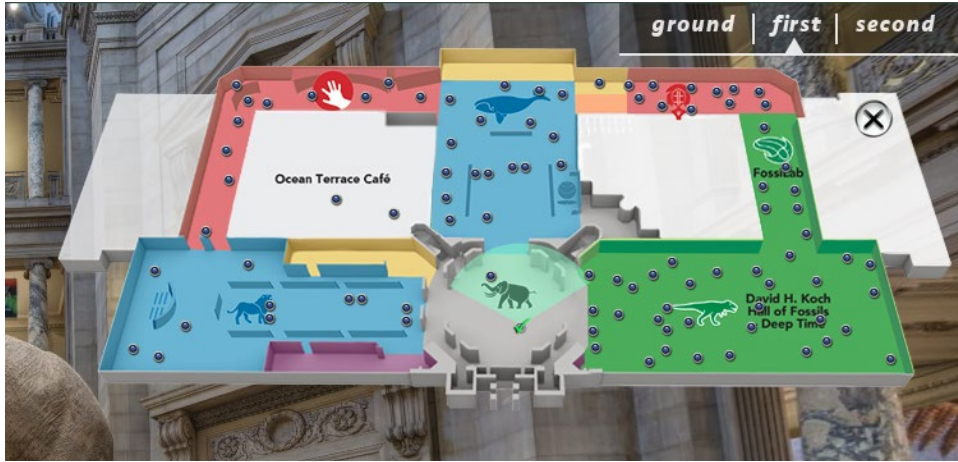
Grant Exhibit

REFERENCE IMAGES:
Grant Artifacts

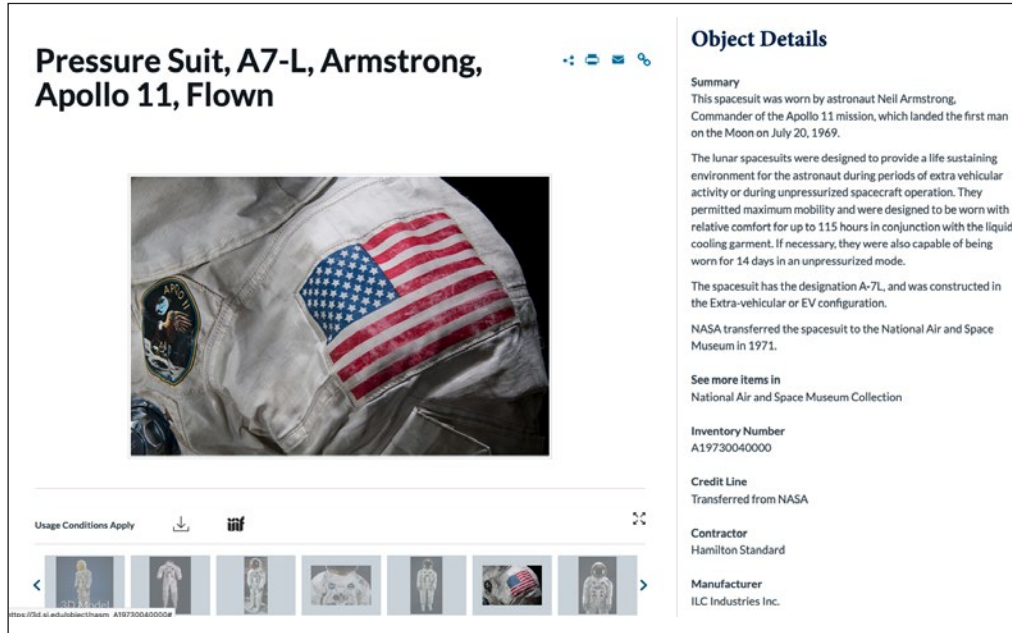


6 Website / Digital Walkthrough

REFERENCE IMAGES



Virtual Walkthrough: National Museum of Natural History



Collections Explorer: Smithsonian Air & Space Museum



Virtual Tour: National Museum of the U.S. Air Force

Giving the AFCC Heritage Center an online presence with a new website will not only allow visitors to access information about planning their visit, upcoming events, and parking/accessibility, but can also house an in-depth virtual walkthrough that provides deeper information about key artifacts.

