

ENGINEERS NEWS

STATIONARY ENGINEERS LOCAL 39



OPERATING ENGINEERS LOCAL 3

Vol. 23—No. 4

SAN FRANCISCO, CALIFORNIA

151

April, 1964

WELCOME IUOE DELEGATES

Local 3 Extends Warm 'Hello' to Visitors

By AL CLEM
Business Manager

The 27th convention of the International Union of Operating Engineers convene in San Francisco this week, and on behalf of the officers and membership of Local 3 it is a pleasure to say "welcome convention delegates and wives." We know that many of the delegates will renew old acquaintances with Brothers from your locals who have since transferred their membership to Local 3 and are now playing an important role in the development of our local union.

We of Local 3 join with other locals across the country and Canada in pledging our support and confidence in the outstanding leadership of the General Executive Board headed by General President Hunter P. Wharton and General Secretary-Treasurer Newell J. Carman.

During the course of the convention some 83 resolutions af-

fecting the general welfare of the International Union of Operating Engineers will be reviewed and passed upon; Local 3 is presenting 13 resolutions for consideration at this convention.

Fifty-eight Local 3 delegates and alternates were elected in an overwhelming fashion in February out-polling their nearest rivals by more than a 2 to 1 edge.

The delegates of Local 3 look forward to meeting our Brothers from across the country and exchanging ideas and discussing mutual problems with them. We also look forward to the oppor-



HUNTER P. WHARTON
General President

tunity of showing visitors our interesting city and extend to you an invitation to visit our headquarters in San Francisco located at 474 Valencia Street.



NEWELL J. CARMAN
General Sec.-Treas.

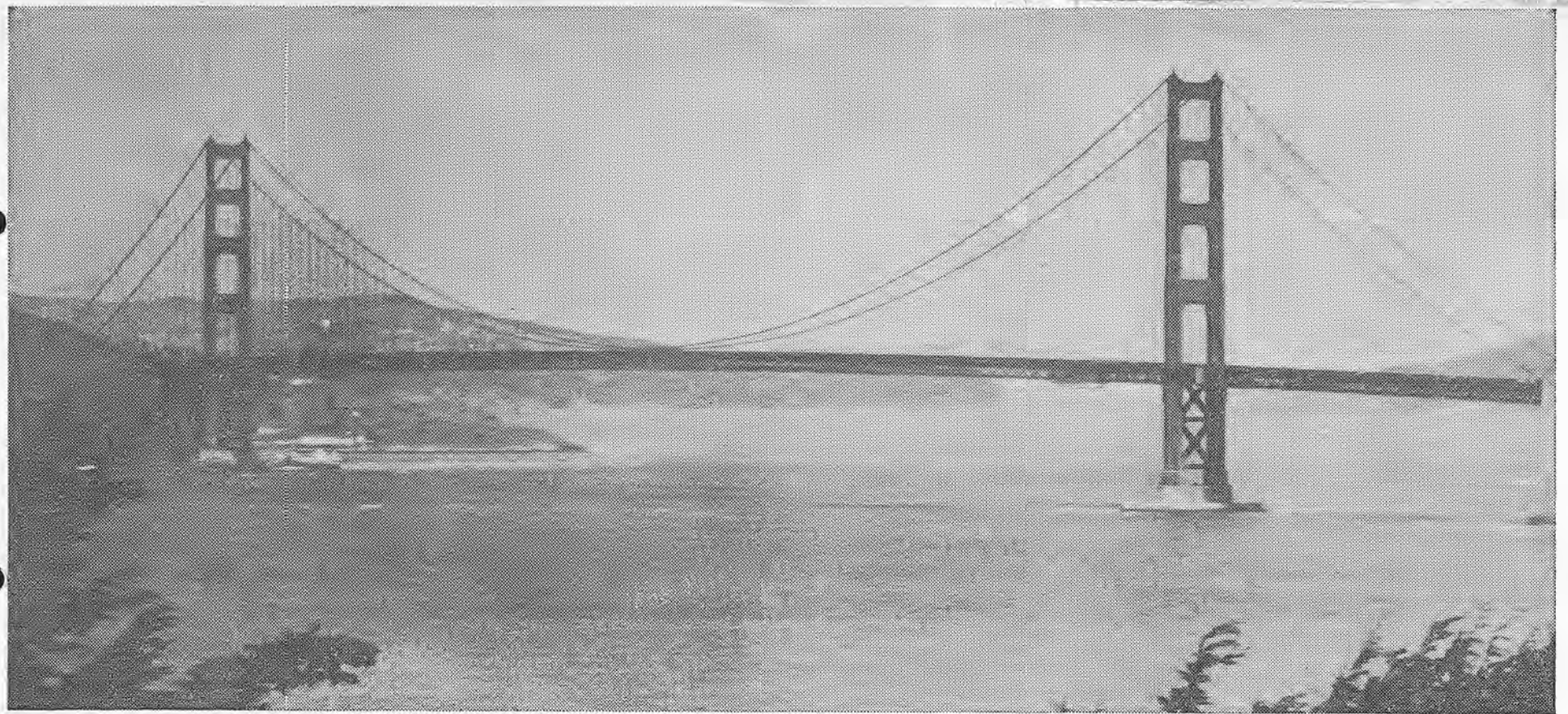
The Sheraton-Palace hotel is the scene of the four-day conclave for delegates attending from all over Canada and the United States.

WELFARE BENEFITS UP MAY 1

Health and Welfare benefits have been improved, effective May 1. The increase was received as a direct result of the recent modification of the Associated General Contractors' Agreement.

We were very fortunate to receive the increases in the contract which would not have expired until June, 1965.

The next issue of the Engineers News will carry a fuller explanation of the increases. Booklets will be available in district offices and it is suggested the members become familiar with the new benefits.



San Francisco—'City by the Golden Gate'

From the tropical shores of Hawaii through the Golden Gate into San Francisco Bay, and to the snow encrusted mountains of Utah and Nevada, Operating Engineers of Local 3 welcome their brother engineers attending the 27th Convention of the International Union of Operating Engineers.

The city of San Francisco is a 46 mile fingertip between the Pacific Ocean and one of the world's greatest natural harbors.

The peninsula forming the Golden Gate's portal rises from sea level to 925 feet. Many of San Francisco's hills are internationally famous. The main ones, earned the city another title,

"City of Seven Hills." They are: Nob, Russian, Telegraph, Rincon, Twin Peaks, Mt. Davidson and Lone Mountain. Temperatures are likened to Mediterranean and range from 45 to 75 degrees.

Even San Francisco fog can be exciting when viewed from the Top of the Mark as it tumbles over the coastal hills or rushes

in a single tendril down the center of the bay.

On work days over 150,000 commuters pour into the city by car, train, bus and boat from Marin to the north, the East Bay and peninsula to the south. The population of this area is over three million. A sight-seeing bus tour will take you through San

Francisco's 49 mile scenic drive; a visit to San Francisco's night life is a short distance from the Sheraton-Palace Hotel; parents with children will probably want to visit Golden Gate Park with its museums, aquarium and zoo; children's Fairyland in Oakland is unique, and at the East Bay's Lake Merritt, one may rent a boat for a scenic tour.

ENGINEERS NEWS

STATIONARY ENGINEERS LOCAL 39 OPERATING ENGINEERS LOCAL 3



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School is Out

The 12-week Manpower Development and Training "pilot program" at Camp Roberts, to retrain and upgrade the basic skills of Operating Engineers, draws to a close April 17.

The program was the first in the nation for heavy construction operators, and its birth was the product of the imagination of Business Manager Al Clem more than a year ago.

Since 1962, shortly after the late President Kennedy signed the initial Act, Clem has doggedly pursued this program for Local 3 Engineers. Finally, in December, 1963 President Johnson signed an extension of the bill which paved the way for the start of the program January 27.

In between, arrangements for a site, administrative assistance, housing and food, equipment and a host of other details had to be ironed out. Arrangements were also made to offer the benefit of the program to members of Local 12, now completing the second half six-week training course along with Local 3 Engineers.

Undersecretary of Labor John F. Henning flew here from Washington and signed the contract with Clem and authorized an expenditure of \$241,122 to carry out the project.

Press, radio and television coverage has been very widespread with nearly every television station in the Bay Area, Sacramento, Salinas and the Monterey Peninsula carrying stories and pictures about the Operating Engineers.

The story is the same anywhere you turn: the public's response has been immediate and favorable for the purpose of the program. Other trade union members look upon this program as "something we need."

Contractors have jumped on the bandwagon. Stolte Company, through its president George Looz, lauded the program in letters to senators and congressmen and the Department of Labor and called for an extension and general broadening of the program for more Engineers.

Guy F. Atkinson Company of South San Francisco compared the program with a retraining project they are carrying out for Pakistanis Engineers in West Pakistan, and suggest to our elected representatives in Washington that the program should be continued.

A recent "VIP day" at Roberts impressed everyone. Over a million dollars in equipment is there for training purposes and the men gain actual experience on diversified machinery by "doing" and "learning" in classrooms and in the field.

Enthusiasm among the trainees is very high. Men who completed the first six weeks program are home. Many have been dispatched to jobs using the skills they acquired at Roberts.

And as Clem says, "We're interested only in giving our members a chance to diversify and upgrade their skills to meet the rising tide of automation so they and their families may enjoy the benefits of a stronger economic way of life."

APPRENTICESHIP GRADUATION

The first graduates of the Operating Engineers Apprenticeship Program received their certificates recently. From its embryonic start in 1960 the program has grown to be the largest in the heavy construction field throughout the nation with over 600 apprentices enrolled.

On May 22, 16 more apprentices will receive their completion certificates in graduation ceremonies in San Francisco. This has been a very rewarding program and a certain "hedge" to youth unemployment in California.

WELCOME DELEGATES

The officers and entire membership of Local 3 extend a most cordial welcome to our brother engineers from Canada and the rest of the United States at this 27th International Convention of Operating Engineers now in progress. We trust you will carry back to your respective homes fond memories of the city by the Golden Gate.



NOB HILL . . . The Mark Hopkins hotel, center, dominates this skyline picture of San Francisco. New buildings under construction and employing Brother Engineers will dwarf these landmarks.



EASTBAY . . . beautiful Lake Merritt and Kaiser Company building on its shore at right dominate this view with San Francisco and the Golden Gateway in the background.



CABLE CAR . . . visitors to San Francisco are fascinated by the quaintness of the Cable car. This is the Bayside turntable located in the Maritime Plaza, a gaslit replica of a Victorian park complete with gazebo. The Maritime Museum and colorful Fisherman's Wharf are nearby.

The Ferry Building



LANDMARK . . . sailing men of the world's merchant fleet have long recognized the Ferry Building in San Francisco as they return to port. The Ferry Building withstood the famous 1906 San Francisco earthquake.



SURVEY CLASS . . . Included in the training at Camp Roberts are members of this class polishing their skills in survey engineering and grade setting.

Want a Safe Job?

Don't Play Games On Rigs

By DALE MARR
Safety Engineer

In reviewing our recent work injuries it is apparent that some of us are not assuming our share of responsibility for operating a safe job. We can spend a lot of time and effort talking about safety but as long as the Brothers in a crew tolerate even one man who thinks he can ignore safe practices, we are all in jeopardy.

Too often we see someone in a rubber-tired spread who wants to be a "hero" and set a pace that can only lead to trouble sooner or later. Our records are full of accidents caused by "someone setting a pace" too fast for existing conditions.

If we are going to stop the accidents occurring on rubber-tired spreads, we must work with employers to curtail several conditions.

1. Speed beyond the ability of the operator to reasonably control.
2. Dusty haul roads. We must slow down as visibility is cut down by dust.
3. Rough haul roads. We must adjust speed to suit the condition of the road.
4. Passing on haul roads. We must stop this practice. Records show a number of serious accidents caused by some "lead foot" trying to pass another rig that is operating at a reasonable pace.

onable pace.

It is not our intention to slow down production in our jobs, but it should be our intention to stop some of the "wild operations" that we see going on around the country.

It is apparent equipment is getting bigger and more powerful each year, and the power in this new equipment must be used in a sane, reasonable manner. All of our new automobiles, for example, will travel over 100 m.p.h., so we have to control their speed and we must also control the speeds on our jobs. In order to control these speeds we must ask for the help of each of you. If you have a "hero" in the crew let us know and we will talk to him. Maybe he doesn't realize he is risking the life of everyone around him. This is a serious situation and one which demands our full attention. If you are on a job where the supervision is asking for excess speeds, please let us know immediately!

We are trying to promote, with some success, the use of safety belts, hard hats, fenders and such, but we must curb this excess speed—if we are to have an effective safety program.

The big jobs should be starting to roll soon now, and it is our hope everyone will do his share to "keep 'em rolling safely."

MDTA PROGRAM TO GRADUATE ON APRIL 17

CAMP ROBERTS — Graduation ceremonies for the second six-week retraining program here at Camp Roberts is slated for Friday, April 17 when 86 members of Local 3 and 47 Local 12 members will receive certificates of completion.

Earlier, 19 men received certificates or dropped out for personal reasons. Some were called back to work, according to Project Manager Harley Davidson.

As was the case in the first group of 150 men, this second group has been very enthusiastic about the retraining program, its instructors, equipment and general administration of the project.

LOCAL 12 LETTER

The letter to the right was prepared by members of Local 12 who had been included in the Local 3 program. All 49 expressed appreciation for being included and lauded the organizational efforts of Local 3 Business Manager Al Clem and friendly attitude of the administrative staff. Their letter illustrates the spirit of cooperation between the membership of Locals 3 and 12.

Nearly all the men look forward to continuation of the program to bring the benefit of diversifying Engineers' skills to cope with modern, complex machines. They indicate that this will help them find more jobs during the coming season and thereby increase their economic capacity.

TALKS GO ON

Brother Clem has been talking with Department of Labor representatives, and a few weeks ago, while attending a Building Trades Council meeting in Washington, talked with President Johnson about the Roberts program.

Contractors, as well, have displayed their support of the program and others are writing letters to elected representatives encouraging continuance of the project.

The true impact of the retraining school will be better determined after all the men are back at work and actually get an opportunity to show their newfound knowledge.

Local 12 Men Extend Thanks

April 1, 1964

Mr. Al Clem
Business Manager Local No. 3
San Francisco, Calif.

Dear Sir and Brother:

The members of Operating Engineers Local No. 12 who are attending the school for retraining and skill improvement here at Camp Roberts, have caused this letter to be forwarded to you in order that you might be advised of the enthusiasm we feel for this program which has been made available to us through the efforts of you and your staff. Believe us, Mr. Clem. We are grateful.

Many of us who have been members of the Operating Engineers for years, have wanted to advance in the employment of our choice but opportunities have been few. We understand the natural reluctance of contractors and equipment owners to furnish us on a free basis their equipment to learn on. For this reason many of us have been forced to accept a standard of living which was less than desirable because, until now, there was no place or person to whom we could go for the help we needed in order to better ourselves.

Here at the Camp Roberts training school, all those things which we have so urgently needed are available to us. We have:

Equipment of the latest types and models to work with. A place to live and eat here at the school near our work. Instruction of the highest caliber from the ranks of Local No. 3. All this without losing our unemployment benefits while learning. In addition, many of us have been promised jobs by our employers in the new skills which we have learned here on completion of training.

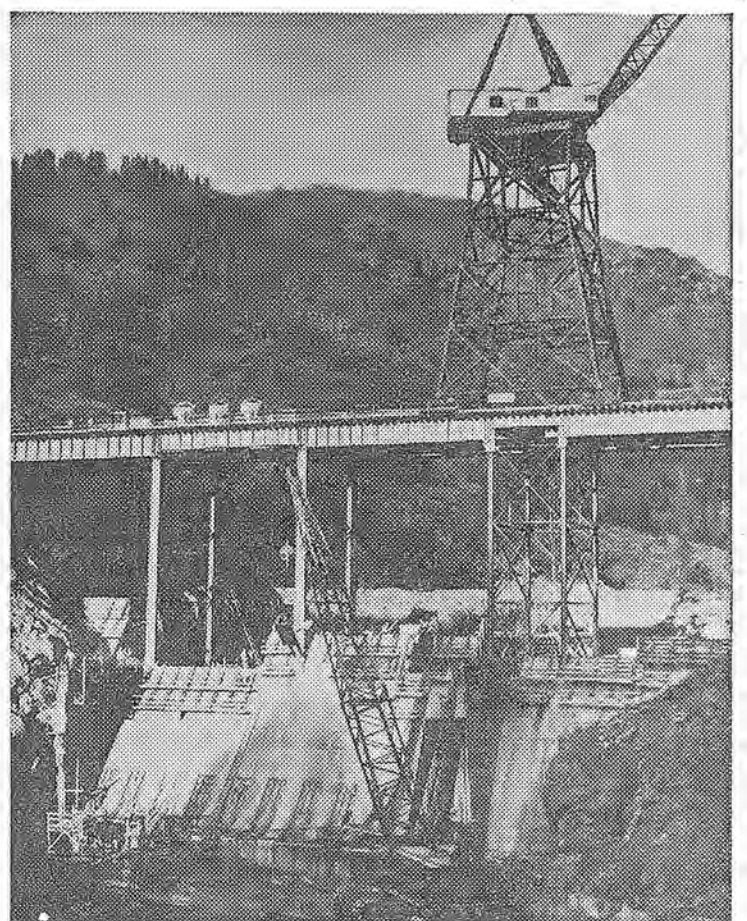
We are fully aware of the difficulties which must have been encountered before you were able to see your plans for advancement of the members bear fruit and become reality. Now that it has, we wish to offer our thanks and gratitude for being allowed to participate.

This program has been needed for so many years. Please do all you can to see that it is continued for all those who need this chance too.

Sincerely,

The members of Local No. 12
Camp Roberts Training School

(Signed by 49 Local 12 members)



HYDROELECTRIC PROJECT . . . McCloud-Pit #7 dam will rise 220 feet above stream bed and have crest length of 905 feet. Whirly crane here places concrete and handles material across trestle.

Memo from the Manager's Desk

By AL CLEM

IUOE CONVENTION HERE

The Engineers News goes out while delegates are in session at the 27th Convention of our International Union at the Palace Hotel. We of Local 3 are extremely proud this convention is being held in San Francisco. We will be able to renew old acquaintances and meet new representatives of the various Local Unions throughout the United States and Canada.

These conventions are held each four years, and this is the first International Convention held in the territorial jurisdiction of Local 3. We wish it possible for every member to attend a session. Of course, this is impossible but the delegates whom you have elected will be making reports on their return to the various areas, and you will receive a report from your officers when you attend your regular district meetings.

PRESIDENT ADDRESSES LABOR

During the past month I attended the Building Trades Legislative Conference in Washington, D. C. This was an informative conference and I believe labor was paid a great tribute by the President of the United States who took time off from his busy schedule to address the delegates to this conference. These conferences are held for a specific purpose; to meet our Representatives, Congressmen and Senators and discuss the many problems facing our membership. It is extremely gratifying to know that while we have some Congressmen and Senators who do not vote for what we think is in the best interest of the labor movement, we do have many who are friendly to the Operating Engineers. I think we of Local 3 may count on many of the latter who come from our territorial jurisdiction.

CAMP ROBERTS REPORT

The second contingent of trainees at the facilities at Camp Roberts is coming along in excellent shape. By the time you receive this paper, the program will be in its final week of operation. We are sure, from the reports we have received, this group, as well as the first group of re-trainees, has gained a lot by this retraining program. We are at this time conducting a survey among the first group who participated in the course, and we find that a large percent of these men have upgraded their work skills, and as a result are earning a better living for themselves and their families. We are planning to petition the Labor Department for another contract to help upgrade the skills of those of our members who are desirous of participating in this type of operation. If you are interested in participating in this retraining program, which we will try to set up for next December, we would suggest you contact the District Representative, Business Agent or Dispatcher in the area where you reside and apprise them of your wishes. In the event that we are successful in securing another contract, you will then be notified.

The work picture throughout the entire jurisdiction still holds favorable and, of course, our Brother Engineers are readying themselves for the season is getting underway and everyone is looking forward to an extremely good summer.

NLRB ELECTION WON

I would like to take this opportunity to welcome the shop employees of the Silver State Construction Company employed in Fallon, Nevada, and to the membership of Local 3, as we were successful in winning an election conducted by the National Labor Board at the site of this operation by an overwhelming majority.

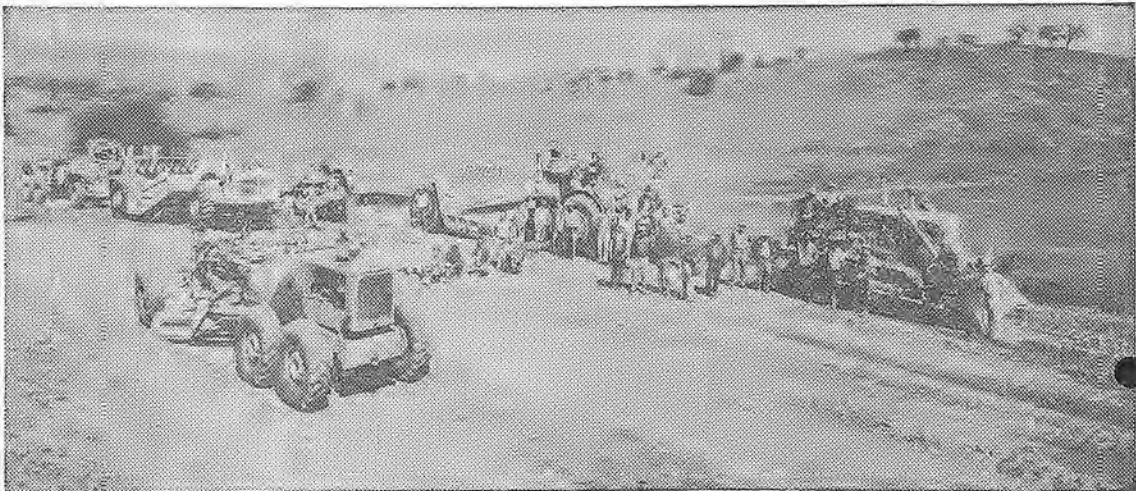
I think at this time it would be appropriate that those of you who know someone who is interested in participating in our Apprenticeship Program to please ask them to contact the various offices so that they may register and be interviewed by the Joint Committee. In the event openings are available for them in the coming season, they will at least have this much of the paper work processed.

During March there were 2407 members dispatched to the various jobs during the month. There were 12 regular agreements signed and 81 short form agreements, making a total of 93 agreements signed during the month.

During the month we attended a safety meeting called by the management of Granite Construction Company in Watsonville. The meeting was well attended by representatives of management and our union. It is really a pleasure to work with a company which understands labor's problems and is interested in the safety and welfare of its workers.



M.D.T.A. SCHOOL . . . Local 3 Business Manager Al Clem is shown addressing 150 brother Engineers while representatives of the press, television, Sixth Army and contractors listen. Included in the foreground of the picture are General President, Hunter P. Wharton and General Secretary Newell J. Carman.



