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Materials & Research Dept.

THE LOS ANGELES AREA FREEWAY SURVEILLANCE AND CONTROL PROJECT

A PICTORIAL STATUS

OCTOBER 1971

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This is simply a status report on the Los Angeles Area Freeway Surveillance and Control Project (LAAFSCP) in picture form. Most of the pictures were taken during September 1971.

If you plan to be in the Los Angeles area in the near future, we'd be pleased to show you the LAAFSCP facilities we have completed at that time. If you can give us some advance notice, we'd appreciate it; but if not, drop in and see us anyway.

You can contact either myself or Mr. Al Perdon at 213-620-2408 (ATSS 640-2408). If neither of us is there, you can make an appointment with my secretary, Miss Virginia Wodarz. Our facilities are located at 6th and Vermont in downtown Los Angeles (Le Sage Building - 550 South Vermont - 8th floor).

JOHN WEST
District Freeway Operation Engineer
Special Projects

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PHASE I

ELECTRONIC SURVEILLANCE SYSTEM AND CONTROL CENTER

STATUS:

- Construction contract by Raytheon accepted by Nov. 1, 1971. ~~October 1, 1971~~.
- Data collection will proceed for three months.
- The surveillance system and control center includes:
  - 900 sensor/detector units.
  - Field cabinets, telemetering equipment, etc.
  - Phone lines.
  - Traffic responsive ramp metering (Harbor Freeway).
  - XDS Sigma 5 computer plus peripheral and software.
  - Operator's console.
  - Status map.
  - Closed circuit television monitor.

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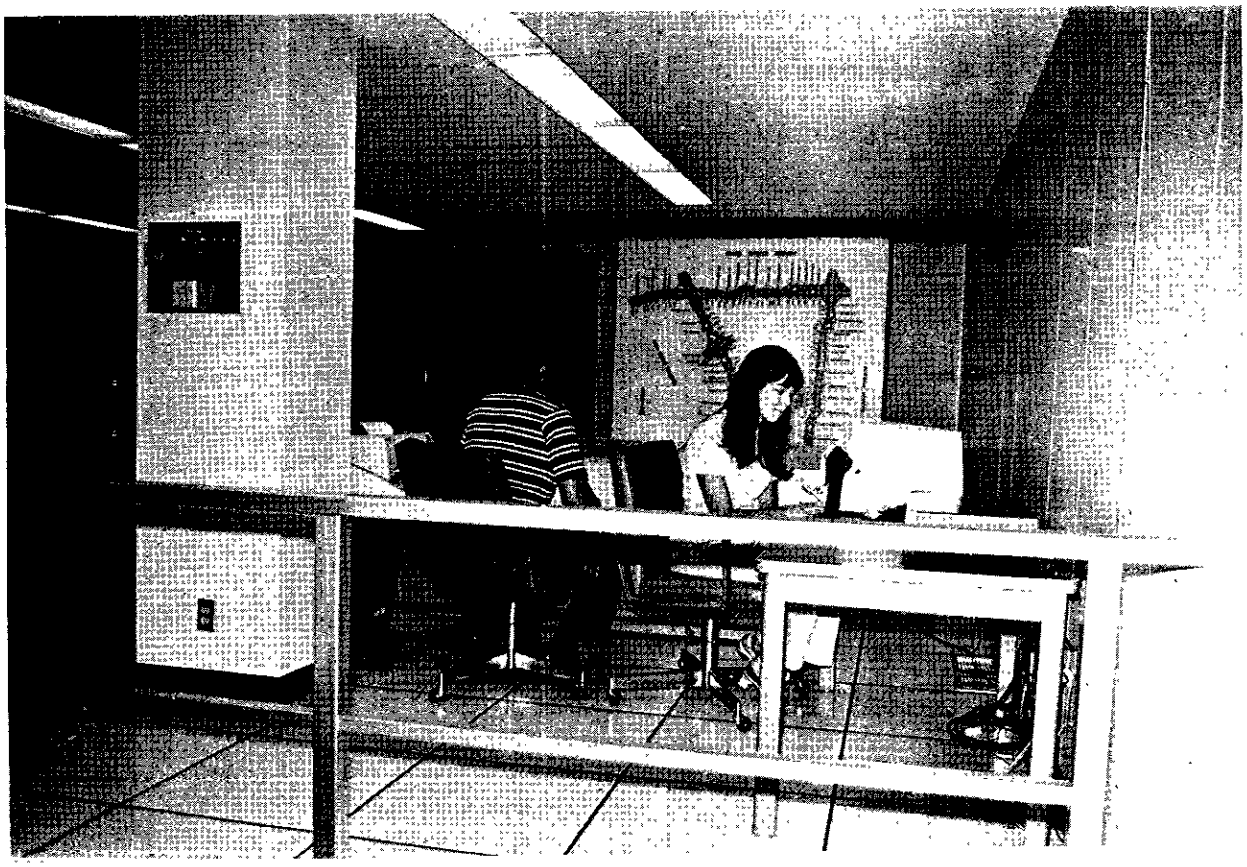
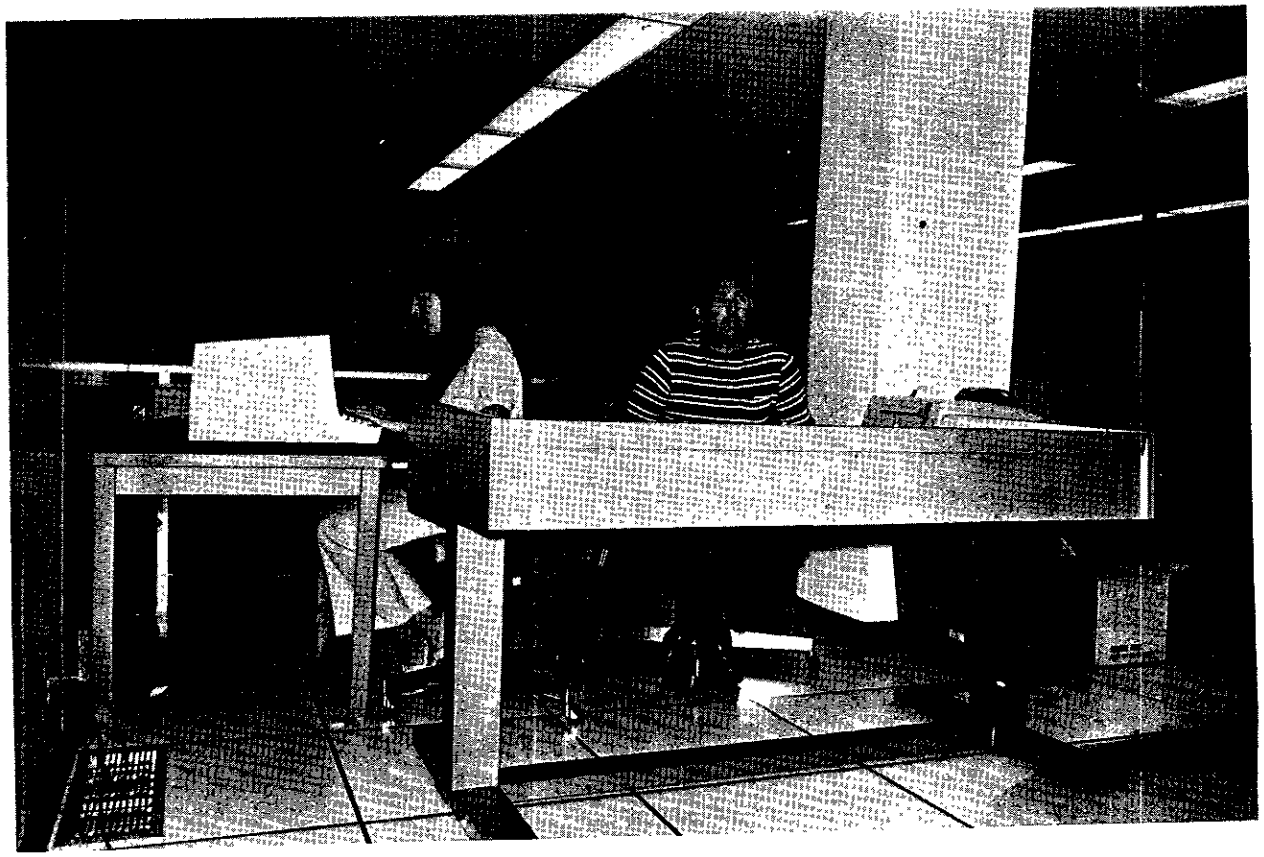


