

MUELLER
Record
OCTOBER, 1961



world's largest umbrella opens
in pittsburgh page 3

MUELLER RECORD

OCTOBER • 1961

Editor
Jim M. Milligan

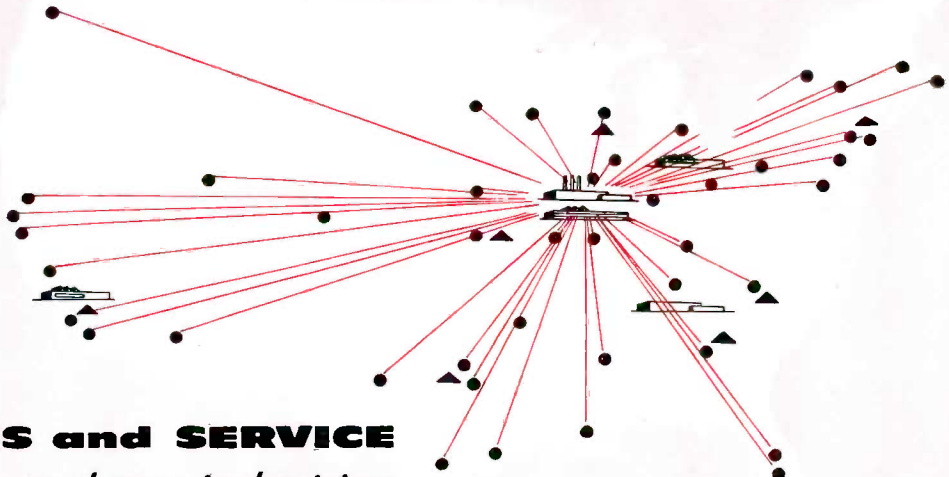
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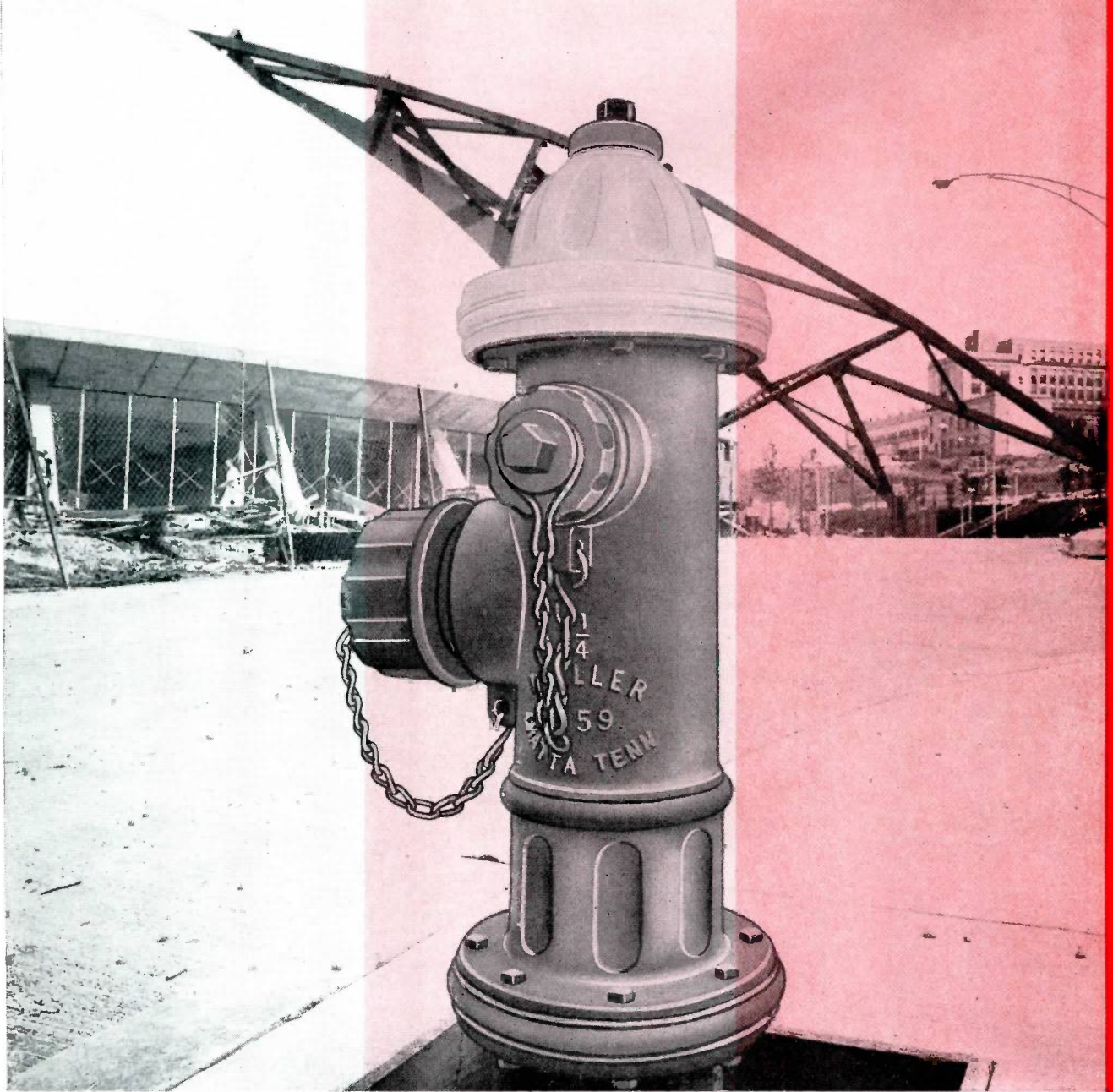
Contents

- 3 **BIG UMBRELLA OPENS IN PITTSBURGH** is a description of that city's new auditorium.
- 7 **"UNOFFICIAL ZOO" IS POPULAR** as disclosed by Water Superintendent Anglin of Mansfield, Ohio
- 9 **MUELLER CO. PRODUCTS**
- 8 **WATER SUPPLY AT AQUEDUCT MUST SERVE 80,000 PERSONS**
- 10 **10-GALLON-SIZED HISTORY OF TEXAS UNFURLED AT SIX FLAGS** is the story of one of the country's latest amusement ventures.
- 17 **EASTERN SALES CHANGES** announced by Mueller Co.
- 17 **AROUND THE WATER INDUSTRY**
- 18 **STRICTLY OFF THE RECORD** is to be taken lightly.
- 20 **MUELLER CO. PRODUCTS**



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Big Umbrella Opens In Pittsburgh



13,000 persons are now able to get under the world's largest umbrella when they attend a boxing match or opera in Pittsburgh's new public auditorium.