MORE EQUIPMENT . . . here's another lineup of equipment being used at Camp Roberts. It includes much of the latest machinery available to contractors.

Consumer Advice

UHF Television Conversion

By SIDNEY MARGOLIUS

April is a month of important clothing clearances and a money-saving time to fill in family wardrobe needs, especially in women's and children's wear.

This is the last month before manufacturers must stop producing the traditional VHF television sets under Federal law, and must produce only all-channel receivers. New sets will be equipped to receive both the 12 Very High Frequency channels as before and all 70 Ultra High Frequency channels.

The significance of this new law is eventually you will be able to receive more TV programs. Already in some cities a few UHF channels are in operation, such as Channel 31 in New York and several channels in Los Angeles and Boston. Other cities such as Chicago and Los Angeles are expected soon to have municipal TV stations broadcasting educational programs in the UHF band. For the entire country, there now are 29 educational stations operating in the UHF band, and about 100 commercially-operated UHF stations.

This does not mean you should rush out and buy a UHF set. In fact, in most areas there still are no stations operating on the UHF. The big VHF networks are not eager to encourage additional UHF competition. Even when UHF broadcasting does come to your area you won't need to buy a new set. You can have your present VHF receiver converted for perhaps \$30-\$40.

What the advent of UHF sets means is that if you are in the market for a TV set, you will have the choice of (1) buying one of the remaining VHF sets still in the dealers' stocks which would have to be converted if UHF does come to your area; (2) paying \$10 to \$30 more for a new UHF receiver; (3) repair your old set or buy a used one until UHF does arrive locally.

We do want to make it clear that you don't have to do anything about your present set if there is no UHF channel in your area, or if you don't

care to receive whatever UHF stations already are broadcasting in your area. When UHF does become available then you can convert any present set.

Eventually the availability of these additional programs will be a boon to your family. Both set manufacturers and large broadcasters resisted the Federal law requiring new sets manufactured after April 30 must be the "all-channel" type.

You may recall large broadcasters once resisted FM radio broadcasting. They want to monopolize the public's air waves as much as they can. But the existence of more UHF receivers in homes will encourage more broadcasters to offer additional programs in this band. This means that people in smaller cities and in fringe areas will be able to get better reception than they now get tuning in on broadcasts from the nearest big city. It also means that families in some small-town and rural areas no longer may be forced to pay high fees to operators of community antennas, since programs of nearby origination will be available.

Programs should improve as the result of additional stations and there is more competition for viewers. Most cities now have only two or three TV stations, some have only one and some none at all. Only nine of the very largest cities have four or more.

In buying any TV set, it's worth taking time to examine the quality of manufacture and reception. Such details as the care and quality of the masking around the screen, and the trim and handles, are important not only for themselves but because they are an indication of the overall care with which the manufacturer has produced the set.

In observing the picture, look for clarity, steadiness and clear detail. A moderate-quality set usually will provide good contrast of black and white but cannot be adjusted to get softness in between as a good set can. The lower-grade set sometimes gives a picture with almost a silhouette effect.

Personal Notes

OAKLAND

Had an enjoyable visit from Brother Eddie Cox, his wife and daughter vacationing here after spending eighteen months in Liberia, Africa, employed by the Liberia Mining Co.

He is due back on the job for two more years. He is working on an open pit iron mine running a 120B electric shovel. He says living conditions are good. He says he has been working "6-10's." Other Local 3 men working there are Brothers Don Luba, Blackie Roberts and Paul Harper.

* * *

Our appreciation to Brother Charles W. Bent for donating blood to the Operating Engineers Blood Bank. Anyone else who can donate should call OLYmpic 4-2924 for an appointment.

* * *

Brother Bartlett Tucker has an interest in MacIntux's Jewelers at 1359 Park Street, Alameda. Anyone interested in watches, clocks, jewelry, antiques, and old gold should look him up. He also does repair work.

* * *

Brother Rudolph "Dutch" Kretz is recuperating from a stroke and pneumonia at the Hill Haven Hospital in Oakland. "Dutch" has been a member of Local No. 3 since 1941 and now has many hours by himself as he progresses in his fight for health. A card or a call from his friends would be appreciated.

Brothers Joe Edings and Arthur Alfonso are recuperating at home after a stay in Memorial Hospital at Tracy.

Those Brothers who were on the out-of-work list and who have gone back to work are requested to notify the district office.

STOCKTON

Brother O. J. Eddings, recently confined to the Tracy Memorial Hospital with a heart attack, is recuperating at home.

Brother Roy Wood, who recently underwent stomach surgery, is home convalescing, and we know Roy would appreciate seeing his friends.

FRESNO

It is with sincere sorrow and heartfelt sympathy that we report the passing of our friend and Brother Leroy Wright and his wife Medda Wright. We would also like to extend our deepest sympathy and regrets to his family and friends.

Brother W. H. Kelley was released from the hospital. Walt Schmitz is grandfather for the second time with a granddaughter. M. C. Johnson is a new father to a son. Our blood supply is still low. Donations are greatly appreciated.

SAN RAFAEL

The small community of Sonoma is well represented by following brothers who reside in the Olive Ave. area—which is getting to be known as "construction row": Brothers Joe Lovely, Joe Perry, Dean Hyder, M. D. McDowell, Wm. Joseph and Clarence Robitaille.

Brother J. Stanley Krantz is off to Saudi-Arabia for Bechtel Co. for an 18-month hitch as equipment Mechanic-Superintendent.

Our Credit Union is building up—applications are being taken for shareholders. Information may be obtained at our office.

Best wishes for a speedy recovery to Brother Manuel Silva confined at Novato General Hospital and Brother Shelby Johnson, reported on the sick list.

The following brothers are attending the 2nd OJT program at Camp Roberts: Bill Crouch, Bob Lang, Kenneth Mallar, Harvey Roberts, R. J. Scruggs.

SAN JOSE

Best wishes for a speedy recovery to the following hospitalized members: F. A. Earnest, Jack Clark, Bryan Hempill, Charles Adams, as well as Nebo Barbano, Elmer Coleman, Matteo Ramunni, convalescing at home, and August Suess. Augie was running a small tractor in his yard, and the tractor flipped over on him injuring Augie to the extent that he will be unable to work for approximately six months. Better luck next time Augie—Leave that small stuff for some one who can handle it!

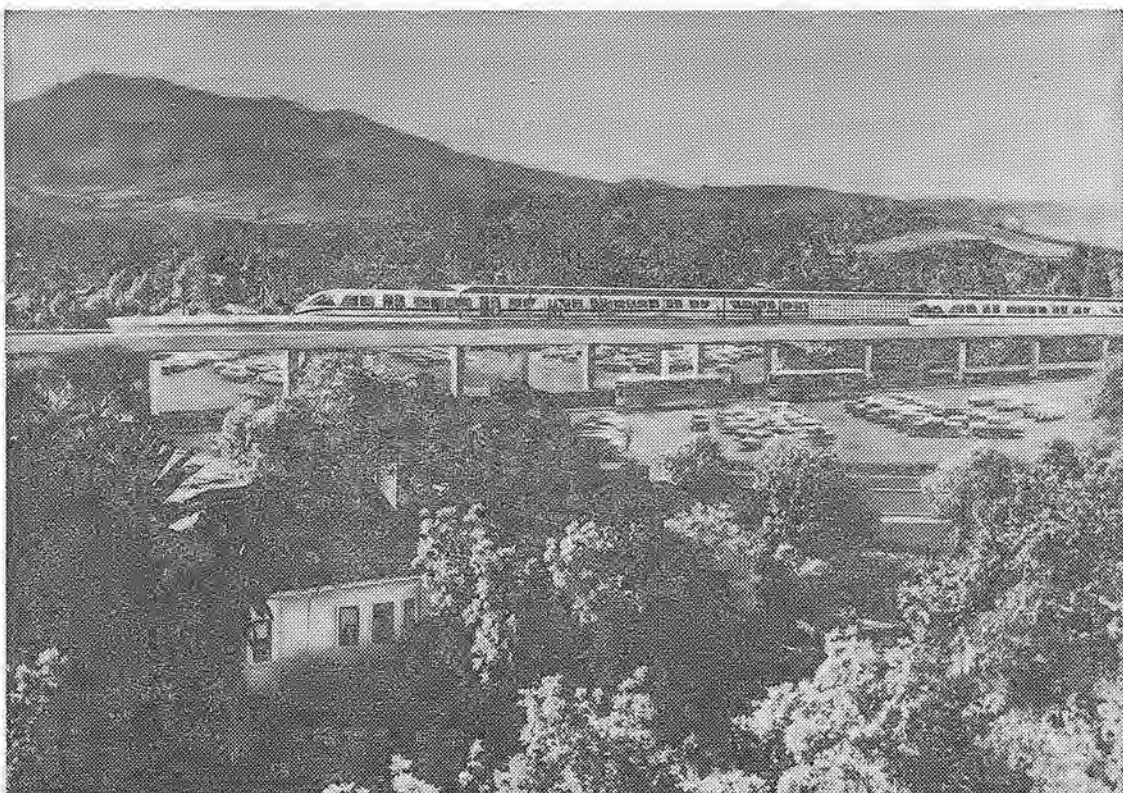
Mr. and Mrs. Bill Baertsch have just returned from a lengthy vacation which included the Mardi Gras in New Orleans, a visit to the Florida Keyes, St. Petersburg, Miami, Nassau in the Bahamas. Enroute home they visited Alabama, Tennessee, stopped to take in the Grand Canyon then on to Las Vegas to try their luck.

Sky Holman has just returned to San Jose after working overseas for the past several years. Sky has been around the world three times, but still comes home to roost in San Jose. He has just completed another course at Marion, Ohio, on the latest model shovels.

Blood Donors for the month: John McGrath, Larry Nunes, John Hackett, Allan Schuster. Our thanks to all of you. Were it not for the few of the brothers who care, the blood bank would be soon depleted. It is very low at this writing, and we would like to see you brothers, not presently employed, donating a pint of blood to the Engineers Blood Bank.

Lindsay Schmidt of Melbourne, Australia is the owner

—Continued on Page 16



OUTLYING . . . stations for S.F. Bay Area rapid transit will feature parking areas and facilities for transferring feeder bus passengers. This photo-rendering show projected Concord station with parking for 2000 cars.

Billion Dollar Project

Largest Public Works Program

By JERRY DOWD, ED DuBOS, and GEORGE BAKER

SAN FRANCISCO — The "City by the Golden Gate" is laying one billion dollars on the line as a solution of handling the growing traffic needs of the metropolitan San Francisco area through construction of a 75 mile rail rapid transit system.

The system, the most ambitious public works program ever undertaken in the United States or Canada, will require eight and one-half years to complete.

President L. B. Johnson has been invited here to turn over the first shovel of dirt next month when official ground breaking ceremonies will be held.

The Bay Area Rapid Transit District system includes a four-mile underwater tube linking the cities of San Francisco and Oakland. The tube will go as deep as 120 feet below the surface of San Francisco Bay and

will be strong enough to withstand seismic shocks of greater severity than the recent Alaskan quakes and the quake in San Francisco in 1906 which nearly wiped out this Western Metropolis.

Its development is expected to set the pattern for rapid transit systems for other metropolitan cities of the United States and foreign cities.

Voters of the area authorized a \$792 million bond issue to finance the project, the largest public works program in the country. An additional \$133 million will be derived from surplus Bay Bridge tolls and \$71 million in future transit revenues.

People in metropolitan areas of the United States are "getting the fever" for rapid transit as they recognize the failure of the family auto alone to handle the transportation needs of their communities.

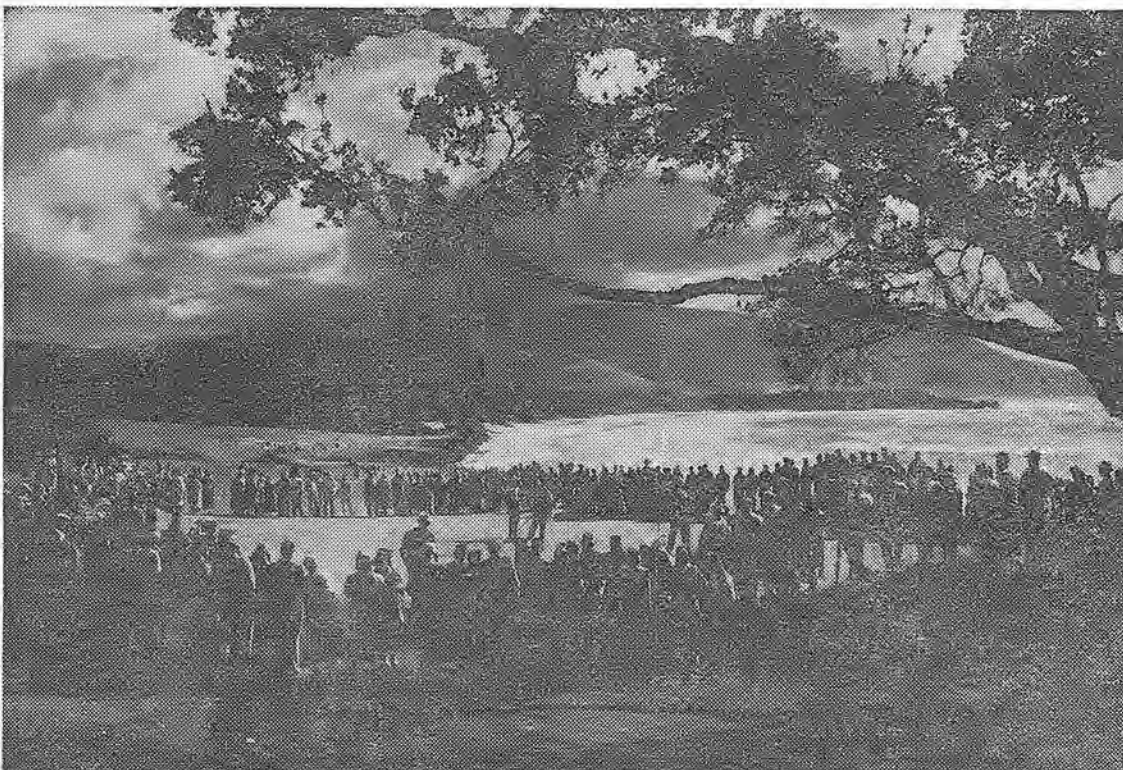
In the Bay Area today, the population is estimated at slight-

ly over 3,000,000 persons. By the year 2020 there will be over 15,000,000 persons in the Bay Area alone — nearly as many as the State of California claims now! By the same year, the population projection for the state is over 73,000,000!

Big cities are drawing back after decades of "auto-oriented" thinking with expensive freeways and tollways. They must take hard looks at the congested and knotty problem of getting people to and from work. The automobile is no longer the magic carpet ride of 25 years ago, and accidents on expanded highways continue to mount.

Experts predict in 20 years there will be over 40 cities with populations over one million. Cities perish if they fail to provide mobility for people to work, shop and play.

Through it all, Operating Engineers are expected to gain year-round employment on this project.



BING CROSBY TOURNAMENT . . . at Pebble Beach in scenic Monterey County south of San Francisco draws thousands of spectators and top flight golfers of United States annually. This year Tony Lema was the winner.

Man-made City Planned for 35,000

This month the first one hundred homes of Foster City will be completed and families will be living in an area that just a few years ago was salt ponds and pasture land.

Foster City is the result of the imagination and courage of T. Jack Foster, with the assistance of his sons, T. Jack Jr., Bob and Dick, and the skill and labors of the Operating Engineers. It is one of the largest dredge and fill projects in northern California.

Foster City is located east of San Mateo on 2600 acres of land that was formerly known as Brewers Island, and when completed in 1975 will provide housing for 35,000 persons in 5000 single unit dwellings, 4600 garden and town apartments, and 1400 high rise apartment units.

BALANCED COMMUNITY

Development of the city began in 1959, according to a Master Plan that was created by Wilsey, Ham and Blair, that provides for a balanced community and tax base with 150 acres of land for commercial uses, 310 acres for light industry, 180 acres for schools, 40 acres for churches, and several parks, all built around a 13-mile lagoon system.

A major part of the lagoon system is being constructed by the Granite Construction Company, and is one-third completed with 903,415 cubic yards thus far removed. The sides of the island canals are lined with concrete and the main channels are lined with crushed rock to ease maintenance and reduce wave deterioration.

CONSTANT TIDAL LEVEL

No power boating will be allowed in the lagoons—only sail boats. The water height will be a constant six feet and controlled by tidal gates that will also serve to completely change the water in the lagoons regularly. In case of excessive storm runoff, pumps capable of pumping 800 gps are being installed.

The land that Foster City is built on is being raised an average of four-and-a-half feet, and will require 18,000,000 cubic yards of sand fill to complete. To date, the Hydraulic Dredging Company, contractors for the project, have completed approxi-

mately one-sixth of the job (3,053,000 cubic yards). They employ approximately 75 men on three shifts, six days a week. It is expected that work will continue there through 1968.

The fill material is obtained from San Bruno Shoal, five miles north of Foster City.

SAND TRANSPORTED

The sand is being moved by dredge and loaded into float barges and pushed by the tug boats of the Harbor Tug and Barge Company to a handling basin at the edge of Foster City. Suction pipes then transport the material one-and-a-half to two miles to various fill sites on the island. This operation was covered in more detail in the November issue of "Engineering News."

Kunz Paving Company is doing the area grading.

The progress of Foster City is being handled by the Estero Municipal Improvement District and was formed by an act of the State Legislature in 1960. The city manager is George C. Shannon.

Foster City is composed of nine neighborhoods, each divided into units. To date, Unit 1, on Neighborhood 1, is the area where the homesites are being completed. In Unit 2, of Neighborhood 1, all storm drains, water and sewer lines, and electrical and telephone conduit is being placed underground. Murphy Brothers, Inc., are contractors of this unit with a contract price of \$1,070,000.

Construction of the residential homes in Neighborhood 1 of Foster City is being completed by three well-known volume builders, Kay Homes, Duc-Elliott, and Eichler.

In addition, there are 1100 waterfront and island lots that will be offered for lease, and 12 peninsula builders will be constructing only custom designed homes on these properties.

Foster City will provide housing for 11,000 families, and Foster City business and industry will provide from 7,000 to 10,000 jobs.

Thus, the work of the Operating Engineers is creatively helping the development of the San Francisco Bay Area.



SERPENTINE . . . system of lagoons and 1,000-homes are being developed on 2600 acres of filled area slated for completion in 1975. This is known as Foster City and will provide housing for over 35,000 persons.

Rain, Hail Stall Jobs In the San Jose Area

By A. J. HOPE, G. L. MOORE,
JAMES N. HALL and
H. T. PETERSEN

The heavy rains and hail storms in the past few days have brought construction work in the San Jose area to an abrupt halt. Although the rain is badly needed, it is coming rather late in the season, with the result that work will be a little later starting than had been anticipated.

This rather glum outlook, however, is offset by the fact that the long-awaited power house job at Moss Landing has been let to Peter Kiewit and we have had our pre-job conference with the company. This is not going to be a large a job as we had anticipated, as the job is going to be let in phases. This is the second phase, consisting of the foundation and concrete work, approximately three million dollars! This will be a good job in as much as it will provide employment for 15 to 20 Brothers for the balance of the year. Termination date will be approximately Dec. 15, 1964, if all goes as per schedule. Work will begin at once. Granite Construction will be the sub for the detour work, which will employ an additional 10 to 12 engineers. Steel Fabricators from Castroville will erect the steel. We are hoping by this time that the contract will be let for above ground building and setting machinery. Project Manager is Ed. Rzewnicki; Job Superintendent, R. J. Dundle; and Bill Hogland, office manager. To start, this will be a five-day, eight-hour job. Possible shift work later.

Frederickson & Watson were awarded the contract for the continuation of Highway 101, the Salinas bypass. This will be four plus miles of freeway, starting later this month. More on this for the next issue. The award was for \$2,697,900.

Williams & Burrows will start on April 15 with their addition to the Nestle Expansion Project. This is another job that will be let by phases, on a cost plus basis. Not too much information at this writing, regarding the actual extent of the expansion program, other than that this will be approximately a one year job, with a termination date of April 15, 1965. This will be another good job for the Salinas

area, and we will have more information regarding the extent of the work for the next issue of the paper.

Contracts awarded for new work coming up:

Clark & Clark of Santa Cruz for construction of sanitary sewer system, branches, risers & laterals, for sanitary sewerage system for City of Campbell.

Award to the O. C. Jones Co. (\$109,208) for construction of street improvements, sanitary sewer system, storm drains and electroliner system for Evelyn Ave. between Sunset & Florence, in Sunnyvale. (\$29,106)

Ebert & Spartan came up with the award for sewer and water facilities on Ross Drive, west of Hamelin, in Sunnyvale. (\$29,106)

Pittsburg Des Moines Steel for erection of a welded steel surface reservoir in Santa Clara for water supply system (\$148,090).

Award to Smith & Scott of Riverside for furnishing sixteen inch and twenty-seven inch concrete cylinder pipe for Lawrence Station transmission line.

M. L. Raymond for construction of a sanitary-sewer line for Monticello Ave., in Santa Clara.

M. L. Raymond Co. also took the award for the sanitary sewer system for Unit No. 2 at the Brokaw airport.

Pisano Bros. for City of San Jose Storm Sewer System for Eden-Payne & Phelps Sts. This one went for \$21,321.

A. J. Ralsch have the contract for asphalt concrete Surfacing for the improvement of Martin Ave., in Santa Clara at \$51,929.

Leo F. Piazza (\$15,786) for paving, curb and gutter and sidewalk for Bryan Ave. and Church Drive in San Jose.

O. C. Jones (\$17,816) Asphalt Conc

Surfacing construction of road for Santa Teresa Park.

A. E. Mullin Co. of Mt. View, for paving curb gutter and sidewalk on Prospect Road at Calabazas Creek, in San Jose, \$42,607.

The W. J. Nicholson Co. Inc., of Santa Clara, was the apparent low bidder for the new terminal building to be built at the San Jose Municipal Airport. This comprises a 70,000 square foot building, and will be erected on the east side of the airport runways, south of the control tower. Weather permitting, construction will start toward the end of April. Bids will be verified and the contract awarded within the next week. Nicholson's bid was \$1,393,393.

The M & K Corporation of San Francisco was low bidder at \$2.4 million on the first building of the local campus of the University of California at Santa Cruz. Bids were opened last week, but the contract so far has not been awarded.

George Davis of Watsonville was awarded the contract for the new addition to the Rancho Del Mar Shopping Center in Aptos.

Schulte & Blackwell will start construction soon on a new 60 home tract on Capitola Road, immediately behind their Meadow Wood Subdivision.

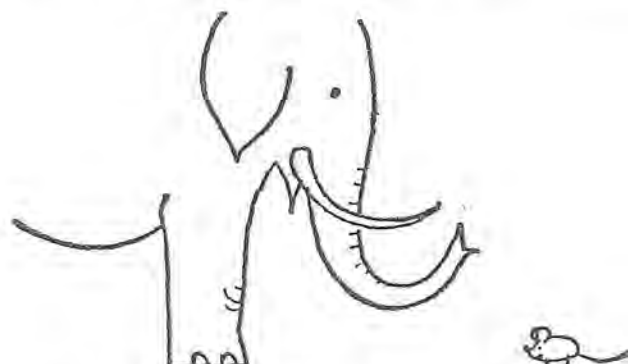
Hampshire Construction Co. of Salinas will be the General Contractor on the 15 unit shopping center on East Lake Ave., in Watsonville.