Partially completed control center. Computer equipment to left of picture.



Operator's console. Additional console will be added (to the right of picture).

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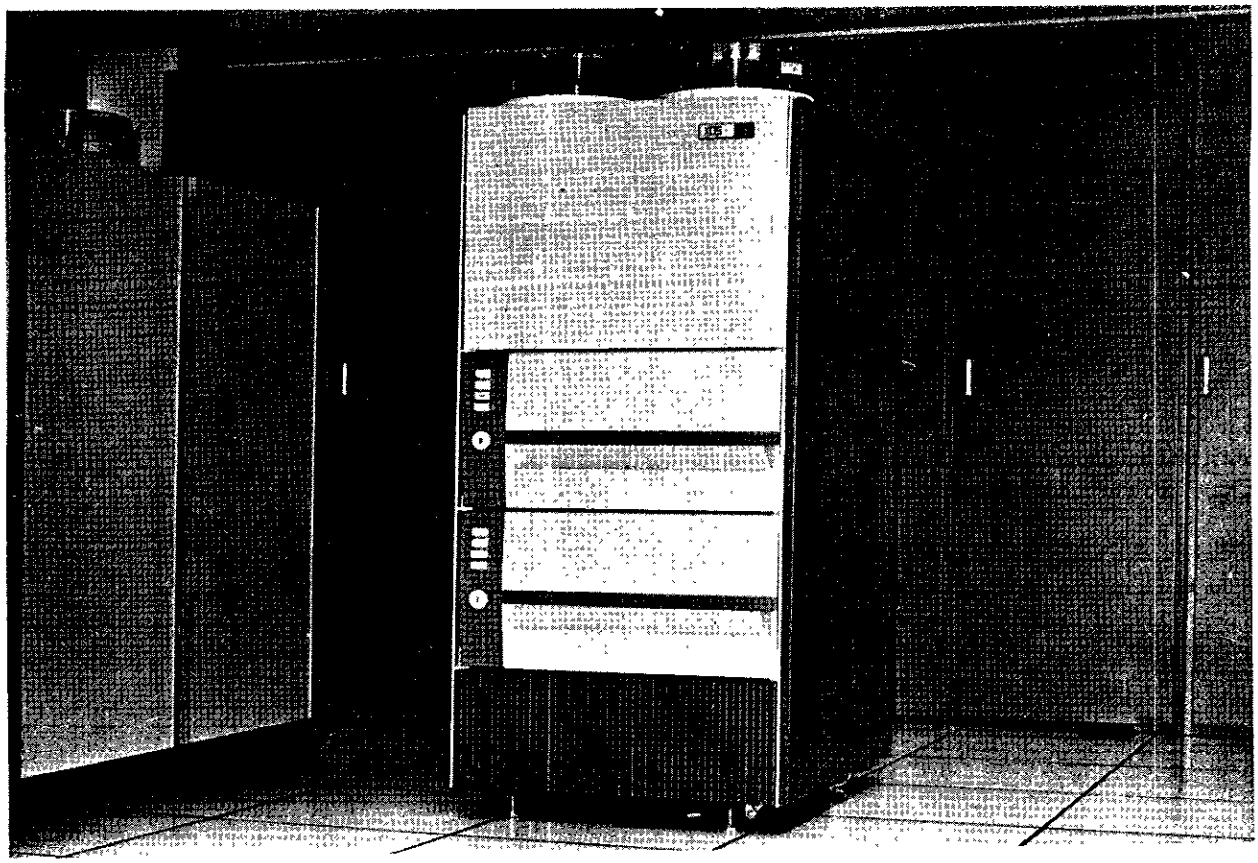
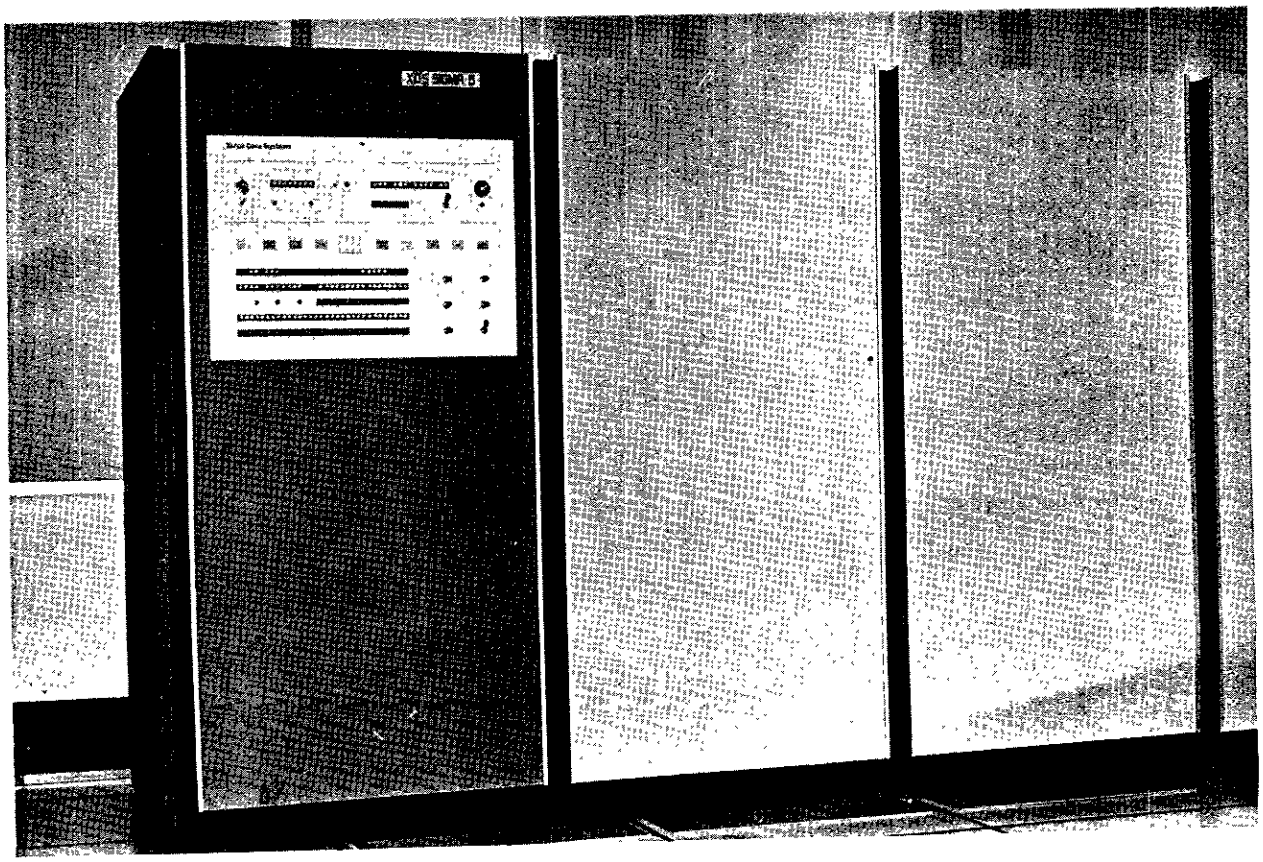


Computer memory unit in foreground. Telemetering equipment in rear.