The gigantic \$20,000,000 circular structure has the world's largest retractable dome and in 2½ minutes people sitting under threatening skies can be tucked away safely under the security of four acres of stainless steel.

This all-weather auditorium is 415 feet in diameter and, at the center, is as tall as a 12-story building. One mighty, muscular arm reaches to the center of the building and holds up 190-tons of stainless steel in the dome.



This dramatic view shows the huge metal arm which supports 190 tons of stainless steel in the dome of Pittsburgh's new auditorium.

The auditorium is the central structure in the redevelopment of 95 acres of Pittsburgh's Lower Hill district. Here Pittsburgh's practical dreamers have created a most beautiful, functional and valuable parcel of land.

The auditorium will house a wide range of activities. It can serve as a convention hall, an open-air amphitheater, a sports arena or an exhibit center. The structure has excellent acoustics, modern lighting, extensive stage accommodations, a convertible ice rink, facilities for both radio and television broadcasts, and air conditioning.

It will be used for the Civic Light Opera, basketball, hockey, boxing and wrestling. There are 9,200 permanent, theater-type upholstered seats and with temporary seats has a capacity of 13,600. The seating for a basketball game can accommodate 12,200 while there will

be room for 7,200 for theatrical performances.

When use of the stage is desired, a hinged section of seats is hydraulically lifted to a height of 35 feet. The bottom of the 220-ton lift section forms the floor of the stage and fireproof curtains are hung along the sides.

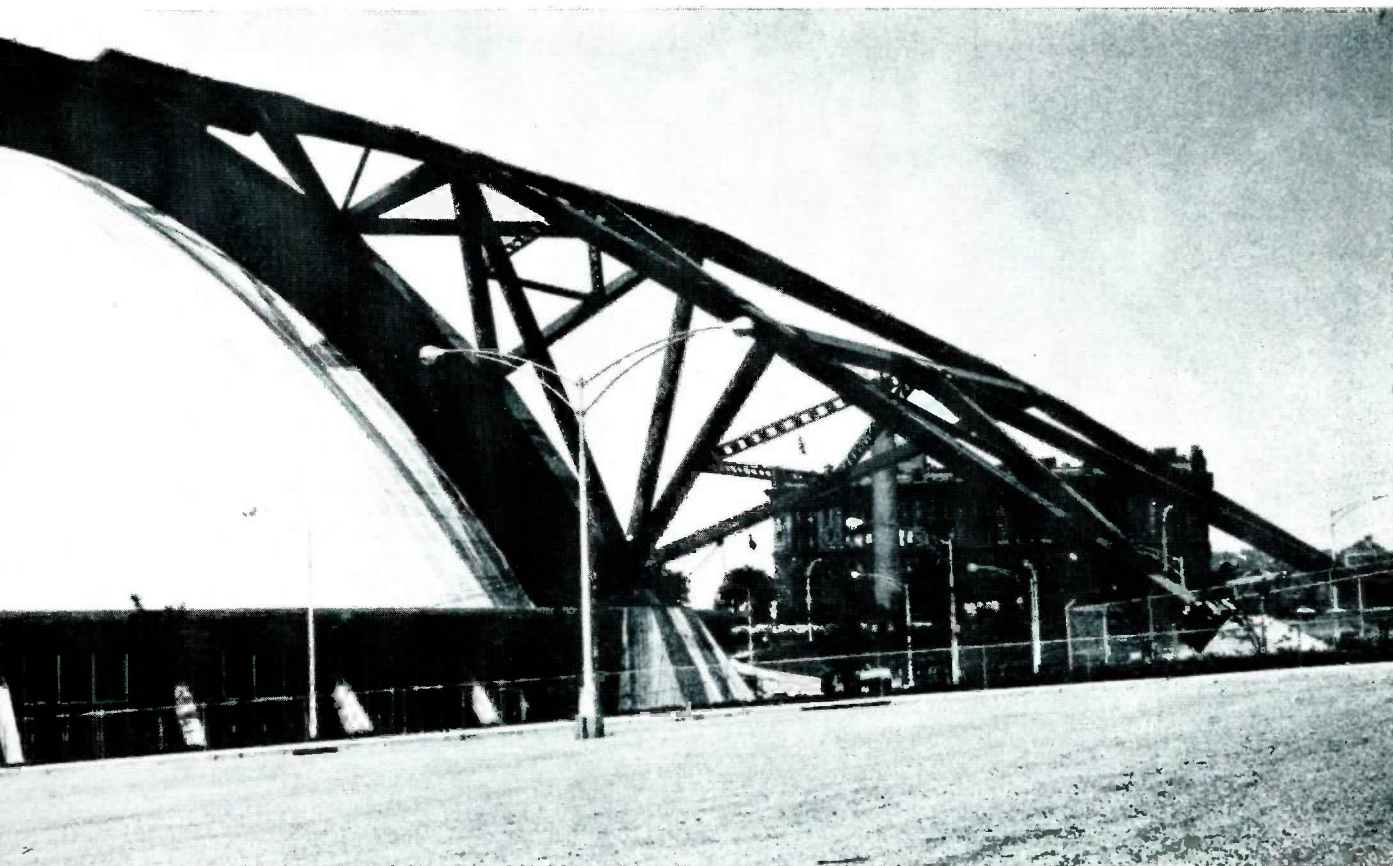
The fireproof stage carries all of the electrical services for the border lights, side lights, microphones and other equipment. It makes a working area 40 feet by 68 feet and has a clearance at the back of the stage of 26 feet.

One of the largest clear-span roof structures in the world, this first-of-its-kind building is held by a cantilevered, curved, tripod frame outside the structure. Flanked by two permanent roof leaves, above which the other six leaves stack when nested, the cantilever rises more than 110 feet above its

abutment and projects 205 feet over the auditorium.

The 260-foot arching cantilever consists of a curved box girder approximately eight feet wide, 17½ feet deep, with a system of tie-back anchorage members extending from the bottom of the anchorage point near the ground line almost to the top of the cantilever girder. In its interior, the box girder carries electrical wiring for control and operation of the roof and for the lighting and sound systems. Trussed tie-backs, also steel box sections, extend from near the top of the girder to an anchorage 110 feet beyond the girder's abutment. The structural steel and cantilever box girder arm and the truss weigh 1,400 tons.

The real weight and pull of the roof is exerted mostly against the reinforced-concrete tie-back an-



This auditorium will host opera, basketball, hockey, wrestling, boxing and other varied public events in complete "weather-comfort."

chorage. This anchorage has a sloping bottom, large ears, and a large vertical face of hard blue shale to push against.