The D. D. Altmatt Co. of Kentfield, have been awarded the contract by the U. S. Army Engineers, for parking areas and water lanes for the parking apron at Fort Ord. This one went for \$135,538.

At the Presidio in Monterey, P. Pedersen & Son of Fresno were the low bidders on the Academic Building. (\$864,790.)

The Guy F. Atkinson Co. have broken ground on their \$2,474,000 Mt. Pleasant High School job in San Jose, with Wm. D. Smith, subbing the dirt work. Bill is presently working at the site with a spread of four scrapers, three dozers and a blade. Foundations are being poured at this writing.

Mahon Steel is doing the steel erection on the Guy F. Atkinson San Jose State job.



Both your **BIG ORDER** and your SMALL ORDER get equal attention at ERBCO. We haven't forgotten that "For want of a nail the shoe was lost . . ."

Whether it's a 900 foot compressor or a single clay spade, when it's needed on the job it's needed **NOW**. And we'll bust our britches to get it there.

EDWARD R. BACON COMPANY
CONSTRUCTION EQUIPMENT

Folsom at 17th Street, San Francisco, Calif. 94110 HEMlock 1-3700
Sacramento • Oakland • Fresno

Obituaries

	Date Initiation	Date Died
Lawrence Andrade, San Carlos . . .	10- 5-36	3-29-64
Thomas Beam, Sacramento	11- 6-36	3- 8-64
Walter Bennett, San Mateo	10- 7-44	3- 8-64
J. H. Caughran, Santa Clara	12- 3-55	3-20-64
Harvey Findley, San Francisco	5- 2-53	3-25-64
Marion Grider, Sparks, Nevada . . .	4- 1-62	2-17-64
E. Grant Hale, Montgomery Creek . .	8- 4-56	3-23-64
Ernest Hardin, Jr., Antioch	11-21-41	3-26-64
R. C. Harrell, Madera	11-19-61	2-29-64
Victor Herde, Oroville	9- 1-40	3-20-64
John Kauffman, Sacramento	5- 4-46	3- 2-64
John P. Martin, San Jose	10- 1-61	3- 1-64
John Martinez, Castroville	8- 4-63	2- 7-64
Harold McStoff, San Jose	12- 4-48	3-17-64
Robert Patterson, Chinese Camp . .	10- 4-47	2-24-64
E. C. Stapleton, E. Linda	8- 7-54	3-18-64
Eugene Shelton, Colfax	9-13-59	3- 9-64
Stewart Thompson, Stockton	11-17-37	3-18-64

Marysville Report

Power Plant Costs State \$37 Million

By HAROLD HUSTON, W. R. WEEKS, CLAUDE ODOM and WILLIAM E. METTZ

As this article goes to press the Marysville District still has 645 operators and oilers on the A & B out-of-work lists. We would like to stress to all the members in the other districts who have planned to move to this area for work to please first check with us before making the move so we can tell you about the work that is available.

If the warm sunshine weather we are having in Marysville could speak, it would say "let's go to work." We are sure that the new jobs will get started as soon as the contractors think the heavy rains are all over.

\$37.3 MILLION

State officials estimate that contracts totaling \$37.3 million will be let this year on a new local construction that is related to the erection of Oroville Dam.

The estimated cost of new construction here is a small part of the total cost of contracts let this year in construction of the statewide project. The total is expected to exceed \$167 million.

In Oroville the largest job the state plans to get underway this year is the Thermalito Power Plant, which is expected to cost about \$13.8 million. Bids will be called for some time in July.

In May bids will be called for the construction of bridges across the Thermalito power canal.

Supply and placement of six huge spherical valves at Oroville Dam power plant's penstock will cost about \$2.8 million.

Also in April bids will be advertised for supply and installation of generators for the Oroville Dam power plant with an estimated cost of \$9 million.

During April bids will be opened for the completion of the intake structure of the Oroville Dam power plant and the installation of traveling bridge cranes for the power house at an estimated cost of over \$5 million.

NEW ROADS PLANNED

We had hoped to be able to report on the construction of new roads for those county roads that will be inundated by Lake Oroville. Construction of a portion of these could get underway this year, we are hopeful.

More than two-thirds of the new construction involved in the state project will be on the California Aqueduct, which will transport water to Southern California.

In the upper Feather River basin, the state plans to call for bids in April on the Grizzly Valley Dam in Plumas County. This 114-foot tall earth-filled structure has an estimated cost of \$1.8 million.

FISH HATCHERY

Frazier & Davis Construction Company is moving right along on its Fish Hatchery job in Oroville. A note of real interest on this project is that they are presently using divers to cut the steel piling under water that cannot be pulled. In observing this op-

eration we noticed how relaxed the diver was while being lifted and lowered by one of our "old timer" operating engineers at the controls.

A. Teichert and Son of Yuba City is the low bidder for construction of the last five units of the Feather Water District water distribution system.

The project is in the Tudor area where about 7,500 acres will be under irrigation with Feather River water. Expenditure is \$2,200,000 and takes water from the Feather River primarily through an underground pipeline system. The new construction is for the last of five units and the whole project is expected to be completed this summer. The Teichert bid was \$974,102.50.

MARYSVILLE PLANTS, SHOPS

Yuba Sand keeps the three regular employees busy with their dredge and sacking operation. The sand produced here is of high quality and used throughout the world for sand blasting. It's quite an honor to be employed for a firm that can boast this kind of recognition.

Marysville Rock at Hallwood is in high gear with seven #3 men on the payroll producing high quality material for concrete and road rock.

A. Teichert has the hot plant operating part time and the loader full time. The "green hornet" is due to replenish the depleted stock piles of all types of aggregates.

Baldwin's plant at Hallwood also is going now with their go-ahead crew of old time engineers, all positions are secure with #3 men at the controls.

Yuba Ready Mix and Midvalley have remodeled their plants in Yuba City and are producing "Grade A" material for the local area.

H. Earl Parker, Baldwin Construction and A. Teichert keeps a steady crew of mechanics in the shops overhauling the equipment for the local area as well as all of their outside operations.

At Diamond Steel in Yuba City the brothers are busy prefabricating everything imaginable; it's amazing the things our engineers can make with a cutting torch and welder. The same applies to our brothers at Yuba City Steel who are top notch at the trade. Marysville Scrap has four operating engineers on the payroll with business coming in from all directions.

OROVILLE PLANTS

Harms & Richter has four crews of good "high-ball" engineers on the payroll between the six locations, where they have plants. Baldwin's ready mix has our two loyal brothers busy with concrete and road rock. Oro-Ready Mix is keeping busy with local jobs with a bright future. New York Machine is coasting now with seven engineers of long standing, looks like a good year ahead here for this #3 union shop. Oro Scrap, one of the newly organized units, has four brothers on the payroll, this is a 100% Local 3 firm and deserves the patronage of all our brother members and union as going along as usual with #3

—Continued on Page 8

Nevada Area

Mild Winter Aids Work

By JIM JENNINGS, B. J. "BU" BARKS, JACK SHORT and GAIL BISHOP

RENO — Work around Reno near the State Line on Highway 40 has been moving along at a fine pace due to the very mild winter that the people in the Great Silver State have had this year. The Match-Wells Cargo lost a few days since starting a \$6 million dollar highway job.

The next major project to break in Reno will be the Fourth Street job, mainly consisting of structures. This job is due to break by the end of March and construction is due to start in early April. The Reno area is still booming with sub-divisions, housing developments, and a number of commercial buildings.

Cabildo Corporation started 95 miles of pipe-line between Fernley and Hawthorne. It is a six- and eight-inch line, which Cabildo expects to have completed in a total of 90 working days. At the present time we have approximately 25 Operating Engineers employed there.

The Vista Interstate Highway job is making a showing with the 54-Bucyrus and a 48-inch belt loader feeding a fleet of Eucs and belly dumps.

The sewer disposal site has been completed in Sparks, with access roads to the plant ready for oil. This is an Isbell project.

Now another portion of the \$12 million dollar project is under way in the Reno-Sparks area with Purtzer-Dutton Company starting approximately two miles of 48-inch interceptor lines.

Two new shopping centers are underway in Reno. The Stolte Company and D. W. Burge Company are the prime contractors in a 104,000 square feet of store and office space. Mayfair Food Company, Skaggs Drugs, and other shops will occupy space in this new project. The other large center was taken by H. Halvorson Company, with George Grifall Company on the excavation.

IN THE TAHOE AREA

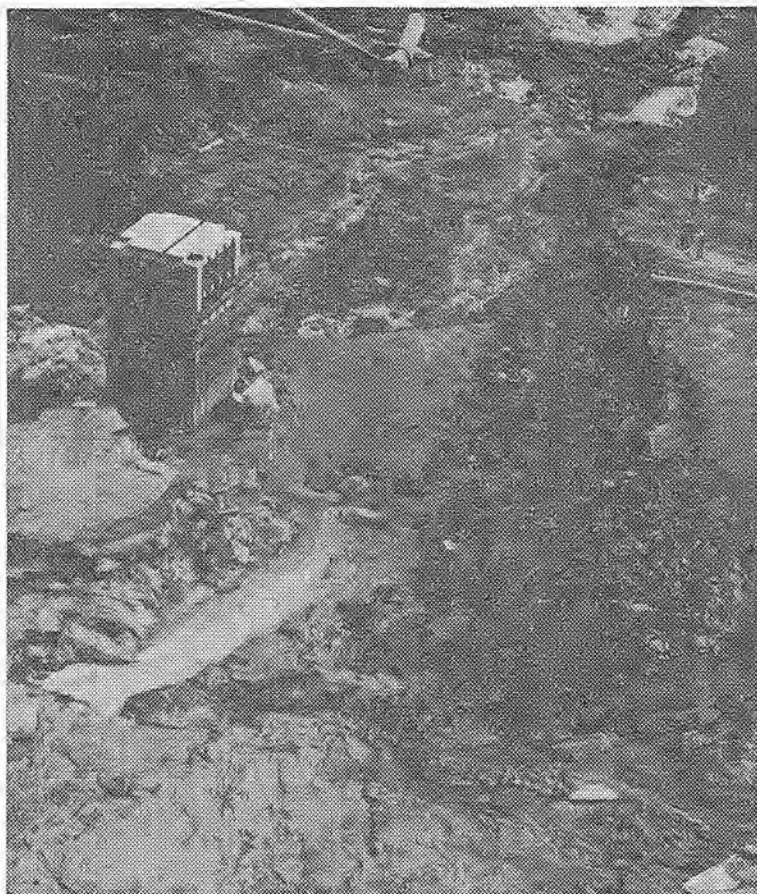
The Johnson and Mape job for Harrah's on the South Shore has several of the Brothers busy. Bill Young Trucking and Equipment Rental has Tex Boyd on a Michigan Loader. Chub LaMontague has his new John Deere backhoe on the project. Mel Lukin's crane is setting the steel.

BACK BENEFITS COLLECTED

The previous issue of the Engineers News noted there was some \$52,000.00 collected in delinquent benefits. At this time we are happy to report that there has been an additional \$7,000.00 collected in the past month, which brings the total collected to approximately \$60,000.00. Brothers employed by these employers during the period from July to October, 1963, will realize additional vacation checks.

ARBITRATION CASE WON

When a company decided to discharge Karl Schuckert, the case was brought to the attention of the representatives in the Reno the following were re-elected by the membership to the Grievance Committee: Executive Board member L. E. (Red) Warren, Lou Gates, Leonard Miller and R. C. Yturiaga.



DIKE COLLAPSE . . . here is the section dike which broke near Salt Lake City and Brother Engineers, 300 of them, in five days closed the gap. See story on this page.

300 Engineers Mend Break in Utah Dike

By ED HEARNE

A 300-foot-long section of the dike that surrounds the tailings pond of Kennecott Copper Corporation suddenly collapsed early in the morning March 18, releasing a flood of water, ice and mud over a broad area of Western Salt Lake County.

Cascading water knocked down a string of telephone poles, spilled over railroad tracks and tore up one line. Trains proceeded over this section at a slow speed for several days following. Fortunately no one was injured.

Late that day, contractors headed by Gibbons & Reed Company, has rushed equipment into the area at the break and started building a V-shaped emergency dike with the point of the V laying toward the pond to permit its use while the old dike was being rebuilt.

Kennecott was forced to lay off 2,300 men at the mine and 1,350 at the concentrators. The

Reno office. An attempt was made to settle it through grievance procedures. When this failed the case was referred to the main office in San Francisco where action was taken. After a short time arbitrators were chosen and a hearing was held in Reno. The arbitrator ruled in favor of Local No. 3 and Brother Karl Schuckert was reinstated on his original job, plus receiving all back vacation pay.

NEGOTIATIONS IN FALLON

We are also happy to report that a number of meetings have been held with the employees of Silver State Construction in Fallon, and with Dodge Construction shop employees in Fallon, where the representatives in that area have signed the employees as members of the Operating Engineers. We are in the process now of negotiations with Dodge Construction.

And by the time this News issue goes to press an election will have been held for the Silver State Construction employees voted 13 to 7 in favor of Local 3. At a recent district meeting in

men were called back to work, March 23, starting with the swing shift at the mine. 300 were members of Operating Engineers Local Union No. 3.

The 5,500 acre pond lies to the north of the Arthur and Magna concentrators and about 15 miles west of Salt Lake City. Surrounded by dikes 75 to 80 feet high, it serves as a container for 87,000 tons of tailings flushed into it daily. It is estimated that since the pond went into service in 1915, there have been almost a billion tons of tailings pumped into it.

Most of the water bearing tailings is carried from the mills to the pond by two large flumes.

The remainder is carried by a conduit system ringing the pond. The tailings are spilled into the pond through nozzles spaced along the conduit. This creates beaches which become part of the dike.

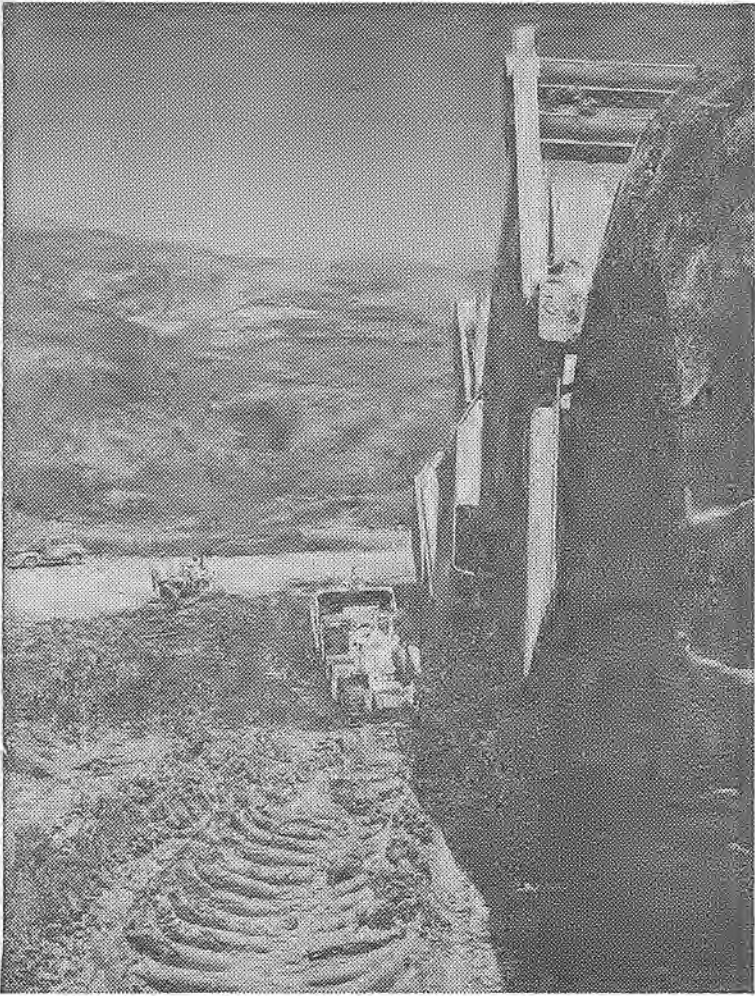
Excess water is drawn off through "dewatering towers" and pumped back to the concentrators through a large redwood pipe and reused. One of the dewatering towers can be seen standing high and dry right in the middle of the break.

Gibbons and Reed estimated the hole created by the break contained between 200,000 and 300,000 yards of fill. The dikes are not made of tailings but of material hauled from a hillside pit.

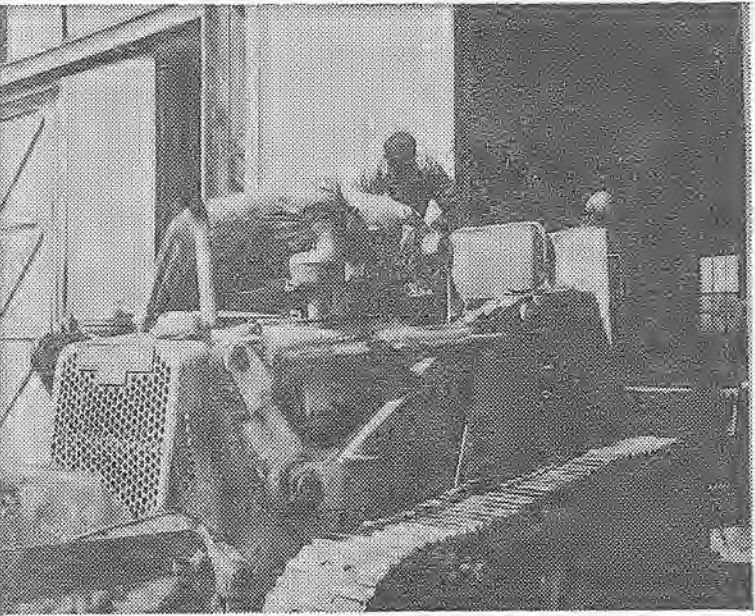
At this writing, repairs have been completed and all Kennecott employees are back at work, thanks to the efforts of the Operating Engineers who ran the many pieces of equipment rushed in by the contractors. There were so many rigs on the job that it resembled ants on a piece of candy.

Most of the men rushed to the job have since been laid off but we feel that the community owes them a special thanks for getting the job done with such haste. They worked around the clock under adverse weather conditions such as sub-freezing temperatures and snow but did not let it slow them down.

Congratulations, Brothers!



BIG WHEEL . . . A close up of a SS40 Euclid scraper is shown at Briones Dam near Orinda in the East Bay. Notice the tracks to the left.



REPAIR TIME . . . Mechanic trainees at Camp Roberts are shown working on a clutch on this International Tractor in the garage at Camp Roberts.



CLOSEUP . . . of trainee at Camp Roberts getting the feel of this Euclid scraper while he churns over the terrain of the 144,000 acre World War II basic training army base.

Power Plant Cost State 37 Million Dollars

Continued from Page 7—

brothers in command. The Mathews Ready Mix at Gridley has added some more Local 3 men to the payroll which we are sure will satisfy all concerned.

CHICO PLANTS AND SHOPS

A. Teichert has the same smiling faces around the batch plant and shop at Chico and the crusher at Hamilton City. Concrete Conduit Inc. has been renamed Hydro Conduit with no change in

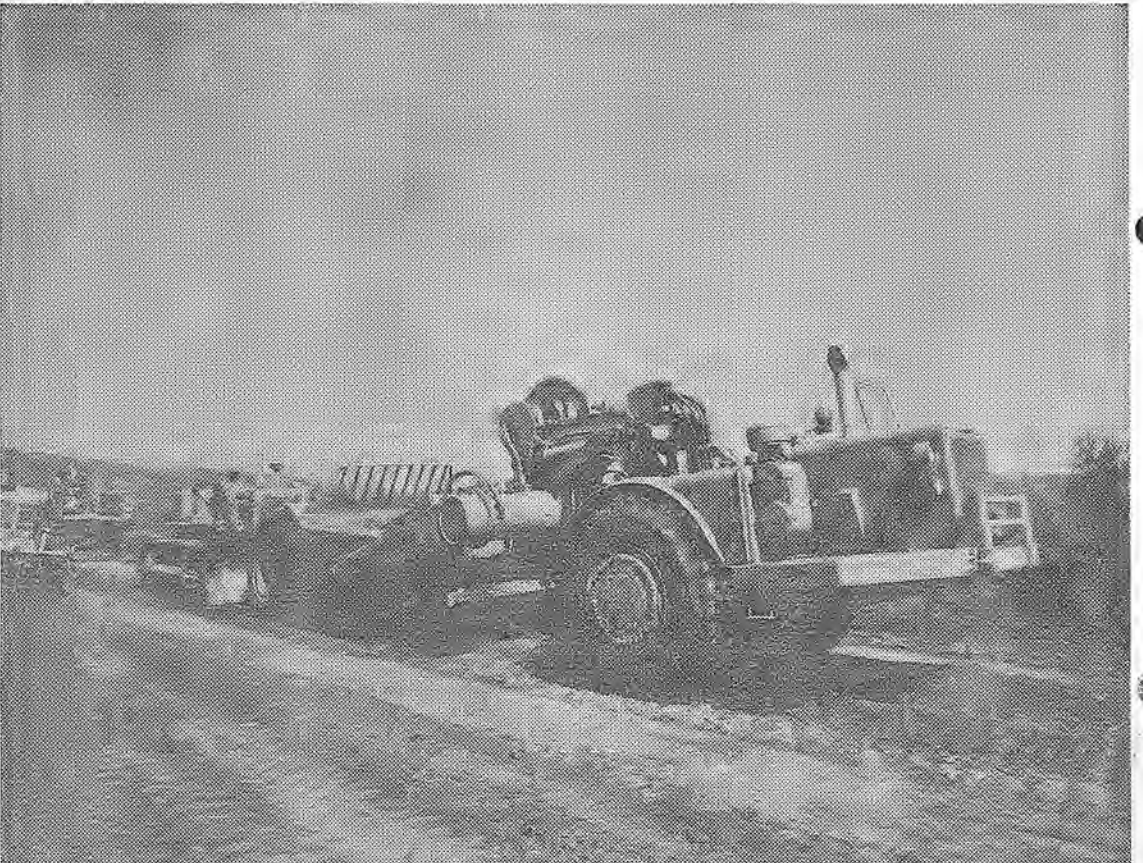
personnel. Butte Creek Rock started aggregates rolling with all old-timers back at their regular positions; everything has been overhauled this winter to a precision finish by our mechanic brothers. The Peterson Tractor is busy with no lay offs and looks like these boys will find lots of "wrenching" to do this coming season. The new airstrip is finished near the shop headquarters.



DIGGING IN . . . silhouetted against the clear sky at Camp Roberts is this Cat Scraper and Pusher. Trainees are in the field from 7:00 in the morning until 5:00 p.m.



