Price Ten Cents

Vol. XII--No. 147

Helena, Montana, Sunday, April 17, 1955

# Huge Task of Converting Phones to Dials Progressing



COMBINATIONMAN WAYNE C. SOUTHWORTH (right) receives his conversion orders for the day from Conversion Foreman R. T. Evans, who is supervising the conersion of all telephones to dial operation in Helena and East Helena. Southworth and eight other conversion installers are installing dials in preparation for the Helena dial conversion later this year.



CHECKS, PLANS JOB-After receiving his installation orders for the day, Southworth checks them to plan his job for the day and to determine what special equipment he will need. For example, he may find that some of the homes scheduled for conversion that day have colored sets, and therefore require special dials.



LOADS ALL NEEDED EQUIPMENT-Southworth loads necessary equipment (new sets where necessary) dials for colored sets. special tools, and other miscellaneous equipment into his installer's truck before leaving the company garage on North Last

# Actual Work of Installing Dial **Equipment on Subscriber** Phones Shown in Picture Story

ous amount of detailed work and residents will be home.

tire telephone system is converted part of the year-long dial con moves the old number at cutover ber.

ersion work. When all this work is com-

Southworth does on one typical to dial operation:

phone Company garage on North erly under dial operation. Last Chance Gulch. Here, he is stallers, he checks each one care be changed.

Just what does a telephone con [need. For example, if conversion series of open houses to show the ersion installer do when he of any colored sets are scheduled, public its new Helena dial system eadies a Helena telephone for he must carry the proper dials. Also, some locations may indi-In order to show the tremen cate special times of day when the

day on the job with Combina heads for the first conversion amount of interest in the new ionman Wayne C. Southworth. job. At each location, the installer dial equipment and building. one of nine conversion installers asks permission of the resident However, it is impossible to allow now working in the Helena ex-before he enters the house to go the public to visit the scene of

on the telephone set, Southworth Therefore, a few weeks after telephones have been prepared telephone and fastening the dial, with the dial system.

to dial operation later this year. numbers. On top, showing to the public visitors before the con-Along with installation of telephone user, is his present version. thousainds of new dial switches, number. This will be used until miles of telephone cable, and all the actual cutover time later this the other allied equipment in the year. Under this present number records group then corrects their new \$1,000,000 dial office building at 414 North Park, installa. This does not show, but is in place and start developing new dial

pleted, and each of the thousands each person at the residence or heads for the garage with the of pieces of intricate equipment is business office about removal of conversion orders marked comfully tested. Helena's telephone the old number when the proper pleted. If he is unable to gain system will be converted to dial time comes. Telephone users are access to any home because of the operation at one time. This final also told that the new dial can absence of the resident, he so cutover—expected later this year not be used until that time, and reports. These are done at a later -will actually take about one they should use the set in the date. present way, with the present Here is what Combinationman number, until then.

day of converting telephone sets installer makes a series of test are many, many more behind the calls to special test equipment to scenes workers on the Helena con-First, he reports to the Tele-make sure the set functions prop-

given a number of conversion that all new Helena and East necessary records, and originate orders that he will complete dur-Helena telephone numbers will be the orders that are given to the ing the day. The result of hours contained in a new telephone installers. Another large crew of

working according to location for stationery or advertising be trained in operation of the new "thank you" as they hang up. When he receives his orders for fore the conversion date because long distance switchboard. the day, along with the other in there is a slight possibility it may

the parts of town he will visit pleted, the installer notifies the carefully planned job that takes tal patients in the United States service will be handled in the up and discarded, showing the typing, to make Helena's dial con-digits out of the seven total. This rd any special equipment he will records center by telephone. The many months of hard work.

# Series of Open Houses Planned To Show System

The Mountain States Telephone sion late this year.