Twenty-four special 2½-inch bolts, 21 feet long, in embedded plate frames, transmit tension to reinforced concrete tie-back anchors through cages of reinforcing bars. These bars are positioned in structural-steel frames, which are anchored to the hard blue shale below.

The main box girder is supported by an abutment with an almost rectangular combined footing nine feet deep, which transmits its thrust to the vertical hard-shale faces of the excavation.

The movable roof is divided radially into eight approximately equal sections, six movable and two stationary. When the roof is retracted, the six movable sections (three on each side) will

glide one over another to rest on top of the two fixed sections, thus opening the huge arena to the sky.

Each roof leaf is a 45 degree sector of a circle, each top or leading leaf having a radius of 207 feet and weighing 300 tons.

The four pairs of leaves in the dome have a different radius at the base so that the four leaves on each side of the space frame can be nested one over the other as they are retracted.

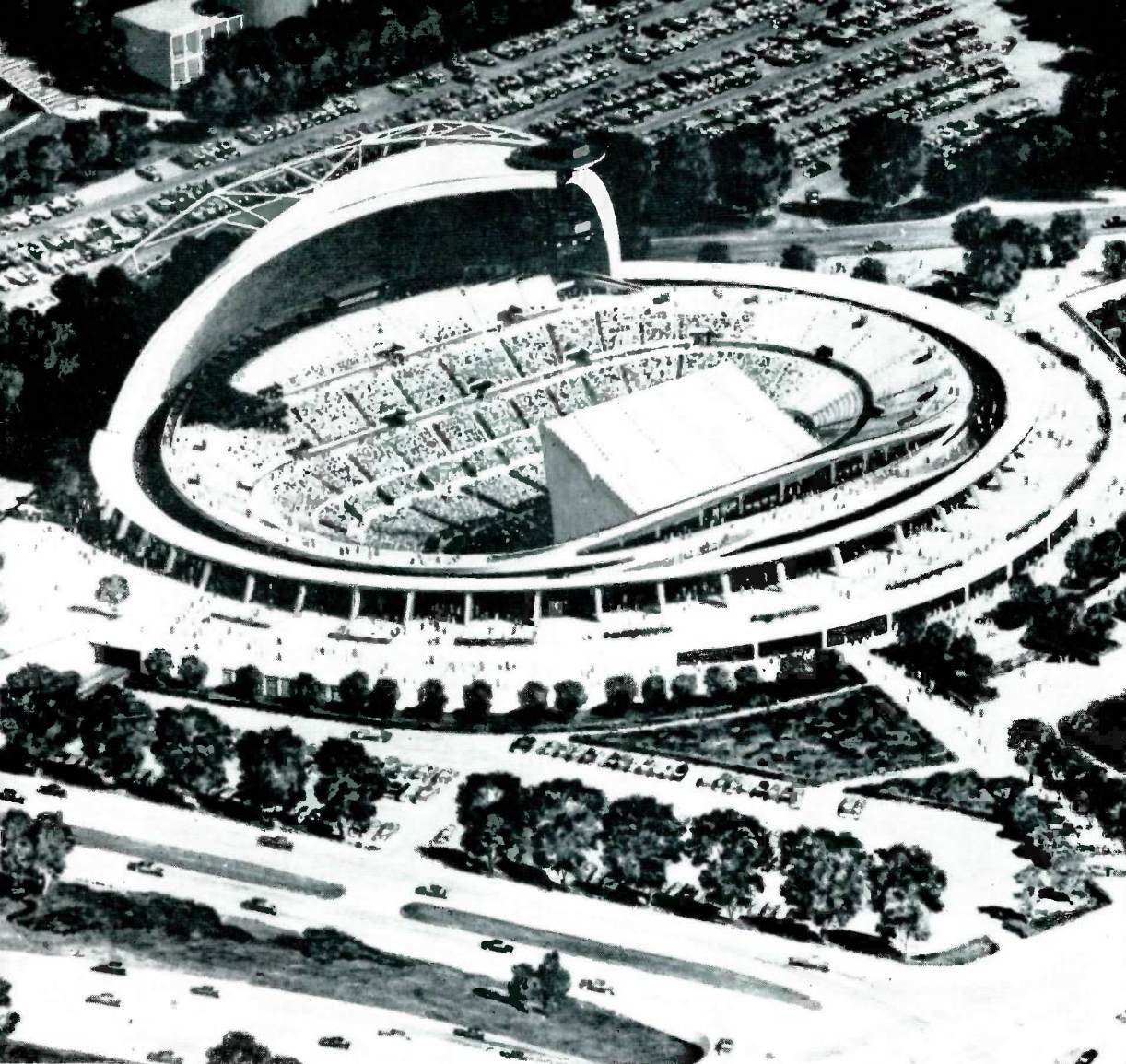
Each leaf was erected independently of the preceding one, by first setting the wheeled carriages on the rails and then building up to tie in to the spherical bearing at the top.

The converging ribs at the apex of each leaf join into a single pivot weldment that delivers the leaf thrust, a maximum of 350 tons through the pivot to the cantilever frame. A stainless steel spherical

bearing of 18-inch diameter is at the pivot.

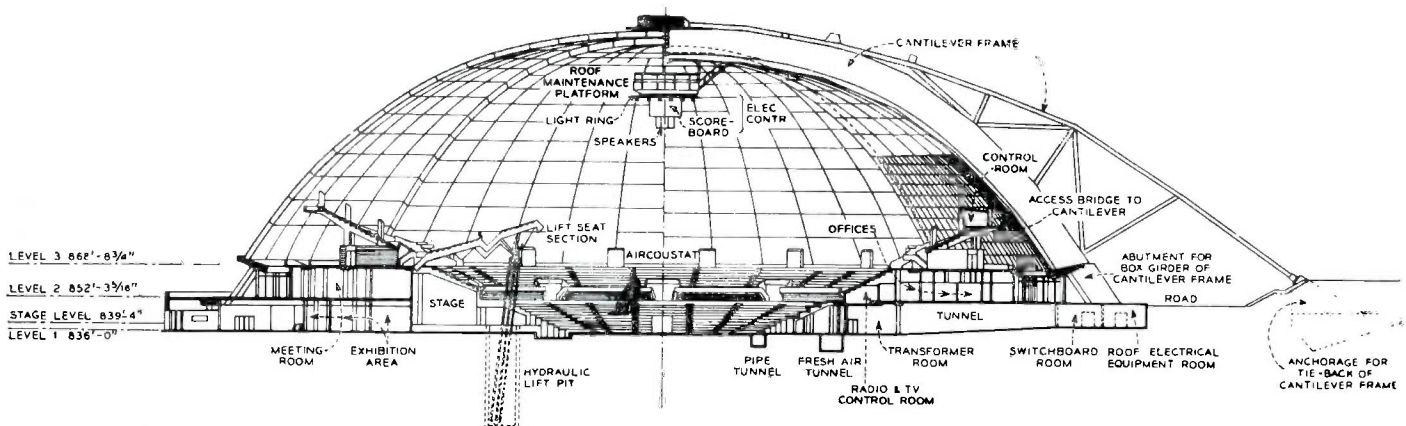
This arrangement provides for rotation or movement of the leaf in any direction with restraint. The spherical bearing is supported around a forged-steel cylindrical pin of 12-inch diameter. There are eight of these pins, framed into a heavy weldment supported by the space frame.

