



C.R. Paving Work

Above is a view of the Mt. Vernon road SE project from atop Mercy hospital. The paved portion along the edge of the Mercy parking lot is the west half of Tenth street. The dirt road it intersects with is Eighth avenue, which was being paved Thursday. Mt. Vernon road is shown extending to the top of the picture. A fence surrounding McKinley school is shown at upper left. In photo at right, a crew is shown paving the north half of Eighth avenue SE. The south paved portion of the street is shown at right. Mercy hospital and McKinley school are shown at the upper left. The view is to the east.

By Charles Connell

"Why haven't they finished that street? It doesn't look like they've done anything for the last month?"

People who live along streets or roads being repaired, such as those in the Mt. Vernon road SE project, often voice these sentiments.

In some cases, it is true. In others, the work is not visible to persons living along the thoroughfare under repair.

"But once they start paving, the road will be open in no time," people who have been inconvenienced by repairs state. This is not exactly true either.

After the concrete has been laid on streets in the Mt. Vernon road project, for example, they are covered with burlap and must cure about a week before they are opened to traffic. In addition, the paving

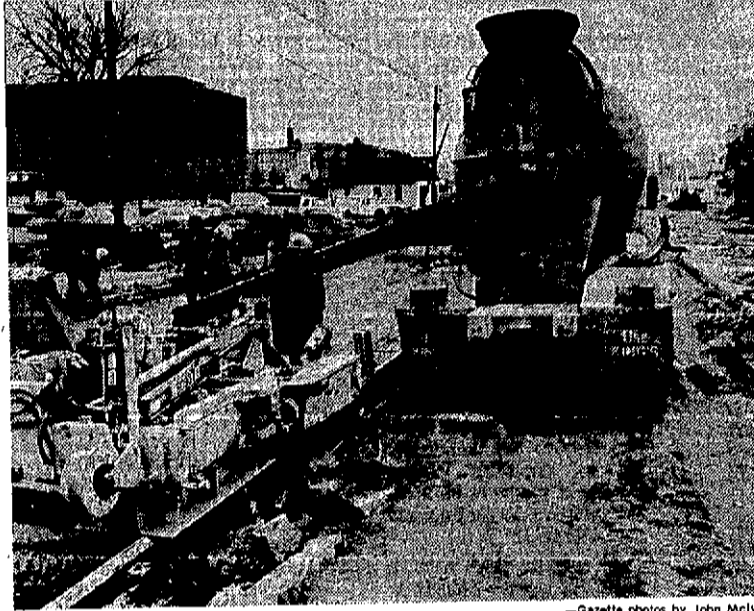
machine being used can only do one side of a two-way street at a time.

Mixing Concrete

Even mixing the concrete is not as simple a task as it might seem. A number of elements, including rock, sand, water, cement and an "add mixture" to create air bubbles in the cement must be tested and combined to form the final product.

The first step in making concrete is to get rock and sand of specified types and sizes, and mix them to form an aggregate. The mixture is then tested for its moisture content and combined with the cement.

Although the cement is the bonding agent it is not the main ingredient in the concrete. A batch of concrete being prepared for the Mt. Vernon road project, for example, included 1,470 pounds



—Gazette photos by John McIvor

of stone, the same amount of sand, 626 pounds of cement and 36 gallons of water.

Mix Sampled

After the aggregate's moisture has been inspected (preferably twice each day when the concrete is being mixed) and the gradation checked, a sample of the mix is placed in a small tank that resembles a pressure cooker and is checked for air content.

City Engineer Jon Janda said the "add mixture" that is used in making concrete causes air bubbles to be formed, strengthening the concrete. "We shoot for six percent air in the concrete (by volume)," he said.

The concrete is then placed in a large funnel-like object, open at both ends, and tamped down with a long metal rod. When the funnel is lifted away from the mixture, the damp concrete flattens out or "slumps". The slump test gives engineers some idea of

the concrete's strength and moisture content.

"The main thing that determines the strength of the concrete is how wet it is," Janda said.

