Better Schools Through Use of Steel

Steelmen in Torrance Aid **US Classroom Shortage**

Southland's oldest steel-mak- ating value to a 12-inch maing center—take justifiable sonry wall, Perlin said. pride in the role their indus- Tests conducted by the try is playing in helping solve University of California and the nation's classroom short- by local testing laboratories

550 classroom units have properties proved the conbeen built of modular steel struction system sound and construction in Southern Cal-functional. ifornia by one firm alone- The external surface is a Company.

steel classrooms have been screws at the stiffeners. fabricated and erected for For sound-proofing and

try, modular steel construct the exterior panel. tion once again is being After assembly, the insultop educators at the annual ating materials become the brought to the attention of core of a sandwich panel. The national convention of the roof is a standing seam steel American Association of deck with interlocking ribs School Administrators in San on 16-inch centers and a 12-Francisco where exhibits of foot clear span. The ceiling is Torrance steel schools are on acoustical board suspended display through Tuesday, from the decking. Feb. 28, 1961.

Included is a rendering of the Madison Elementary Framing members, roof decking and wall panel combuilder. A complete elemen- ponents are fabricated for tary school, Madison was steel schools under assembly opened last September with line conditions in Calcor's Classification by the postal 000,000 in postal receipts for 500 per cent each. Examples largest post offices in the re-16 classrooms, kindergarten, Huntington Park plan. Raw department as one of the naadministration and multipurmaterial enters directly into tion's "million dollar commucent over the \$137,402,000 in cent; Anaheim, 723.5 per cent; which now ranks third in the internnecting arcades.

can be moved as a unit, and packaging and loading. the larger buildings can be Normal production capacity than \$1,000,000 in postal removed in sections.

Roy Donley, A.I.A. & Asso- steel structures.

buildings," Donley said. "In this way flexibility is built into each school so The classroom buildings or refrigerator. Like these classrooms can be easily add- are built on concrete slabs. appliances, the school's insuled when enrollment increas- At the start of the concrete ated walls and ceiling keep can be picked up and moved are delivered to the concrete in; conversely, they keep the to other locations, as need-contractor to insure correct heat out and interiors cool

tried on an experimental ba- concrete has cured properly, Vinyl-coated steel sheets sis. They proved to ave sev- the structural columns, door are used in lavatories. eral advantages over former frames and roof beams are techniques, including perma- bolted into place. (Absence covers galvanized steel of exnency and portability, lightof riveting, hammering and
weight and easy movement, other noises associated with
since classrooms are designed building construction, makes

ed many techniques employ-ed in the Torrance and other good long-term investment.

The structure incorporates ture. a curtain type double steel wall panel, consisting of insulated inner and outer layers which combine to for a ation qualities of its all-steel outlets in all classrooms.

18 MONTHS

TO PAY

APRIL, 1961

MEMBER OF

CALIFORNIA

SOCIETY DENTAL SURGEONS

Steelmen in Torrance-the 31/2-inch wall equal in insul-

on fire resistivity and struc-For since 1957 more than tural, thermal and acoustical

the Calcor Building Division heavy gauge galvanized of Rheem Manufacturing sheet, with the interior surface a lighter gauge sheet. Of this total number, 133 The two panels are joined by

the Torrance Unified School thermal insulation, a 1/2-inch thickness of gypsum board is All-steel classrooms are attached to the interior sheets now completed on 17 school and a 1-inch-thick layer of fiberglass material, plus an-Long studied by school of other 1/2-inch layer of gypficials throughout the coun-sum board, is laminated to

FABRICATED

Framing members, roof administration and multipur-pose buildings and extensive one end of the plant where nities' was received by Tor-it is stored until it is needed. rance following the tallying The material is then cut or up of post office revenues sheared to length and fabri-during 1960. The Madison school was cated. Each manufacturing The city joined Downey, designed and built so it can step follows consecutively so Hayward and Redwood City be picked up and moved to that a straight assembly line in the special classification follow population shifts, if is established from the stor- for the year. Each of the four necessary. Each clargroom age of material to the final was listed for the first time

is 30-40 all-steel classroom ceipts. Also in the display are full- buildings a week. Principal scale wall sections, showing products include all-steel because the unit composed of utilities, suspended ceiling classrooms, school buildings, California, Nevada, and Hasystem, paint finishes and arcades, gasoline service sta- waii broke the \$300,000,000 acoustical and insulation tions, commercial buildings barrier for the first time. and other special purpose Regional postal authorities

schools here, also is exhibit- sections and steel sheets are vides a significant illustration ing Torrance schools he has shop prefabricated under as of the extent of the tremensembly line conditions to dous economic development "In recent years, To ance meet architect's specifica- and population growth in the Unified School District has tions, components for a com- three states of the region durbuilt its schools based upon plete classroom are loaded on ing the past decade. a policy of constructing a a single truck. Fabrication is permanent core of fixed performed to a miximum tolerance of 1/16 of an inch.