Each one of the six movable leaves has five separate motors or brakes. The leaves are synchronized to move together—three on each side of the center line. From the control booth, on the east side of the auditorium, it will be possible to stop a leaf should it move ahead of its partner on the other side. The controls will stop the motion of the leading leaf until the delayed leaf can be moved into proper relation.



Above is an artist's conception of the completed project, showing full development of the surrounding area. Below is a detailed cross-section of the project, showing the functional design of the structure.

The auditorium was dedicated in mid-September and opened Sept. 18 with the 22nd annual appearance of the Ice Capades in Pittsburgh.





Charles O. Anglin delights in showing his "unofficial zoo" inhabitants to young callers.

Mansfield, Ohio

"Unofficial Zoo" Is Popular

The unofficial zoo keeper of Mansfield, Ohio is the official keeper of the City of Mansfield Water Department.

Charles O. Anglin, Superintendent, has been dubbed by the local newspaper as the zookeeper because of his hobby of feeding deer which (uninvited at first) moved into water company property seeking refuge.

The deer raising began in the summer of 1955 when a full-grown doe leaped an eight-foot fence which surrounds about six acres of water company property. This property includes the Maxwell Springs Pumping Station which is no longer used as a highlift station.

In October, 1955 the doe had a fawn that turned out to be another doe. According to Mr. Anglin, about a year later a big eight-point buck jumped the fence and "we had the start of a herd."

The middle of this summer the Mansfield Water Department had 11 head of deer—five does, three bucks and three fawns which were born about June 1.

"We have from six to eight fawns each year and in the fall the Wildlife Division of the State of Ohio comes and takes out those that can be caught and releases them in the area," he said. "I try to keep the herd to 12 because of the cost of feeding them, when you have to beg, borrow or dig into your own pocket," Mr. Anglin added.

Some help has been given by the Richland County Fish & Game Association, however, they are limited as to what they can donate, he said.

This unofficial zoo is located along a main road which has attracted visitors from every state and Canada.





Long Island

Water Supply at Aqueduct Must Serve 80,000 Persons

Engineering and installation of the water supply system for the Aqueduct thoroughbred race track on New York's Long Island can well be compared to water facilities for a medium-sized town.

Aqueduct, now the largest race track facility in the country, is probably, at \$33,000,000, the costliest sports structure in the United States. It is owned and operated by the New York Racing Association, Inc., a non-profit organization which also operates Belmont Park on Long Island and Saratoga in upstate New York.

In designing the water supply facilities, engineers of Stone & Webster Engineering Corporation had to provide needs of a maximum capacity of 80,000 persons.

In addition to the domestic water supply, facilities had to be provided for the air conditioning and track watering requirements, which could well be compared to the residential and industrial needs of a typical community.

Aqueduct derives its name from the adjoining aqueduct, which was built many years ago to supply water to Brooklyn.

The domestic water supply for the grandstand and clubhouse, which is one fifth of a mile long, 110 feet high at its maximum point and covers seven acres, had to be adequate to serve the large crowds expected.

Scores of water uses were provided for, ranging from drinking fountains, restaurants, showers and surgical sinks in the 25-bed hospital and first aid rooms to developing tanks in darkrooms.

In addition to 30 miles of piping and 1,000 plumbing fixtures, various types of pumps, meters, and

thousands of assorted valves, were installed.

An independent water system was installed to provide for the stable area to serve the drinking and washing requirements of 500 horses as well as the needs of the cafeteria, showers and fountains for grooms and stable hands.

A dependable supply of water was required for the 22 air conditioning systems, having a total capacity of over 800 tons of refrigeration with a water demand of 700 gallons per minute.

A system for lawn and track watering was installed to provide an adequate supply of water for the track to keep it in proper condition for racing and for watering the \$600,000 worth of landscaping which covers 60 acres of Aqueduct's 203-acre area. The water demand for track watering on hot days approximates 20,000 gallons to be sprayed by special trucks between each race.

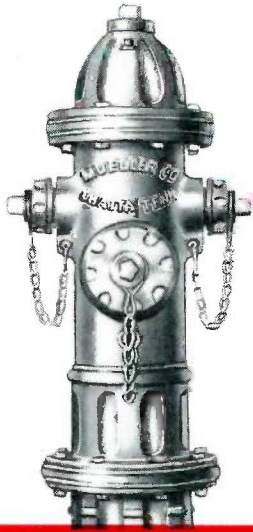
The racing association provides its own water system complete with its own deep well, pump and accessories.

Aqueduct uses city water for its public facilities, but uses water from its own deep well for the demand rate of 1,000,000 gallons per day required for the air conditioning system. Then, in line with modern conservation practice, this same well water is used for watering the race track, acres of grass and make-up due to evaporation in the infield lakes.

During normal operation the water flows through the air conditioning system to the lawn and track watering system, or through a back pressure valve to diffusion wells.