SKULL SESSION . . . Engineer trainees receive a chalk talk in the field from Instructor Veryl Dawson.



BITING IN . . . This rubber tired Caterpillar Scraper is shown leading a procession of equipment in simulated earth moving runs.

San Mateo in Recap of Work For the Year

By BILL RANEY,
MIKE KRAYNICK

SAN MATEO — With convention talk going around it may be a good time to pause and reflect on the progress in our district. This will also serve to inform our convention delegates about "what's doin' down San Mateo way, The Hub of the Peninsula."

Headlines of the greatest year ever.

1. 1000 acre fill from South San Francisco.
2. \$500 million Foster City site — 2300-acre fill.
3. \$1 Billion Dollar Fill Job that dwarfs Foster City.
4. \$114 Million Linear Accelerator to cost \$200 Million.
5. Dozens of miles of freeways at \$1 Million per mile. Overpasses blossom overnight.
6. Numerous multi-story buildings in a county where only one 9 floor building existed a couple of years ago. Now building 11-17 and 15 floors are being erected at once with more and larger scheduled before the year is out.
7. 100-home subdivisions are as passe' as super markets, that are being opened every weekend.
8. 1000 home subdivisions are barely noticed.
9. Major pharmaceutical firms moving here are creating a major drug center of the world here.
10. Electronic firms have flowered fantastically.
11. Yacht Harbors are so in style many are on the way out before others are started.
12. Increase the size of a new college and build 3 new campuses.
13. Build an apartment city where Tanforan Race Track stands.
14. A 4000-unit \$65 Million apartment "house" in Westborough.
15. A \$10 Million garage to add to a multi-hundred million dollar airport.
16. Three inches of snow on Skyline Boulevard.
17. Two major San Mateo County dirt jobs go multiple shift on same day.
18. Six major dredging companies at work in only 20 miles of shore line: Hydraulic, Shellmaker, Olympic Dredge, Utah Dredge, Healy Tibbets and Dutra.
19. A major trans-bay bridge at San Mateo is being completed with addition of the high level structure at present toll plaza.
20. San Francisco Airport preparing for Supersonic Jets!

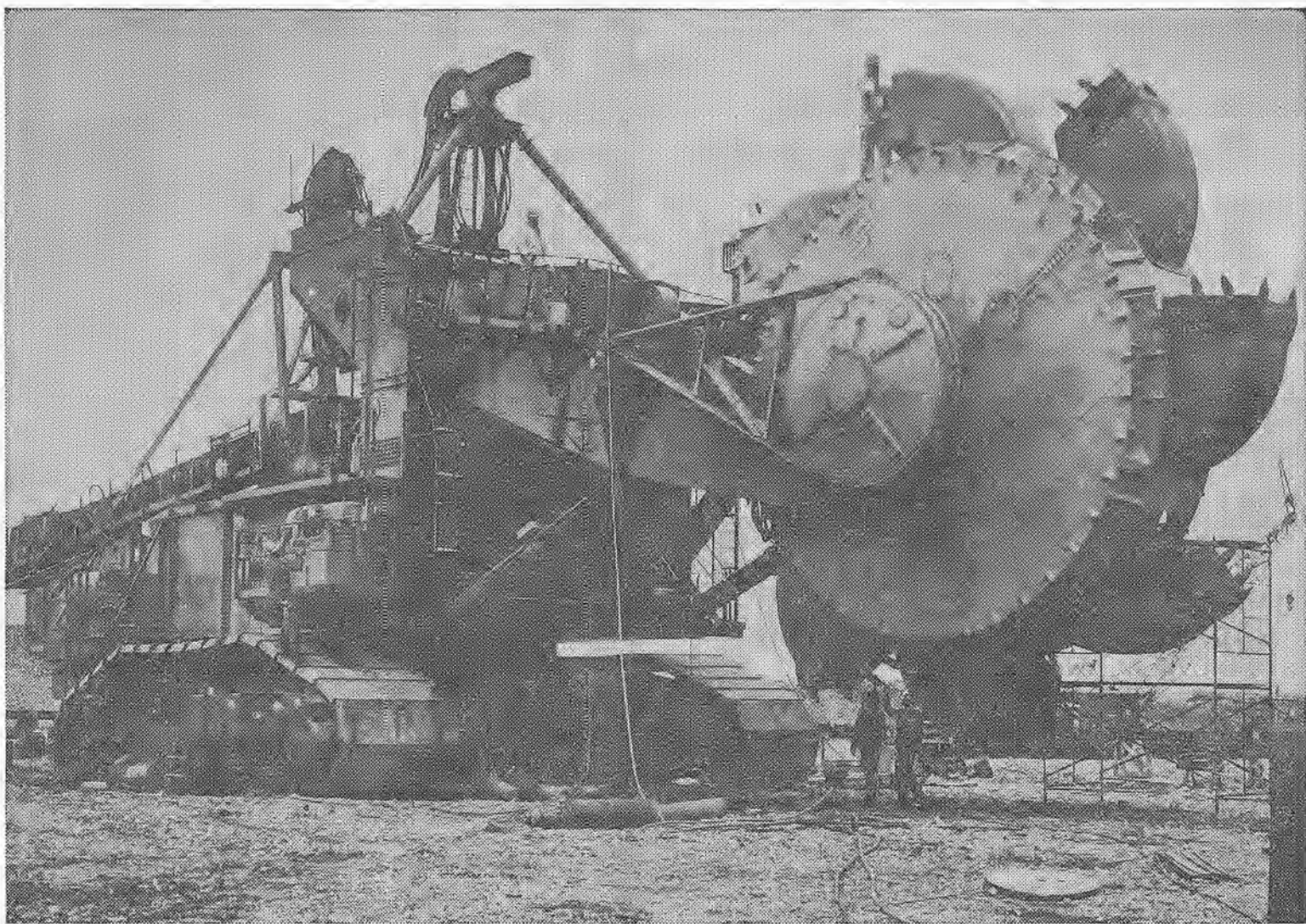
These items are major events or improvements presently in progress or due immediately here, now, in one geographically small county adjoining the City of San Francisco. The problems, trials, tribulations of your union alone are fantastic. The negotiations, dispatching, policing and settlement of beefs with sub-contractors alone are myriad, all of which makes for 1964 to be the biggest year ever for the brothers of Local No. 3.

This month we have been carried away by the enormity of it all. Next month we will attempt to get down to earth and get back to discussing our children's tonsils. In addition to your San Mateo staff's regular duties, we have recently taken a new service. A branch of your Credit Union is in full working order and all engineers and their families are urged to stop by to see us and start your savings plan.

The Manpower Development Training Act, M.D.T.A., thing at Camp Roberts has been a shot in the arm to many San Mateo Brothers. All graduates are returning with praises for the program.

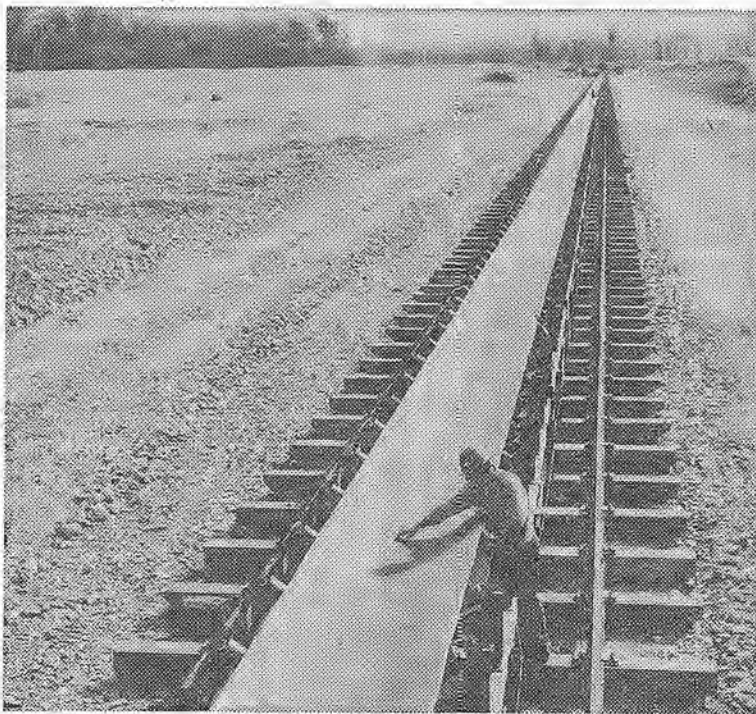
Jake Gold from the U.S. Government Department of Labor has been back with us briefly with his usually wonderful message on Safety. Your officers arranged for a brief seminar for the brothers recently in San Francisco.

San Francisco has a TB rate double that for the state of California (San Francisco—64.6 per 100,000 population; California—29.4 per 100,000 population).



NEWEST DREAD-NAUGHT . . . resembling some prehistoric age iron monster, this mechanical wheel begins chewing into 77 million cubic yards of earth at the site of Oroville Dam construction. "The Wheel" will move 5500 acres of gold dredge tailing beside Feather River in Butte County for the earth fill embankment of Oroville Dam and will average 5700 tons per hour. A special band-wagon conveyor, shown below,

and transfer conveyor will move the tailings at a speed of 10 m.p.h. over a mile long track to a station where trains will haul the material eleven miles upriver to a dam site. The entire project will keep Operating Engineers working around the clock for nearly four years. "The Wheel" is claimed to be the most sophisticated yet seen in this type of construction.



OROVILLE DAM MAY RISE TO 742 FEET

Oroville Dam designed for 735 feet, may be 742 feet high when finished, according to Donald Thayer, designer for the dam.

Asked concerning rumor prevalent for some time here that the dam would be anywhere from 7 to 12 feet higher than originally designed, he said that some "detailed modifications may result from studies being made, but there will be nothing radical." Also, that a decision to increase the height "isn't fixed" yet. If it is raised, he said it will be "only a few feet" and he indicated that seven feet has been discussed.

HEIGHT WON'T AFFECT DEPTH

According to Thayer, even if the dam is increased in height it will not affect the depth of the water at the dam. Thus it is speculated that the purpose of the change in specifications is

probably to make it possible to change the spillway opening, narrowing it to cut the cost of steel to be used there. The dam can be raised seven feet at less expense than the money involved in a wide spillway.

Another interesting factor is, would the West Branch Bridge, now under construction allow a raise in the lake, or would this bring the water level too high? This is why it has been carefully pointed out that an increase in the height of the dam would not result in a rise in the level of the lake only in time of great run-off volume.

If the height of the dam is raised seven feet, the width at the top probably will be reduced, maybe 28 feet. The width has been specified at 80 feet. A reduction to 52 feet would still be sufficient to accommodate a forty-foot roadway, if indeed the



roadway is along the flat surface at the top. It might be along a flat surface along the downstream of the dam.

OROVILLE DAM TRAINS

If all the reports we hear are correct, the Oroville Dam Constructors should have their trains running on a complete operating schedule about April, 1964. The complete operation will include three trains running to and from the dam site every 20 minutes, 24 hours a day, for the next four years.

The 10 car loader in the tailings area of Thermalito has been switched to an automatic operation, up to this time it has been operating manual in order to iron out the initial problems of the system.

All operations are set on "Go" toward the day when the system will carry over 77 million yards to the dam site and raise the world's highest embankment dam to its record 735 foot height.

OROVILLE TURBINE PACT AWARDED

A \$3,766,785 contract to provide turbines for the Thermalito power plant at Oroville Dam was awarded by the Department of Water Resources to the Allis-Chalmers Manufacturing Company. The contract calls for them to furnish and install pump turbines and a Kaplan turbine and governors at the power plant.

Work is scheduled to be completed in October, 1968, and bids to build the plant itself are expected to be called next July.

Apprentice Corner

Central Administrative Office To Handle Reports

Beginning April 1, 1964, all work process, school attendance and school grade reports are to be sent to the Central Administrative Office, 476 Valencia Street, San Francisco.

The office will handle the reports directly. The deadline is the fifth of each month to receive credit for the previous month's work.

Any applications which are misssent to local offices will be forwarded to the Central Office. Applications only still will be distributed at local offices and these must include a copy of a high school transcript, proof of military service, if any. Any past employment to be claimed should be accompanied by statements from employers. This too must be presented to receive credit for hours worked in each category so that the Sub-JAC may evaluate the applications.

Friday, March 20, saw the first four apprentices graduated from the Operating Engineers Program. Along with a large number of employers, union representatives and friends they were honored with a dinner at the Bermuda Pelusos in Oakland and awarded their completion certificates by the State.

That is, three of them did. One, Les C. Ferrari, was awarded his by proxy, he being in the service and unable to be present. Diplomas for the Joint Apprenticeship Committee will also be awarded later as they were not completed by the printer in time to present at the dinner.

Graduated were: Les C. Ferrari, Grading and Paving Operator, Indentured Oct. 2, 1961, completed Sept. 18, 1963, approved by JAC Nov. 20, 1963.

Phillip C. Filipelli, Grading and Paving Operator, Indentured Feb. 2, 1962, completed March 11, 1964, approved by the JAC March 18, 1964.

Donivan Lee Hokett, Heavy Duty Repairman, Indentured Oct. 1, 1962, completed Sept. 18, 1963, approved by the JAC Nov. 20, 1963.

John Willingham, Grading and Paving Operator, Indentured Oct. 2, 1961, completed Sept. 18, 1963, approved by the JAC Nov. 20, 1963.

Dan Giles, Dinwiddie Construction, and Chairman of the Joint Apprenticeship Committee, was Master of Ceremonies. Speaking to the assembled group and congratulating the graduating apprentices were:

Morris Skinner, acting regional director, United States Bureau who outlined the Federal Government's role.

Charles Hanna, Chief, State Division of Apprentice Standards, explained briefly the State's part in the program and that California has the largest number of indentured apprentices of any State in the Union.

Ernest B. Webb, Director of the State Industrial Department, commended the graduates and cited the need for skilled craftsmen. He compared his own early apprenticeship training with today's sophisticated approach to instruction carried on in classrooms in California.

Awarding Certificates of Completion were: Al Clem, Business Manager of Local 3, who, in making the awards, briefly outlined

the start of the program in 1960 by State Division of Apprenticeship Standards and by negotiations with the Associated General Contractors and the Engineers and Grading Contractors Association of Northern California.

He pointed out since its inception the program has grown from "only a handful of trainees to over 600" in eleven school areas of Northern California.

Administrator Dees announced that he has assigned to Assistant Administrator Van Winkle the direction and coordination of all educational services of the Joint Apprenticeship Committee.

Surveyors Graduate Trainees on May 20

Again we remind you there are two apprenticeship programs administered by the Apprenticeship Office. This one is the Northern California Surveyors Joint Apprenticeship Committee which is composed of six representatives of the Bay Counties Civil Engineers and Land Surveyors Association, Inc., and similar number from Operating Engineers Local 3.

Chairman of the Joint Apprenticeship Committee is Phil Lygren, a representative of the employers who does business under his own name in San Mateo and San Rafael. Secretary of the Committee is Arthur A. Pennebaker, a representative of the Union and who also serves them as a business representative.

In conjunction with a similar Joint Apprenticeship Committee in Southern California composed of Operating Engineers Local 12 and the Civil Engineers and Land Surveyors of California a State Joint Apprenticeship Committee for Surveyors has been established.

Chairman of this State Committee is Arthur A. Pennebaker and Secretary is Ralph Hoyt of the above mentioned Bay Counties Civil Engineers and Land Surveyors. Vice Chairman is Milton Jeanney, of the Southern California Employers Association.

Under this State Wide Committee rapid progress is being made in the preparation of the Instructional Material for the Off-the-Job Related Classes. All the preparations has been contracted with competent writers and by next September all four years should be received, corrected or amended, edited and printed and ready for the Fall classes.

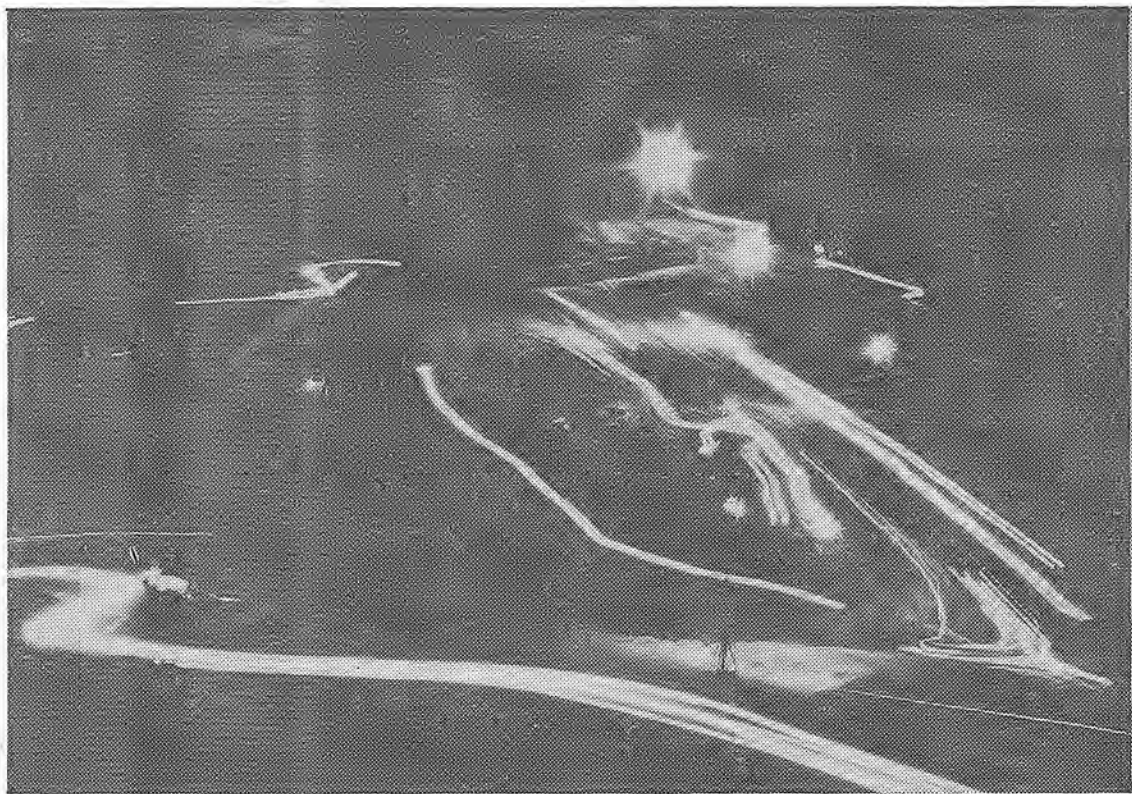
During the California Conference of Apprenticeship, May 20, at the Jack Tarr Hotel, San Francisco, the State Committee will hold a meeting at which most material will be ready for preliminary approval.

WORK OF COMMITTEES EXPLAINED

For the benefit of those who do not understand the program, here is an outline of the committees:

The Northern California Surveyors Joint Apprenticeship Committee has the overall supervision of the plan, the establishment of all policy and the approval of all actions made in its behalf.

Assisting the Joint Apprenticeship



TRACERS . . . like tracer bullets at night, equipment is being run around the clock by Operating Engineers in this picture at Briones Dam in Orinda which will store 22 million gallons of pure Sierra water.

Work Tempo in Stockton Area To Accelerate

By WALTER M. TALBOT,
AL McNAMARA,
and GLENN DOBYNS

The slow pace during the past three months, finishing up old work and small jobs, will soon increase in tempo due to the advertising and letting of new work and the advent of warmer weather.

The largest of the new projects to date is the letting of ten miles of new canal construction, a part of the California Aqueduct System sponsored by the Department of Water Resources. Western Contracting Corporation of Sioux City, Iowa, is low bidder at \$7,775,000.00. The job consists of six million yards of excavation and 1,150,000 yards of compacted embankment.

The Bear Creek job, north of Stockton, that was scheduled to be let March 5 by the U. S. Army Corps of Engineers, was delayed until March 26 with Elmer Wendt, Inc., of Rio Vista low bidder at \$859,630.00. This job is approximately five miles in length between Highway 99 on the west end and Harney Lane on the east end.

Bids will be opened April 22 by the State Division of Highways for the first portion of the West Side Freeway in San Joaquin County. This project is budgeted at \$4,600,000.00 to construct 7½ miles of new freeway between the Western Pacific Railroad near the Alameda Coun-

ship Committee are Sub-Joint Apprenticeship Committees. These Sub-Committees are appointed by the Joint Apprentice Committee from among nominees of the parties to the Apprenticeship Program.

The Sub-Joint Apprenticeship Committees, sub-JAC's we call them, perform the initial work of the program. They call applicants, interview and evaluate and make recommendations regarding them.

These sub-JAC's call the apprentices for review of progress and recommend disciplinary action or advancement necessary. They have general supervision of apprentices.

ty line and Chrisman Road, west of Vernalis.

Also in April, the 21st to be exact, bids will be opened in Sacramento by the California Youth Authority for the construction of the first phase of the new institution to be located on Castle and Weber Roads, southeast of Stockton. This bid will be for a 400-bed unit of what eventually will be a cluster of 12 separate institutions within the center. The first contract is expected to total \$5,000,000.00.

Valley Engineering of Fresno was low bidder to the city of Tracy at \$179,776.00 for an industrial sewer line to be built to serve the new Laura Scudder Potato Chip plant. This job entails construction of three miles of industrial sewer line and will serve the entire Western Pacific Industrial Park area in Tracy.

Chicago Bridge and Iron should have their two tank jobs underway by the time this article is printed. One job is a water storage tank for Libbey-Owens-Ford Glass Plant near Lathrop, and the other is for Holly Sugar to store raw sugar at its plant near Tracy.

The Federal Housing and Home Finance Agency is calling for bids on April 15 for the demolition of approximately three blocks of sub standard buildings in Stockton.

Sealed bids will be opened by the State Division of Highways on April 8 for the grading and paving with concrete pavement on cement treated base between Ceres and Modesto. This is about seven miles of four- and six-lane freeway to be paved.

The old jobs that are still in progress in the district are the same that have been reported in several past issues of the Engineers News, with very little change in personnel.

In view of the new work that has been reported and more to be let in the immediate future, we expect this district will again be humming with activity.

The first group from this area has returned from a six weeks retraining course at Camp Roberts and is quite pleased with the program. The second class is now in progress with 11 members of the Stockton-Modesto district attending.

Brother Roy Wood, who is seriously ill, requested two pints of blood recently, only to be told that the bank was depleted.

San Rafael in Spring Mood

By AL. HANSEN

SAN RAFAEL—In last month's report, we talked of the recent storms which had hit the county hard—but at this writing, we are happy to report that the good spring weather has arrived, and we hope will get the jobs back in full swing. The following is a rundown on jobs:

Syar & Harms-Gordon Ball will be rolling right along on their Hamilton Field job the rest of this year.

Peter Kiewit job at Black Pt. moving right along also.

Murphy-Pacific Corp. still driving piling at Richardson Bay, and they will be on this job for some time.

Dinwiddie Construction going right along on their new Bank Building on 4th and B in San Rafael.

