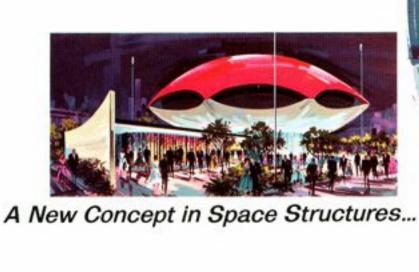


World's Fair Preview OCTOBER, 1963



A "Hovering" Hollow Square ...





crowns the General Electric Company Pavilion



Lofty steel towers support

the United States Pavilion

eight giant trusses for

Steel U-frames connected to

for the Bell System Exhibit

curving trusses frame the ride

A lamella steel pipe dome

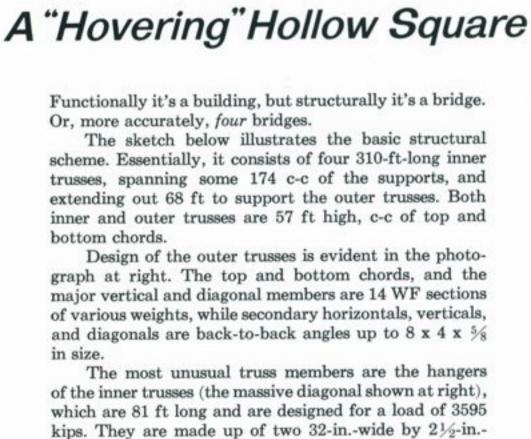


Travelers Insurance Pavilion

All-welded steel ribs, unique

space structure, highlight The

fabricated and erected by BETHLEHEM



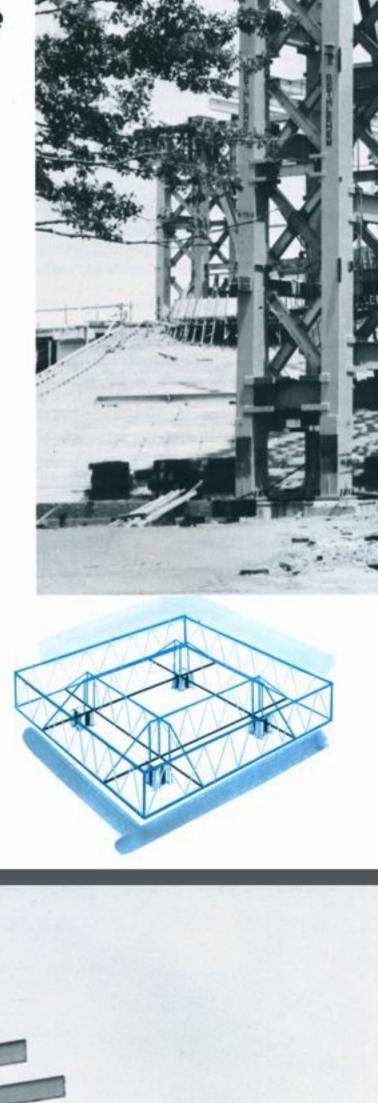
thick plates of A441 steel, with added reinforcement at each end, tieing into massive (roughly 8-ft-sq x 21/4-in.-

The United States Pavilion occupies a 4½-acre site. It rises above a landscaped plaza, or podium, about 6 ft above grade. Visitors proceed under the structure, and up escalators to a court atop a truncated pyramid, from which point they cross to the lower level of the building by means of 39-ft-long steel bridges. Exhibits illustrating the exhibit theme, "Challenge to Greatness," are located on the first floor, along with an auditorium, VIP reception rooms, and staff offices, all of which occupy one entire segment of the first floor. A ride transports visitors

thick) A441 gusset plates top and bottom.

THE UNITED STATES PAVILION

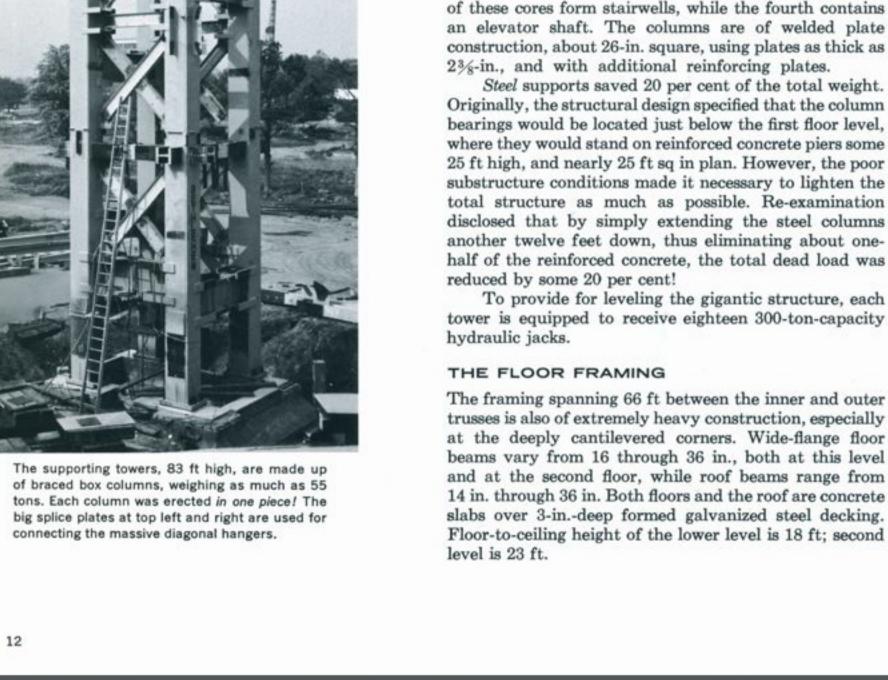
through the second floor exhibition areas. Simplified sketch of the basic structural scheme-eight giant trusses.

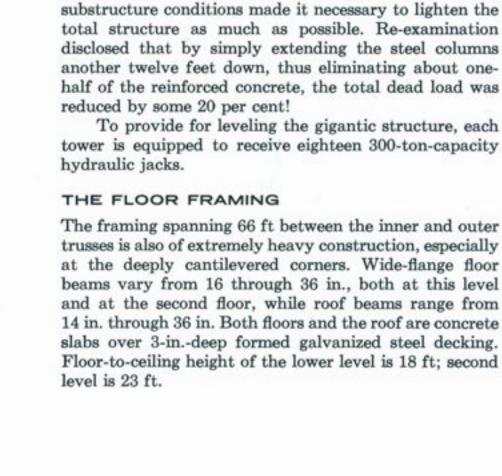


Outer truss

10

Inner truss





View from inner court during steel erection.

The structure's four supports, too, are of major interest. Each is a tower, comprising four individual box columns on 11-ft centers, tied together with heavy bracing. Three

Steel supports saved 20 per cent of the total weight.

THE SUPPORTING TOWERS



Relationship of the Pavilion with the center court can be better comprehended from this view. Note, at extreme left, the steelwork for one of the bridges that extends from the plaza atop the pyramid to

This section view, at right, through the centerline

clarifies additional details. The outer balcony, not acces-

the lower level of the building.

13