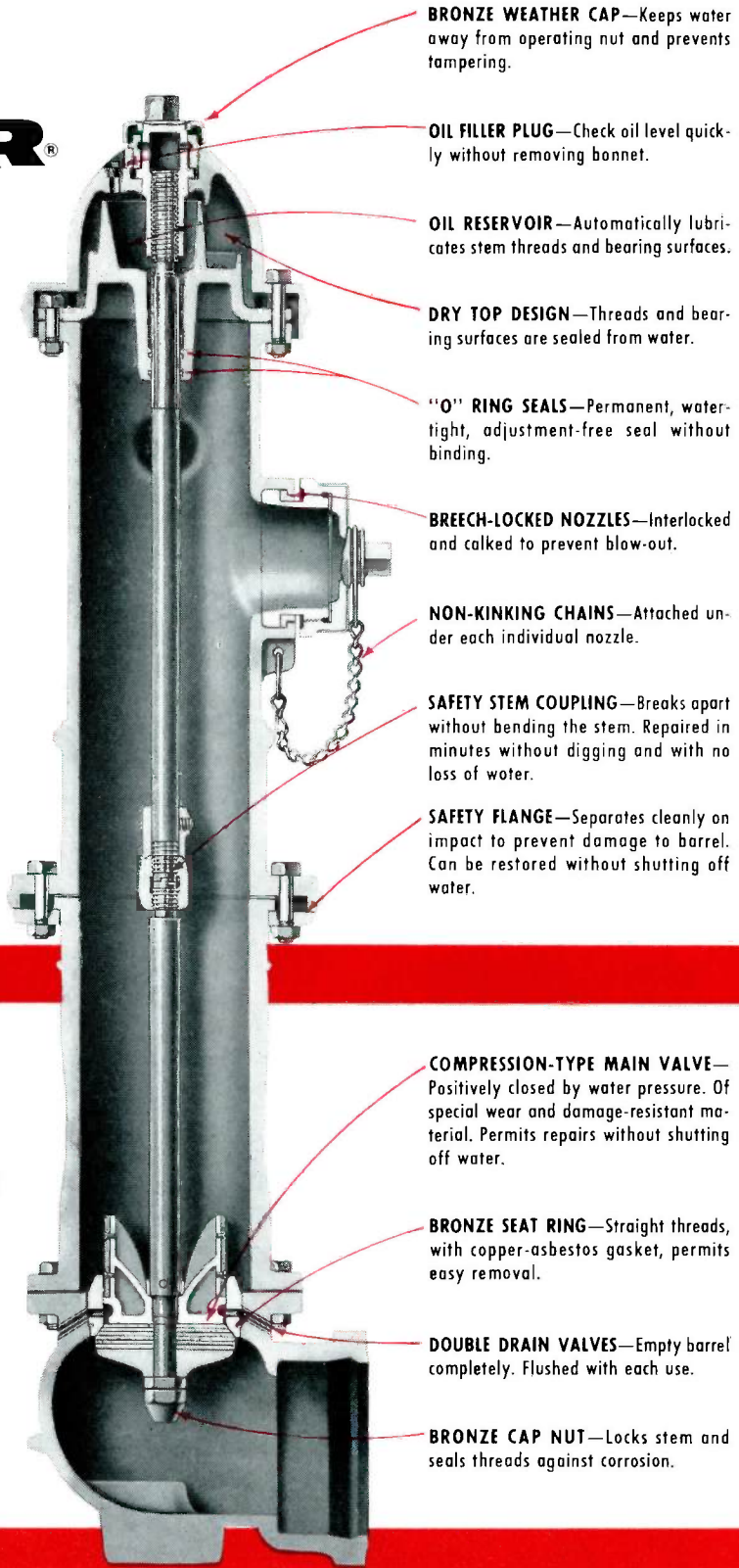
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10-Gallon-Sized History of Texas Unfurled at **SIX FLAGS**



The Southwest's most unique vehicle for the presentation of real adventure, fun, and excitement was unfurled in August when **SIX FLAGS Over Texas** began its first season of operation.

The gigantic 105-acre family entertainment center will offer over forty major attractions depicting the highlights of Texas' fabulous history through six regimes: Spanish (1519-1685), French (1685-1690), Mexican (1821-1836), Confederate (1861-1865), Republic of Texas (1836-1845), and the United States of America (1865 to the present).

An atmosphere of continual excitement and fascination will prevail as visitors will literally relive and actively participate in the fun-filled fact and legend that is Texas, in a series of thrilling and daring trips by unusual conveyances, alluring and extraordinary exhibits, and tremendously entertaining shows.

SIX FLAGS Over Texas is a \$10,000,000 dream come true for its young president and developer, Angus G. Wynne, Jr. "We feel that **SIX FLAGS Over Texas** will be-

come the Southwest's No. one tourist attraction because what we are offering is a natural; a fun-packed, adventure-filled show for the entire family," said Wynne.

Inside the 35 acres set aside for the actual entertainment area, the fun and adventure begins.

In the Spanish Section, visitors will join a pack mule train with a daring band of Conquistadores under the leadership of Francisco Coronado searching for the untold riches of the fabled Seven Cities of Cibola in the year 1541 . . . Gold was the lure and danger lurked everywhere. Down into the steep Palo Duro Canyon goes the mule train where attacks by hostile Indians were an ever-present threat. A number of suspenseful surprises await the visitors during their trip through the canyon.

Adding flavor to the years when the Spanish flag flew over part of the territory of Texas, visitors will see the San Francisco de Los Tejas Mission, the first Spanish mission in Texas, built in 1690 . . . and witness wild pagan ceremonies of tribal Indians . . . plus a host of other exciting events and shows.

Move on to the French Section where the scene is set for the years 1685-1690. An expedition up the Lavaca River, headed by the French explorer, Cavalier de La Salle, takes place. Through the steaming swamps that line the river, the 25-foot longboats begin a most perilous journey. The goal of the expedition . . . the mouth of the Mississippi and gold for the treasure chests of Louis XIV of France. Ferocious alligators leer menacingly at the boats passing by; and upon occasion, crewmen are forced to fire point blank into the gaping maw of slithering gators bent on upsetting the small craft.

Along the way, a party of shrieking Indians must be fought off plus another battle with a Spanish Fort guarding a bend in the river. A spectacular running gun duel results from this last encounter as French and Spanish cannoneers trade volleys of shot. The prospect of reaching a temporary haven in Fort Saint Louis by the French longboat hangs on the outcome of the battle.

The charm and enchantment of both old and modern Mexico has its own particular section set aside to display its attractions to the visitor . . . the hilarious ride on the gayest train of them all . . . the Fiesta Train. The bouncing ride depicts the contagious spirit of a Mexican Fiesta. The whimsical little train takes passengers past bright, animated, revolving se-