XDS Sigma 5 computer.

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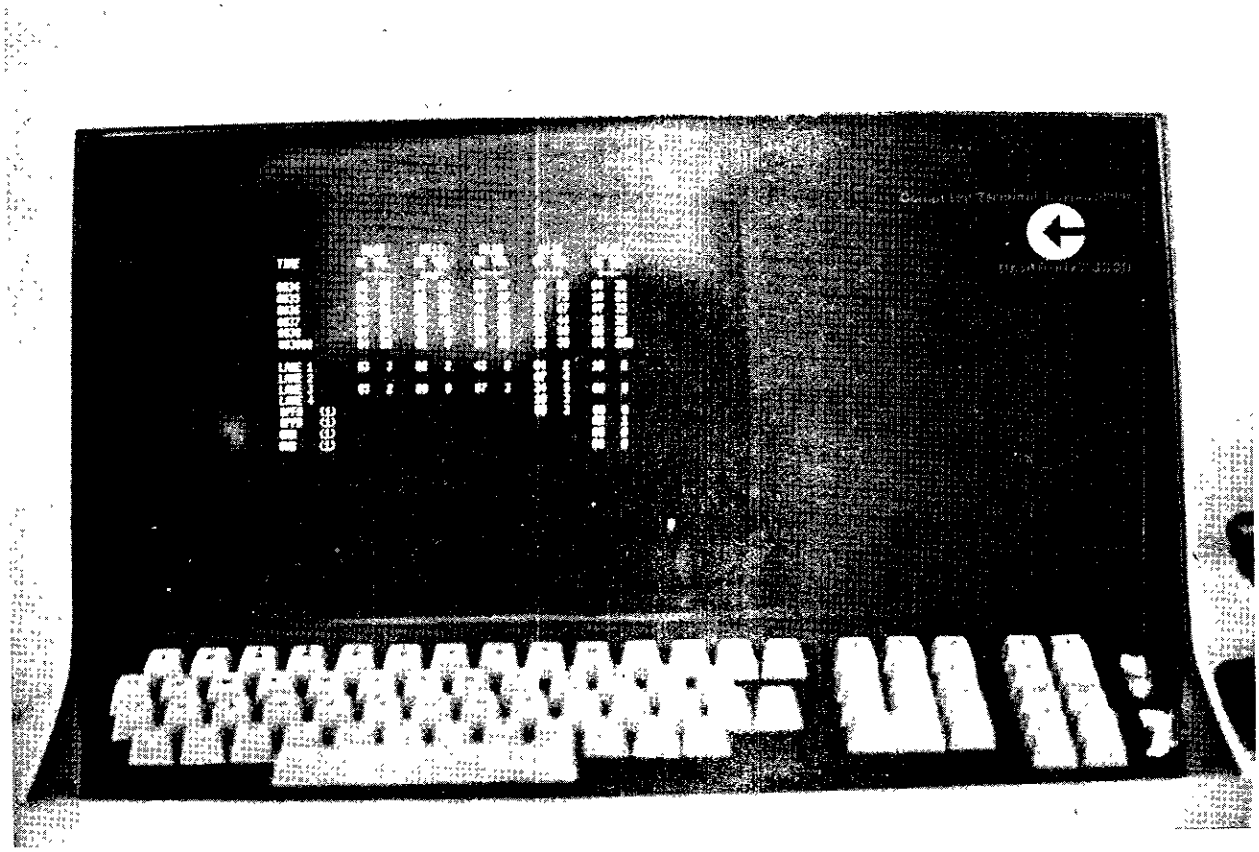

Cathode-ray tube with one 'real time' data format shown.

