

Program Summary:

This fire station harmonizes industrial rigor with residential sanctuary, blending modular masonry, sustainable solar design, and private wellness-focused quarters into the Camellia Boulevard greenbelt.

Program Statement:

The design of this facility is defined by a sophisticated integration of dualities: the industrial rigor of emergency response and the restorative comfort of a rotational 24-person residence. Situated within the Camellia Boulevard greenbelt, the site utilizes expansive drives for fire apparatus while mitigating its presence through native Louisiana landscaping and a softened architectural scale.

Environmental performance is woven into the plan, utilizing northerly orientation for indirect light and metal canopies on southern exposures to reduce cooling loads. The facility's heart is a high-performance apparatus bay, designed with smooth-faced CMU and advanced ventilation systems. This core is balanced by a residential wing optimized for personnel wellness and personal space. A professional-grade kitchen serves as the social anchor, featuring dual refrigeration, a six-burner range, and a spacious granite island. This space doubles as a briefing hub with integrated monitors for communal training. The transition from public to private is anchored by a transparent watch room, offering a welcoming civic face. Inside, a palette of muted materials and private single-occupancy bedrooms allow for undisturbed decompression. A secluded, wood-fenced courtyard completes the sanctuary, providing a secure outdoor retreat. By harmonizing robust durability with domestic warmth, the facility serves as a resilient neighborhood anchor and a dignified home for those who serve the community.

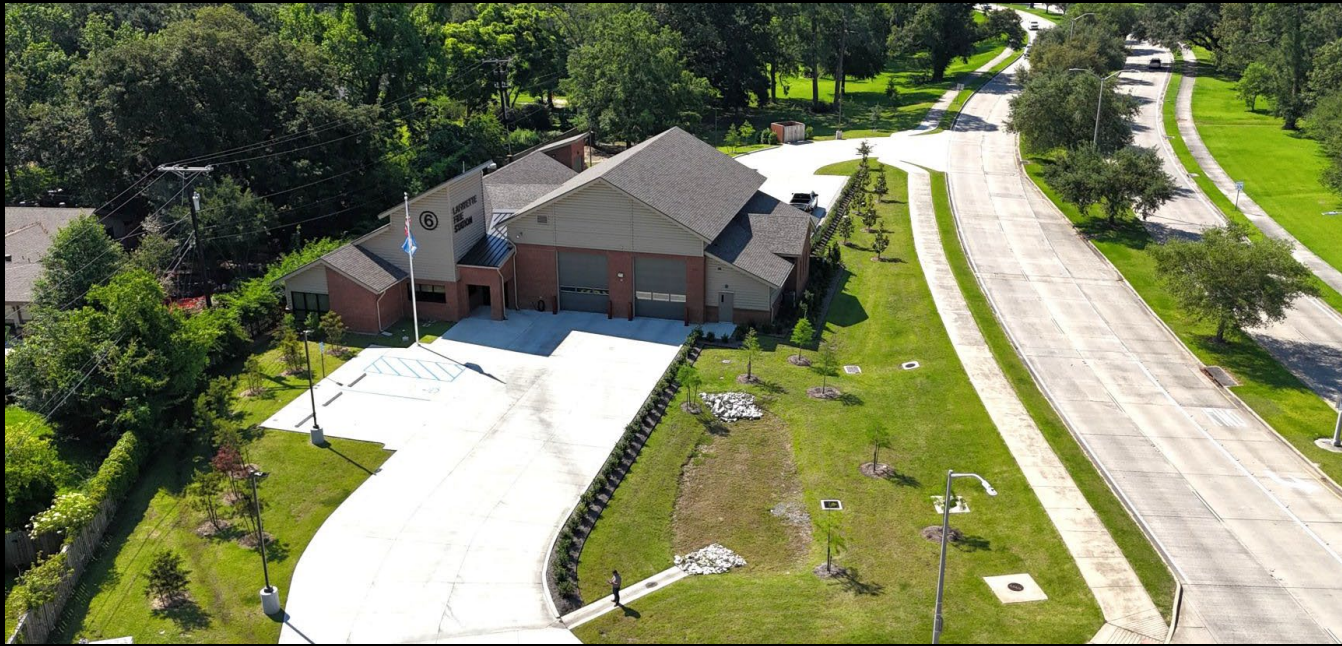
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Building Area: (sf)
7,156 SF

