



# NASA GODDARD SPACE FLIGHT CENTER FLIGHT PROJECTS BUILDING

ARCHITECTURAL DESIGN REVIEW COMMITTEE SUBMITTAL



JANUARY 18, 2012





BUILDING 23



BUILDING 12

The new Flight Projects Building (FPB) will be constructed at the NASA Goddard Space Flight Center (GSFC) in Greenbelt, Maryland. The Building will be located on a site east of Buildings 12 and 23 which is currently used for parking. The Goddard Campus is characterized by wooded green areas, low-rise one to four story brick clad buildings, and large metal high tech industrial research and testing structures.

The integration of a new building into an existing campus fabric must be done thoughtfully. The Building's programmatic and functional requirements must be merged with the elements and complexities of the surrounding natural and man-made environment along with the campus history, form, scale, material palette, landscape and architectural characteristics, master plan, and culture. When all these pieces have been effectively merged, the result is site, project, and location specific. It takes cues from the campus' history yet is forward thinking, forward reaching, and part of a larger whole.

The Flight Projects Building is located near the campus core and along the campus loop road. It is shaped by the existing site conditions, forming a bridge that ties together the upper and lower campuses. The Building is an off-set bar, nestled along an existing hillside with a suspended glass core, extending out as a bridge. It respects the surrounding built and natural environment without mimicking it, and helps to establish an architectural palette for future NASA Goddard Projects. The new site layout provides improved circulation around the surrounding buildings and the adjacent parking areas. Service and deliveries will be routed to the back of the building where dumpsters and access to building services are located. The low maintenance landscaping surrounding the new FPB will provide outdoor gathering and seating spaces at the main entrance and along the south side of the site, as well as additional seating along the east side of the site.

The new Flight Projects Building will be occupied by Code 400, Flight Projects Directorate offices currently located in Buildings 16 and 16W and Code 101, New Opportunities Offices currently located in Buildings 8 and 86. The Building will be approximately 115,000 square feet, with four stories of office space, a mechanical penthouse on the roof and accommodate approximately 300 people. The central core includes a series of 'suspended' glass volumes, highlighted by an open monumental stair and a second floor bridge which will allow for unimpeded pedestrian flow through the building. The new facility will also include a Symposium that can host approximately 80 people in a theatre style setting. The roof of the Symposium will be an outdoor terrace with plantings, tables and seating, and provide a view of the wooded hillside.

On each side of the central core are the office wings that will typically house project management suites. The wings are laid out on an efficient grid and module that, with the use of demountable partitions for the private offices, will allow for ultimate flexibility and reorganization of staff as the mission changes. There is a "U" shaped corridor with conference rooms, storage, pantry and copy areas for each suite located at the center of the wings. The office environment will be defined by a combination of clear and translucent/frosted glazing to provide privacy while still allowing natural light into the office space.

The exterior material composition incorporates terracotta, glass, and metal curtain wall, providing a palette of materials and colors to achieve a harmony and balance with the existing core campus fabric. Terracotta panels feature the natural material quality, color, and modular nature of the adjacent load-bearing brick masonry buildings, but employ a modern curtain wall approach. The terracotta is used as a backdrop to define larger volumes from which the glass elements are suspended. Terracotta baguette elements carry lines and materials across glass areas within the large volumes and act as a brise soleil, shading the glass to improve energy performance.