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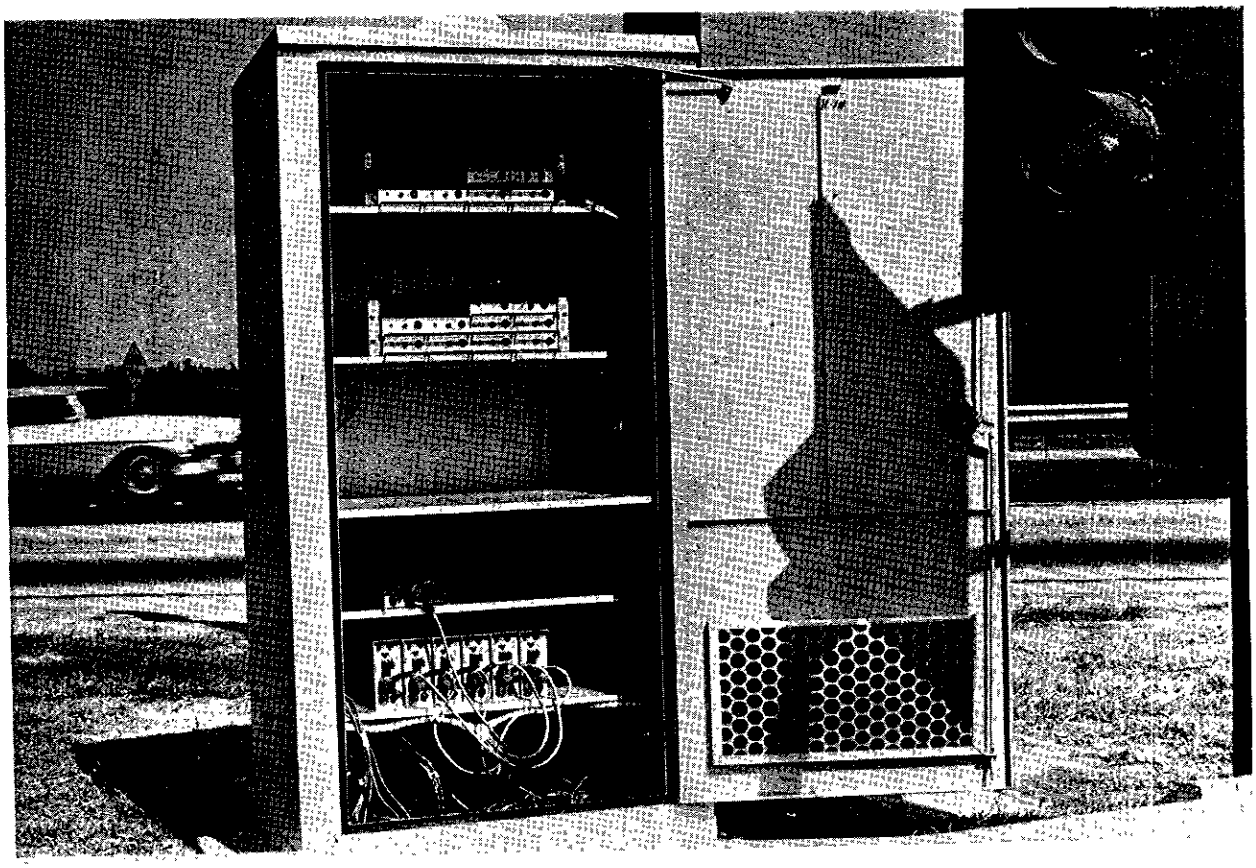
Sensors



Field cabinet with telemetering and power supply equipment.