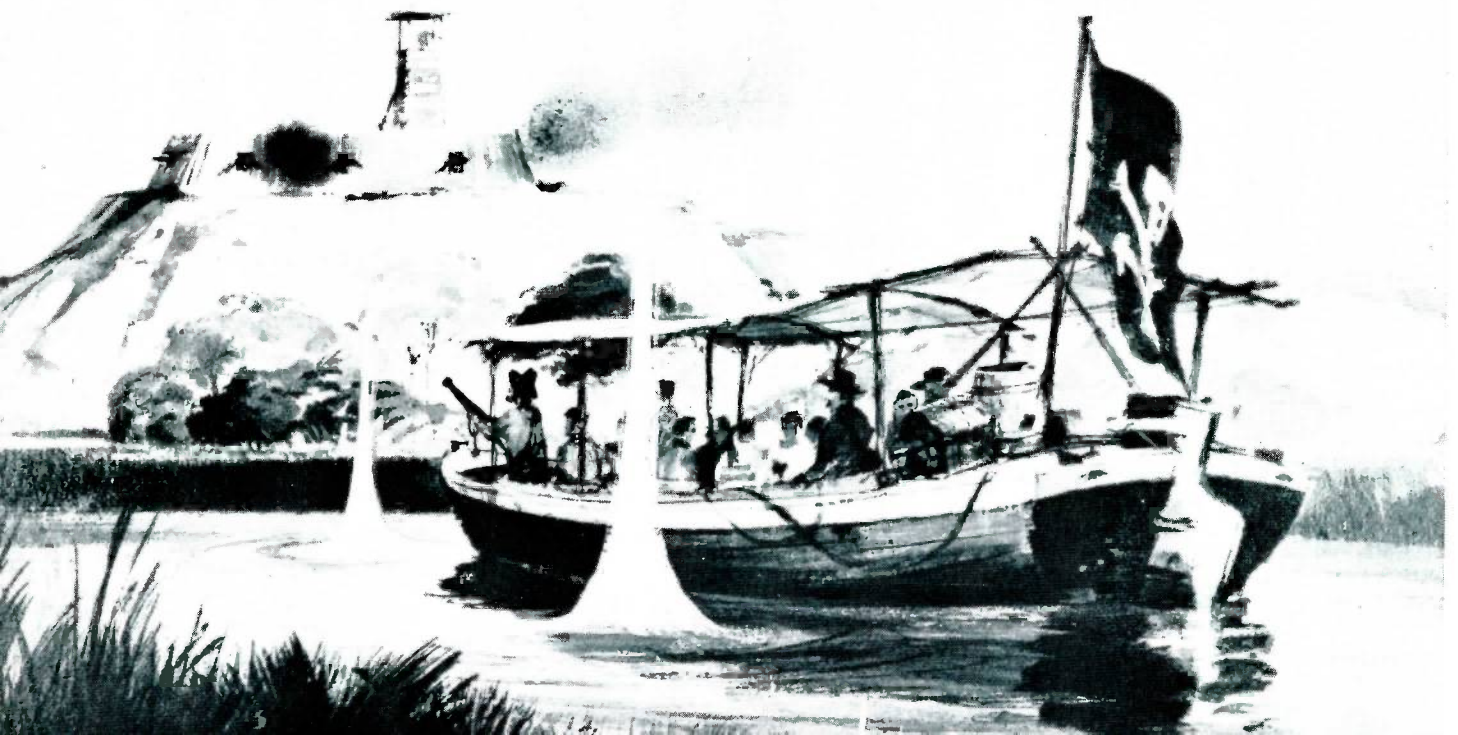
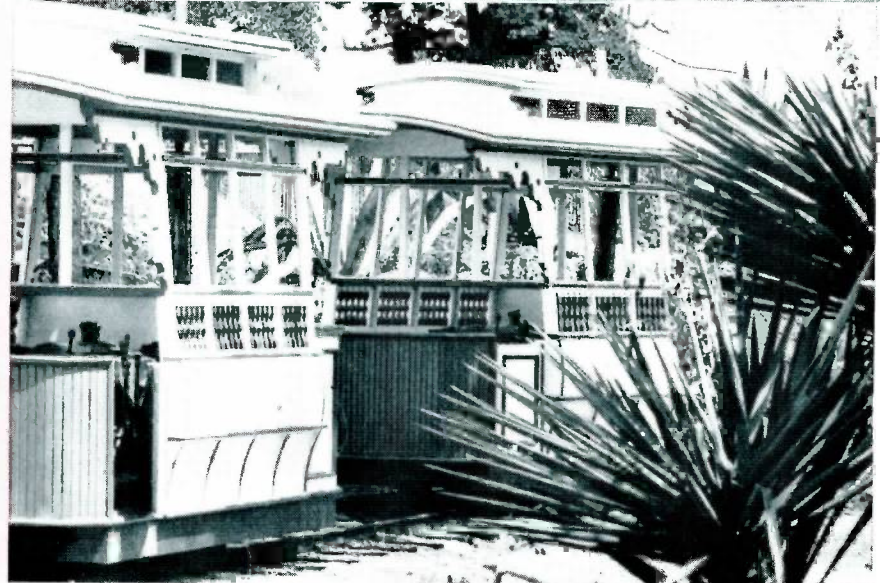
Ready for a stagecoach ride through a section of Six Flags are, from left: Mr. Otis Williams, Warehouseman for city of Grand Prairie, Tex.; Frank L. Kuentler, Mueller Co. sales representative, and Mr. J. D. Steadman, Water Superintendent for the city of Grand Prairie.

Gunfights, the hanging tree, a mock trial, a racing stagecoach are all part of the Wild Texas Section which outlines life in Texas from 1836 to 1895 when human life was cheap.





Above, Outlaw Island is the destination of this raft of treasure hunters. At the right, two of the railway cars which carry tourists around SIX FLAGS. Below, visitors join Cavalier de LaSalle on his dangerous journey up the Lavaca River in the French Section.



Examining some Mueller Co. Oriseal valves are Mueller Co. Salesman Frank L. Kuenstler and Theron Hibbitts, Assistant Water Superintendent, Arlington, Tex. The City of Arlington made various large service taps for the amusement center.



rapes, spinning sombreros, and Mexican dancers . . . through the lush tropical foliage growing in profusion in the romantic floating gardens of Xochimilcho.

The aromatic flavor of real Mexican food and the serenading of the strolling Mariachis can be found in the Restaurante Mexicano. Visitors may wander down the pic-

turesque Mexican streets and browse in the quaint market places and intriguing bazaars.

Into the Texas Section now, back through history to the years between 1836-1895 when human life was cheap . . . when rough and ready fast gunmen made their play. This was no place for weaklings and visitors had best stay

alert and proceed with caution. . . . Down by the hotel, Judge Roy Bean selects from the crowd 12 honest jurors before proceeding with a trial of a suspected horse thief. The jail house, hanging tree, or freedom for the accused weigh heavily upon the deliberation of the jury. Across the street in the music hall the tinkling of the 88



Above: Jack Cherry, Water Superintendent of Arlington, Texas (left) and J. D. Steadman, Water Superintendent of Grand Prairie, Texas, discuss installation of a hydrant on the grounds of SIX FLAGS.

keys is heard on the old upright piano Community singing and floor shows are a part of the pageantry. Then it's all aboard the 300-passenger SIX FLAGS narrow gauge steam engine for a thrilling ride completely around the entire park. The train passes through Indian country and armed guards are posted to protect the passengers should an attack come and it probably will.

The stars and bars signify the entrance to the Confederate Section Over by the loading depot teams of horses are being hitched up to the maroon and green Concord stagecoaches. Soon the passengers will climb aboard, for this is the start of the old Butterfield Overland mail run The journey is fraught with danger as renegade Indians guard the passes over the route.