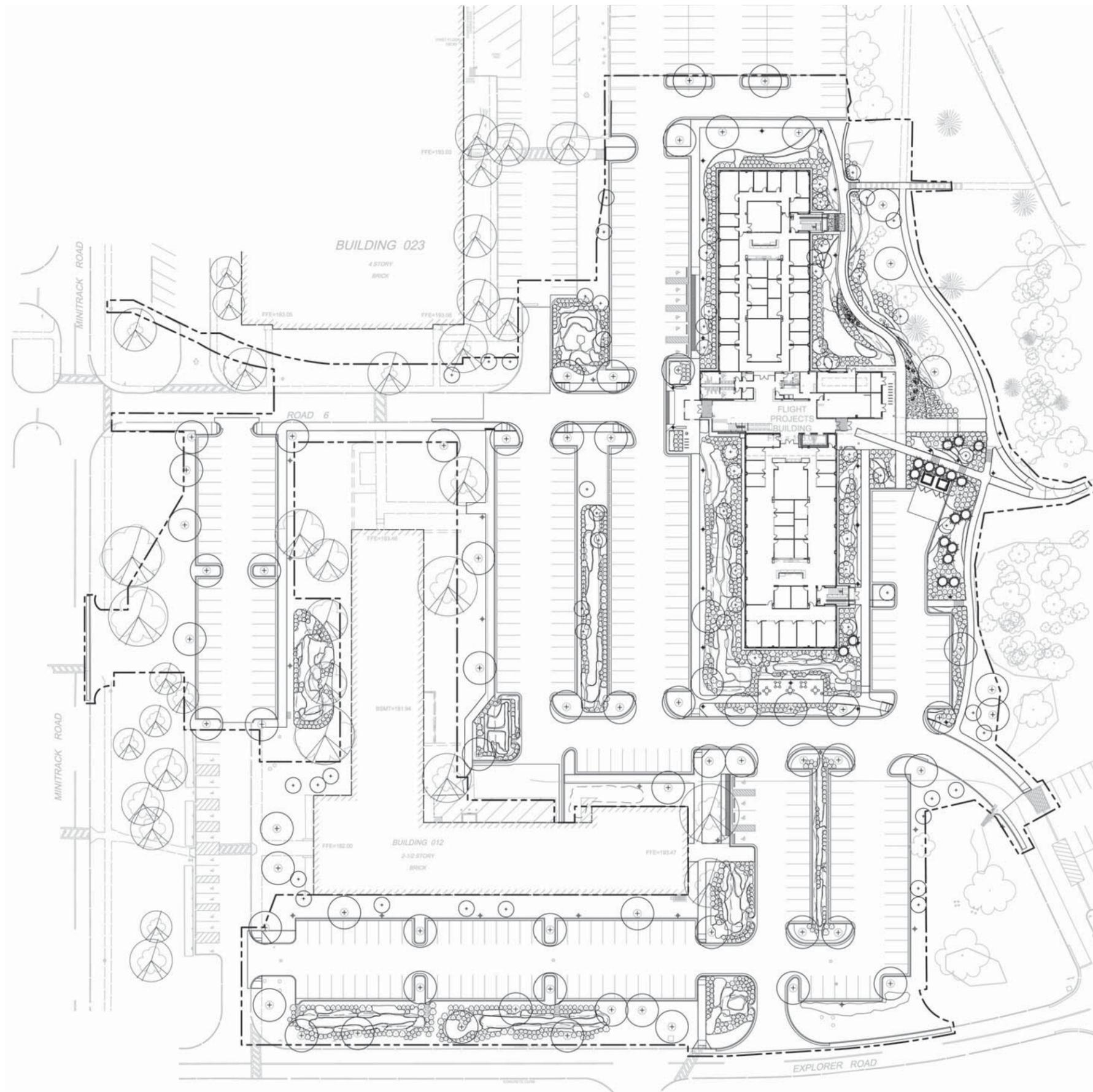
The upper floors of the two wings will incorporate large expanses of glass in a rhythm of transparent, translucent, and opaque panels, responding to a desire for natural light and surrounding views while connecting the building's occupants to the outside. They include shifting planes of glazing and varying types of glass along the east and west facades, as well as extending metal fins, to create a mixture of different shadows, textures, and glow, enlivening and activating the façade, while still responding to the needs of the office functions within. As with the horizontal shading devices, these vertical fins are part of the energy performance strategy to reduce heat gain and prevent glare in the offices.

The new Flight Projects Building will remain sensitive to the existing Master Plan while responding to the current campus needs. It will provide an environment that will support the Goddard Space Flight Center and its ongoing mission for Earth and Space exploration.