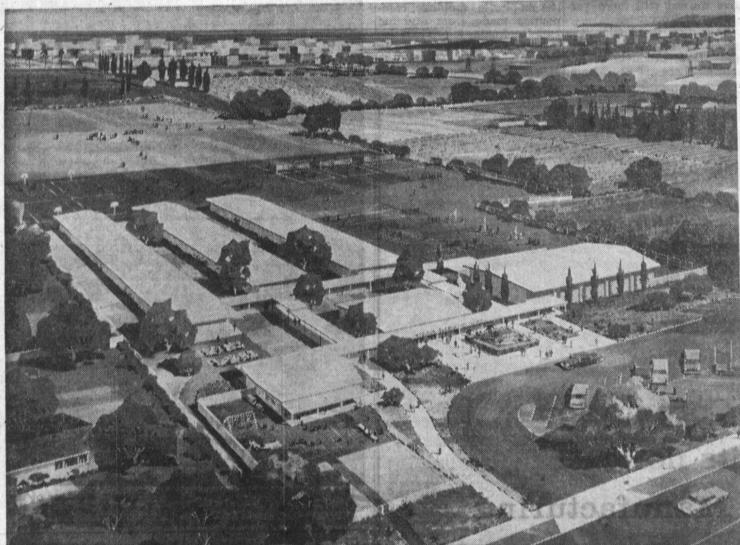
CONCRETE SLABS

Conversley, classrooms work, steel channel templates cold out in winter and heat dimensioning of slab and in the summer. There are About four years ago steel footing and proper location facts and figures to prove portable classrooms were of all anchor bolts. After the these points. since classrooms are designed building construction, the tobe lifted at four points of this type of construction so spraying with a garden hose structural support. Donley quiet that it can be carried on while classes are in seson while c

Erection of the steel is halt- won't stain it. ing out some of the advanded at this point until the the insulation is its sound tage of steel construction, in week heating an injumb-Bernard Perlin, vice presi- ing work is completed, thus proofing qualities, Rooms are dent-manager, noted that permitting the conduit and promise to be located within the wall panels with connections, because o their tions made to utility will require her tions made to utility. durability, will require less tions made to utilities on the sound barrier between classmaintenance and reflect a outside of the building. The rooms. In fact, rooms are so interior panels are then at sound proof that some teach-

CALCOR

Calcor compares the insul- have installed p.a. system



MOVABLE SCHOOL—Designed by Roy Donley, A.I.A. & Associates, and fabricated and eercted by the Calcor Building Division of Rheem Manufacturing Company, the all-steel Madison Elementary School of Torrance Unified School Dis-

trict shown in this sketch can be picked up and moved to follow population shifts. Each classroom can be moved as a unit and the larger buildings can be moved in sections.

Downey, 572.2 per cent; and nation, doubled its receipts

Some of the 1960 million- Fullerton, 641.3 per cent. between 1950 and 1960 for a

dollar offices had receipts of Los Angeles and San Fran-gain of \$37,000,000, the larg-

less than \$200,000 in 1950 and cisco continued to head the est dollar gain of any office

Post Office Classifies City Following 1960 Tally

in 1960 as gathering more

The year also was noted

reported "the comparison of ciates, architect for many After light structural steel 1960 and 1959 figures pro-

124 PER CENT GAIN

"For example, the \$308,

buildings to those of a stove

Fire-retardent paint, which

PIONEER

sion without disturbing put pils or teachers.) Initially, the pils or teachers.) Initially, the steel under high pressure, sheets of the wall panels are with a chisel, and even acid

tached to complete the struc- ers have complained they can hardly hear the bells between classes. To rectify this situation, most schools **Low Cost Payroll Record for** State Captured by Torrance According to United States workers and a total payroll

Census Bureau figures, the of \$290,000 a month. city of Torrance, with 105,- By comparison, Santa Mon-551 residents, gets along ica, with 17,000 fewer resiwith fewer employees and a dents, has 982 full-time emsmaller payroll than any oth-ployees and nearly 1000 part-

than 100,000.

Torrance Mayor Albert Torrance. of the city government. "We've been working for \$664,200 a month.

ministrator wants an assist- might bear some review. wants an assistant.

budget now goes into salaries. study. The taxpayers couldn't stand a heavier load.'

101 policemen and 89 fire-now.

The city had 82 part-time

er California city of more time workers. It d 184 in its police department, 99 in Figures were disclosed to- its fire department, and a today in a story from Wash-tal payroll of \$551,400 a month, nearly twice that of

Isen greeted the news as a Burbank, with only 90,155 tribute to the effectiveness population, had an even larger municipal payroll of

efficiency in government," Mayor Isen admitted the he said, "and fighting hard fact of Torrance's small manto keep the staff from getting power in police an i fire deoo big.

As a city grows each adwith that of other cities

ant, and then the assistant "No doubt at budget time." he said, "we'll add extra po-"Seventy per cent of our lice, but only after careful

MORE FIRE STATIONS "There's no point in add-Census figures show in ing extra firemen until we 960, Torrance had only 564 have more fire stations. Three fulltime employees, including stations are being developed

> The mayor, while express-(Continued on Page A-16)

WE BUY

ALL GRADES

WASTE PAPER AND RAGS INCLUDING

NEWSPAPERS now \$7 Ton CERTIFIED PUBLIC SCALE

CAL DA 4-7928-FA 1-1062

Harbor Paper Stock Co.

701 WEST 182ND STREET, GARDENA



Whether it jumps to make a discovery that's out of this world, or sits down quietly to spend a century or two on atomic research, steel is the only material that has the strength and vigor to keep up with the reach of modern man's mind.

New Stainless Steels developed by United States Steel withstand the vibration and friction of unearthly speeds. New USS Steel Forgings shape atomic reactors and nuclear power systems. Look around. You'll see steel in so many places - building strength.

USS is a registered trademark



REPAIRED AND RELINED WHILE-U-WAIT

GAS OR PENTATHOL

COMPLETE DENTAL SERVICE Array Partials Fillings Pyorrhea Treatment

FA 8-0250 For Low Prices

SE HABLA ESPANOL

WELCOMED

PENSIONERS

WELCOMED

2418 TORRANCE BLVD., NEAR CRENSHAW