Cost per Square Foot:
\$461.51

Construction Cost
\$3,302,571.00

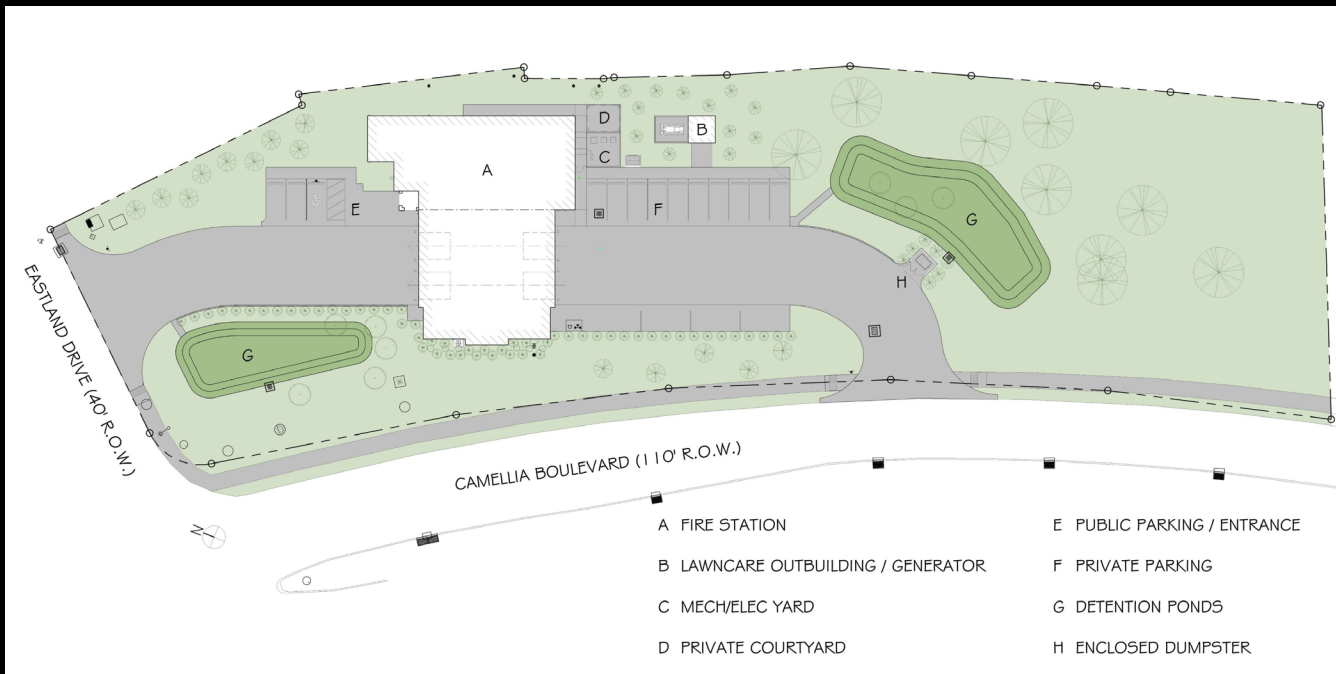
Date of Completion:
March 2025



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SITE PLANNING

The expansive site accommodates generous access drives and turning radii essential for the seamless movement of fire apparatus into and through the facility and adjoining streets. To honor the Camellia Boulevard greenbelt, the design integrates extensive landscaping, replacing felled pines with native Louisiana oaks, cypress, and shrubs to weave the building into its natural surroundings.





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EXTERIOR DESIGN

Blending residential exterior finishes, soft gables, low-slung forms reduce the facility's scale, allowing it to integrate into the neighborhood aesthetic. While exterior brick and metal panels provide the resiliency necessary for an emergency facility, the color palette is intentionally softened to assimilate into the residential surroundings. Furthermore, the undulating height of the brick wainscot adds a rhythmic, playful quality that avoids the sterile look of an industrial building.





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EXTERIOR DESIGN

The building's orientation is optimized for the local solar path. The kitchen, living areas, and most bedrooms feature northerly-facing windows that capture consistent indirect light while minimizing heat gain. For the three south-facing bedrooms, an integrated metal canopy provides essential shading, significantly reducing cooling loads and ensuring interior comfort throughout the day. The large overhead doors are insulated for added resiliency considering the long sun exposure.



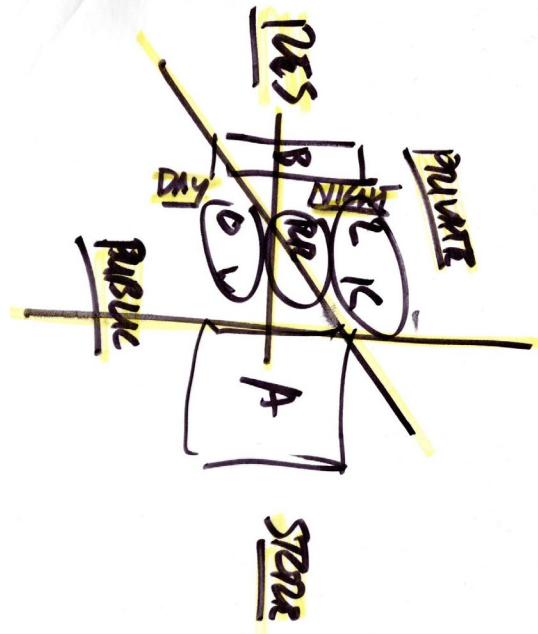


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DETAILING

The facility's detailing utilizes material dimensions as a form-giving tool. By adhering to modular CMU and brick dimensions, the design ensures precise coursing that minimizes masonry cuts and onsite labor. Architectural depth is achieved through a moderately sloped brick sill and consistent soldier courses at the base and sub-sill, which establish a rhythmic datum around the perimeter. This horizontal logic extends to the facade's metal panels; their ridge spacing mimics the brick coursing, creating a unified visual language that softens the building's scale and emphasizes its craft-led construction.

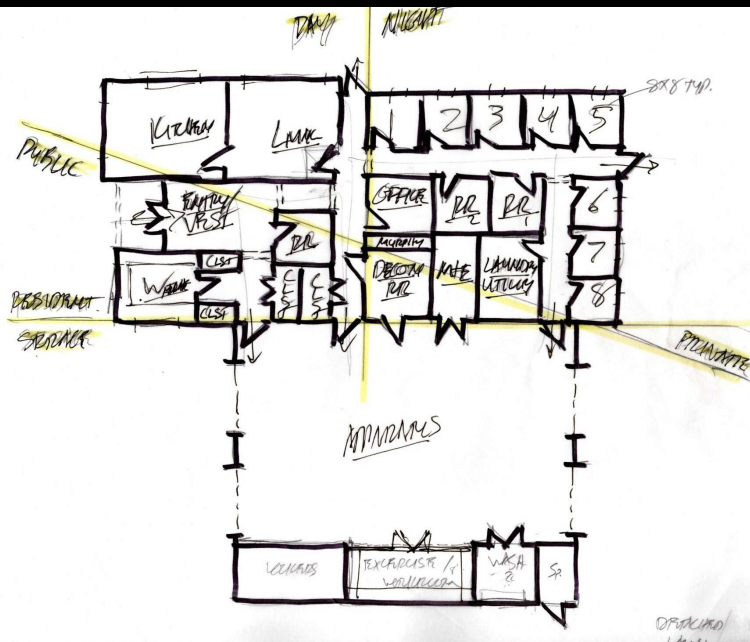




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PROGRAMMING

Early programming diagrams prioritized a seamless integration of dualities: apparatus storage and work areas versus residential occupancies, public versus private zones, and day versus night routines. By overlaying these lifestyle requirements with the rigorous operational standards of the local fire department, a highly specialized floor plan emerged. The result is a facility that functions with the precision of an emergency hub while maintaining the comfort and sanctuary of a 24-hour residence.



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FLOOR PLAN

The floor plan was driven by the specific operational needs of the local department, centered on a two-bay apparatus garage with dedicated locker room and specialized gear-wash station. A prominent public entrance, situated adjacent to the watch room, establishes a formal civic presence. To support the personnel, the facility provides comprehensive kitchen and living quarters designed to accommodate three eight-person shifts, creating a space where crews can cook, rest, and sleep comfortably while remaining ready to engage the community.





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APPARATUS

The apparatus room is designed for maximum durability and hygiene. Smooth-faced CMU walls provide a clean interior finish that resists soot accumulation from exhaust soot, while a ceramic-glazed CMU base course facilitates easy sanitization at floor level. The flooring consists of epoxy-coated concrete with integrated linear trench drains, designed to handle spills and withstand long-term heavy vehicle wear. To ensure personnel safety, air quality is managed through high-efficiency air-filtering units tied to a CO monitoring system, a concealed robust ventilation network, and specialized air filtration systems. Despite its industrial rigor, the space feels open and functional, thanks to tall acoustical ceilings and high-powered overhead doors.





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LOCKERS

The facility features a fully conditioned locker and workroom, housing twenty-four wall-mounted open-rack lockers to accommodate three rotating eight-person crews. The open-framed system is specifically designed to promote airflow, ensuring firefighting gear is properly aired out to prevent moisture buildup and odors. The room provides ample floor space for rapid deployment, anchored by a robust wooden workbench dedicated to maintenance and repair of station equipment.





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INTERIOR DESIGN

Inside the residential wing, a palette of muted, domestic-inspired colors creates a restorative, home-like atmosphere. Prioritizing firefighter retention and wellness, the facility features private single-occupancy bedrooms, offering personnel a dedicated space for undisturbed rest and decompression. This privacy is balanced by the public-facing watch room at the main entrance; wrapped in large aluminum storefront glazing, it provides clear sightlines for approaching citizens while maintaining a strong civic presence.





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KITCHEN & DINING

The kitchen and dining wing is designed as a communal hub, equipped to support the needs of a large, rotating workforce. The chef-grade kitchen features a six-burner range, dual refrigerator units, and an expansive granite island that serves as the centerpiece for collective meals. To maintain organizational efficiency across the three eight-person shifts, the pantry includes three distinct sets of lockable storage. This multifunctional space is further enhanced by adjacent monitors, allowing the dining area to function as an informal classroom for training seminars or communal gatherings.





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LIVING

A secluded living room provides a quiet retreat for rest, while its versatile layout and integrated monitors accommodate professional training seminars. For precision control over the environment, all windows are equipped with dual-screened roller shades, allowing personnel to manage privacy and solar glare at any hour. This interior comfort extends to an exterior covered courtyard; enclosed by warm wood privacy fencing, this outdoor sanctuary offers a serene atmosphere for personnel to decompress in the fresh air while remaining screened from public view.





A-50.13

A NEW FIRE STATION FACILITY

Ultimately, this facility is more than a garage for fire apparatus vehicles; it is a carefully calibrated environment that honors the demanding rhythms of those who inhabit it. By balancing robust, hardy materials with the warmth of a residential home, the architecture provides a sense of dignity and sanctuary to the crew, ensuring they are as rested and resilient as the building itself.