Strength Tests

Finally, after the concrete has been mixed and is being applied to the graded roadbed, samples of the mixture are placed in small collapsible metal boxes called beams to be tested for strength.

After the concrete has hardened, the sides of box are removed and the concrete blocks are placed in a tank filled with water where they stay for a specified time (in one test, one block soaked for a week, and another from the same batch stayed in the tank 14 days). They are then removed from the tank and put under pressure until the blocks break. If they are too weak, the mixture is changed.

Making concrete, paving

Ray: May Be No Cuts at Universities

DES MOINES (AP) — Gov. Robert Ray Friday said he does not believe the state board of regents will be required to cut the projects the regents listed Thursday as their lowest priorities if they receive only 90 percent of the current year's budget next year.

Ray had asked the schools — and all state agencies and departments — to work up their budgets as if they would receive only 90 percent of the current budget in order to "justify" new askings to the legislature.

"I don't think that the fact that certain programs were listed by the regents jeopardizes the programs," Ray said. "The idea is to justify what they ask. There wasn't sufficient justification to satisfy legislature two years ago."

The regents listed as their "lowest priorities" such items as the Oakdale sanatorium in Iowa City, radio stations at the University of Iowa and Iowa State university, some extension courses, 400 to 500 faculty members at ISU, slashing patient care at University hospitals in Iowa City, eliminating the University of Iowa band and Highlanders and general curriculum cuts at all three universities.

Ray said higher education "has a friend" in the lieutenant governor and governor. He said he and Lt. Gov. Elect Arthur Neu "fought kind of a lonely battle last time" when Neu was a state senator.

Ray said he has not talked to the regents about their 90 percent proposal but "they've assured me they followed our request. I have not seen their explanations or request."

Ray said he will hold budget hearings to discuss the proposals with the regents and university officials. He did not say when the hearings would be held.

Ray specifically mentioned the radio stations at the universities, saying he "wouldn't anticipate" their loss.

Teacher, Ex-Pupil Represent District

ST. JOHNSBURY, Vt. (AP) — Although he was just elected to the Vermont house of representatives Tuesday, Gregory Reed, 19, already has learned a lot from his district, Louise Swainbank.

She was his seventh-grade English teacher.

Demonstrating Sailors Split Up, Transferred

SAN DIEGO, Calif. (AP) — Sailors who complained of racial discrimination aboard the Constellation giant aircraft carrier Constellation have been split up and transferred to shore duty at three bases, the navy says.

Announcement of the transfer Thursday came eight hours after the 130 men, raising clenched fists, refused an order by the carrier's commanding officer, Capt. J. D. Ward, to return to the ship.

"The men felt they would be hurt if they went back," said Seaman Howard Smith, spokesman for the group. "There's a lot of hostility on the ship."

Dissatisfied

Few of the sailors have been willing to talk to newsmen or to give their names, and none was available for comment after the transfer. But a spokesman for the Black Servicemen's Caucus, a group supporting the dissident sailors, said he had talked to many of them afterward and they were dissatisfied.

"The reaction of the men is that the navy has done what it traditionally does, employ a tactic in order to get the heat off," said Sidney Glass. "No fundamental issues were solved." He said he expected the men to obey the orders.

The sailors, all but 10 of them black, were put ashore last Saturday when the Constellation returned to port midway through training maneuvers off the California coast. Spokesmen said their complaints centered on discrimination in jobs and discipline.

Calmer Atmosphere

The navy said Ward asked the men to go ashore so their grievances could be discussed in a calmer atmosphere. The ship returned here again Tuesday and the captain met with the men, then ordered them to board the carrier again Thursday morning, promising that their grievances would be dealt with.

But Smith said the sailors distrust Ward and viewed the request to leave the ship as an attempt to avoid dealing with their complaints.

Smith, 19, of East St. Louis, Ill., said racial tension aboard the ship, which has made six trips to Vietnam, "has been going on all the time but just came out in the last two weeks. We just got ourselves together and started speaking up." Smith said a navy spokesman

agreed that one cause of the dispute was overcrowded conditions aboard the Constellation, resulting in early discharges for some black sailors.