EXISTING LANDSCAPE ENVIRONMENT





LEGEND

- ◆ A PEDESTRIAN LIGHTING
- ⊕ B GENERAL PARKING LIGHTING



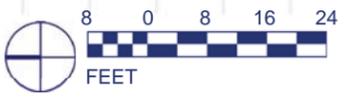
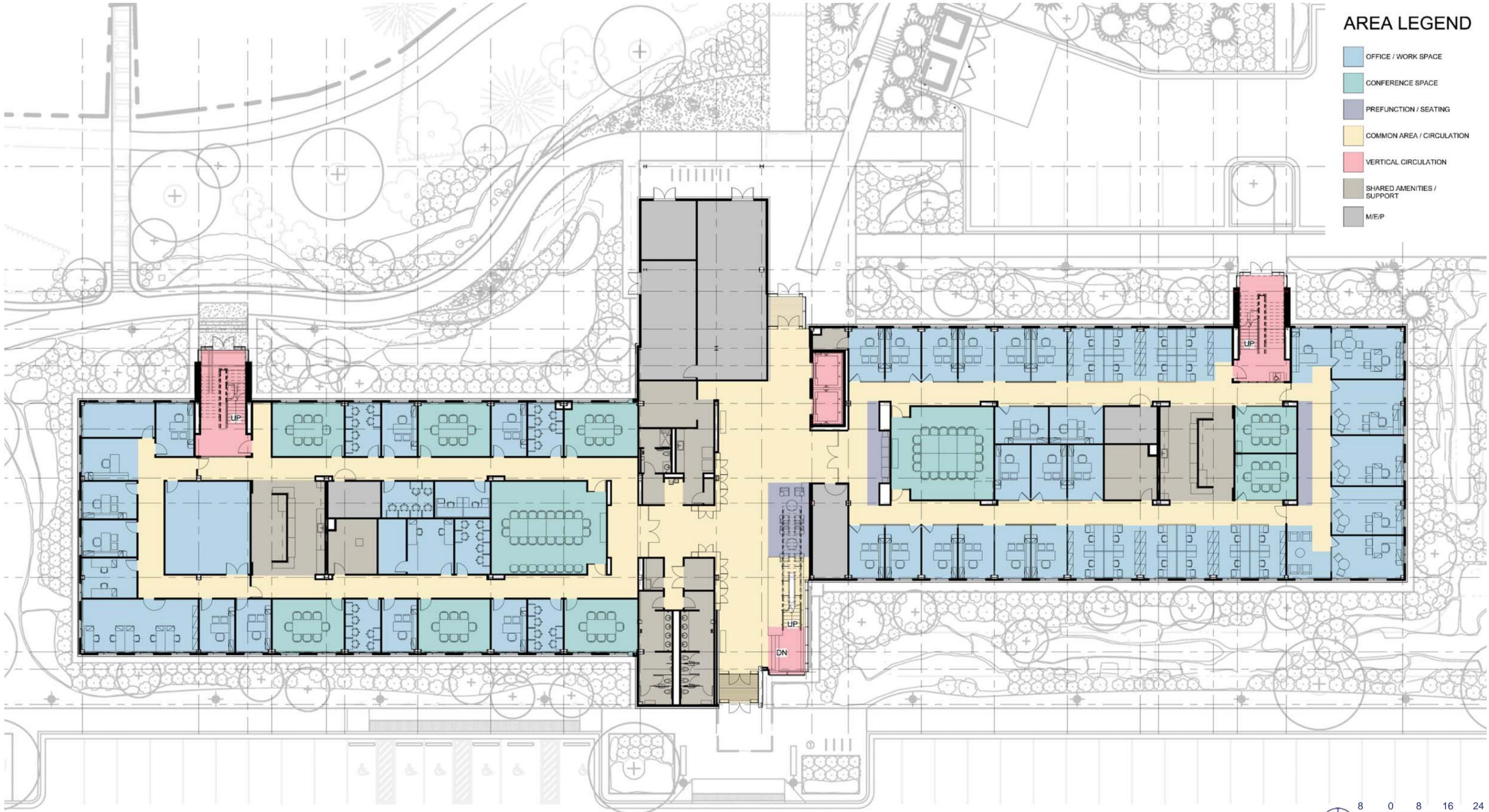
SITE PLAN

18 JANUARY 2012



# AREA LEGEND

- OFFICE / WORK SPACE
- CONFERENCE SPACE
- PREFUNCTION / SEATING
- COMMON AREA / CIRCULATION
- VERTICAL CIRCULATION
- SHARED AMENITIES / SUPPORT
- M/E/P