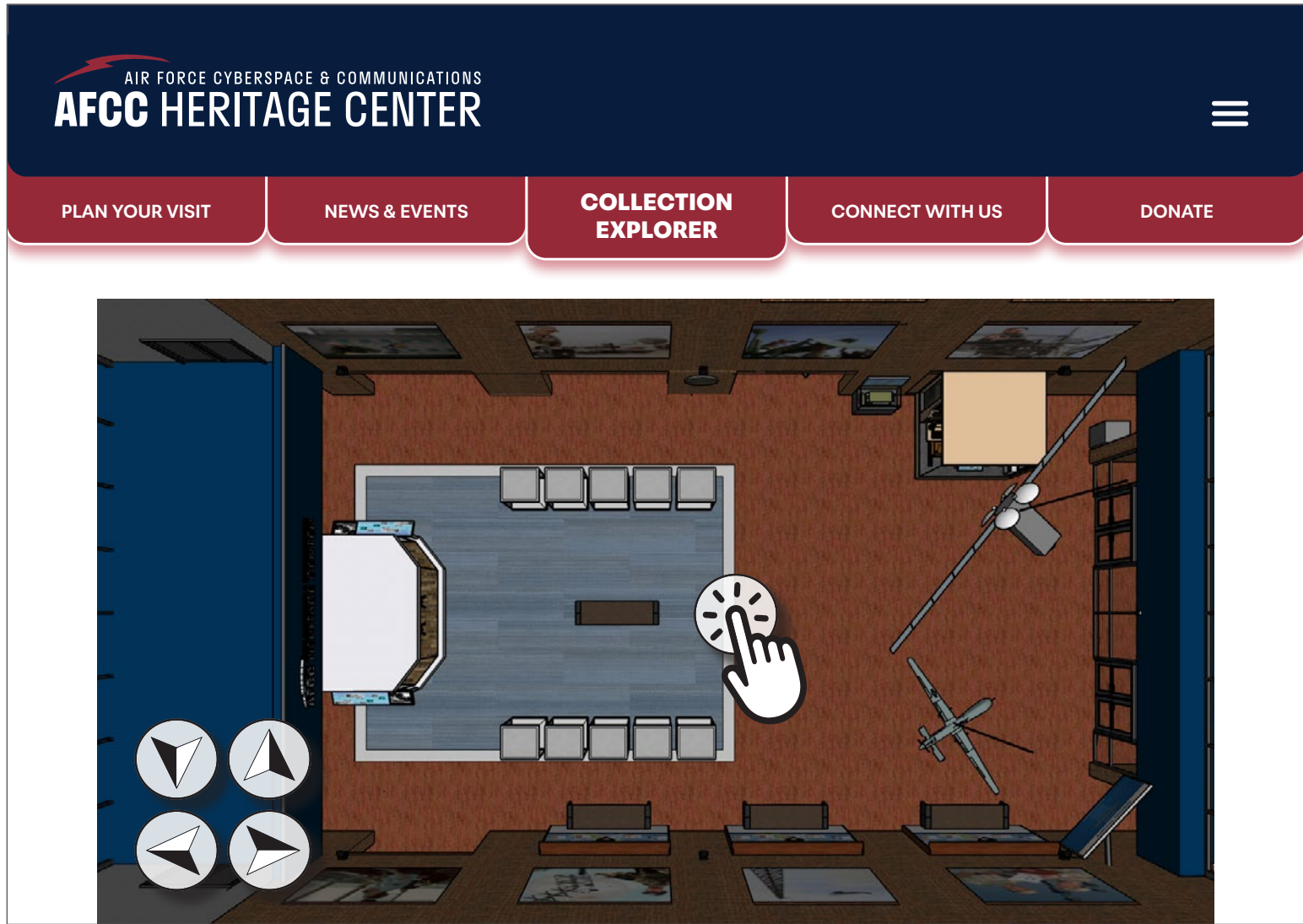
This "Collections Explorer" feature could be accessed by QR code or Bluetooth beacon while in the actual exhibit, but would also live on the website for remote access.