"Two hundred fifty sailors sleep in the halls on the ship," Smith said. "In the last two weeks general discharges have been given to 19 black men who deserved honorable discharges." General discharges are considered less desirable than standard honorable discharges.

"The men were overcrowded and that led to all this," said the navy spokesman, Cmdr. Bill Collins. "Some people had been selected for early release. Some were being dropped for non-achievement reasons."

Some Complain Weren't Given Franchise Ballot

The Linn county auditor's office has received a number of complaints from Cedar Rapids voters that they were not offered ballots Tuesday on the question of granting a franchise for cable television.

Auditor Arthur Williams said 45,285 Cedar Rapidsians (not counting absentee voters) voted in the governor race and that 43,175 voted on the cable television question.

These persons may simply have decided not to vote on the question, as many persons throughout the county voted in the governor race, but not on the county home bond issue, which was on the same ballot as the governor.

There were 94,876 Linn countyans (not counting absentee voters) who voted in the governor race, but only 55,261 voted on the bond issue.

Williams said that if anyone has a complaint it should be submitted to his office in writing, specifying which precinct was involved and details of the matter so it may be investigated.

He said instructions to the judges were perfectly clear that each voter in Cedar Rapids was to be given a chance to vote on the cable television question.

The political parties are responsible for supplying the names of competent people to serve as judges, he added.

The franchise issue was defeated by an unofficial vote of 29,420 to 15,834.

Robbery Motive Seen in Slaying

COGGO — Officials have indicated robbery was the apparent motive in the beating death of Carl Anthony Brunen, 31, here last Wednesday.

The Delaware county sheriff's office and the Iowa bureau of criminal investigation are investigating the case. Brunen reportedly died of massive head injuries.

Authorities suspect the crime was committed by a transient. Brunen's house, six miles northwest of Coggon, was ransacked, officers said.

It was not immediately known what, if any, valuables Brunen owned or if anything was taken.

Brunen was found in front of the house he rents from Kenneth Barker. Barker discovered the body.

Results of an autopsy have not been released.

Edna Herbst Gets Civic Center Post

Edna A. Herbst, director of promotion, publicity and public affairs for KCRG radio and TV, has been named chairman of the public relations committee of the civic center committee.

Tom Redford, general chairman, said committee members serving with Miss Herbst are James R. Ward, promotion manager of WMT, and Kenneth R. Kerscy, manager of Travel and Transport, Inc.

U.N. To Regulate TV Satellites

UNITED NATIONS (AP) — The United States cast a lone dissenting vote Thursday as U.N. members agreed 102-1 to draw up principles to govern satellite television broadcasting.

A U.S. delegate said the no vote underlined his country's belief in "the central importance of the free flow of information and ideas in the world."

The Soviet Union claimed victory in the drive for regulations over direct satellite broadcasting to television receivers.

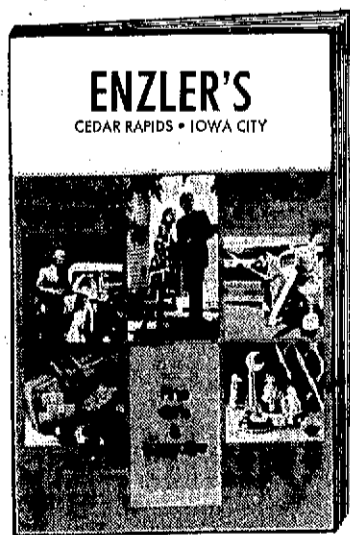
Constitution Minus Waterbed Guarantee

OAKLAND, Calif. (AP) — An American's constitutional rights don't include having a waterbed in an apartment, a judge says.

The Patriotic American Citizens' Committee for Waterbed Rights contended in a lawsuit that a number of landlords had violated their constitutional rights by refusing to permit waterbeds in their apartments.

But Superior Court Judge Robert Bostick dismissed the suit Thursday, declaring the group had no legal cause for action.

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