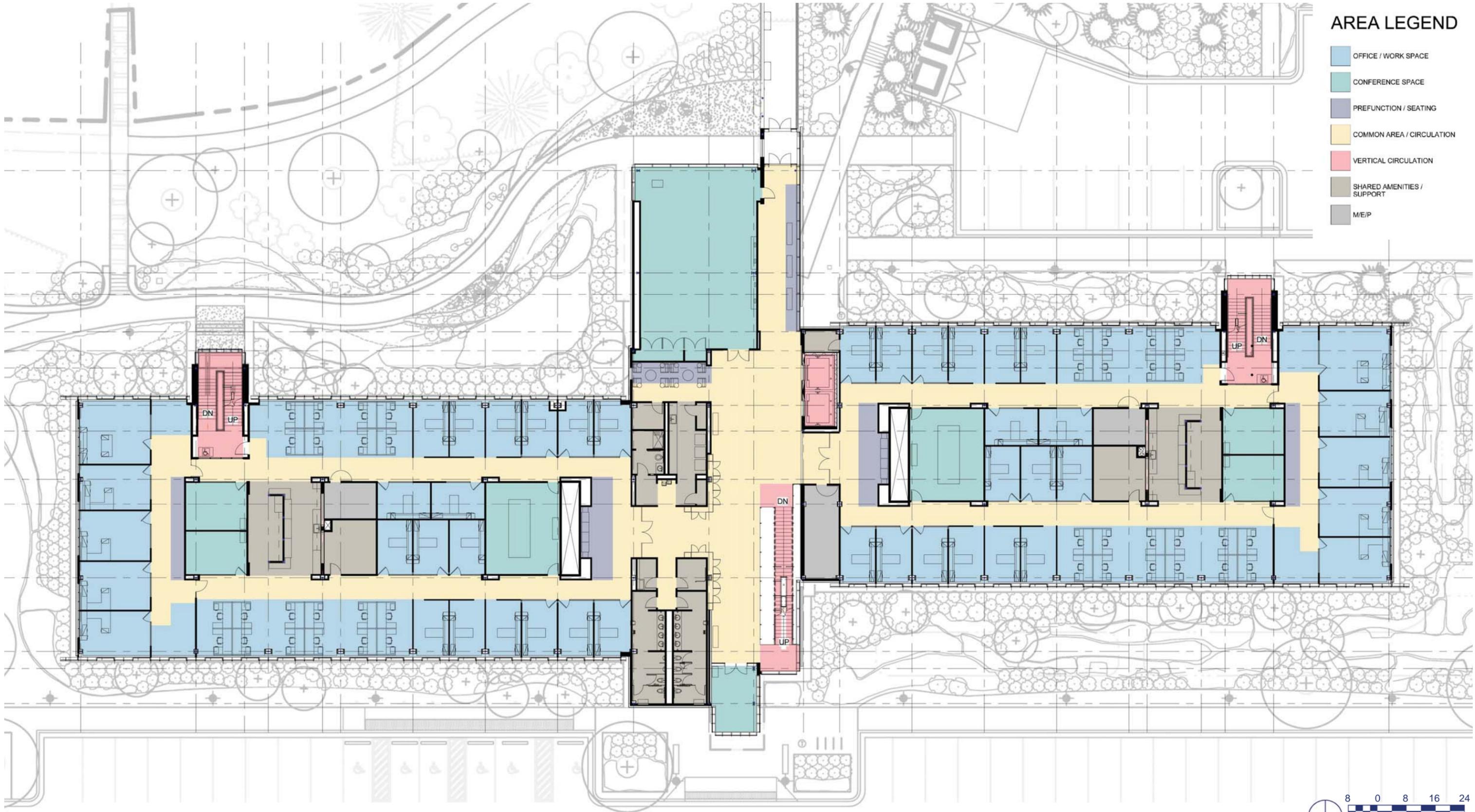


LEVEL 1 - FLOOR PLAN

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# AREA LEGEND

- OFFICE / WORK SPACE
- CONFERENCE SPACE
- PREFUNCTION / SEATING
- COMMON AREA / CIRCULATION
- VERTICAL CIRCULATION
- SHARED AMENITIES / SUPPORT
- M/E/P