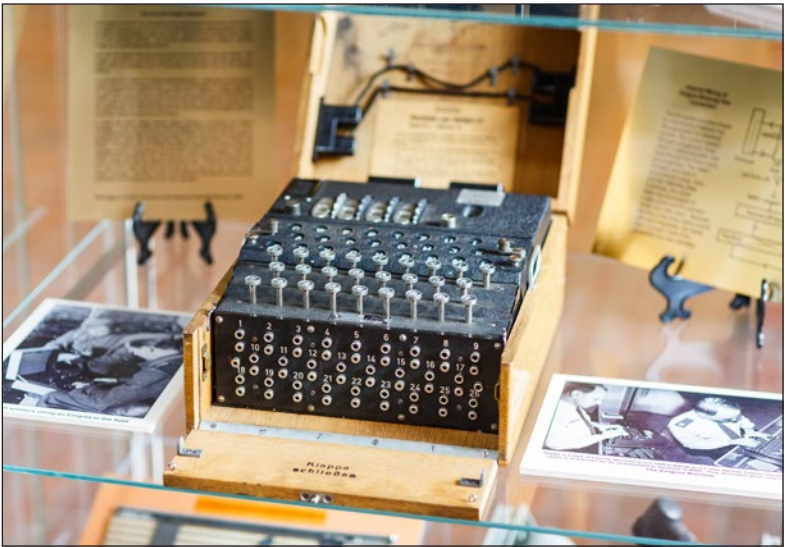
Scanning a QR Code

6 Website / Digital Walkthrough

Sample web page with Digital Walkthrough / Collections Explorer

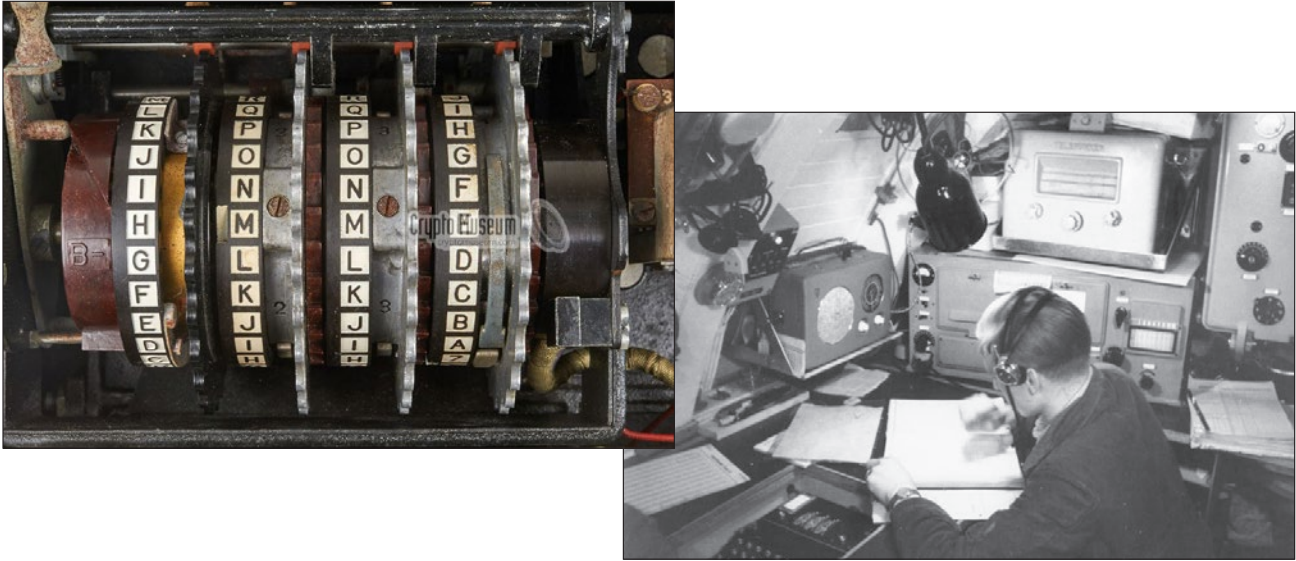


The Collections Explorer feature lets visitors digitally access more detail on a personal device – looking inside an object, learning more about its functionality, and seeing photos/video of the object in context.