C. D. Madsen with a few jobs going around the area.

E. A. Forde also with a few jobs going around the area.

Operated Equipment going with small jobs.

Peter F. Giordano and Sons trying moving along on their county road job at Nicasio.

Linscott Company trying to keep the boys going around the county.

Kelly Brothers with a few jobs—also around the area.

Batista Landscaping finishing at Marin City.

Piombo Brothers finishing small job at Tamalpais Valley—from there they will move to a new job at Strawberry Manor—they have about 30,000 or 40,000 yards of fill to move.

Merz Brothers have a subdivision at Reedlands, about 60,000 yards on this job.

O. C. Jones got a concrete bridge job on the Lagunitas Road.

Chicago Bridge & Iron were recently awarded a storage tank job located in Bolinas.

Altermatt Company also received a small pipeline job at Bolinas.

Soiland Company picked up a small job at Hamilton Field, and still have a few jobs around the county.

Chilotti Bros. with a lot of small jobs still going, and a county road job at Lucas Valley. They are doing fast work of demolishing two old landmark buildings in San Rafael—one on Mission Ave. and one at 5th St. near County offices—Bro. Jim Rowlette at controls.

Finn Construction and Equipment taking over all of Radkovich Company's jobs in Marin—at present have a job going at South Marin subdivision—and they will be there for some time.

Brown-Ely Co. with a few jobs around the county going.

Bobo's also trying to get a few jobs done in the area.

Watkin & Sibbald trying to finish their landscaping job at Terra Linda.

John Graves with a few jobs here and there in the area.

K.D.N. trying to make headway on job located in Novato-Kedan Park.

Lühr-Wendt is started on a job at Bel Marin Keys, Ignacio.

Wilford Construction in Marin for a few weeks—on Hwy. 101 at Richardson Bay.

The United Sand and Gravel "Sand-piper" has only a few weeks left on the fill job in San Rafael flats.

Again we urge you brothers who can physically spare a pint of blood to donate it to the club in order that you or your friends can draw on it if needed.

McCloud Dam Tunnels, Fill Is Starting

By WARREN LeMOINE and
C. L. McGETTRICK

Peter Kiewit has started the McCloud Dam with 3 shifts on the diversion tunnel. To date about 150 feet of the total 1400 feet is completed. There are approximately one million yards of fill and ¾ million yards of excavation in addition to six miles of access road to complete. This is another portion of the big Pit-McCloud Project.

Harms Brothers were low bidders on the 7.9 miles of highway on the Cedarville road in the amount of \$917,528. When in operation this job will take six dozers, three euclids and four compressors. Monty Brown of Redding will do the crushing of the base rock and plant mix.

Osborn Construction Company of Redding submitted low bid of \$124,045 on a contract to raise drum gates at Shasta Dam. The contract calls for adding steel flashboards to the top of the drum gates over the spillway at the dam. The work will raise Shasta Lake by two feet.

Fredrickson and Watson is ready to start five miles of four-lane freeway at Red Bluff. Most of the Brothers who have worked for the company on the Mt. Shasta job will be moving down to work on the Red Bluff job. Lord-Bishop, also a part of this project, will start the bridge work at Red Bluff around the first of April if weather permits. Les Houghtby and Son of Red Bluff will supply all the gravel and concrete for this project.

Preston Construction is about to complete its sewer job in Anderson and expect to move directly to Doris for a three-month job there. The job at Anderson has been a close to home pay day for a few of the good Brothers.

SAND PLANT

Morrison-Knudsen has taken over the sand plant at Hat Creek for J. G. Shotwell. Falling short of sand for Morrison-Knudsen two dams, five or six of the Brothers took a pay check home in the amount of \$500.00 for one week's work. The plant now is going three shifts so the job will be a steady one for a few more of the Brothers.

Morrison-Knudsen has over 200 Brothers working three shifts pouring concrete on Pit #6 and Pit #7. To date 94,000 feet have been poured on Pit No. 6 and 116,000 feet on Pit No. 7. There is still a total of 425,000 feet to be poured. The company is expecting another Crane to help out and pour each end of the Dam on Pit No. 7.

CREDIT UNION

We want to think all the members and their wives for attending the meeting held at Redding to hear about the Operating Engineers Credit Union. The members may now enjoy systematic savings and also low interest bearing loans. If you haven't joined the Credit Union as yet—contact your local branch today and we'll explain it to you.

ENGINEERS NEWS

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New Projects For Vallejo

By AARON SMITH

Heavy rains the past few days slowed work in Vallejo. However, the outlook for 1964 is still good although a little later starting than originally anticipated. Among the jobs to be let are the following:

Solano County, between 1.0 miles and 2.1 miles northeast of Route 101 about 5 miles southwest of Davis, a net length of 1.1 miles to be graded and surfaced with asphalt concrete on cement treated base and one overcrossing to be constructed. This is just above the completed Fredrickson Watson Job Highway 40 by Dixon. Bids to be opened April 15, 1964.

The long awaited Benicia Cordellia Freeway job is open for bids. This is the 12-mile stretch between the Benicia-Martinez Bridge to Cordellia Highway 40. Along with the freeway there will be 5 bridges. Bids will be opened April 29, 1964. Estimated cost 10 million dollars.

Tentative approval has been given by the Solano County Supervisors for 4½ miles of Freeway on Highway 40, scheduled for 1964. Bids are tentatively scheduled to be called for in May at an estimated cost of 2.5 million dollars, taking 1½ years to complete.

The U. S. Soil Conservation Service announced bids will be taken for channel improvement of the Napa River at an estimated cost of \$358,000.

Low bidder on 200 houses for Mare Island was J. W. Bateson Co. of Dallas, Texas. The bid was 4.9 million. The 200 houses will be constructed in the vicinity of Mare Island Elementary School. Twenty-eight are to be with four bedrooms and two baths, the remainder three bedrooms and two baths. Included in this bid are 100 houses to be built in Concord. The total bid included all 300 units.

Several small jobs have been let in the past couple of weeks, one to Syar and Harms for curbs, gutters and sidewalk drains on Brown St., Vacaville at \$44,775.

To O. C. Jones and Sons for Maintenance Roads at Travis AFB, Calif., \$71,786.

To A. R. Reid of Richmond, improvements Travis AFB cost \$29,750.

To C. D. Madsen alterations building 249 Travis AFB, \$10,222; also, Mare Island Naval Yard Water lab and material Test Facilities, \$10,865.

To Bill Gattung Inc., Fairfield sidewalk repair Travis AFB, \$9,178.

To Bay Electric Co., of San Carlos for additions and alterations to electrical system dept. of Agriculture, Napa, cost \$25,000.

To Williams Const. Co. of Vallejo for extension between Linda Del Mar unit 1A and Benicia Road Vallejo for Extension of Rollingwood Drive, Cost \$28,815.

To Slinson Const. Co. of Napa for Apron and Taxi Striping at Napa Co. Airport areas H and J, cost \$11,688.

No firm award of the contract for the Marnia Vista Prospect, Vallejo, as yet, Parish Brothers of Benicia were low bidders at \$4,127,000.

Playgrounds and recreation facilities are always overcrowded in all cities but work on March 9 helped remedy this in Vallejo.

The old Madren Field ballpark in Floyd Terrace was available for the Peanut League ball team but the field needed a face lifting and no funds were available. So Brother Clyde Plymell, a contractor in Vallejo, who has no children of his own, volunteered his equipment for this project. In turn, Brothers Ballard Clark and James Gentry donated their time to operate the equipment. As a result many happy little peanut leaguers have a new field to play on.

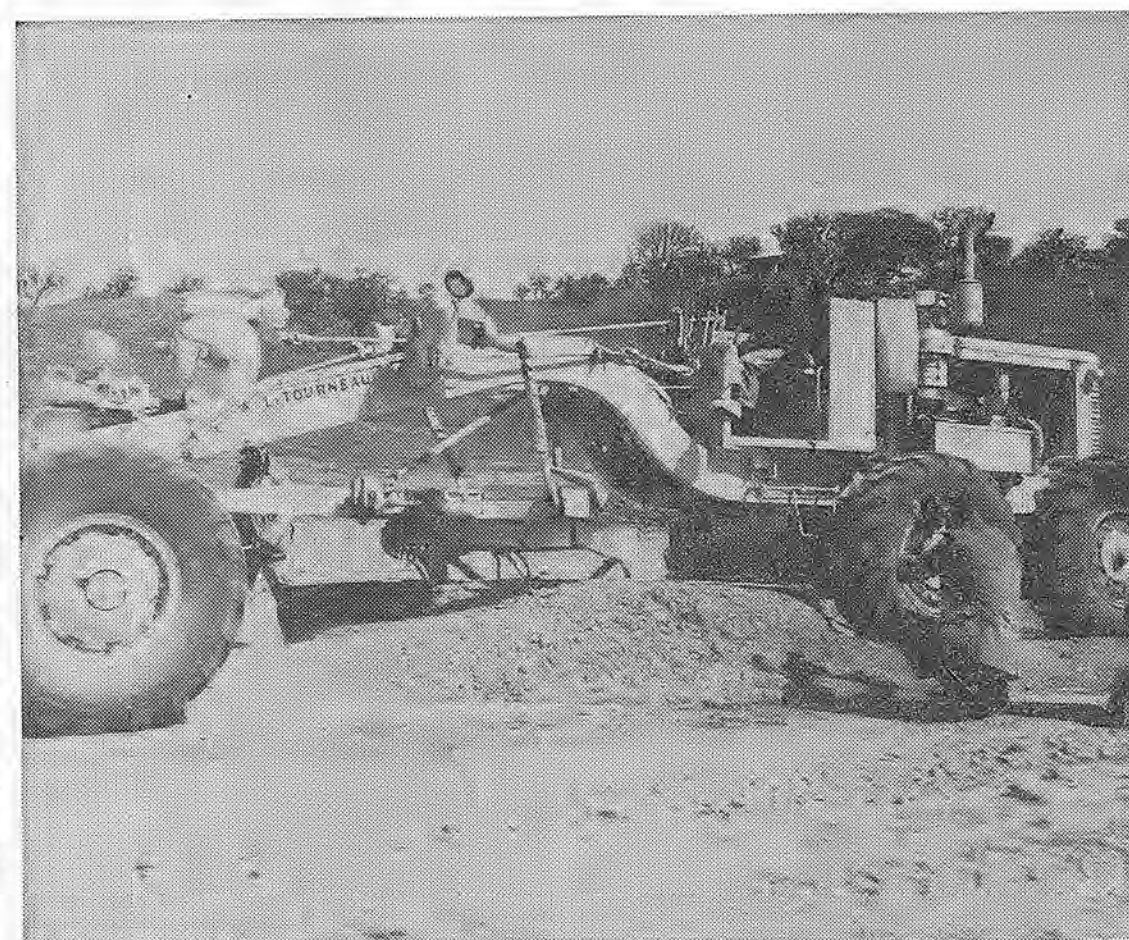
Our many thanks to you Brothers for donating equipment and time so that all Children will benefit.



TERMINAL . . . this is the entrance to California's newest jet airport in Oakland. Millions of yards of fill went into completing the site and Operating Engineers handled the dredges.



AERIAL VIEW . . . the intake channel on the California Aqueduct Canal project near Byron. This is part of the State Public Water Resource Program to develop the California Water Program. Work is being done by Peter Kiewit, moving over 11 million yards.



PRESS DAY . . . Terry Morrison, kneeling right, of KRON-TV in San Francisco, is shown making a movie clip of a good Brother from Eureka. A five minute segment of Camp Roberts appeared on "Bay Region Report" on March 21, 1964.

Eureka Still Waiting For Break in Weather

By RAY COOPER and
H. L. "Curly" SPENCE

EUREKA — Our apologies for not having a report from this area in last month's Engineers News. The report was written and submitted, but somewhere along the line it was misplaced or accidentally left out.

Thru the winter months, our column was probably sounding like a broken record anyway—and again we repeat; we have a heavy work load this year and we are anxiously waiting for the weather to break so we can get started.

We are pleased to see that the State is letting these Hi-way jobs early in the year, instead of waiting until the season is half over.

Granite Const. Co. was low bidder of \$5,868,619.00 on the Blue Lake Freeway on Hi-way 299. This job consists of grading, paving and eight structures of 4.5 miles of four-lane freeway and should be completed within the 230 working days allowed. This will be the first one of seven units planned for the development of U. S. Hiway 299 in the next several years.

By the time this Engineers News issue reaches you, the Sylvandale to Dean Creek Freeway job will have been awarded and also the job on Route 96 between Willow Creek and Weitchpec.

Hoffman Construction started work on their 30 million dollar Pulp-Mill for Georgia Pacific and at the present time we have about 20 Brothers on this project and we anticipate having another 30 at the peak of the job. There will be 1200 men of different crafts involved in the construction of this mill and it is scheduled to be completed in one year.

We have four local sub-contractors doing the excavation work; Mercer Fraser Co., Maurer & Sons, Tom Coy and Ilmars Lagzdins, Civil Engineer.

Clifford C. Bong with a bid of \$318,600 was awarded the jetty job in Crescent City.

Nielson-Nickles Co. of Sacramento with a low bid of \$1,044,000 was awarded the construction of the addition to the Division of Hiways building on Wabash St., Eureka.

Ben C. Gerwick has moved in—driving piling for the over-crossings on the Granite Const. job at McKinleyville.

On the Eureka Jr. High School site where C & N Const. Co. is the prime contractor for the grading and drainage work, C. H. Cervantes Co. has the sub-contract to put in all the drainage pipe. Cervantes has quite a crew working between showers, a couple small dozers, a ditching machine and a backhoe.

The Wunderlich Co. on the Hi-way job at Klamath is working a few clearing-cats and its shop crew is waiting for the weather to break.

In Petrolia, C & M Const. didn't get much done on the Hi-way job this winter, but hope to get off to a good start in the near future.

On the Mattole river, near Petrolia, Dave Wilkins Co. has completed its rip-rap job along the Mattole river. This was a complicated job when the river was high, making the work dangerous.

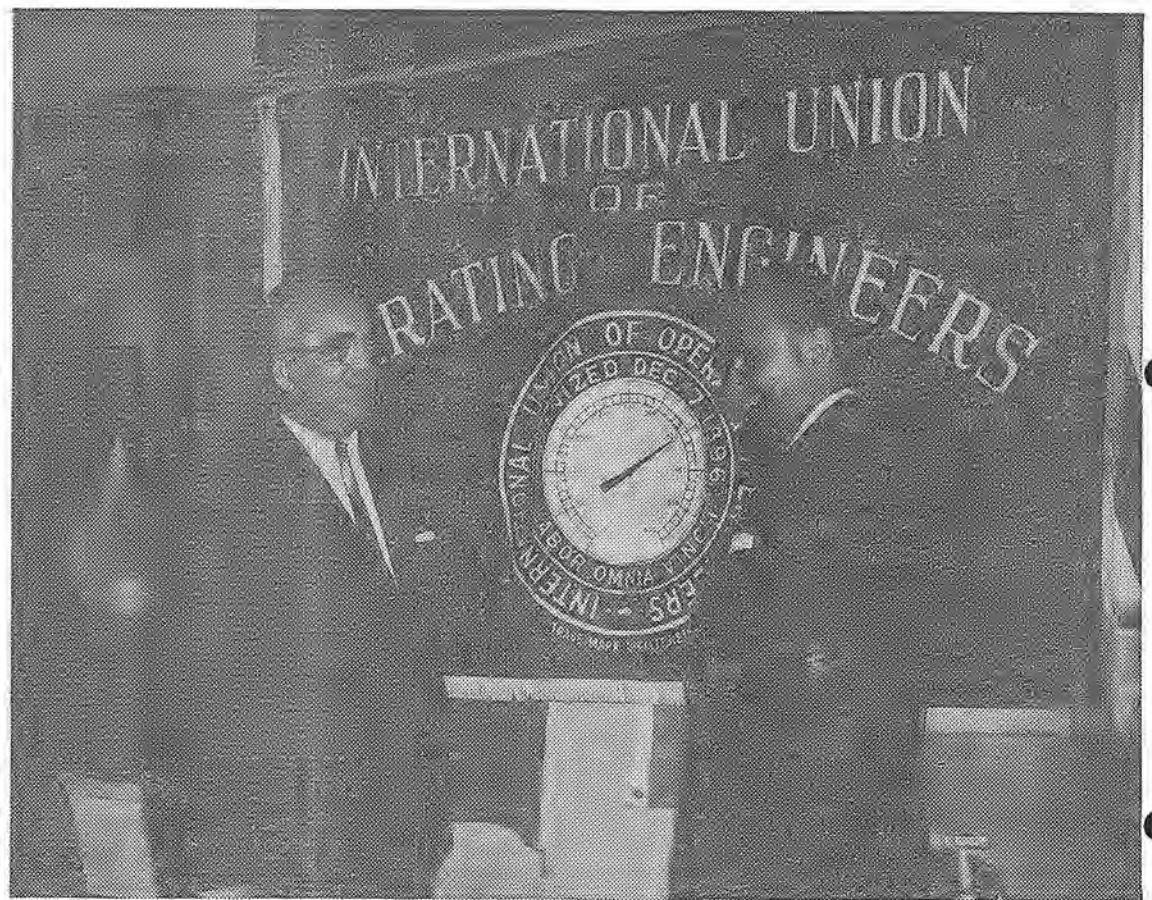
The Hooker Co. has finally got its job in good shape from Arcata to Samoa. Hooker Co. has kept a skeleton crew at the plant in Arcata most of the winter. Their job from Ferndale to Fernbridge has been shut down most of the winter.

Up in the steep country where Casey & Lind Const. Co. is building a Hi-way between Bluff Creek and Orleans, the slides are continuing to slide at every cut that has been opened on this job. There is a fine crew of Brother Engineers on this job, which is appreciated by this company.

R. C. "Spike" Melohn has some of his rigs working around the Eureka area on the Housing project. Brother Melohn usually keeps a few brothers working during the slow season.

Selva Const. Co. has two crane crews working for Tim-Con Const. Co. at Samoa on the Georgia Pacific new saw-mill. This has been a winter job for the Brothers.

Al Goodlin, Sr. and Al Goodlin, Jr., father and son combination of the A & W Welding Service has one of their self-designed Telescopic Boom Trucks on Bum-



INSPECTION TOUR . . . General President, Hunter P. Wharton and Local 3 Business Manager Al Clem paused during a recent tour of Camp Roberts where 150 Local 3 and Local 12 members are finishing up a six weeks retraining class.

stead-Woolford Co. job at Georgia Pacific saw mill job at Samoa.

Mercer Fraser Co. is working a crew of Heavy Duty Repairman, getting its equipment ready for the Big 1964 Season.

Pialorsi Const. Co. has three back-hoes, two Michigan loaders, one ditching machine and a pavement breaker on its sewer job in Eureka. Len Duarte is in charge of this job.

Crooks Bros. has started back to work on its clearing job at Pepperwood.

Gil Const. Co. from Pacheco, California, is moving right along with its swim-pool and recreation center on the beach-front in Crescent City.

The grade setting school got underway February 6th with a well attended class which continues to grow each time. Classes are held every Thursday evening 7-9 P.M. at the Engineers Building. Brothers Gene Forth and Earl Begley are instructors of these classes and are doing a fine job.

Sacramento Report

By ERNIE NELSON, AL
DALTON, CLEM HOOVER,
TOM ECK, DAVE REA

SACRAMENTO—While we're waiting out the normal rainy season we are dreaming about all the good jobs coming up which should be operational this month. We're also thinking about the opening of trout season next month and about the recent catch of "rattlesnakes" in the El Dorado Hills area.

One recently was killed by engineers working with the Dell Cable construction crew which was four feet long and carried nine rattles. Some of these rattlers have been in the hills since the days of the Gold Rush, and while they may be old, they're still vicious. The Dell Cable crew killed four rattlers.

The State Fish and Game division recently announced that the lakes and streams in the Pollock Pines area has been stocked "brimful" with rainbow trout. The "catches" should range up to 14 inches, and, of course, there are always those lunkers which got away last year to angle.

Van Valkenburgh started a drainage job in Natomas area which will involve quite a bit of dragline and deep trenching operations.

Le Boeuf and Dougherty are making good progress on their piers for the W-X Street bridge.

Peter Kiewit got off to a good start on the 29th-30th Street freeway job with Brighton Sand & Gravel doing most of the excavation and import work on this job. Kiewit will construct all of the underpasses and overpasses.

Bud Bernardo has a small job going out on 47th Avenue and the freeway.

Peter Ferry and Sons are continuing to work on their small bank emplacement job up and down the River. This job involves many small emplacements from the Sutter County line to the Rio Vista area.

Nothing much new to report from the North Sacramento area. Many small jobs with one and two operators on them, such as

new apartment houses, some subdivision work, a few underground jobs, curb and gutter, small paving jobs, and, of course, the Rock, Sand & Gravel plants and shops.

Some contractors are still recalling crews on the sunny days, trying to finish up old work, but most outfits are still hesitating to break open any new jobs fearing more spring storms brewing—meanwhile keeping fingers crossed that the sun is here to stay.

The Granite Construction at Pollock Pines, on the freeway job, is waiting for spring. Granite also has the road job on Rupp Grade where the crusher is covered with snow. This will be a good job for the summer when the weather permits.

The J. A. Jones Construction on the Robbs Peak Power House is snowed in again from Ice House to Robbs Peak. This job will finish late this fall. We will have approximately 25 Operating Engineers on this project.

Burchett and Good are still shut down on the New Town job near Placerville.

Walsh Const. Co. will soon start construction on the White Rock Tunnel job. This job should last about three years. It is a five-mile tunnel and a 26-ft. bore.

Kuckenberg from Portland, Oregon, will be moving in equipment on the freeway job between Folsom and Bass Lake, west of Placerville. This job should last about one year.

Joe Vicini Construction is working in the shops getting equipment ready for the Spring work along with Bennett Murray Co., another contractor from the Placerville area.

Del Cable Company is still working in the foothills at Cameron Park. The company has a lot of pipe to put in yet and streets to finish. This company gets bigger each year.

Harms Brothers in the Resort area at Folsom has a crusher set up and a few Operators are working at the present time near Pilot Hill.



LEARNING HOW . . . This Euclid TS-14 scraper, with an assist from a D A Cat is being propelled up a hill at Camp Roberts by an Engineer trainee.

East Bay Report

Midwinter Drought Aids These Engineers

By DON KINCHLOE,
L. L. "TINY" LAUX, NORRIS
CASEY, JAMES "RED" IVY,
STAN GABER and
N. GERALD BLAIR

Guy F. Atkinson Co. in South San Francisco was awarded and has started construction of a \$4,072,028 freeway job in Oakland. This job consists of 1.3 miles of eight lane highway together with off ramps, frontage roads, etc., on the Oakland side of the Caldecott Tunnel. There are some 2,050,000 yards of dirt to be moved. This creates a problem as the cut will be on one side of the existing freeway and the fill on the other. A temporary bridge will be built and the scrapers will pass over the traffic. Also, 3 P.G. & E. towers are to be moved off a hill to be excavated. This will cause a delay as a new area will have to be prepared, then the towers and powerline moved. The project should cause some headaches for supervision, with the heavy traffic and all.