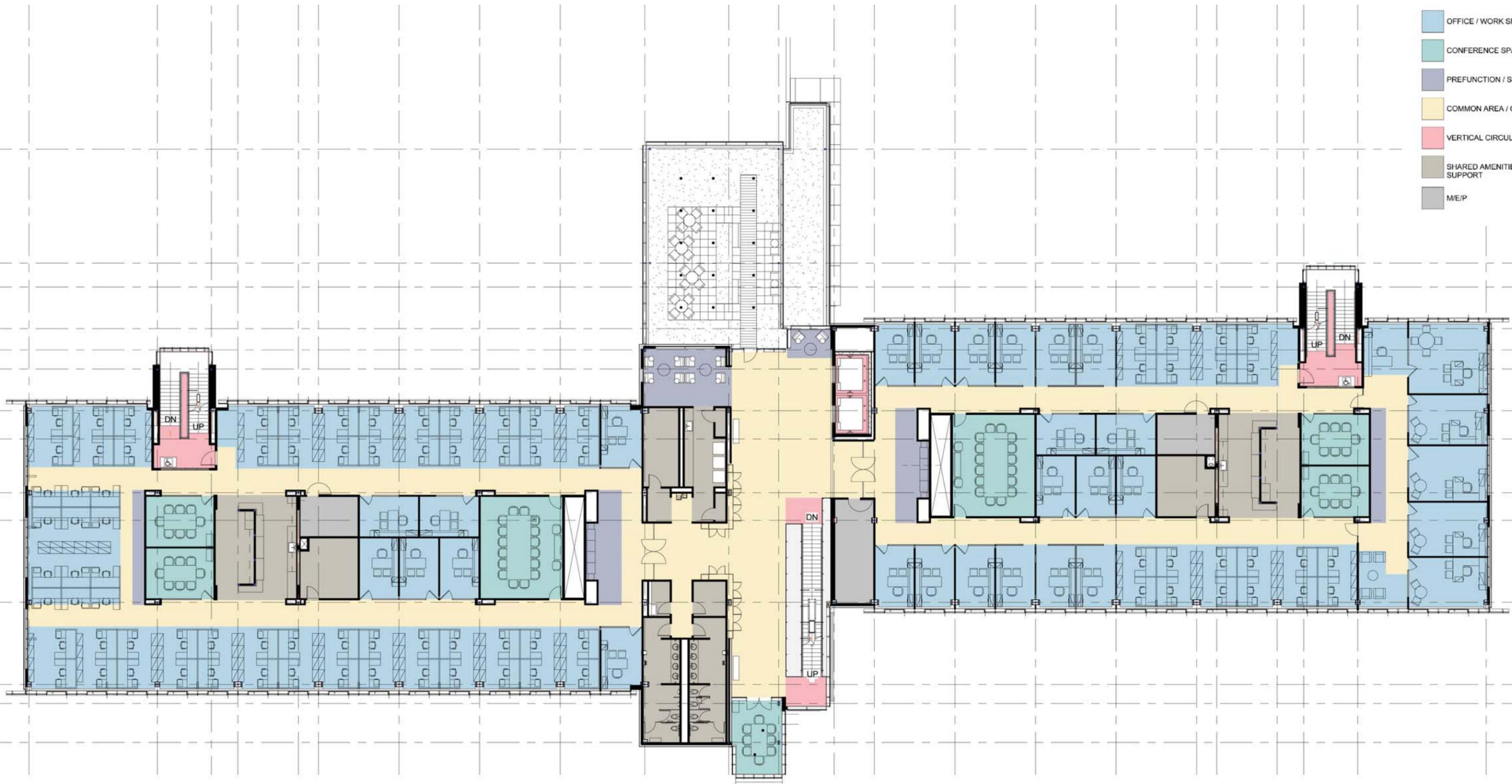


LEVEL 2 - FLOOR PLAN

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# AREA LEGEND

- OFFICE / WORK SPACE
- CONFERENCE SPACE
- PREFUNCTION / SEATING
- COMMON AREA / CIRCULATION
- VERTICAL CIRCULATION
- SHARED AMENITIES / SUPPORT
- ME/P