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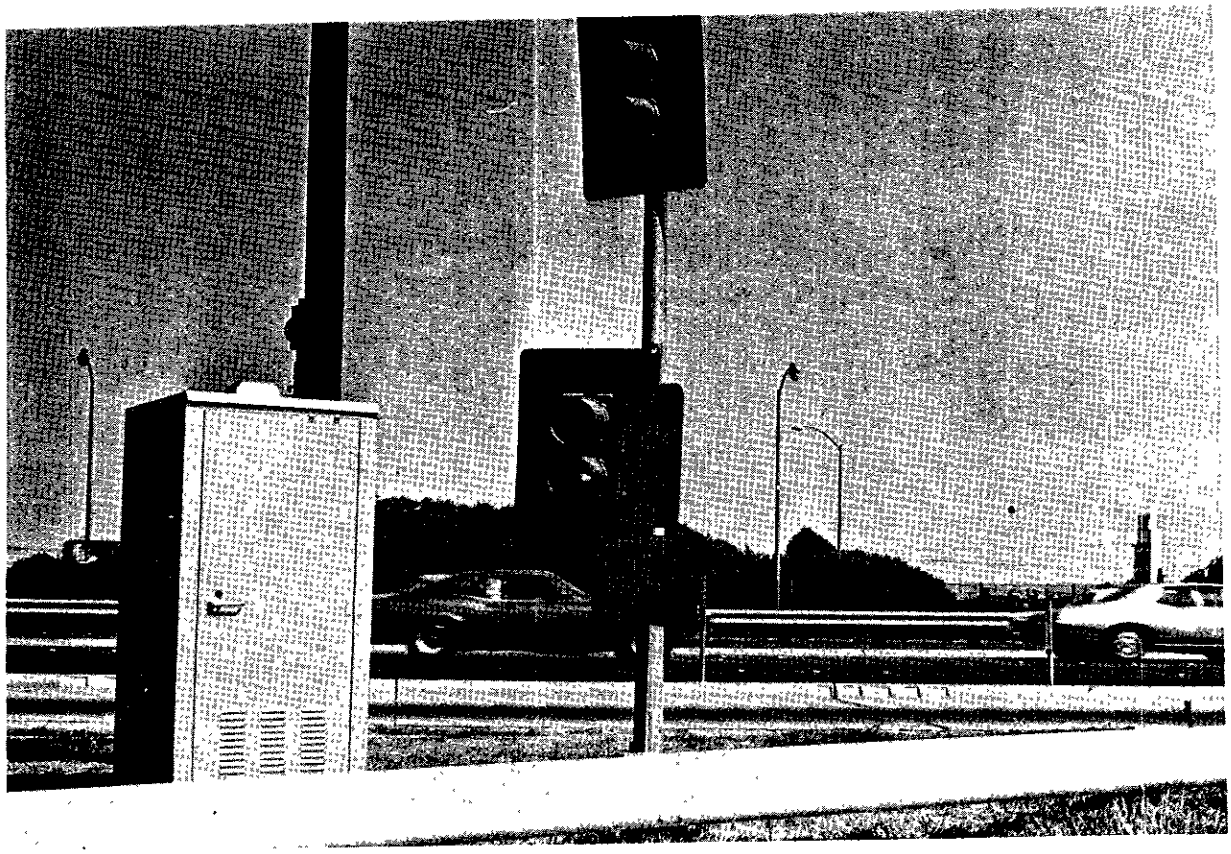
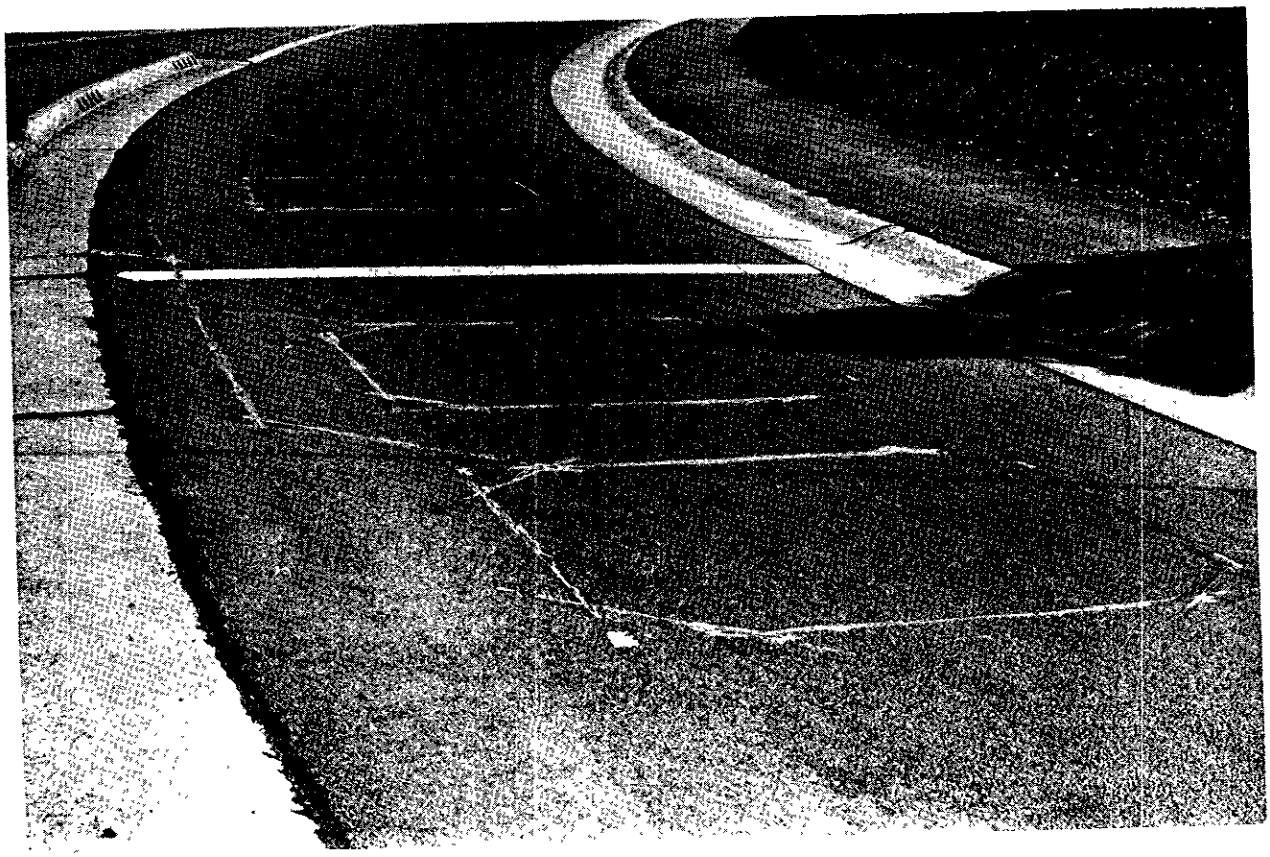


Ramp metering signal, Harbor Freeway.



Demand-passage sensors for ramp metering.

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PHASE II

EARLY DETECTION AND RAPID REMOVAL OF INCIDENTS PHASE SYSTEM

STATUS:

- "Incident detection" computer software is operational and is being tested.
- Helicopter/TV system will begin "training-shakedown" phase in October 1971. Full operation to begin in January 1972.
- Tow truck pilot study (two trucks) to begin in December 1971. Full operation (five trucks) to begin in mid-1972.