The following brothers are employed on this job: Charles LaHa, Dirt Supt.; C. A. Hamlin, Equipment Supt.; K. C. Hegre, Dirt Foreman; A. C. Nelson, dozer; J. L. Starks, mechanic; C. Spire, mechanic; W. Thisby, dozer; D. S. Wimberley, dozer; R. D. Pritchard, dozer; C. D. Coffman, dozer; F. G. Mayo, dozer; J. E. Estberg, DW-21; W. J. Swan, DW-21; C. R. Worthington, mechanic; R. L. Briggs, DW-21 and R. C. Hultzman, Grease Truck.

Other jobs recently awarded in the Downtown Oakland area are Stolte, Inc., \$691,914, construction of a large underpass connecting 11th & 12 Streets from Madison Street to 500 feet east of Fallon Street. This will be an open cut excavation and will be similar to a large concrete box culvert. The excavating is being done by Gallagher & Burk.

M & K Corp. of San Francisco has been awarded a \$2,278,000 job constructing a probation center at 4th and Broadway in Oakland.

LOWER CONTRA COSTA COUNTY

Elmer J. Freethy, 1432 Kearney Street, El Cerrito, has the Maloney Pumping Plant in El Sobrante. This job consists of tying in all water lines from the El Sobrante Filter Plant, which has just been completed by Fruin & Colnon, and pumping into the Distribution Lines which

Hood Corp. is just completing.

This pumping plant is being built for the East Bay Municipal Utility District. They have installed 90-inch down to 2-inch pipes. They moved about 20,000 cubic yards of muck plus all the trenching excavation. The underground pump plant is encased and reinforced concrete poured in place. Basalt Rock of Napa is pre-casting the above ground, walls and roof. They have about two more months of pipe work. This job will be completed in August.

Superintendent on the job is Brother Jim Matheson. The Brothers on this job are Ralph Chandler, Crane operator, with Burney Perry as his Oiler, John Bybee, Crane operator, with Jim Stanley doing the oiling on the 45-ton P & H, Lloyd Bradshaw and Ray Silva, oiling on the gradall, Sid St. Martin running the loader.

The Sobrante Outlet is a gravity flow system from the San Pablo Dam Reservoir of East Bay Municipal Utility District. They installed 78-inch steel-lined mortar coated pipe under the Dam which connects with the water system that Hood installed to the Filter Plant. This part of the job will be completed in early June. Lynn Ourso is Superintendent on this job.

These two projects tie into the Hood Corp. multi-million dollar pipeline on Dam Road and Apian Way and the Fruin & Colnon multi-million dollar Filter Plant which will be completed when this goes to press. All these jobs are in the San Pablo and El Sobrante area.

CONTRA COSTA COUNTY

The midwinter drought has been a boon to both the contractors and members of the Operating Engineers in Upper Contra Costa County with many jobs progressing far beyond what would normally be expected for this time of year. The rock plants as reported in the February edition are still hard pressed to supply the demand for aggregates. The Kaiser Quarry at Cowell has been working three shifts—six days a week and is still unable to accumulate any sizeable stock pile.

The Guy F. Atkinson Co. has completed the excavation (with the exception of some 200,000 yards that has to be hauled to Concord) on their freeway job south of Walnut Creek and is busy putting down the sub-base

and pouring concrete on overpasses. They still have approximately 40 engineers employed on this job which started in mid-1962, and is scheduled for completion in December of this year.

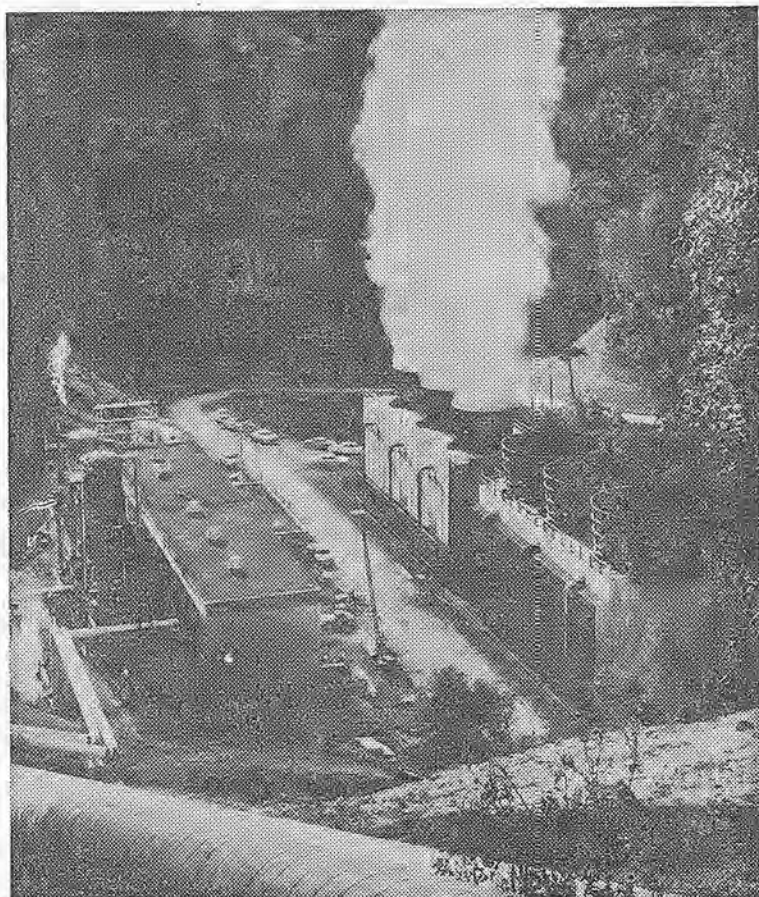
Gallagher and Burk was recently awarded a contract to widen Clayton Road to four lanes from Chestnut Street to Babel Lane in the Concord area. They have completed the excavation on the widening of Kirker Pass Road to four lanes and are busy laying the black top. They also have some 20 tract jobs in various stages of development and have about 50 engineers employed by the Walnut Creek division at this time.

Martin Bros., another local contractor who goes in primarily for tract work, has 14 tract jobs at this time with approximately 35 engineers on the payroll. Martin Bros. has just completed a 60-inch poured-in-place concrete pipeline for the water district on Treat Lane in Concord using a unique method, which they developed and which has proven quite successful.

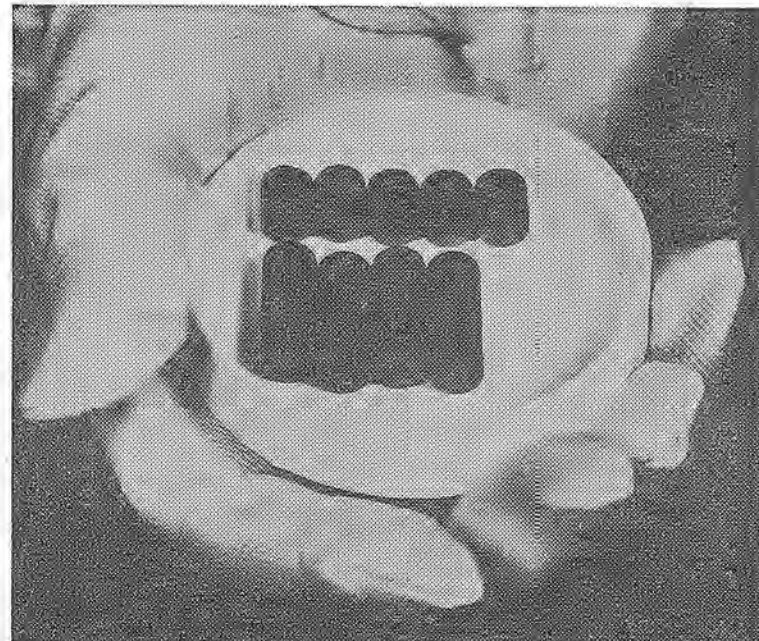
Litecrete Construction Company has completed the excavation on the first phase of its Muir Meadows tract job in Martinez and is busy on the underground work and finish grading of the lots.

Earhart and Associates have a contract to build a small multi-purpose production unit for the Shell Chemical Company in Martinez. They have subbed out most of the work that involves Engineers with Sabral Plumbing doing the underground, Herrick Iron hanging the steel and the Basalt Company setting the slabs. Sabral has a small hoe working on the job with Brother Earl Overton operating. Herrick

—Continued on Page 14



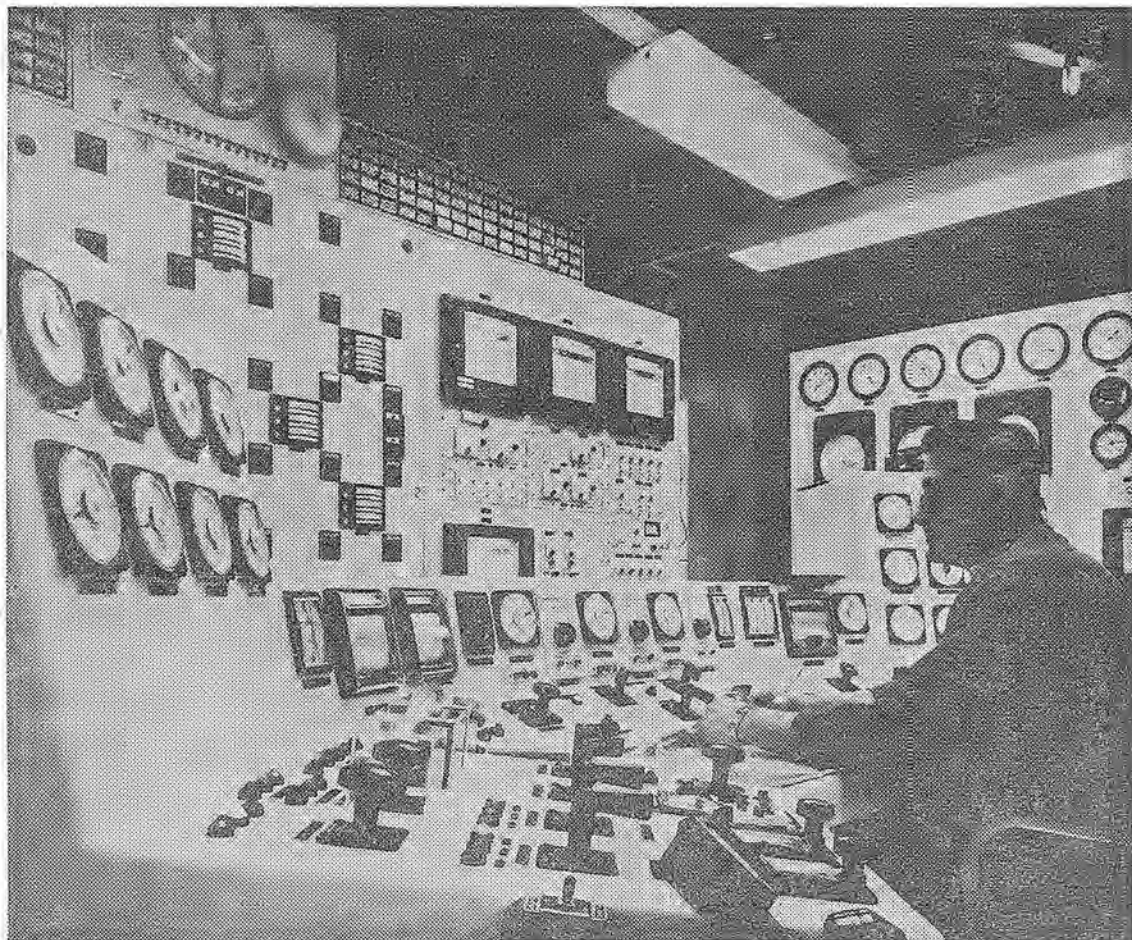
HARNESSED ENERGY . . . P.G. & E. built this power station at Geyserville and turned nature's energy into a steam energy power plant to serve Sonoma and Mendocino counties.



POWER PILLS . . . four king-size uranium dioxide pellets each weighing 30 grams, have the heat-energy equivalent of a ton of coal. The Humbolt plant is powered by 172 nuclear assemblies made up of 63 pellets in hollow stainless rod, and 49 rods are banded together to form nuclear fuel assembly.



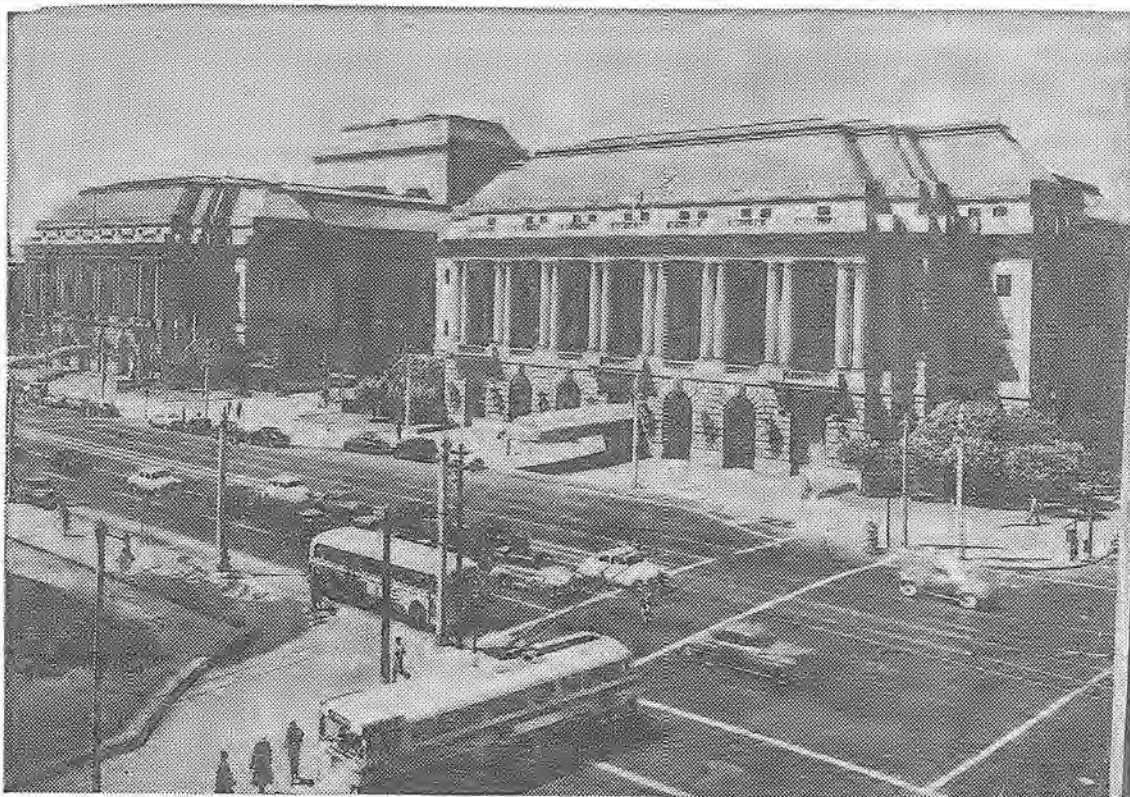
NATURE'S ENERGY . . . unleashed by underground pressures at Geyserville, these steam geysers were a familiar sight for years. See top picture for result.



ATOMIC ENERGY . . . put to useful peacetime use at Humbolt station in Eureka. This is the nerve center of the P.G. & E. plant which houses the controlling devices needed for operation of reactor and turbine-generator. Operator, in emergency can shutdown plant within three seconds.



O. J. T. INSTRUCTORS . . . here are the "Instructors" at Camp Roberts: Ray Austin, Lou Jones, J. C. Doyal, Ted Cox, Lyle Housley, Veryl Dawson, Mel Gelenski, Duke Dalton, Harry Cummings, Travis Fodge, George McFadden, Larry Riordan, Armand Porros, Carl Prince, Jack Bias, Cecil Brannan, Doyal Sliger.



OPERA HOUSE . . . San Francisco is the cultural center of the West. Here is the War Memorial Opera House at Civic Center which was the birthplace of the United Nations nearly 20 years ago. It is a veritable jewel box for music and drama. Building on right is the Veterans Building.



ATOM SMASHER . . . The University of California in Berkeley was the site of the smashing of the atom here in this dome covered cyclotron which was part of the Manhattan Project during World War II.

California Aqueduct Is Keeping 72 Brothers Busy

Continued from Page 13—

has an American Truck Crane shaking out steel with Brother Dave Hayward operating and Brother George Smisek oiling. Basalt has not moved any equipment in as yet.

The major expansion program that Shell Oil Company projected some months ago, and which caused numerous inquiries to be directed to this office by members interested in plant work, has been held up on preliminary design and probably will not be ready to submit for bid until mid-summer.

The Triple "A" Machinery Company and the Lipsett division of Luria Bros., Inc., are engaged in the removal of machinery and the demolition of unneeded structures in the old foundry building on Loveridge Road, Pittsburg, in preparation for the installation of the new pipe mill for Columbia Steel Company.

Peter Kiewit & Sons project known as the California Aqueduct, including pumping plant site and intake channel, is located about 11 miles northwest of Tracy, Calif. This is part of the program to accomplish the transfer of Sacramento River water across the delta area carrying it through the Cross-Delta Canal to the intake channel into the Delta Pumping Plant. This will lift the water about 244 feet to the head of the California Aqueduct where it will begin its journey southward. This project is being supervised by Angelo Weir. Some of the other projects Angelo has supervised are the St. Lawrence Seaway, Del Mar Freeway, Niagara Power Project, Garrison Dam and recently the Novato Interchange on the Marin side. On this Kiewit project Jerry Bagnain is the job engineer. Bill Myers is the master mechanic. They are running three shifts of mechanics. They have approximately 72 operators, oilers, foremen and mechanics. Clarence Haushcheld is the day shift superintendent; Ralph Whitham is the swing superintendent. They are running two shifts on the rubber. The project is about 50% finished.

SAN ANTONIO DAM

Peter Kiewit & Sons started work on the San Antonio Dam near Sunol April 22, 1963, and the approximate finish date will be in December, 1964. This project is supervised by Robert L. Bowen and the office manager is Joe Whit. San Antonio Dam will supply drinking water for the City of San Francisco. This is an earth core dam with five types of material being used and has to be placed in a precision manner. The material of earth, rock and sand is being taken from various locations on the dam site. The dam is 2200 feet long and will be approximately 200 feet high when finished. It will back up around 50,000 acre feet of water. This project is about one-third completed. In the beginning they had three and one-half million cubic yards of material to be moved and placed. There is a total of 60 operators, oilers, mechanics and foremen. The mechanics foremen that help keep this spread of rubber and other equipment operating are Hank Vogt and Sam Ferguson. The equipment superintendents are Mel Poeschl and Jean Austin. The spread foremen are

Ray Butterfield, Richard Yackley, Leonard Cunard and Ed Allen. Crusher foremen are Marvin Roden and Harry Drewry.

Morrison Knudsen, Inc., is working on a project southeast of Livermore near the Old Mountain House. This is on a canal, embankment and reroute of roads. This spread is supervised by Denny Bagley and is presently running three shifts. His foreman on days is Mel Stodard, swing shift Larry McCormick and graveyard Larry Monnet. They have a total of 50 operators, oilers, mechanics and foremen. This project is about 50% finished with about 900,000 cubic yards of dirt to go.

L. C. Smith Construction Company has an excavation job for a housing project off of Highway 21 near Pleasanton. L. T. Hartman is the project superintendent. There is a total of eight operators and oilers.

Winston Green is just beginning the work on the road and interchange on Highway 50 near the old 21 turn-off.

Granite Construction Company has a pipe line job southwest of Livermore. This job is supervised by Jim Malone and the foreman is Al Muns. They have a total of 11 miles of pipeline, 3½ miles of which is finished. There are eight operators, oilers and mechanics. This job was started July 22, 1963, and the approximate finish date will be November, 1964. They are now digging the ditch with a dragline powered by an 88B Bucyrus Erie. The runner on the 88B is Yancy Brazier. His lubrication engineer on this power earth disturber is Harold Logue.

SOUTHERN ALAMEDA

Work in Southern Alameda County has been very good for the winter season. There have been quite a few small job sites and some larger projects.

Allstate Equipment has opened up its earthfill dam retention levee for the Alameda County Flood Control and Regional Parks Project. The wet weather hasn't bothered them too much with very little lost time.

They have move approximately 65,000 yards to date. Brothers L. Chandler and Val Mattos are working Cat 12 blades. Brothers Jim Fleig, Roy Quillen and Claire Rooney on dozers. Brothers Jim Norris and Garland McAttee on sheepsfoot compactors. Brothers J. Whitfield, B. McIntyre, L. Harrell, G. Stockdale and B. Copeland on DW-20s. Brothers Rich Turner and Gene Steadman, grade checkers. Paul Rubel is mechanic on jobsite. Job Steward is Jim Fleig and Safety Committeeman is Roy Quillen. The job is scheduled for completion August 1.

Redgewick and Banke got underway on site development on the new Chabot College in Hayward. They have nine pieces of equipment on the \$282,000 job.

McGuire and Hester is finishing up its flood control project in Decoto where five Brothers are working.

Guy F. Atkinson is underway on the Music building project at the Cal State College in Hayward. Four Brothers are working on the job.

Ernest Pestana has an underground contract for sewer mains to service the Washington Manor High School. This is a \$178,000 job.

Utah Snows Blanket Construction

By ED HEARNE, JAY NEELEY,
MERLIN BOWMAN, JOHN
THORNTON, VANCE ABBOTT,
LAKE AUSTIN and
HUGH BODAM

March 20 heralded the first day of Spring in Utah and we were fortunate to see the sun for a part of the day. This winter season just won't give up; we received 11 inches of fresh wet snow over the week-end. This snow contained one inch of water content. It will delay the small amount of construction work now in progress.

Downtown Salt Lake is taking on a new skyline. The Kennecott Building, being constructed by Weyer, Garff and Okland Company, at South Temple and Main will dwarf the surrounding buildings. The superstructure is almost complete and there will be 18 floors with a penthouse. Steel is being placed by John F. Beasley Co. Bud Sutton is superintendent.

Vinnell Steel Company has completed its portion of the work on the Prudential Building in downtown Salt Lake. Re-welding some of the structural steel in the building while it was in place produced many problems. The general contractor on this job is Fullmer Brothers.

Christiansen Brothers erected a Swedish building crane on the Hall of Justice Building at 5th South and 3rd East.

Culp Construction Company enclosed the new Library Building and it will be a beautiful addition to downtown Salt Lake.

The new Federal Building is almost complete and it was constructed by Robert E. McKee Company.

Southern Builders are working on the \$5.5 million 24-story University Club Building.

Barben Brothers are moving dirt on Victory Road. This contract was awarded Wagstaff Company and dirt work was subbed by Barben Brothers.

SALT LAKE AND VICINITY

Snow and frost is delaying S. S. Mullen's job at the mouth of Parley's Canyon; however, with a few good days they will call back the 'cat skimmers and will probably begin with two shifts. Shovel work is just about finished and when they can get started with the scraper spread this job will shape up to a regular road project.