LEVEL 3 - FLOOR PLAN

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# AREA LEGEND

- OFFICE / WORK SPACE
- CONFERENCE SPACE
- PREFUNCTION / SEATING
- COMMON AREA / CIRCULATION
- VERTICAL CIRCULATION
- SHARED AMENITIES / SUPPORT
- ME/P



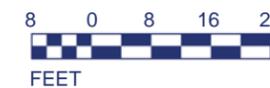
LEVEL 4 - FLOOR PLAN

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NASA GODDARD SPACE FLIGHT CENTER  
FLIGHT PROJECTS BUILDING





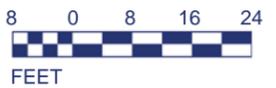
WEST ELEVATION

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FLIGHT PROJECTS BUILDING





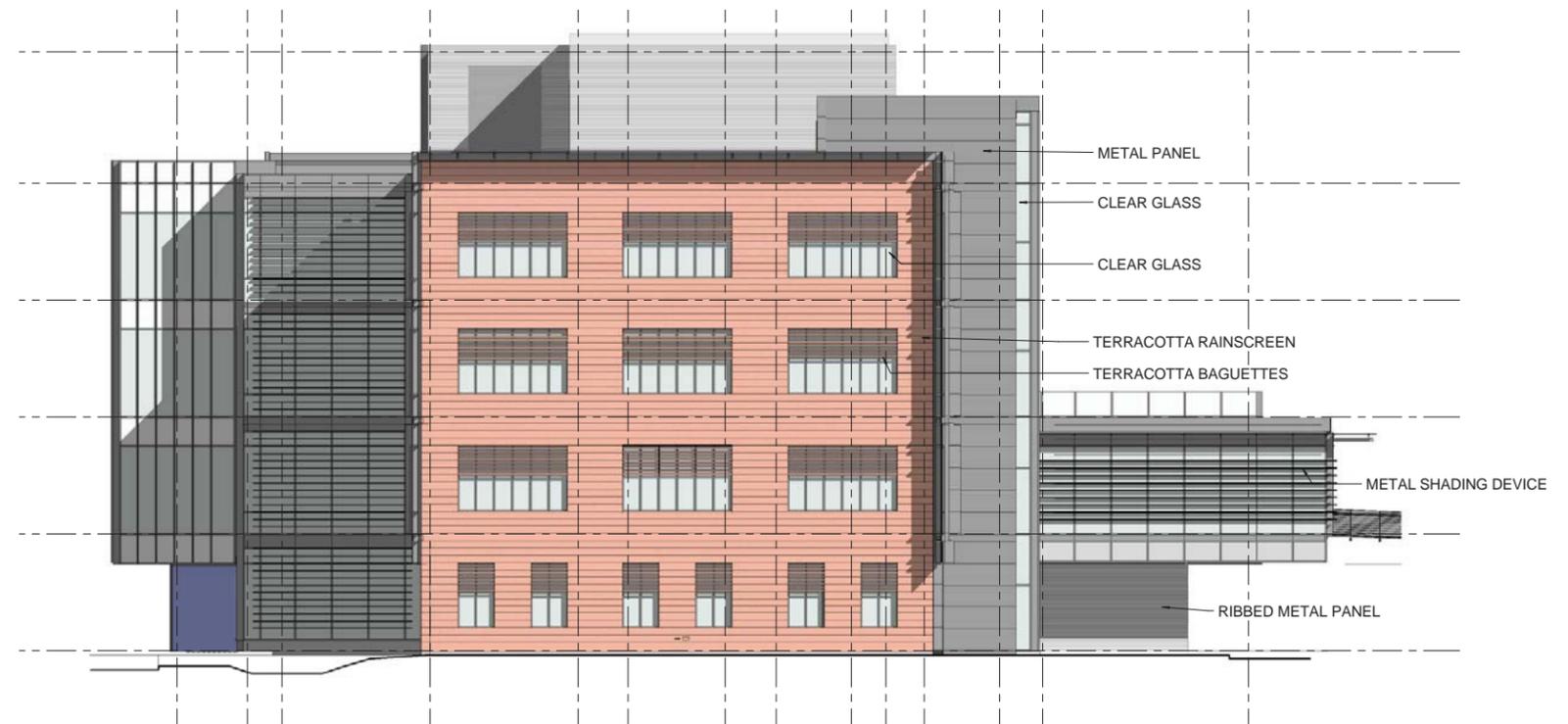
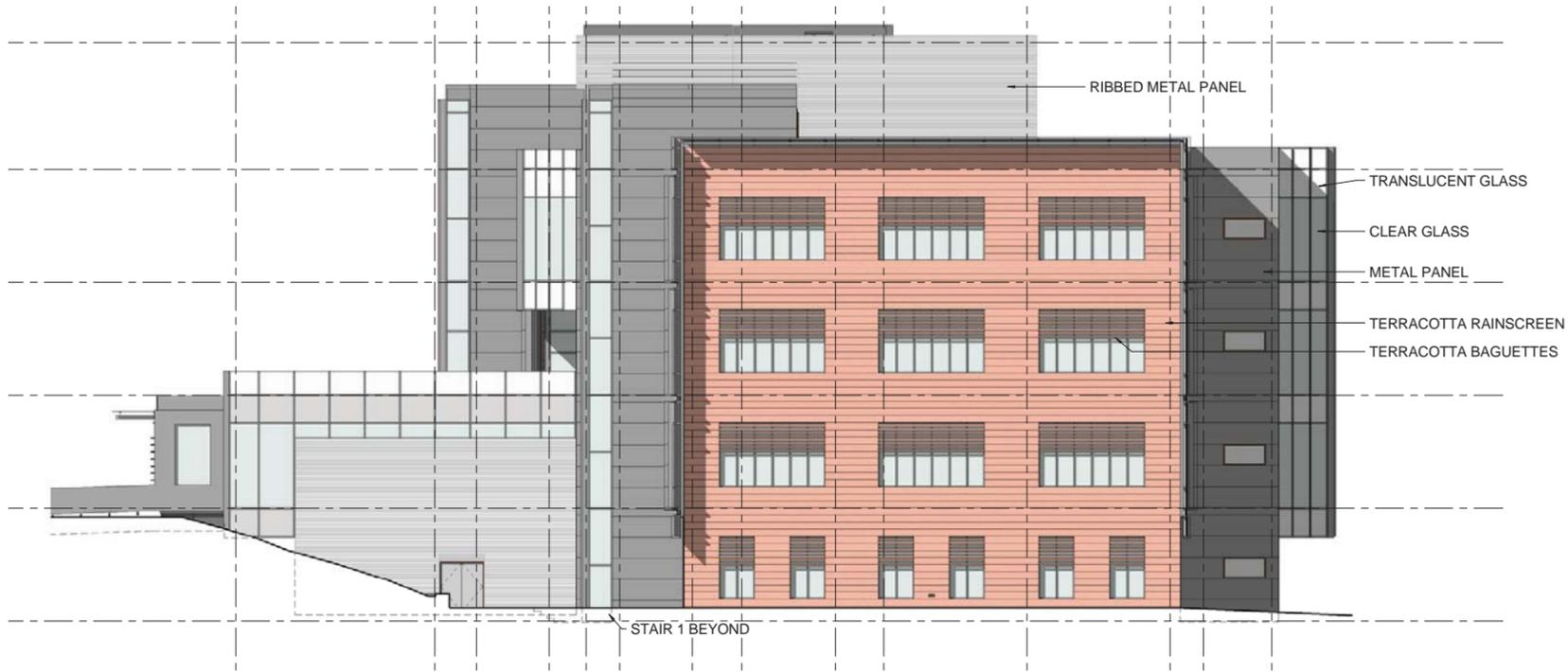
EAST ELEVATION

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NASA GODDARD SPACE FLIGHT CENTER  
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PERSPECTIVE VIEW FROM SOUTHWEST

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FLIGHT PROJECTS BUILDING

PERSPECTIVE VIEW FROM NORTHWEST

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PERSPECTIVE VIEW FROM NORTHEAST



PERSPECTIVE VIEW FROM SOUTHEAST



PERSPECTIVE VIEW FROM SOUTHEAST