Because of the dial conversion activity in Helena during the past He then loads his truck and year, there has been a large conversion activities in the build-Before actually beginning work ing during actual work

checks the protector. Located dial conversion, a series of free, where the telephone drop wire guided tours of the new building lace in the exchange. Dial tele-is given a routine check to insure all interested persons will be it meets conversion standards. He sl own through the new building installed by Helena's regular then spreads a protective "drop at 441 North Park, and will be cloth" on the floor and adds a shown all the wonders of the new dial to the telephone set. This No. 5 crossbar dial system, the work began Jan. 3, and will continue until all of Helena's 10,000 telephone and fortanted the number and everything else connected

for dial operation. However, telephone users will not be able to use the dials, and the new Hickory 2 numbers, until the en-The dial contains two telephone clean during installation to have

tion of telephone dials is just a and will show when the user re- records for that telephone num-

After completing his dial con-The installer carefully instructs versions for the day, Southworth

Although there are only nine After the dial is in place, the placing dials on telephones, there stantly, day and night. When the the sun from view. version. There is a large crew that does nothing but assign numbers she automatically hangs up. The resident is also reminded to the telephones, prepare the

reach the conversion installer, all telephone users before dial some time installing the tons of the conversion orders are allotted cutover. o the installers by their foreman. They are asked not to use the ment in the new building. And, over the telephone that telephone

is not seen by the public, the work fully. This gives him an idea of After each conversion is com- of a dial conversion is a complex.

COMPLETED UNIT-A picture of a Helena telephone with the newly installed dial, carrying a sample Hickory 2 number. Although the new dials all have the new numbers when installed, present numbers are left in place over the new number, to be removed by the resident after dial cutover. Telephone users are asked to use the telephones in the usual manner, using the present number, until after conversion. They are warned that the dials cannot be used until that time. At cutover time, the residents can remove the present number and the new dial number will then

### 'Audie' Will Give **Subscriber Time But Nothing Else**

operator will supply the time of done beneath the streets. day to Helena telephone users after dial conversion.

This shiny, electronic operator cally gives the time of day when 10,000 telephones. a specially-assigned number is dialed.

special number is dialed, she answers by saying "the time is -",

wen't refer you to another oper-

So human does Audie sound That's all right, though, because Actually, although much of it Audie likes to be thanked, even though she can't hear it.

Only about 4 per cent of menare in private hospitals.

# **Underground Wiring Eliminates Need**

Of Elevated Poles

tivities most in evidence to Hel-matter carrying that number tion group, headed by R. T. Evans, A new, 600-pound, electrical ena was the underground work until the new directory is issued

Just what was this work and why was it necessary.

ble, it would be necessary to before dial conversion, the sta- partment for its information files. Audic consists of a pleasant fe-string the wire on poles. Years tionery would be wasted. male voice, recorded on tape, that ago this was possible, but the repeats the time of day three number of overhead wires nec- all business telephone users sugment file, to be used in any future conversion installers actually times a minute. She operates con- essary today would almost blot gesting that they wait until after contact with the telephone user.

She will do nothing else. She are various sized, lead-covered before the dial conversion, and tory will be made up for use after won't answer questions. She cables in the nine-duct conduits, the numbers will be firmed by dial conversion. The largest cable is more than that time." of careful office work before they directory which will be sent to technicians has been busy for ator. She knows her job—and two and a half inches in diameter, telephone wires.

three purposes. It recenters the number plate until actual cut-installation foreman's record. Each order is scheduled for new assigned Hickory 2 number of course, operators are being users find themselves saying present cable distribution system over date. This prevents any con An the final two stay in the seven-digit dialing after the conon the new building on Park av-fusion during the remaining plant and commercial records version later this yearenue. Second, it connects local months that the present number centers for future reference.

new building.

# Records of Dial Conversion Work On City's 10,000 Phones Is Important Phase of Actual Job

three small records groups will Supervisor Bernice Baer. process more than 100,000 records, every one of them absolute-

version and thereafter.

in the plant center, five in the commercial center, and three in records center is headed by Plant Assignment Supervisor R. L. Peden. The commercial records center is headed by Commercial

#### Warn Firms Not to **Order Stationery Until Number 'Set** Business and professional peo-

their new Helena dial numbers and number plate are filed by ness in the new building on Park are warned by the telephone area. One of the dial conversion ac-company not to order printed later this year.