On the 8th South to 28th South Freeway, Gibbons and Reed are still fighting mud. The piledriving on this job is being done by Raymond Concrete Pile with 138 foot leads. They have a 3900 Manitowac and hope the weather will let up so they can start another rig.

The Black Rock project has stakes set up but no equipment moving. The water table is high and is causing problems. The fill will have to move over Kennecott's return water line and so far they only have one bridge over it. After the job gets rolling they will have to build one more bridge.

KENNECOTT

At the Kennecott Mine in Bingham Canyon things are slowing down because of the break in the dyke. We are still waiting for answers on some

grievances. The truck and shovel operation is improving on tonnage with regular increases. We are close to negotiations and suggestions would be appreciated.

NORTHERN AREA

A low bid of \$2,014,054.20 on East Canyon Dam was submitted by E. W. Construction and L. D. Schilling Company in a joint venture. The Dam will be opened and reservoir drained by August 1 to allow excavation for the new structure. The Bureau of Reclamation will call for bids shortly on a regional headquarters building to be staffed with approximately 25 technicians on the project.

Within 15 months there will be 17 highway projects bid in five counties. Nearly half of the construction funds are earmarked for 31.6 miles of new interstate highway in Weber County.

The following jobs should be completed this year: W. W. Clyde Construction on the Willard Dyke; R. A. Heintz Construction on the Causey Dam; Steenberg Construction has 1964-65 work on Lost Creek Dam in Weber County; Pife Construction has quite a bit of work in Brigham City and on Layton Freeway; Parson Construction is working on the Interstate highway in Roy; Jacobsen Construction has a good start on the Federal Building; Strong Construction has been working on the Willard Canal; and Wheelwright Construction has the Layton Canal and is hampered by the high water level. We hope by the time you read this most of the snow on the mountains will be melted and work going full swing.

Work in the Uintah Basin hasn't changed much since the last writing. L. C. Stevenson Company is working on a highway job. Husman is still working two shifts on their 80D in the rock and three shifts of mechanics. L. A. Young has started a job east of Vernal near Red Wash keeping seven members busy six weeks.

United Engineering has finished work at Lemon Grove. W. P. Harlin in Parley's Canyon is working when weather permits.

SOUTH EASTERN UTAH

Work in the southeastern part of Utah has slowed down; cold weather around Provo seems to have moved down there:

S. S. Mullen at Castle Dale called back a few employees who had been working for them last fall. It looks as though it will be three or four weeks before starting at Joe's Valley Dam again. They have quite a bit of work to do on the Dam and they will employ many of our Brothers.

Heintz Construction Company at Castle Dale had been going good but due to bad weather they had to shut down completely. They are building the canal that will carry water from Joe's Valley Dam and this is quite a project. The land in this area is very dry and barren and the people need this water badly.

M. K. Construction at Ferron is keeping 40 Engineers working just outside of the city, 10 to 20 miles. Loudermilk is still working on part of I-70 outside of Emery and is nearly finished with the dirt work. After they finish this job they are planning to move on to another job at Indian Canyon on April 1.

Swinerton and Walberg have a project at the Pipe Mill which will employ three or more operators. The job will only last about 1½ months. We sure hope the weather will give us a break so we can get our Brothers back to work in Utah.

SOUTH WESTERN UTAH

Some of the more hardy souls are defying the weather and attempting to do a little work, but to some it has been a losing battle, at least for awhile. However, it is good news that a few jobs have started and there have actually been a few dispatches issued in the past few days.

W. W. Clyde Company at Washington has a new crusher in operation and it is a great improvement over the older models. They are at this time placing the soil cement and will soon be setting up a hot plant.

R. V. Burggraf Company of Idaho Falls has moved nearly all its equipment in for the resurfacing job on I-15 at Black Ridge. The crusher got into operation Tuesday and the hot plant is scheduled to start next week. They intend to have their old crew back to work soon and a few new ones.

The long proposed Kolob Park road from I-15 north of Ash Creek is at last becoming a reality. Stout Construction of Las Vegas kicked off on this job last Monday and a half dozen operators were put to work and more will be hired as equipment is available. This Company also started their portion of the Interstate work in this same locality. They have over a dozen operators cleared now and like the Kolob job, as equipment becomes

available, there will be more openings.

The Iron Mines at Cedar City are picking up a little and only a few of the men affected by the seasonal layoff last Fall are still off. This should change soon as Utah Construction Company is now in the process of a minor expansion program on their beneficiary plant at Iron Springs which will create a few new jobs.

They are building a new settling pond for the tailings. This was subbed out to the Ray Atchison Construction Co. of Farmington, New Mexico. This has provided work for some of our members from the Ice region and is a welcome relief for them. The job has kicked off in high gear and all the equipment is new or nearly so which helps to make the work more favorable.

Tiago Construction Co. at Cove Fort has made several attempts to get back in production but the icy hand of winter still holds sway and to date the crusher is all that is working and that has been a long way from steady. We hope this will soon change as the Brothers who were on this job last Fall are getting rather lean.

There is other work in this area to begin soon, with a good deal of hot stuff to go down, and it appears to promise a good season for everyone, especially the oil crews.

"Respiratory Diseases, both acute and chronic, are a leading cause of disability and death in the United States today," says Dr. James E. Perkins of the Nat. Tuberculosis Assn.



SALT LAKE CITY . . . like a diamond in a platinum setting Salt Lake nestles at the foot of a snow-capped Wasatch mountain range and is world-renowned as an enchantingly beautiful, crisply clean city with a bracing atmosphere and a friendly

population. Broad streets for instance measure 132 feet wide. Local 3 maintains a district office here to serve the membership of the entire State of Utah.

RAIN DAMPENS FRESNO BUT SPIRITS ARE HIGH

By JOE MILLER,
TINY HELLING,
GLENN MULLOWNEY

FRESNO — The Fresno Area finally received a few rainstorms this past week; however, the area hardly noticed the rain as far as the jobs were concerned. Some projects were down for a couple of days, but resumed full operations almost immediately. Work continues to be good and jobs are beginning to break all thru the area.

Aggregate plants in the valley are picking up each day. Orders are coming in for material from all over and everybody seems to be getting their work started at the same time. The rock producers tell us that they have plenty of work in sight and expect an excellent year.

REDEVELOPMENT

In downtown Fresno demolition crews are rapidly knocking down old buildings and more demolition work is being advertised. As a result of the redevelopment project a considerable amount of commercial buildings are under construction and more being planned. Construction of the new court house and downtown mall are underway.

There is activity all over town on all types of work. After the rain stopped and the sun came back, it looked like a Beehive.

THE WHEEL

In the previous issue of "Engineers News" we made mention of the Wheel at the San Luis Dam site. This machine is being used in a joint venture by Morrison-Knudsen, Utah Construction and Brown & Root Construction. A photo of this machine accompanies this article.

The Wheel weighs 750 tons in all, and is scheduled to put out 3 thousand yards of material per hour. There are 10 two-and-a-

half yard buckets mounted on the Wheel. This machine is electrically powered and controlled.

They contemplate operating on a 3 shift basis so you can well imagine the amount of material that will be moved each day. This operation will continue for quite some time however, as they have about 50 million yards of material to be excavated and placed in the Dam.

So that you may make a comparison and visualize the size of the Wheel, the Crawler tracks are 6 feet wide and 36 feet long, and are about 5½ feet in height.

The company is now testing the Wheel and taking out some of the "bugs!" We expect it to be in operation before this paper goes to press.

ATLAS MINERALS

Negotiations started with the Atlas Minerals Corporation at Coalinga. We are hopeful of obtaining a good contract to cover the employees working at the asbestos mine and processing mill in the Coalinga hills. This will take a series of meetings but we don't expect a long drawn out negotiations.

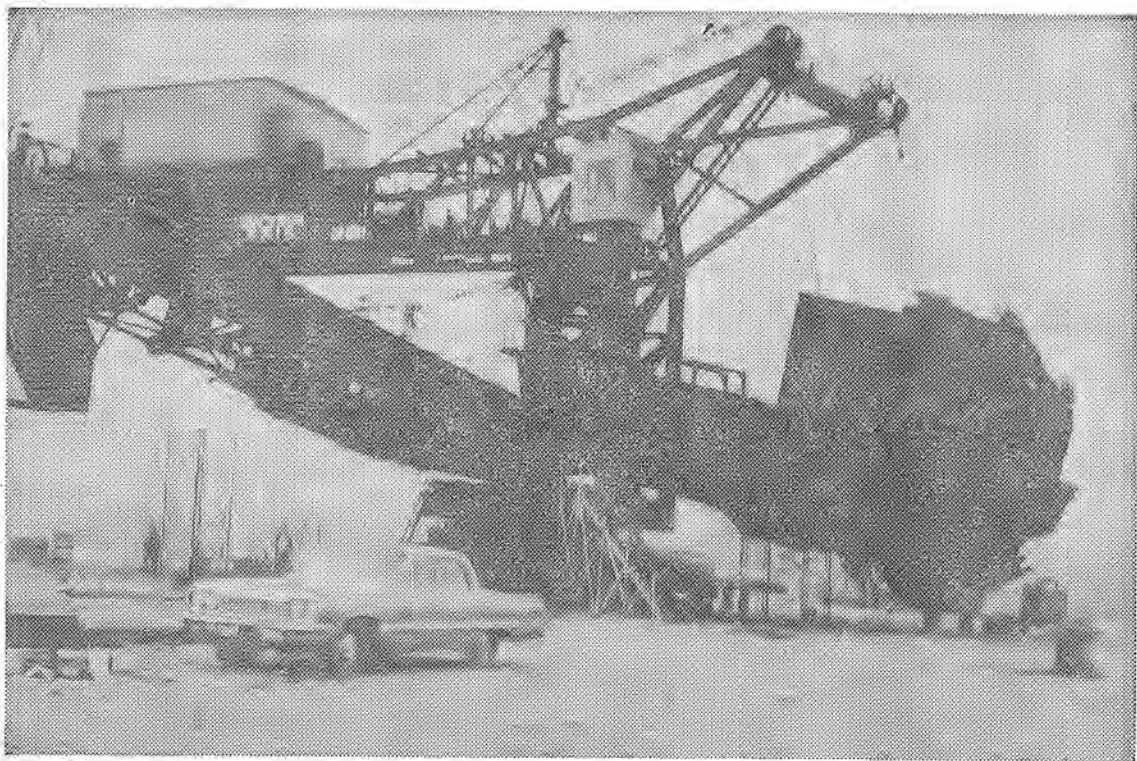
JOHNS MANVILLE

The Johns-Manville NLRB election in Coaling returned in favor 16-2 vote. Contract negotiations may now start.

CAMP ROBERTS

We had an opportunity to visit the retraining program at Camp Roberts recently and understand the program is successful. Brother Harley Davidson is doing a masterful job as director of the program. I took time from the tight schedule to visit with the men receiving training both from this district and the others.

The Brothers informed me they were delighted with the entire program, and raved about



SAN LUIS WHEEL . . . This 750 ton "Wheel" is on the site of the San Luis Dam in Los Banos. Ten two and one-half yard buckets on the Wheel are grinding out 3,000 yards of material per hour. The machine is electrically powered and controlled.

the excellent food being served by the Marine Cooks and Stewards. All said that they were learning a great deal and that this was the greatest thing that Local No. 3 had ever done. Manager Al Clem and the officers brought this program to Local 3.

Gordon Ball started clearing on the job on 198 Highway in Visalia. They have two D-8 Cats and 1 Blade, and will start moving dirt in two weeks. This will be about an 18 month job.

Starco Construction has six dozers at 9 Mile Canyon doing pioneer work on 16 miles of road. This job is 30 miles above Inyo Kern in the Sierras.

Fredrickson & Watson will finish the cement treat on Highway 99, between Selma and Kingsburg about April 1st and will start the concrete paving. The company has another highway job at Lemoore starting cement treat April 15th.

Huntington Brothers set up a crusher at Reef City for 350,000 ton of rock at Lemoore.

Guy F. Atkinson are making the dirt fly on their San Luis Canal Project. They have had three rubber spreads working on a two shift basis and are about at the half way mark on the excavation.

Their Canal lining equipment has started arriving. This consists of a machine to cut the finger drain trenches in the Canal slopes another machine to backfill the same with gravel. A new design trimmer and a slip form paver are the biggest machines of this type in the San Luis Canal project. Brother Bill Blair is now General Superintendent on this project.

M. K. and Utah on the San Luis Canal have a Monigan swinging 13 yard bucket with 200' of boom operating three shifts.

There are seven R. G. Le Tourneau electric powered tandem rubber tired scrapers on a single shift. The rigs have had less than a 10 per cent "down time".

M. K. Utah, Brown & Root are maintaining a steady pace at the San Luis Dam using three "Euc" Loaders and a 280 "B" Shovel. They have started pouring concrete in the power house and have holed thru on all four tunnels.

Their Bucyrus-Erie Excavating Wheel is being test run at this time and should be operational this month.

MORE -- PERSONALS

Continued from Page 5—

of a sheep ranch as well as a 9-year-old monkey, three foot 6 inches tall. Schmidt recently requested he be allowed to list the monkey as a dependent on his income tax deduction. The monkey works for him driving a tractor.

"Johnnie is a careful driver," Schmidt said. "He never presses the starter button while the tractor is in gear. He makes sure the gear is in neutral, presses the button, then springs into the driving seat and grasps the wheel." The tax department granted Schmidt a \$152.00 deduction.

* * *

RENO

For members who were employed between October 1, 1962, and September 30, 1963, the Health and Welfare Fund office is holding approximately 200 unclaimed vacation checks. The Vacation office does not have the correct mailing addresses for these members. Please notify the Vacation office, 39 St. Lawrence Ave., Reno, Nevada, giving them your name, address, and social security number; they will be happy to mail your check to you.

Again we are approaching the heavy work load of the season for 1964, and in order for this office to serve you better and more efficiently, we would like at this time to ask you for your cooperation in making sure that you are properly registered on the out-of-work list for the classification on which you desire to be referred. Please keep us informed of your correct telephone numbers.

We usually enjoy writing news articles about the brother Engineers, but not this type. We are sorry to report an unfortunate accident that occurred on March 24 to Brother Loren McEvers, an oiler for the Isbell Construction. He was suddenly struck by 24,000 volts of electricity and suffered severe burns on the hands and both feet. McEvers is recovering in the Washoe Medical Center in Reno. The accident occurred when the crane on which he was working swung around and brushed against the high-voltage wires. Part of the current jolted through cables the brother was holding after a tire on the crane blew out and the current grounded through the wheel. Think Safety, Live Safely!

* * *

UTAH

The blood bank in Provo is falling fast. We would greatly appreciate donations.

Brother Lee Torman is in the Dee Hospital recuperating from a crushed and broken leg. We all wish him a Speedy Recovery.

Our sincere sympathy to the family of our late Brother Fares S. Miller, who passed away the first of March in Sequim, Washington.

Congratulations to Brother Pete Churchich and his son, Alex, who was chosen as one of the five on the Utah All-State Basketball team. Alex is six feet seven inches tall and an all-American boy.

SANTA ROSA

Brother Lyn Ford has been in the hospital (University of California in San Francisco) for some time so those of you who know him or have worked for him—send him a letter for he appreciates hearing from brother engineers. He is now on the road to recovery after a number of operations and it is our sincere hope that in the near future we will be seeing Lyn in the field running the rigs. Get well soon for you have a lot of friends and they are all pulling for you.

BLOOD DONOR: Too late to write about in our last issue was a blood donation from Brother Bill Brown. Bill, we wish to take this time, though late, to thank you. Sure wish others would follow in your footsteps.



SCIENTIFIC APPROACH . . . here two P.G. & E. employees weigh the density of snow in the high Sierras to measure the runoff from mountain watershed areas to predict California's water for a year.

Aloha from the Islands

Footprints Fade from The Sand as State Grows

By HAROLD LEWIS, BERT NAKANO, CLARENCE FRIEND, and WILFRED BROWN

The footprints of years gone by have faded in the sands of Hawaii. Outskirt communities, high-rise apartment hotels and Federal inter-change highways have already given the State of Hawaii a modern appearance. And there are many more developments on the drawing boards of the corps of Engineers.

The weather in Hawaii has been in our favor with but a few rainy days now and then. The weather, which plays a major part in the construction industry, has helped our out-of-work list to remain below its normal level and we are hoping it remains at this level.

We will soon be negotiating an agreement with E. E. Black, Ltd. for their shop employees. A contract ratification meeting has already been scheduled and if everything goes well, our brothers employed by E. E. Black, Ltd., will be covered under a new agreement at our next writing.

Protection is a very important factor in the lives of all of our brother members and their families. Therefore, we urge each and everyone of you to be sure to check your medical status with our office when terminated from employment. Many of our brother members are finally realizing the importance of their medical status and they are making it a habit to check with our office when terminated from employment. As a result of this action on their part, they can have peace of mind whenever a medical bill is incurred. **This is a habit worth having!**

Effective April 1, 1964, the policing areas on the Island of Oahu will be assigned to different agents; except for the industrial plants like State Tile and Permanente Cement Company which will both be policed by their original agents. Brother Wilfred Brown, Business Representative, under this change in areas will be policing the West side of Oahu and Brother Clarence Friend, Business Repre-

sentative, will be policing the East side of Oahu. The boundary between these two areas will be from Kaneohe Bay Drive tying into Likelike Highway, to the end of the Middle-Nimitz Intersection. Therefore, if you were originally submitting any problem to one agent, you will change this procedure and refer any problems to the new agent in your area.

Also for your convenience, our office is now open at 7:00 a.m. and is also open during lunch hour on week days. We are hoping that these changes will be more convenient for our brother members.

The Kaiser Hawaii-Kai Development and The Kaiser Company at the present time are engaged in three separate construction projects. They are ahead of their schedule on the Lunalilo Freeway approach and on the projects in the Kaimuki, Aina Haina, and Hawaii Kai districts. Many of our brother members can be seen scattered over these routes busy at work.

Reed & Martin Inc., a well established contractor in the State of Hawaii, is making sectional improvements. This Company employs a great number of our brother members. The following are a few of the projects under construction by Reed & Martin:

1. Modification of Pier 4.
2. Salt water intake system for the Hawaiian Electric Co.
3. Enlargement and complex modification of Pier 8.
4. The Kaneohe Capehart housing project.
5. The Kokokahi sewer and control system project.
6. Schofield housing project.
7. Sectional projects on the islands of Hawaii, Maui, Molokai, and Kauai.

We are happy to see the commencement of the new Kahaluu cut off road project. This particular road that links Likelike Highway at the Windward side of the Wilson Tunnel Complex has finally passed the second reading of the House. Our brother members of Construction Equipment Company have started to do all of the grubbing



SPECIAL RIG . . . Guy F. Atkinson Company had this Cat twin-engine compactor specially built for the Briones Dam project in Orinda.

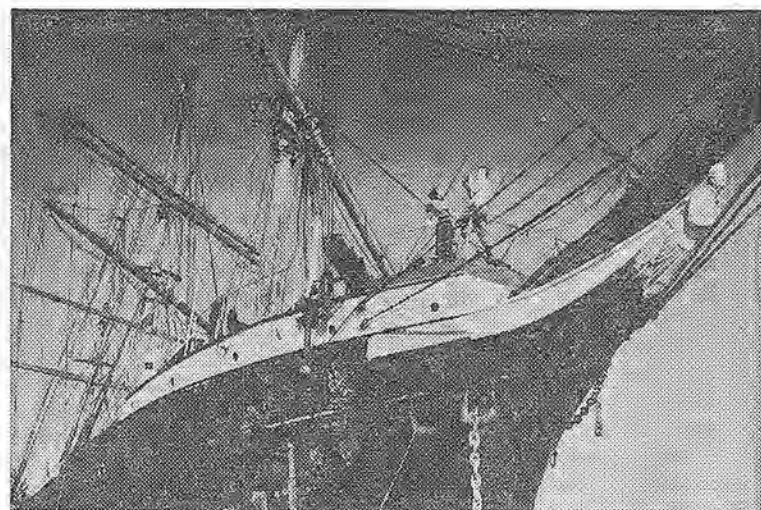
work of this approximately 4 miles long road.

The J. C. Penney Company, giant mainland general merchandising chain, announced that it has signed a lease for a 125,000 sq. ft. full line department store in the second phase of the Ala Moana Shopping Center complex. It will be Penney's first store in Hawaii as well as its first outside the continent of the United States. This new store is scheduled to be ready by Fall of 1966. This new second phase will almost double the size of the present Ala Moana Shopping Center complex. Hawaiian Dredging & Construction Co., Ltd will be the contractor for this project and our brother members will have more employment in store for them in the future.

K & M Sakamoto is low bidder for the construction of the Hilo Harbor model laboratory building. This will add to more employment for our brothers.

Our agents are happy to report that many of our brother members are enthusiastically wearing their Union buttons and decals. Wearing your buttons and decals helps our agents a great deal in their policing.

In 1960, nearly \$1 billion was contributed by employers and employees to private welfare and pension plans in California and nearly \$600 million was paid out in benefits.



MUSEUM . . . The "Balclutha," antique sailing ship which came around Cape Horn through the Magellan Straits at the southern tip of South America in the early 1880's. It is docked at Fisherman's Wharf in San Francisco and is open daily.

New Committee Is Formulated

By ART PENNEBAKER

We reported to you recently that we had been organizing survey crews in the City and County of San Francisco and had been successful in obtaining the prevailing rate of pay for our members. We are presently on another drive to gain similar advances for the inspectors. A great deal of progress has been made and it looks like we have won—but we have learned not to count a success until it becomes a fact!

A new section was made a part of the Technical Engineers Master Agreement at latest negotiations:

Section XX—Labor Management Committee.

A committee, consisting of Union and Employer representatives, shall be formed. This committee shall meet on call of either party during the term of this Agreement in an effort to resolve mutual problems confronting the Employer and its members, the Employees and the Union.

It is felt by the union that problems of mutual concern can be dealt with without tying those problems up in the heat and emotion of a full-blown negotiation. We will be meeting with the employer on this basis very shortly and have high hopes of a valuable, progressive attitude from all concerned.

Women over 35 now account for 58 per cent of all women at work in the U. S. and married women for 56 per cent of the female work force.

Credit Union Is Growing Rapidly

The Operating Engineers Local 3 Credit Union is scarcely six weeks old, yet it has mushroomed to over 700 members; \$50,000 in invested shares, and to date more than \$25,000 has gone out in small loans to its membership.

To give you an idea of the activity of the Credit Union, manual bookkeeping is being replaced by the Bank of America's electronic bookkeeping system. This is to relieve congestion in the office and to expedite handling of loans in a more efficient manner, according to Treasurer Paul Edgcombe.