Down by the river in the big white plantation house, the staff is preparing those mouth-watering, real old-fashioned, southern fried chicken dishes with all the trimmings.

The river looks mighty peaceful, but that mysterious looking island rising out in midstream is known as Outlaw Island!!! Jean Laffite, the pirate, so the legend goes,



buried a king's ransom of treasure somewhere out there. Raft-like ferries ply to and from the shore to the island carrying treasure seekers. Some old timers say that pirates still guard the treasure, and even Sam Bass, the daring train and bank robber, is rumored to live in a little hut on the lee side of the island.

On the other side of town, a giant Civil War enlistment rally is going on News flashes on the progress of the war are posted on the town bulletin board Marching bands and the booming of cannon fire bring the rally to a fever pitch.

Finally looming up over the rise are the 50 stars and 13 bars of Old Glory the Grand Old U.S.A. Section. The years, 1865 to the present . . . The vast SIX FLAGS park unfolds before the eyes of visitors as a \$300,000 aerial tram built in Switzerland will carry budding astronauts 75 feet in the air across the center of the park between the U S. and Texas Section.



Also featured are dazzling futuramic cars to be driven by visitors over the turnpike of tomorrow Modern exhibit buildings graphically portray the Texas industrial growth story A most unique petting zoo where specially selected, tamed animals from all parts of the world have been brought to SIX FLAGS. The youngsters will really love feeding and playing with these animals.

Restaurant facilities built and serviced in the design of the era represented, will include a great variety of food and beverages available in interesting locations. No alcoholic beverages will be served. However, SIX FLAGS will have two major restaurants, one featuring Southwestern and Mexican food and the other fried chicken and other well-known Southern dishes. In addition, there will be three major snack stands with patio seating facilities, ice cream parlor, fruit juice stands, and a western barbeque operation. Approximately 5,000 people can be fed per hour in the park.

The area chosen for the 105-acre site was particularly selected because of its central location in the heart of Dallas-Fort Worth, where leading arteries, modern highways, and fast turnpikes lead directly into SIX FLAGS.

SIX FLAGS Over Texas will provide areas for fast, easy and

Above: one of the many statuettes visitors encounter on a train ride through SIX FLAGS. Below: a Confederate street scene in the Confederate Section of the park.





A colorful restaurant caters to thousands of persons who visit this realistic Mexican Section of SIX FLAGS.

accessible parking, capable of handling 5,000 at any one time. Rest areas, walkways, shade, and sheltered areas will accommodate 15,000 persons at any given time.

To avoid waiting lines, the ride and attraction handling capacity will be 18,000 riders per hour. However, on peak days when there may be waiting, the queue lines will be kept pleasant and cool, thanks to air conditioning.

The 105-acre tract was designed by Marco Engineering Design Company. Construction of SIX FLAGS Over Texas involved the relocation of over 250,000 yards of dirt. A 3,000,000-gallon capacity lake was gouged out of the earth together with a 50,000,000-gallon reservoir to feed and maintain the water level in the lake. Over 12,000 square feet of plaster, 100,000 feet of conduit and wiring, 15,000 feet of fencing, and 300 tons of air conditioning went into the building of the project.



This is the lookout tower of the authentic old fort in SIX FLAGS.

Eastern Sales Changes

. . . . Around the Water Industry

Three changes in the Eastern Sales Section have been announced by Mueller Co. Vice-President and General Sales Manager Dan R. Gannon.

Benjamin C. Lentz, 27, a native of the Philadelphia area, has been named Mueller Co. Sales Representative for western New York state. He succeeds Ed Fenstad who has moved to a territory in New Jersey which was held by Herb Huffine. Mr. Huffine has been named a special sales representative for Mueller Co.

Mr. Huffine, a native of Washington, D. C., has been the Mueller Co. representative in New Jersey since he joined the company in 1953. Prior to that he had worked a number of years for Sun Oil Co.



E. C. FENSTAD

Mr. Fenstad joined the Mueller Co. sales organization in 1953. Prior to that he worked as an engineer for the Bechtel Corp. of San Francisco. He is a graduate of Stanford University.

Consultants Review AWWA Program

Through its Aims and Objectives Steering Committee, the AWWA has retained the firm of Stevenson, Jordan & Harrison, nationally known management consultants, to develop a procedure to carry out the recommendations of the Aims and Objectives Committee report, approved in principle by the AWWA Board of Directors. The report recommends a wide variety

of changes in the operations and services of the AWWA and envisions great expansion in its activities. The report proposes that the new activities be funded primarily by an increase in dues rates for various classes of group membership. The consultants are examining the report itself, as well as the overall operations of AWWA. It is expected that the consultants will submit final recommendations to the AWWA Board of Directors at its January, 1962 meeting.



B. C. LENTZ

Mr. Lentz is a 1956 graduate of Pennsylvania State University where he received his BS degree in business management. He previously worked one year in the sales division of AMCO Co. of Philadelphia, a petroleum handling equipment company, and then he worked two years for a distributor of Mueller Co. products.

He is married and has one daughter.

Study Says Water Softening Saves

Municipal water softening more than pays its way in detergent savings, and as far as it goes, is by far the least expensive means of reducing water hardness. These findings were reported in a study made of detergent purchases and water hardness by Dr. Thurston E. Larson, head of the Chemistry Section of the Illinois State Water Survey, and Lloyd M. DeBoer, assistant professor of marketing at the University of Illinois. Implicit in their conclusion was the fact that every community using a hard water as a source of supply can economically justify a municipal softening plant.

Have YOU advised us of your new address? The MUELLER RECORD WILL come to you on time each month if you will send address changes promptly to: Editor, MUELLER RECORD, Mueller Co., Decatur, Illinois. Thank you!!!

Strictly

Off the Record

When Khrushchev came to inspect a Moscow insane asylum, the inmates were assembled in the hall. According to instructions, they shouted: "Long live our beloved leader, the great Khrushchev" . . . all except one man, who was immediately accosted by an agent of the secret police. "Why did you not greet our beloved Comrade Khrushchev?" was the stern question. "Because," the man answered, "I'm not insane. I'm just the janitor."

The beautiful blonde strolled into the psychiatrist's office and he immediately swept her into his arms and kissed her. "Now then, that takes care of my problem. What's yours?" he asked.

The sermon went on and on. Finally the minister paused and asked: "What more can I say?"

From the rear of the church came a hollow voice: "Amen."

Young man to draft board: "But you can't turn me down! I've proposed to three girls, told my boss what I think of him, and sold my car."