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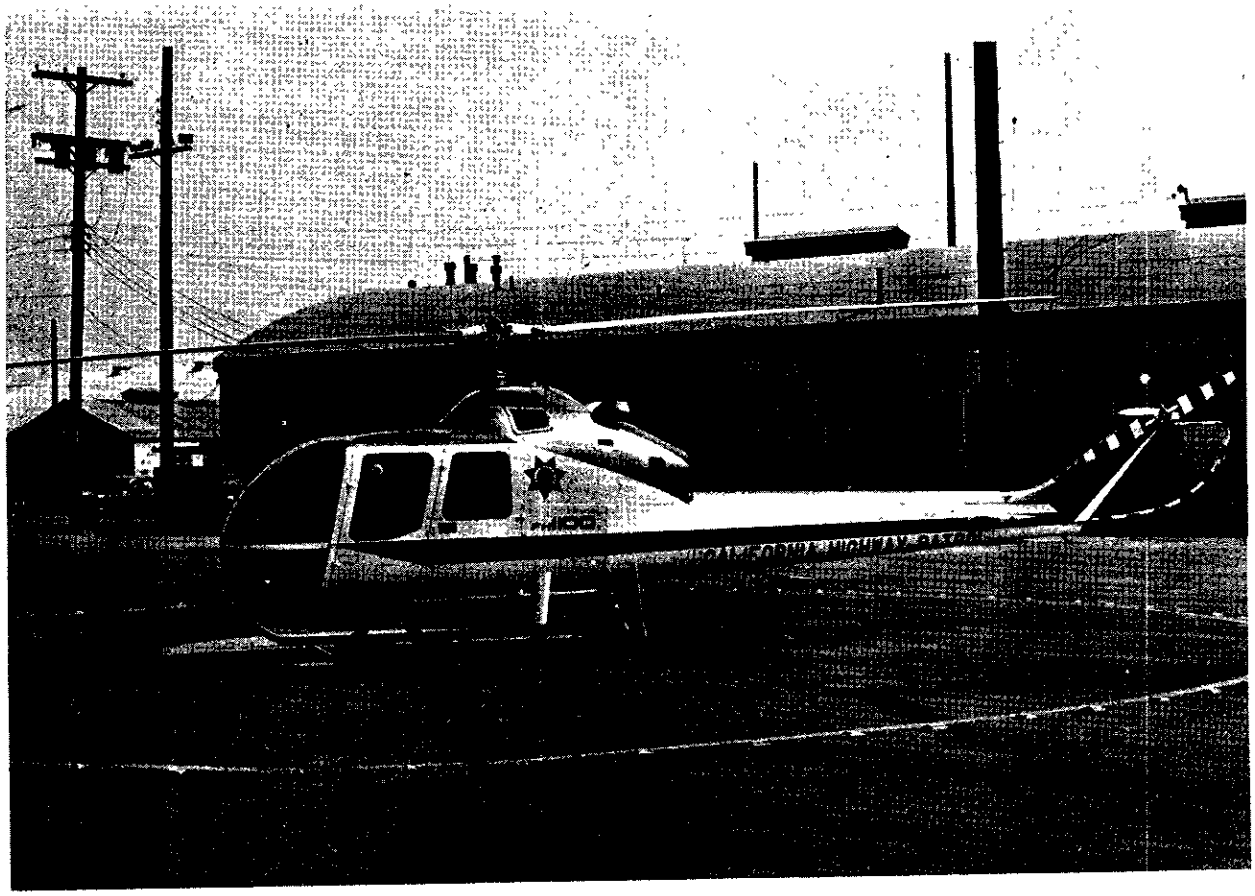

Fairchild-Hiller jet powered helicopter.