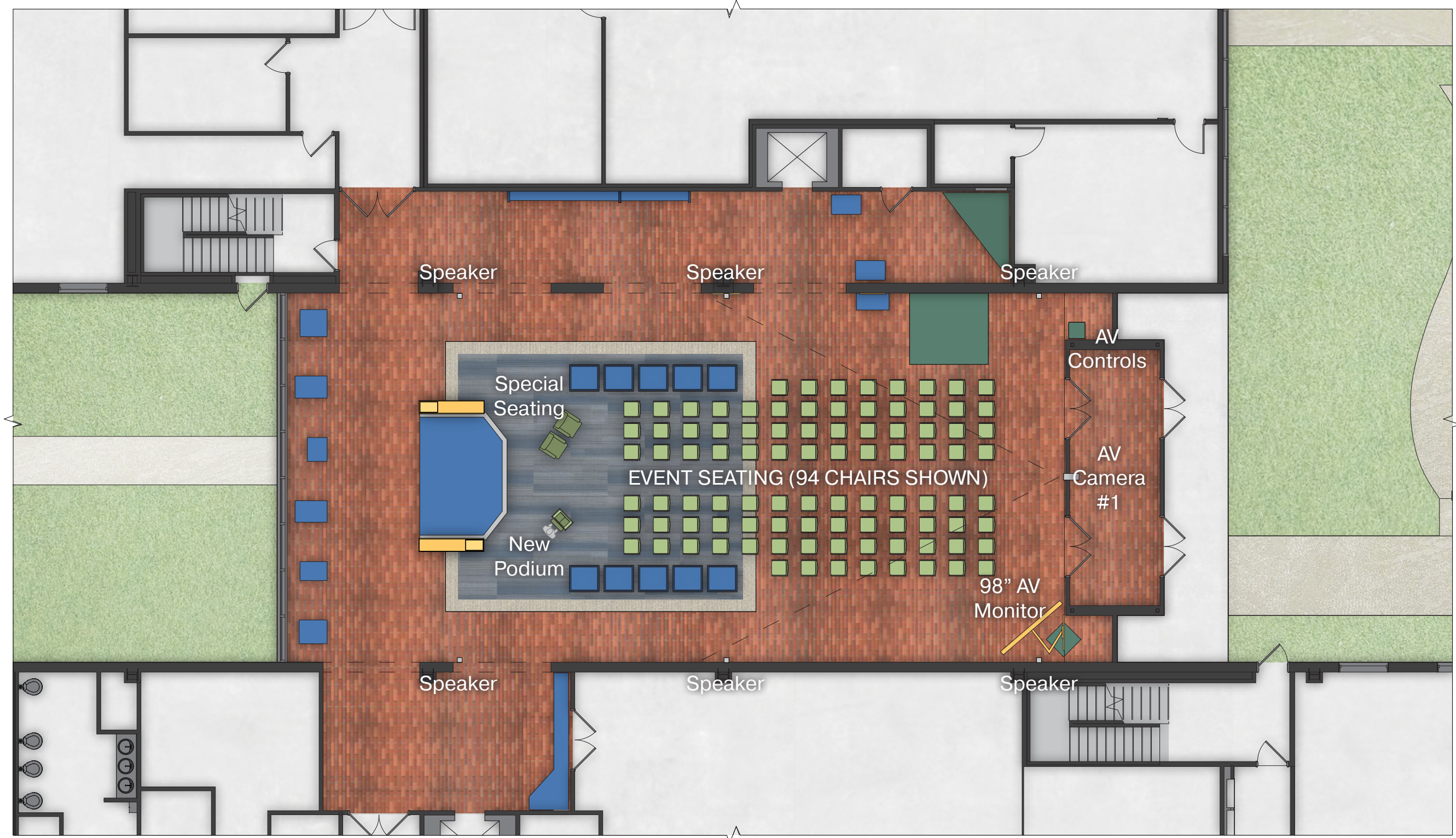
Enigma artifact

Enigma details / contextual images



7 Broadcasting Solution

EVENT SETUP A



1 Plan
Scale: 3/32" = 1'-0"

7

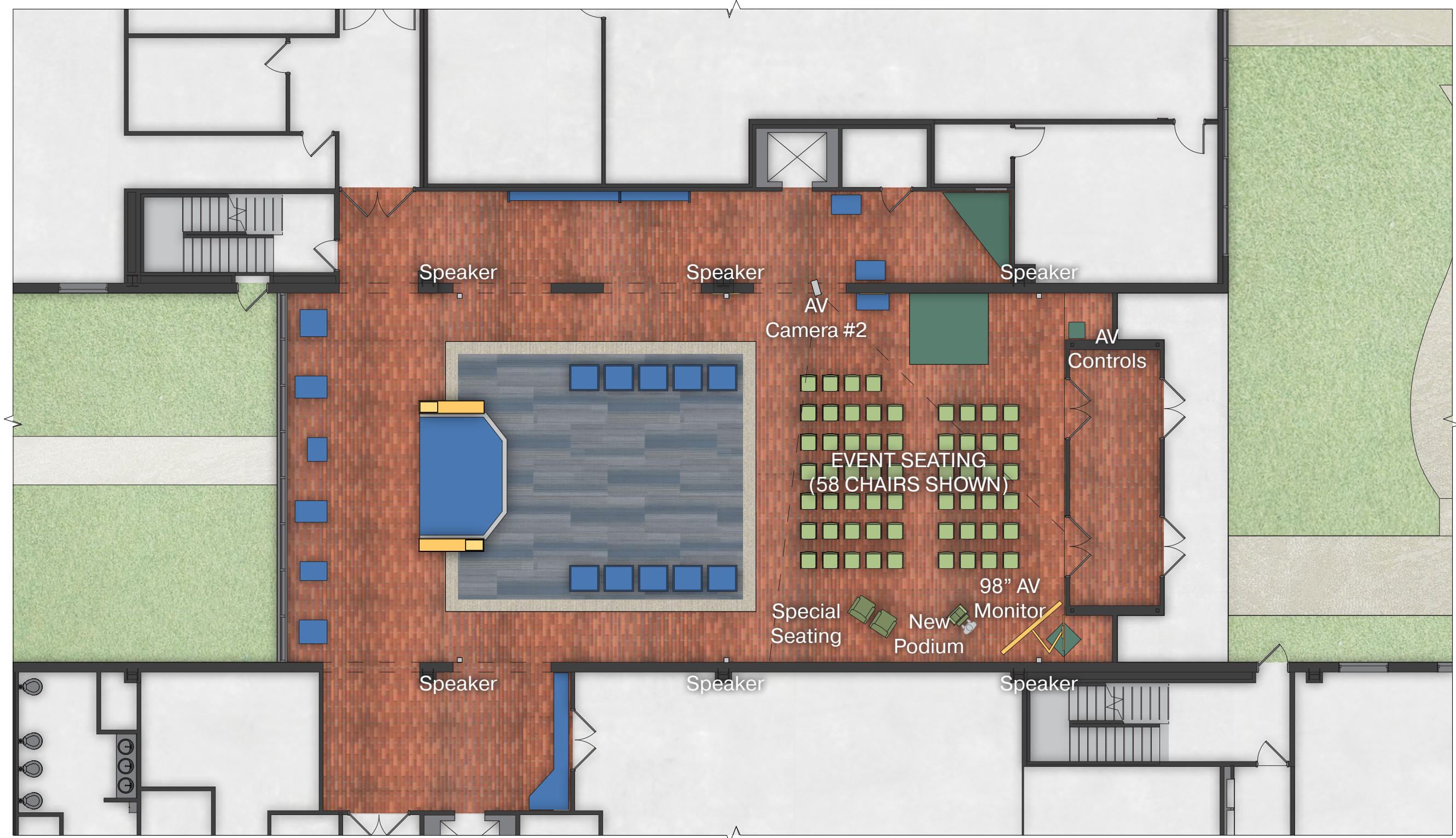
Broadcasting Solution

EVENT SETUP A



7 Broadcasting Solution

EVENT SETUP B



1 Plan
Scale: 3/32" = 1'-0"



8

Materials & Finishes

REFERENCE IMAGES: Existing Finishes