Although very few original dial number assignments are changed The under-street work consists after once being assigned, such a in eight copies is named "Audie," short for audi- of installing tile conduit and tele- change sometimes is necessary. The telephone company has dechron. Audie is a machine with phone cable that carried the city's Therefore, if a person or firm cided that this is the absolute recorded voice that automati- rew dial system to its more than should order stationery with the minimum number necessary for new Hickory 2 number, and the dial conversion and operation. Without this underground cal number should then be changed One copy goes to the traffic de-

For example, there are almost fore using their new numbers on to the Montana accounting depart-

and contains 4.200 single, fine new number plates put on their partment, one for use by the con-dialed to reach another number. This underground cable serves numbers hidden by the present on the new dial, the other for the ena exchange area are urged to service between the new building will be used on a manual basis. and the Jackson street building. At conversion time, the present ords-more than 100,000 all told to reach another telephone num-At time of conversion, all local number plate can then be lifted in Helena—and a lot of records ber by dialing just four or five new dial number.

elephone dial conversion work, traffic group is headed by Traffic to have two complete telephone For each telephone assigned a time.

new line and number during the

After Peden's group originates months. the order, it is sent to the traffic the traffic center. The plant group, where a new dial number is assigned.

of telephone wire or cable that es, are being readied for operadial telephone.

The commercial group, under information.

Peden's group then makes a

Lastly, the conversion installaphone in homes and offices.

Another copy goes directly to "We have sent out letters to the business office for a perma receiving the new directory be. Another copy, the third, goes

6.000 miles of fine wire in the printed matter," commented Hel-ment for use in making up bills. numbers to get their parties after giving the hour and minute. Then underground cables being in ena Unit Manager E. S. Haines. Th fourth goes to the directory conversion. stalled under the streets. There "The directory will be out just department, where a new direc-

telephones to leave the new dial version installer when he puts

## Two Complete Phone Systems Will Be **Needed at Cutover**

During the course of Helena's Dial Supervisor C. D. Crapo. The telephones to dial, it is necessary

At the actual time of conver-Helena dial conversion, an as-sion, there will be a completely The records groups are essen-signment order is written in new dial system ready to take ial to efficient dial conversion, eight copies. This order origin-over, and there will be the com-There are three groups: plant, ates in Peden's group. It con-plete manual system still in opercommercial and traffic. They tains the basic records memoran ation. Then, at cutover, the manoriginate, distribute and file all dum, including the terminal ad- ual system will cease operation records used during the dial condress of the person for whom the while the dial system takes over. telephone is listed, present type This actual change takes but a There are only 21 persons in of service, present number, and few seconds, but preparation for these three records groups; 13 any other pertinent information. it and subsequent work takes

> In order that Helena's tele phones continue to operate, the manual system must be kept in The order then returns to the top condition right up to the plant group, where outside plant moment of cutover. But simulassignments are made on a dial taneously, tons of new dial equipbasis. In other words, a record ment, including thousands of is made of the type and location brand new No. 5 cross-bar switch-

Then, until the time of con-Crapo, then types the eight-copy version, the old system will be service order with all this new building on Jackson street. At the same time, the new system new number plate, carrying the will be all shined, polished and ple and business firms receiving Hickory 2 number, and the order tested to a high degree of readiavenue.

> Comes cutover-planned later this year. Switches are thrown. picks up the orders and number Cables are cut or disconnected. plates to be placed on the tele-Wires are connected. And in a few seconds, the old system is Why are the orders made out quiet and still—the new switches are clicking away—and a new dial system is in operation.

### All Seven Digits Must Be Dialed

Helena telephone users will have to dial all seven digits of their new Hickory or ACademy 7

Because of the number of telephones involved, more than 10.-000, and the type of equipment, Two more copies, the fifth and the latest No. 5 crossbar dial Haines also urged those having sixth, go to the installation de-switches, all seven digits must be So, telephone users in the Hel-

prepare themselves for correct

In some dial exchange areas So you see, it takes a lot of rec- with seven digits, it is possible will not be the case in Helena.



CHECKS WITH SUBSCRIBER—One of the homes he visits is that of Ralph Traywick, 1220 Ninth St., where he is greeted by Mrs. Traywick and her five-year-old daughter, Connic. He tells her he has come to install dials on any telephones listed under the Traywick number, and asks permission to do the work.



stallation is in proper service condition. Needed repairs are made where necessary.



INSTALLS DIAL-Actual work of installing the new dial (carrying a seven-digit number beginning with Hickory 2 in Helena and ACademy 7 in East Helena) at the home of W. F. Howard, 1784 Sixth. Notice that Southworth has placed a "drop cloth" ever Howard's rag to prevent wire clippings or dirt falling on it.



USE INSTRUCTION-Mrs. W. F. Howard receives instructions on proper use of her new dial telephone. Installers always ask residents to listen to dial tone and busy signal, simulated for this purpose; to insure they will recognize it when the dial system goes into operation in a few months.