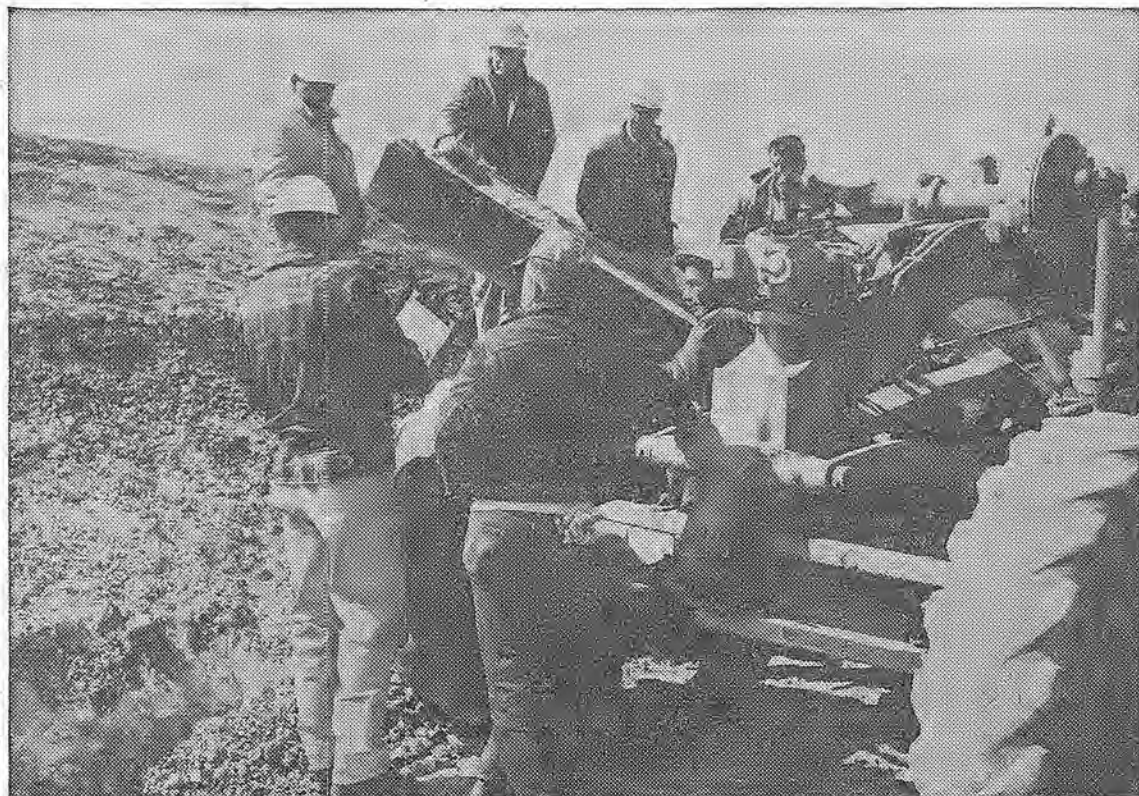
Records for transaction to individual accounts will be shown on quarterly statements.

While Credit Union privileges have been set for the membership of Northern California, plans are being made to extend the service throughout the jurisdiction of Local 3.

Shares may be purchased through local dispatch offices and loan applications may be filled out and sent to San Francisco for processing and approval by the Credit Committee.

Edgcombe said that the Board of Directors has approved a plan to finance new cars up to 70 per cent of total sales price with a maximum of \$2,000.

Further information may be secured from your local district office.



FIELD CLASS . . . Instructor Lyle Housley of Salinas in plaid jacket, is shown instructing a blade class as trainees ask questions.

Work Exhibitions in Santa Rosa

By RUSS SWANSON

SANTA ROSA — Like Spring exhibition baseball games, the "work exhibitions" in the Santa Rosa district doesn't mean much in the record book or the pocket book.

However, as soon as weather permits, like the major leagues, our Brother Engineers will be "swinging for the fences" on construction jobs coming up this year. Again, California is slated to have a big year.

The lineup in this area looks like this, and we hope somewhere in the batting order to find a good cleanup hitter:

McNamara is down now but hope to start on the finishing touches of their highway job near Asti Winery... Fredrickson Brothers have just started their million dollar highway job which is located just south of the McNamara job... Hooker and Fredrickson and Watson should start on final stages of highway work south of Ukiah (Rumors are that Absco Paving will take over the finishing)... Arthur B. Siri has been working when possible at DeHaven Creek Road job and expect to start soon on road work in Willits... Peter Kiewit in Santa Rosa freeway job still go-

ing along with a small crew but they are also on the home stretch and should be finished and have the road open by July... Joe LaMalfa about finished with street work at Clear Lake Highlands thanks to a solid month of good weather... The rock plants namely Basalt, Heins, Windsor Sand and Gravel, Marshall Maxwell have all been working pretty much throughout the winter season... P and Z have just completed drilling operations for County Buildings in Santa Rosa with Guy F. Atkinson the prime contractor and the building starting to take shape... Alcan Pacific with work on buildings at Sonoma State Hospital... Argonaut Construction can be seen working on various sub-division and road jobs in and around Santa Rosa just as Art Siri has been with scattered jobs. There are numerous other jobs in progress but all of a small nature so far as employing a number of engineers is concerned. We know that the future looks bright in that the Dry Creek Dam should be starting by the end of 1965, this is a 43 million dollar project... The PG&E proposed power plant located at Bodega Bay will probably be ok'd shortly and work could commence most any time after the AEC (Atomic Energy Commission) gives approval.

If approval is given after a public hearing

LIBRARY BONDS

Lyndon B. Johnson said the following—"Good public libraries must be placed within the reach of all of our people"—Truer words were never spoken and to those of you who live in Santa Rosa—on April 14th you will have a chance to vote for bonds which will mean that if they are passed by a two-thirds majority then Santa Rosa will have a fine new and modern library. All of the labor groups in Santa Rosa have gone on record as supporting the bond issue... Your YES vote is essential so... please... those of you living in Santa Rosa

CAREER DAYS

Operating Engineers are taking a more active part in attending High School on "Career Days" and at the request of the school officials informing the students about our trade. We in Santa Rosa have contacted the schools and find pupils look forward to our visits. Recently we presented some of the pros and cons of being an operating engineer to Healdsburg High School where a group of over 100 students attended. Our next meeting is at the Petaluma High School.

UKIAH MEETING

Attendance was excellent in the last regular district meeting

DISTRICT MEETINGS

OPERATING ENGINEERS LOCAL 3

April

DISTRICT 1

San Francisco—April 1, Wednesday, S.F. Labor Temple, 16th and Capp Sts., 8:00 p.m.

DISTRICT 4

Eureka—April 7, Tuesday, Engineers Bldg., 2806 Broadway, 8:00 p.m.

DISTRICT 7

Redding—April 8, Wednesday, Engineers Bldg., 100 Lake Blvd., 8:00 p.m.

DISTRICT 6

Marysville—April 9, Thursday, Elks Club, 920 D Street, 8:00 p.m.

May

DISTRICT 3

Stockton—May 5, Tuesday, Engineers Bldg., 2626 N. California, 8:00 p.m.

DISTRICT 9

Watsonville—May 7, Thursday, Veteran's Memorial Bldg., 215 Third St., 8:00 p.m.

DISTRICT 8

Sacramento—May 12, Tuesday, C.E.L.&T. Bldg., 2525 Stockton Blvd., 8:00 p.m.

DISTRICT 2

Oakland—May 14, Thursday, Labor Temple, 2315 Valdez Street, 8:00 p.m.

held in Ukiah. Many thanks to those of you who exercised your right and obligation as a member of Local No. 3 in attending this meeting and the many others which you have attended in the past and the many others which you will be attending in the future. A Grievance Committee election was held at Ukiah and our congratulations to the newly re-elected members who have been serving the members so well... those re-elected: Howard Seacord, Les Crane and L. S. Kitzmiller.

MDTA

On visiting Camp Roberts and

talking to some of the brothers from this area our congratulations go to the officers of Local No. 3 for their effort in making it possible for the Operating Engineers to have the opportunity of being retrained in one classification which they have not had the experience in. All of the brothers contacted were of the same opinion in that they felt that in the years to come they will be able to better support their family and also to better serve their employer. We hope that this program will be with us once again next year for so many brothers are looking forward to having the opportunity to attend.

SWAP SHOP: free want ads for Operating Engineers

FOR SALE

770 OLIVER DIESEL BACKHOE w/ loader, almost new, 550 hours. Original price \$12,000.00. Will take \$8,500.00. Willis Hamilton, 4777 E. Hedges, Fresno 2, Calif. Phone: 251-3019. Reg. No. 381561.

HORSE TRAILER, \$140.00. Carbide generator, \$40.00. 1946 Ford Tractor w/pow, cultivator, post hole digger, scraper, needs overhaul. \$500.00. Water tank for water truck, 3450 gals., \$675.00. Ludwig Betchart, 41223 Roberts Ave., Fremont, Calif. Phone: 656-1149. Reg. No. 1030397.

HOME, 2-bedrm & den, landscaped corner lot, link fenced. Patio fireplace, elec. kitchen, w. to w. carpet, cooling system, etc. Reasonably priced. Risdon Smith, 378 Monterey Ave., Yuba City, Calif. Phone: 748-6601. Reg. No. 1070967.

TOOLS, HEAVY DUTY, PLUMBERS, full set, 3/4" drive 7/8 to 2", 1-24" crescent, 1 - 1-5/16 end wrench plumb, Glenn Parish, T.C.T. Trailer Park, 11559 San Pablo Ave., El Cerrito, Calif. Phone: 235-3357. Reg. No. 302214.

TFN ACRES nr. Vacaville, 3 mi. from proposed industrial area. Frontage on paved road. Excel. view. Only \$1200.00 per acre, 23% down. A. J. Baptist, Rt. 1, Box 16, Vacaville, Calif. Reg. No. 736593.

GARDEN TRACTOR, 6 HP, wheel horse riding, 4 attachments: plow, drag, dozer blade, trailer, 8 months old. \$475.00. Romeus Otremba, 14533 New Jersey Ave., San Jose 24, California. Reg. No. 1123506.

1955 CHRIS-CRAFT 25-FT. CABIN CRUISER, planked, bunks, galley, head, \$2750.00 for quick sale. Moored at So. City Marina. Ed Wright, 309 Third Ave., Pacifica, Calif. Phone: 355-5714. Reg. No. 370309.

2 ACRES LAND on Fell Ave. in Del Paso Heights. Good buy at \$4500.00. Dick Harold Cooper, 567 Lassen Ave., Chico, Calif. Reg. No. 292566.

INLAND RADIATOR EQUIPMENT, large cleaning vat, large repair & test bench, all electric lifts, almost new. Cost \$2100.00. Take \$1,600.00. I. A. Smith, 802 East "F" St., Oakdale, Calif. Phone: 847-3050. Reg. No. 928231.

HEATER, ASHLEY AUTOMATIC WOOD, \$25.00. Cast iron pot-bellied stove, \$25.00. Couch, clean, excel. cond., \$7.50. Round gateleg table, \$3.50. Ralph Kidwell, 21575 Norman Dr., Los Gatos, Calif. Phone: 354-2901. Deg. 947108.

1956 MELODY MOBILE HOME, 2 bedrms, 50'x10'. Good condition. Has awning. See to appreciate. \$3,500.00. Dan S. Street, 15263 Hesperian Blvd., No. 44, San Leandro, Calif. Phone: EL 1-4175. Reg. No. 519773.

OCCIDENTAL STOVE, chrome top, griddle, clock, aut. 2 ovens, excel. cond. \$65.00. W. C. Shinn, 1440 Carlos Ave., Burlingame, Calif. Phone: 344-5842. Reg. No. 836875.

1963 FORD 1/2 TON PICKUP stepside, 7400 miles. Perfect condition. \$1,585.00. John A. Johnson, 13822 Page Mill Road, Los Altos Hills, Calif. Phone: 948-3899. Reg. No. 782774.

1952 INTERNATIONAL TRUCK L 120. New factory rebuilt L 130 engine. Equipped to pull house trailers. Dual wheels, good condition. \$445.00. Bobby G. Cooper, 29302 Ave. 13 1/2, Madera, Calif. Reg. No. 1058389.

PONTIAC 1956 4dr. hardtop, good rubber, rebuilt engine, \$275.00. Don Thoms, 5 Sunnyhill Dr., Petaluma, Calif. PO 2-9238. Reg. No. 1154357.

AQUALUNG & regulator safety checked. Also mask, snorkel and full foot flippers. \$50.00. Lew Pitts, 2111 Pullman, Belmont, Calif. Phone: LY 1-6635. Reg. No. 309679.

1951 PONTIAC, 4 door, automatic transmission, heater, radio. \$100.00. Ed DuBois, phone: HE 1-5744. Reg. No. 373305.

RELIC HUNTERS — FAIRBANKS MORSE VERTICAL 1-cylinder gas engine. Has flywheel, make-and-brake ignition system. Built in 1900. Used to run small Huntington mill and is still at the mill. Make offer. George Williams, Gen. Del., Junction City, Calif. Reg. No. 1113007.

1963 DODGE PICKUP, 4-wheel drive, V-8 motor, winch, mirrors, worn hubs, radio, heater. Like new. \$5,100.00 investment. Take \$3,495.00 w/new Sportliner insulated sleeper, or \$3,195.00 without. 50,000 mile warranty transferrable. Joe C. Haslauer, 2900 Fairview Road, Hollister, Calif. Phone: 637-3663. Reg. No. 921408.

JOHNSON OUTBOARD MOTOR, 35 hp, w/controls, 2-6 gal. pressurized tanks, long shank, 2 propellers. \$200.00. Also 16 ft. factory built Hilltop boat trailer. \$150.00. Glen C. Derrington, 36466 Charles St., Newark, Calif. Phone: 797-1186. Reg. No. 863728.

1961 FORD STATION WAGON & 19 FT. HOUSE TRAILER with separate room 10x10. Modern, both excellent condition. Sell separate or \$3,000.00 complete. Jerry Taylor, 1522 Yount Road, Napa, Calif. Phone: BA 6-3287. Register No. 883797.

1957 FORD FAIRLANE, 2 door, hardtop, radio, heater, overdrive, seat belts. \$595.00. Also used evaporative cooler, 3500 CFM. \$50.00. Ben Townsend, 354 Santa Inez, Los Banos, California. Phone: 826-3477. Reg. No. 1148547.

1956 TRACTOR T.D.S., w/angle & tilt blade, canopy & hystor winch & rippers. Good condition. Also 10 wheel drive International Truck. Roscoe Pounds, P. O. Box 204, Pollock Pines, Calif. Reg. No. 367255.

1963 ARISTOCRAT CAMPER TRAILER, 17 ft. Self-contained. Sleeps 4. Oven, refrigerator, shower, toilet. Cash payoff \$2226.00. Richard R. Owings, Star Rt. Box 1115, Sonora, Calif. Reg. No. 987250.

IMPLEMENT TRAILER 16-ft., 2 axle all-steel, electric brakes, directional lights. \$450.00. 1948 Ford 1/2 ton flat-bed pickup \$250.00. Used w/above trailer. Martin Ronning, 229 Alvarado, Vallejo, Calif. Reg. No. 899450.

ALASKAN MALAMUTE PUPS, A.K.C. registered. Whelped January 4, 1964. Championship bloodlines. Males and females. William H. Hodges, 3611 So. 7th, East, Salt Lake City, Utah. Phone: AMherst 6-1832. Reg. No. 310685.

HOME, 3 bedrms., 1 1/2 baths. Approx. 1/2 acre. Indoor barbecue, fireplace, built-in range, oven and dishwasher. Double garage w/workshop area. Shake roof, hardwood floors throughout. Overlooks picturesque Humboldt Bay. Jack L. Sheppard, Route 3, Box 1504, Marysville, Calif. Phone: 742-5090. Reg. No. 1148393.

BUILDING SITE 1 1/2 acre overlooking lake, meadow, tree-covered hills. Phone, electricity & water available. 1 mile off Hi-way 50. 28 miles to Sacramento. On private road, 400 ft. off paved road. School bus, mail route. \$2,900.00 Reasonable terms. C. M. McGinty, Rt. 1, box 1531, Shingle Springs, Calif. Phone: 677-2052. Reg. No. 289149.

45 FT. AMERICAN TRAILER, 10'x40', covered patio, 1 acre. Electricity, phone, septic leach lines. Overlooks lake, meadow, tree-covered hills. 1 mile off Hiway 50. \$6,000.00. Reasonable rates. C. M. McGinty, Rt. 1, Box 1531, Shingle Springs, Calif. Phone: 677-2052. Reg. No. 289149.

1954 FORD 1/2 Ton, 3 speed, heater & defroster, good motor & new seat. \$350.00. 1956 Ford 1/2 ton, 3 speed, heater & defroster, good motor & body perfect. \$550.00. Sell or will trade for small trailer. Joe M. Paulazzo, 1584 Chestnut St., Redding, Calif. Phone: 241-6929. Reg. No. 865537.

DC WELDER 200 Amp., 260 max., P&H 3-phase. R. F. Miller, P.O. Box 341, Clearlake Oaks, Calif. Register No. 1040528.

KEESHOND PUPPIES A.K.C. Reg. Look like little bears. Shots & wormed. \$40.00. W. E. Dixon, P. O. Box 52, Vacaville, Calif. Phone: HICKory 8-6394. Reg. No. 557469.

1959 DODGE 1 1/2 TON. Complete portable welding rig. G.E. Arc Welder, torch, grinder, vise on let-down work bench. 13 steel cabinets. A frame hoist based on the Dodge. Mrs. Frances Burkett, 640 Nevada Street, Fairfield, Calif. Reg. No. 674806.

D-2 CATERPILLAR NO. 5U4034 w/ hydraulic angler dozer. Excellent cond. Plus new extra cutting edge. \$3500.00. Also 6'6" John Deere Kilifer Disc hardly used. \$150.00. Both \$3600.00. F. E. Hubbard, Rte. 2, Box 2655, Auburn, Calif. Phone: 885-4498. Reg. No. 1036902.

1959 VENUS MOBILE HOME 10x50, 2 bdrm. Value approx. \$5600. Sell \$4000.00. '64 license. Some finance. D. O. Meister, Rt. 2, Box 294, Oakley, Calif. Phone: 684-2145. Reg. No. 873285.

CORNER DUPLEX RENTED. Nr. 41st and rapidly growing area. \$5000 cash and payments of only \$77.00 per month. Agustin Rodriguez, 1871 - 43rd Ave., Santa Cruz, Calif. Phone: 475-7942. Reg. No. 1022442.

HOME SITE, TRINITY CO., 1 1/2 acres. Pressure system or city water avail. In fire district. Nice view. 1/4 mile to paved county airport. 3 mi. to town on paved hiway. 12 miles to New Trinity Lake. \$3,500.00 terms. George Williams, Gen. Del., Junction City, Calif. Reg. No. 1113007.

AIR COMPRESSOR, DeVilbiss, 3-phase, 5 hp electric, \$250.00. Don Thoms, 5 Sunnyhill Dr. in Petaluma, Calif. PO 2-9238. Reg. No. 1154357.

WELDER, Forney electric, 180 amp. also brazes, -solders, cuts and charges batteries, 6 or 12 volt. Two years old, five year guarantee. Don Thoms, 5 Sunnyhill Dr., Petaluma, Calif. PO 2-9238. Reg. No. 1154357.

FORD 1/2 ton pickup, 1950, recently reconditioned, good tires, Barden Bumper, new front end and brakes. \$275.00. Don Thoms, 5 Sunnyhill Dr. in Petaluma, Calif. PO 2-9238. Reg. No. 1154357.

1 EAZ-LIFT HITCH, 1 Kelsey-Hayes Electric Brake, 1 K.H. Voltage Reducer, 1 Side View Mirror—sell as a unit only: \$90.00. H. V. Stone, 855 Barron Ave., Redwood City, Calif. Phone: 368-1264. Reg. No. 726830.

6 1/2 ACRES, level land nr. Roseville. Fronts on Freeway 40. Nr. Sierra College. Ideal bldg. sites. Good drainage. Dave Hanny, 1646 Ronne Drive, Santa Rosa, Calif. Reg. No. 284751.

FREEZER AMANA, 19 cu. ft., upright, box, 7 yrs., excel. cond. \$275.00. Jig Mould for 8 ft. El Toro sailboat, used twice. \$55.00. Paul Godfrey, 2517 Carquinez, El Cerrito, Calif. Phone: 232-5791. Reg. No. 615113.

HOME, 3 bedrm., 1 1/2 bath. On corner lot, 3 yrs. old, in Tulare, Calif. \$14,000.00. J. F. Thornberry, 3300 Mitchell, Ceres, Calif. Reg. No. 1107390.

BOAT, 1963 Starcraft, 12' Aluminum car top, boat & carrier, weight 100 lbs. Used 1 mo. Cost over \$250. Sell \$185.00. Extras. Arthur A. Smith, 651 W. "A" St., Sp. 18, Hayward, Calif. Reg. No. 1153802.

ANGLE DOZER, OLIVER-OC-12, wide gauge, hyd. ripper, 1300 hrs. Xint. cond. \$6500.00. Comb. Semi. unit—\$3500.00. 22' sgl. axle lowbed, 48" Intl. KB-10, 5 sp. main, 3 sp. aux., air brakes. Both—\$9500.00. Tom Bolduc, 7032 Almond Drive, Rohnert Park, Calif. Phone: 546-0506. Reg. No. 1098453.

FRANTZ OIL CLEANER. Ends oil changes, 15c replacement cartridge. Bill Ross, 2304 Whitmore Ave., Ceres, Calif. Reg. No. 1121968.

GENERATOR, \$375.00. Develops 120-240 volts, 3 phase & single phase. Good condition, used very little. A. Wynne, 2276 Ralmar Ave., E. Palo Alto, Calif. Phone: 326-0274. Reg. No. 955232.

WANTED TO BUY

PICKUP, late model, with large cab over camper. Roscoe Pounds, P. O. Box 204, Pollock Pines, Calif. Reg. No. 367255.

QUICK CHANGE SOUTH BEND, LOGAN 0"x3 1/2" or 4" metal lathe w/attachments or equivalent. Will pay cash. John J. Holland, 222 Clifton Road, Pacifica, Calif. Phone: 355-6423. Reg. No. 567576.

U.S. COINS—Buy or trade. Carl Warner, P. O. Box 33, Anderson, Calif. Reg. No. 469935.

RULES FOR SUBMITTING ADS

- Any Operating Engineer may advertise in these columns without charge any PERSONAL PROPERTY he wishes to sell, swap or purchase. Ads will not be accepted for rentals, personal services or side-lines.
- PRINT OR TYPE the wording you want in your advertising on a separate sheet of paper, limiting yourself to 30 words, or less, including your NAME, complete ADDRESS and REGISTER NUMBER.
- Allow for a time lapse of several weeks between the posting of letters and receipt of your ad by our readers.
- Please notify Engineers Swap Shop as soon as the property you have advertised is sold.
- Because the purpose should be served within the period, ads henceforth will be dropped from the newspaper after three months.
- Address all ads to: Engineers Swap Shop, AL CLEM, Editor, 474 Valencia Street, San Francisco 3, California. Be sure to include your register number. No ad will be published without this information.

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