High-pressure insurance agent: "Insurance is the greatest thing in the world! No man should be without it. Why I even carry a \$50,000 policy made payable to my wife."

Harassed prospect: "You've over-extended yourself a bit. Just what excuse can you give her for living."

"I'm really not late, boss," said the tardy secretary, hanging up her hat. "I just took my coffee break before coming in."

"I understand your wife is a finished soprano."

"No, not yet; but the neighbors almost got her last night."

Taxes are just like golf—you drive your heart out for the green, and then end up in the hole.

Everybody should pay his taxes with a smile. I tried it, but they wanted cash.

They arrived at the ball game during the fifth inning.

"What's the score, Jim?" he asked of a fan.

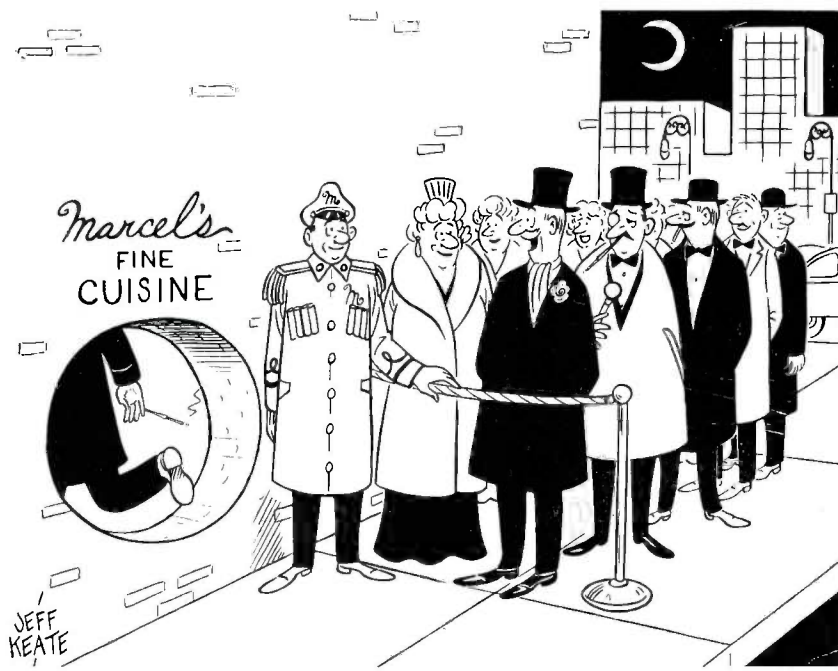
"Nothing to nothing," was the reply.

"Oh, good?" she exclaimed, "Then we haven't missed a thing."



DON'T ACT LIKE YOU'RE AFRAID, SILLY!

MUELLER RECORD



Copyright 1959 Cartoons-of-the-Month

"It's just a hole in the wall, but such food!"

A glamorous Hollywood star had her picture taken. She fumed at the result. "I can't understand it," she screamed. "The last time I posed for you, the photographs were heavenly."

"Ah, yes," the cameraman replied. "But you must remember, I was eight years younger then."

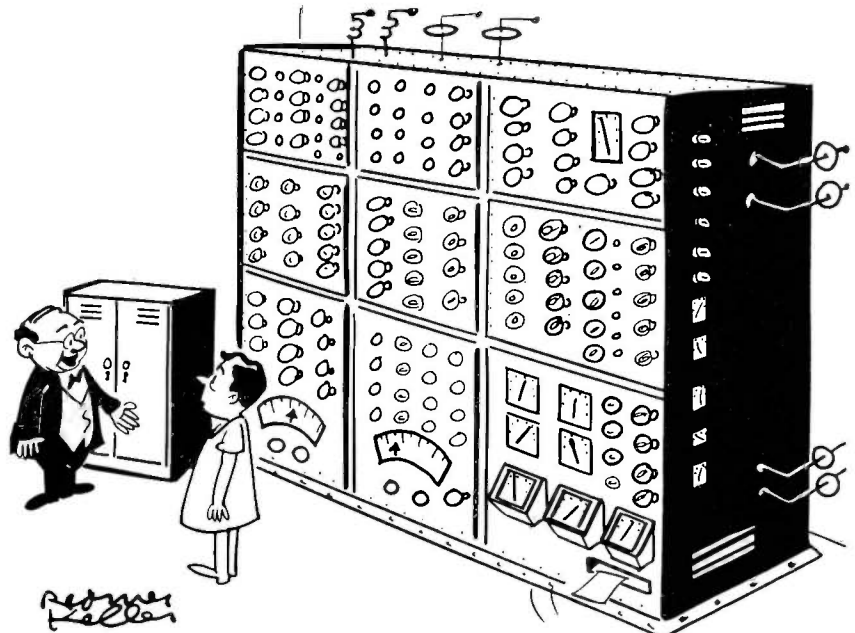
The boss was berating his porter for coming to work later each day. "Don't you want to amount to something?" he asked. "Don't you know that you will never get anywhere unless you get up early in the morning?"

"Well, ah don't know," replied the porter, "Ah've noticed that them that gets up early goes to them that gets up late to get paid."

The sales manager was giving advice to the salesmen. "Soft soap," he said, "in some form pleases all, and generally speaking, the more lye you put in, the better."

Buck-passing is not new—but they never passed faster than they do now.

BOSS: The man who is early when you are late; and late when you are early.



Copyright 1959 Cartoons-of-the-Month

"In case of emergency, you'll find plenty of paper and pencils in here"

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The more positive seal provided by the Mueller Oriseal Valve has resulted in both the maximum water working pressure and test pressure being raised 40% . . . to 175 p.s.i. At the same time, maximum water temperature ratings have been boosted 20% to 180° F. Offering advantages found in no other curb stop, the Oriseal has a "Teflon"* coated, balanced plug that requires no lubrication or maintenance, yet turns freely even after many thousands of operating cycles.

New Oriseal Curb Valve Specifications

Full Round Way Opening • Solid Tee Head with 1/4" rod hole • Quarter Turn with Check • 175 p.s.i. Test Pressure (Every Oriseal Valve is tested with 175 p.s.i. air pressure under water in both open and closed positions—a much more exacting test than hydrostatic testing.) • 180° F. Maximum Water Temperature • Sizes: 3/4", 1", 1 1/4", 1 1/2", 2" • Inlet and/or Outlet available with Inside I.P. Thread, Mueller Copper Service Pipe Connection • Available with Minneapolis Pattern in 3/4" and 1" sizes

*Write for complete
information and
specifications.*



MUELLER CO.
DECATUR, ILL.

Factories at: Decatur, Chattanooga, Los Angeles
In Canada: Mueller, Limited, Sarnia, Ontario