INTERDISCIPLINARY TEAM DESIGN
VETERANS AFFAIRS AMBULATORY CARE CENTER | OMAHA, NE

PROJECT DESCRIPTION
OMAHA VA AMBULATORY CARE CENTER

The Omaha U.S. Department of Veterans Affairs (VA) Ambulatory Care Center is a three-story 157,000 sf medical office building that expands upon the existing Omaha VA Medical Center Campus in Omaha, NE. The building focuses on providing additional outpatient services through three primary care services, a dedicated women’s health clinic, a radiology unit, five ambulatory surgical rooms, as well as numerous other specialty clinics.

BUILDING DESIGN GOALS

PROTECTION OF HEALTH, SAFETY, AND WELFARE OF THE PUBLIC

Our goal of achieving WELL Silver Certification acted as the basis of designing our building with occupant health & welfare in mind.

BUILDING DESIGN GOALS

OCCUPANT HEALTH AND WELFARE

Our team utilized redundant utility connections as well as - Arrangement of windows to balance natural lighting and glare - Individualized thermostat control allowing varying occupant comfort levels to be obtained.

RESILIENCY

- Minimize the interruption of critical medical processes, including risks in electric and mechanical piping sizing and design.

HARMONY

- Coordinated design decisions between disciplines

INNOVATION

- Implementation of design solutions that push industry standards.

MULTIDISCIPLINARY PARTICIPATION

To decrease solar heat gain and reduce glare caused by the glass curtain wall and orientation of the building, Vision Engineering implemented innovative vertical fitted glass elements on the upper portions of the west facade and utilized present sundak screen on glass facade. Linear facade lighting was mounded to the Mullion to illuminate the fit and create a stunning display that elevates the design and pays homage to the presence and honor of the VA.

ENVELOPE IMPROVEMENT

- Vertical fritted glass on the west curtain wall glazing with varying frit density, horizontal elements with varying orientations on east and west facades.

WELL SILVER CERTIFICATION

51 POINTS

44%

50%

70%

80%

100%

OUR TEAM EXPANDED 30% IMPROVEMENT OVER ASHRAE 90.1 & IEC.

MECHANICAL DESIGN & CONSTRUCTION

- Prefabricated patient headwalls
- MF trade racks in corridors
- Prefabricated PACT partition pods
- Prefabricated precast concrete sandwall panels
- Modular OR ceiling unit

ENERGY IMPROVEMENT

- Modularized MEP device layout

MECHANICAL MODULAR SIDEPLATE CONNECTIONS

- Prefabricated OR ceiling unit and MEP trade racks in corridors
- Prefabricated PACT partition pods
- Prefabricated precast concrete sandwall panels
- Modular OR ceiling unit

- Sound masking
- Creation lighting design
- Individual thermostat control
- Increased water quality
- Supply air filtration

Soft Skills

- Project planning and scheduling
- Ability to listen
- Develop ideas
- Appreciate the work of others

Technical Skills

- Software: Revit 2023, 3D Power Tools, and 3DS Max 2023
- Normal and essential electrical distribution design
- Lighting controls system design
- Mechanical: Revit 2023, Tracer Trace 700, and OpenStudio

Vision Engineering has prioritized the coordination of underground utilities to avoid conflicts with structural foundations. To avoid penetrating the structural grade Care Center floor and to meet VA lease requirements, our team located MFU utilities beneath the grade beam. Additionally, all utility services are encased in concrete duct banks to meet VA accessibility standards.

PROJECT IMAGERY

WEST LOBBY:

NORTH WAITING ROOMS:

TYPICAL PACT EXAM ROOM:

TYPICAL RECOVERY ROOM: