



600 GRANT STREET

THE STEEL
TRIANGLE
IN THE
GOLDEN
TRIANGLE



INTRODUCTION

United States Steel's Pittsburgh headquarters building is one of the largest and most innovative high-rise office structures ever built.

A showcase for modern steel design and advanced construction ideas, it towers 64 floors, 841 feet above the famous Golden Triangle.

The Steel Triangle stands as an eminently meaningful symbol of U. S. Steel's faith in Pittsburgh as a major industrial headquarters city, and we hope you share our sense of pride and accomplishment in this significant landmark addition to the skyline of the Steel City.





64-Story United States Steel Building

A spacious two-acre plaza, bounded by Grant Street, Bigelow Boulevard and Sixth and Seventh Avenues, creates a park-like setting for Pittsburgh's showcase of architectural innovation. A three-level, 600-car, underground garage provides ready access to the city's major arteries. These features, combined with a rooftop heliport, help to make 600 Grant Street a completely contained Pittsburgh headquarters location.

A three-acre tract of land was chosen in the historic Grant's Hill area between Grant Street and Bigelow Boulevard.

Groundbreaking took place March 15, 1967, and first steel for the tower was set into place on September 4, 1968.

On October 24, 1969, the last major piece of steel was set during "topping out" ceremonies.

In September, 1970, the first occupants transferred to their new offices and the building breathed life as Pittsburgh headquarters building for the nation's largest steelmaker.



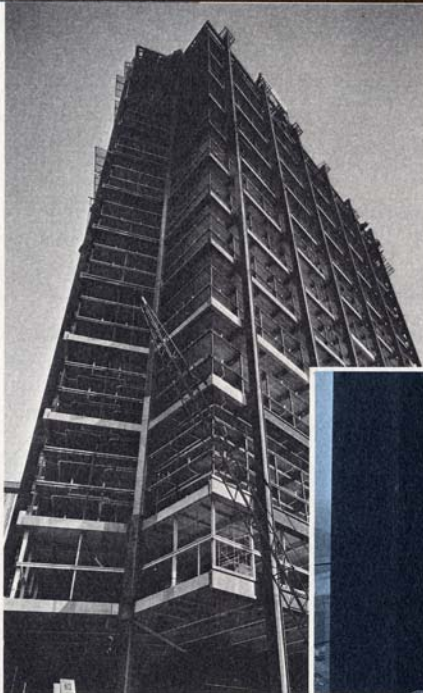
Vast innovations in design and construction combine to make the Steel Triangle a model for architects who will plan future buildings throughout the world. Among the host of futuristic ideas included in our new Pittsburgh corporate home are:

COR-TEN STEEL EXTERIOR COLUMNS AND WALLS—USS COR-TEN is a high-strength, atmospheric corrosion-resistant steel that changes to a dark russet color as it ages.

EXTERIOR STEEL PRIMARY FRAMING
Every third floor is connected to the 18 exterior supporting columns.

USS ULTIMET—Interlocking curtain wall system for the exterior walls using COR-TEN steel with stainless steel window frames.

WATER FILLED COLUMNS—Eighteen exterior columns contain 400,000 gallons of water solution for fire protection. Should a fire impinge on these columns, the water solution would dissipate its heat by convection and maintain the structural integrity of the columns.



Electric Stairways

The expansive two-level lobby provides an impressive entrance. Warmly accented in Palladiana terrazzo and exposed steel, it is equipped with programmed lighting and is enclosed by 56-foot-high glass walls. Moving stairways connect the concourse, plaza and upper lobbies. Forty-eight electronically monitored passenger elevators arranged in six banks provide fast, convenient service.



CONSTRUCTION HISTORY

In 1965, USS personnel occupied all or part of 12 Pittsburgh office buildings. At that time, company officials began formulating plans for a single structure to efficiently house all general office operations.

After examining a number of forms, a triangle-shaped structure, modified with notched corners, was chosen to best serve requirements. It called for a 64-story tower which would serve as a showcase for product and engineering innovations for years to come.

The idea of an exposed exterior frame led to suggestions of leaving the structure bare, using USS COR-TEN steel and a method of fire protection: liquid-filled exterior columns.

To provide flexible interior space, the efficient structural system decided upon employs the braced core concept in conjunction with a two-story deep "hat" truss that forces the exposed exterior portion of the frame to assist in resisting wind loads.



A Building of the 21st Century

FAMILY OF STEELS—Under U. S. Steel's "Family of Steels" concept, the best, most efficient steel was used for each specific job in the structural frame of the new building, including:



COR-TEN—The "age before beauty" steel that has sparked the imagination of architects, sculptors and builders throughout the world. U. S. Steel first introduced it in 1933. About $1\frac{1}{3}$ times the strength of conventional steel, it is used in exterior columns.

USS "T-1"—About three times the strength of ordinary steel, "T-1" is used in the lower interior columns where loads and stresses are greatest.

USS EX-TEN—A high-strength, low-alloy steel is used for floor beams and some core columns.

CARBON STEEL—The workhorse of the construction industry is used where maintenance and high strength are not vital.



U. S. Steel's executive offices are on the 61st floor. Suites consist of a main office, small conference room, staff office and secretarial area. The oval-shaped board room is also located here.

An attractively decorated coffee area is situated on each floor to provide convenient refreshments.

A bright, modern color scheme throughout the building creates a cheerful yet busi-

nesslike atmosphere. The basic wall color coordinates of green, turquoise, dark blue, gold and orange are repeated every fifth floor.

Works of art displayed are chosen by a panel of advisors. In its search for appropriate art, the committee gives special attention to the professional works of talented artists located in western Pennsylvania.





A COMPUTERIZED OPERATIONS AND CONTROL CENTER which electrically operates and monitors everything from air conditioning and fire alarm control to light switching.

AUTOMATED, VERTICAL MAIL DISTRIBUTION SYSTEM picks up and delivers mail by conveyor.

FLEXIBLE LIGHTING SYSTEM permits varying light intensity and rearrangement of fixtures.

AN ELECTRICAL SYSTEM that transmits energy throughout the building at high voltage and reduces it to lower voltages at individual locations.

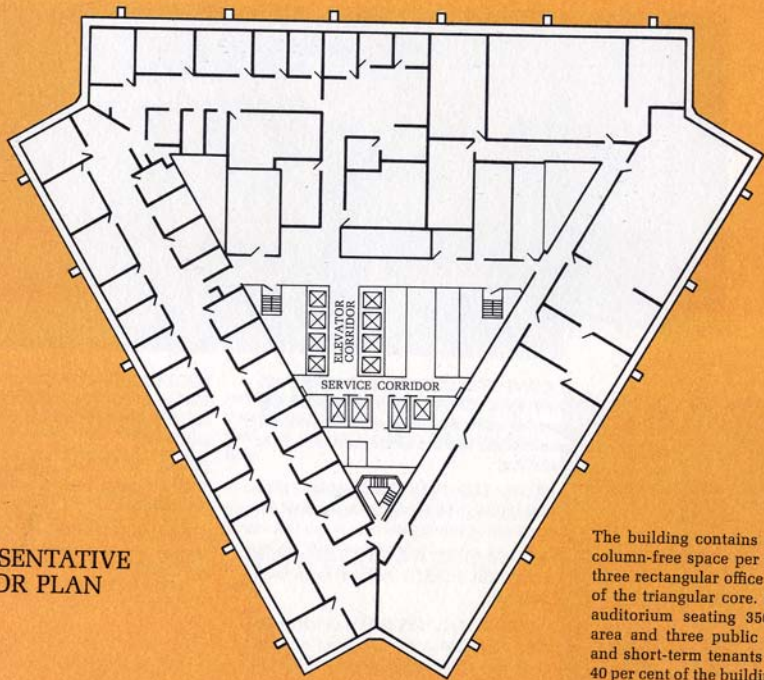
ROOFTOP HELIPORT capable of accommodating today's conventional helicopters and the vertical take-off airplanes of tomorrow.

TOTAL MODULAR WALL PARTITION SYSTEM permits easy interior changes in room sizes.

AIR CONDITIONING—A variable volume system provides individual temperature regulation.



REPRESENTATIVE
FLOOR PLAN



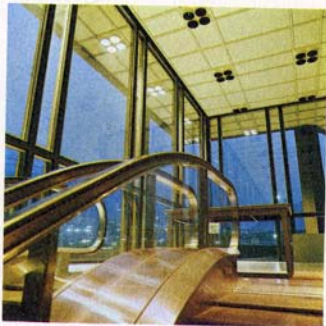
The building contains nearly one acre of column-free space per floor, consisting of three rectangular office areas on each side of the triangular core. It also contains an auditorium seating 350, a large display area and three public restaurants. Long- and short-term tenants will occupy about 40 per cent of the building.

Three Stouffer's dining facilities are located here:

THE TOP OF THE TRIANGLE on the 62nd "view" floor, is a leading attraction for native Pittsburghers and visitors alike. Seating 230 guests in a rich, English hunt club atmosphere, the elegant room offers a breathtaking, 50-mile panoramic view of southwestern Pennsylvania. An adjacent lounge seats 75 persons.

Located on the concourse level are the **CANTINA**, which accommodates 350 diners and the **GROGSHOP**, which features informality and fast service.





In the final analysis, our new Pittsburgh corporate center is an enduring commitment to the partnership between Pittsburgh and United States Steel.

In this structure, we hope we have helped to lay a new foundation for further economic growth and progress of this great city and the tri-state area.



Further, we hope this dramatic architectural structure will yield technological dividends for the entire building industry.

Truly a structure of innovation, the combination of modern steels, imaginative design and advanced engineering techniques provide a building which, we hope, will stand as a monument to the steel industry and become a symbol of Pittsburgh itself.