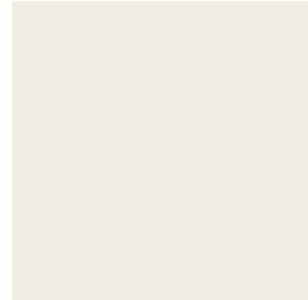
Proposed Materials



Dark Wood



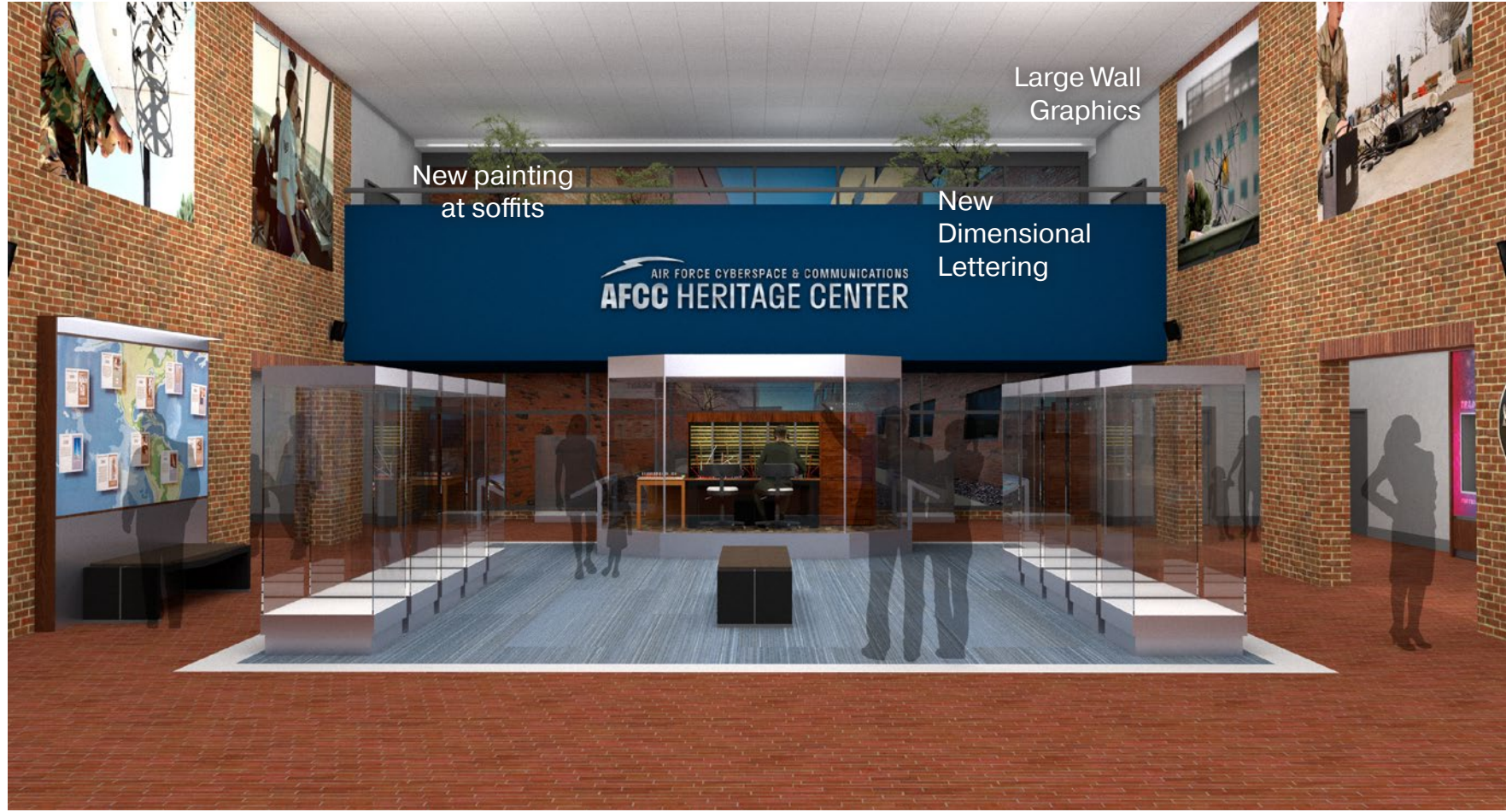
Light Metal to match existing cases



Benjamin Moore Moonlight White 2143-70



Benjamin Moore Symphony Blue 2060-10



New painting at soffits

Large Wall Graphics

New Dimensional Lettering

AIR FORCE CYBERSPACE & COMMUNICATIONS
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8 Materials & Finishes



AIR FORCE CYBERSPACE & COMMUNICATIONS AFCC HERITAGE CENTER



The Air Force Cyberspace & Communications Heritage Center
203 W Losey St, Scott Air Force Base, Illinois 62225

Open Monday through Friday 8:00AM – 4:00PM Closed on weekends and federal holidays. Base access required.
For tours, base access, or correspondence email: HQCCC.AFCC.HeritageCenter@us.af.mil