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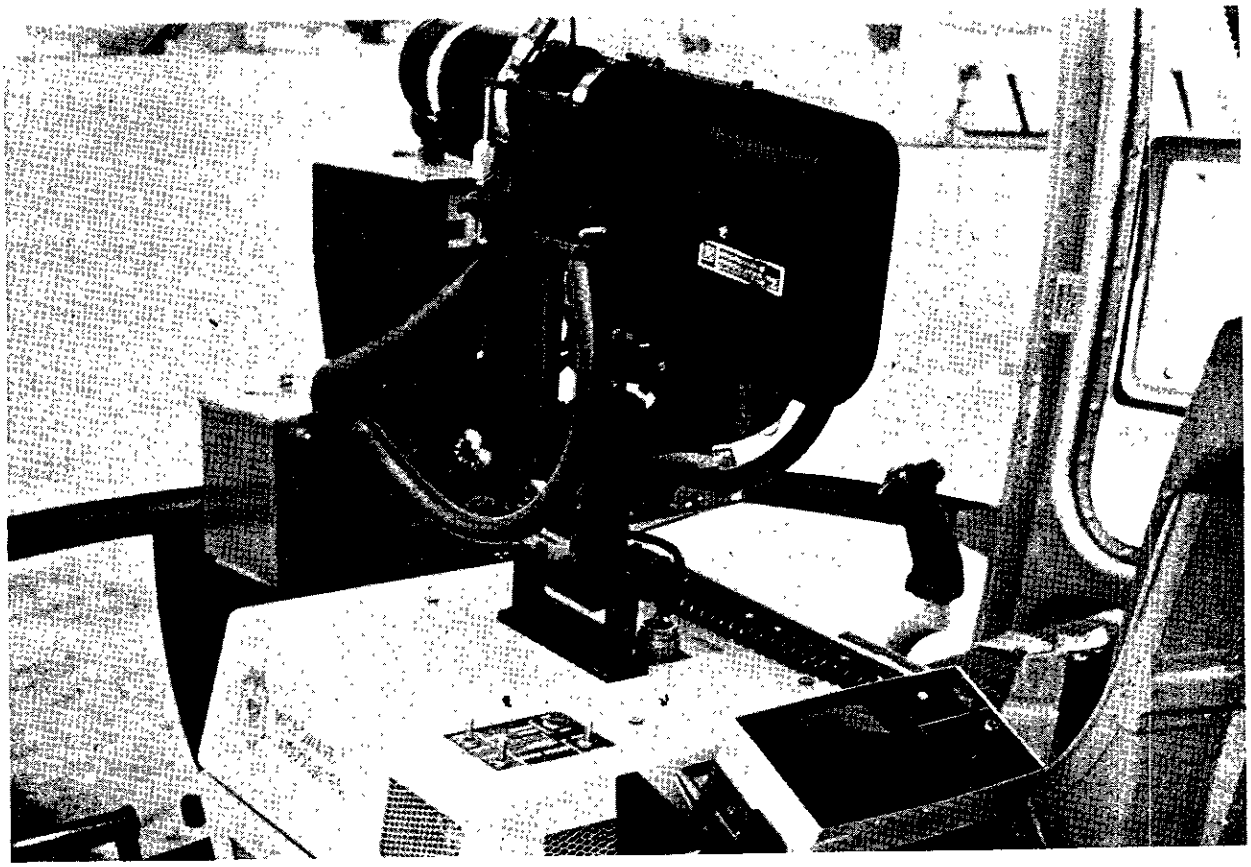
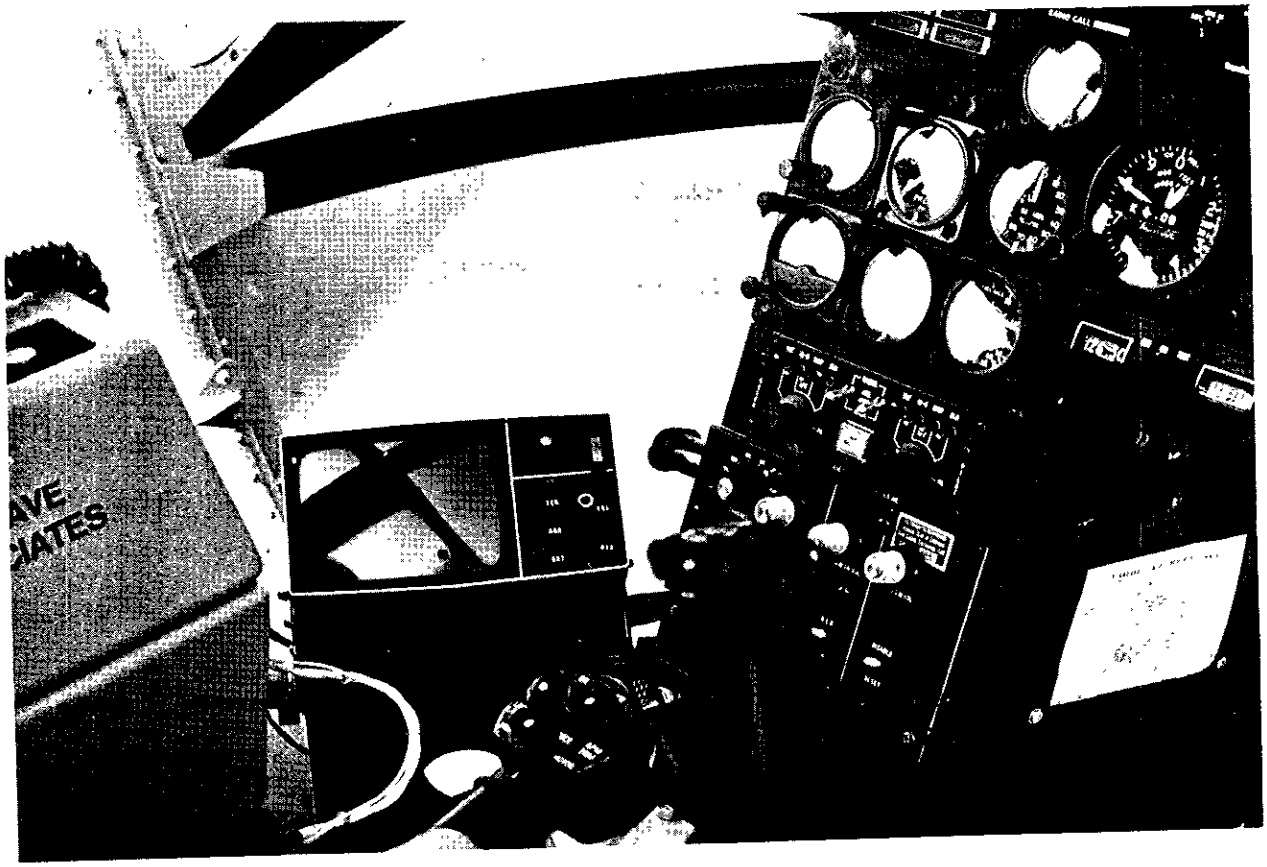


Helicopter TV camera and monitor.



Helicopter TV camera and monitor.

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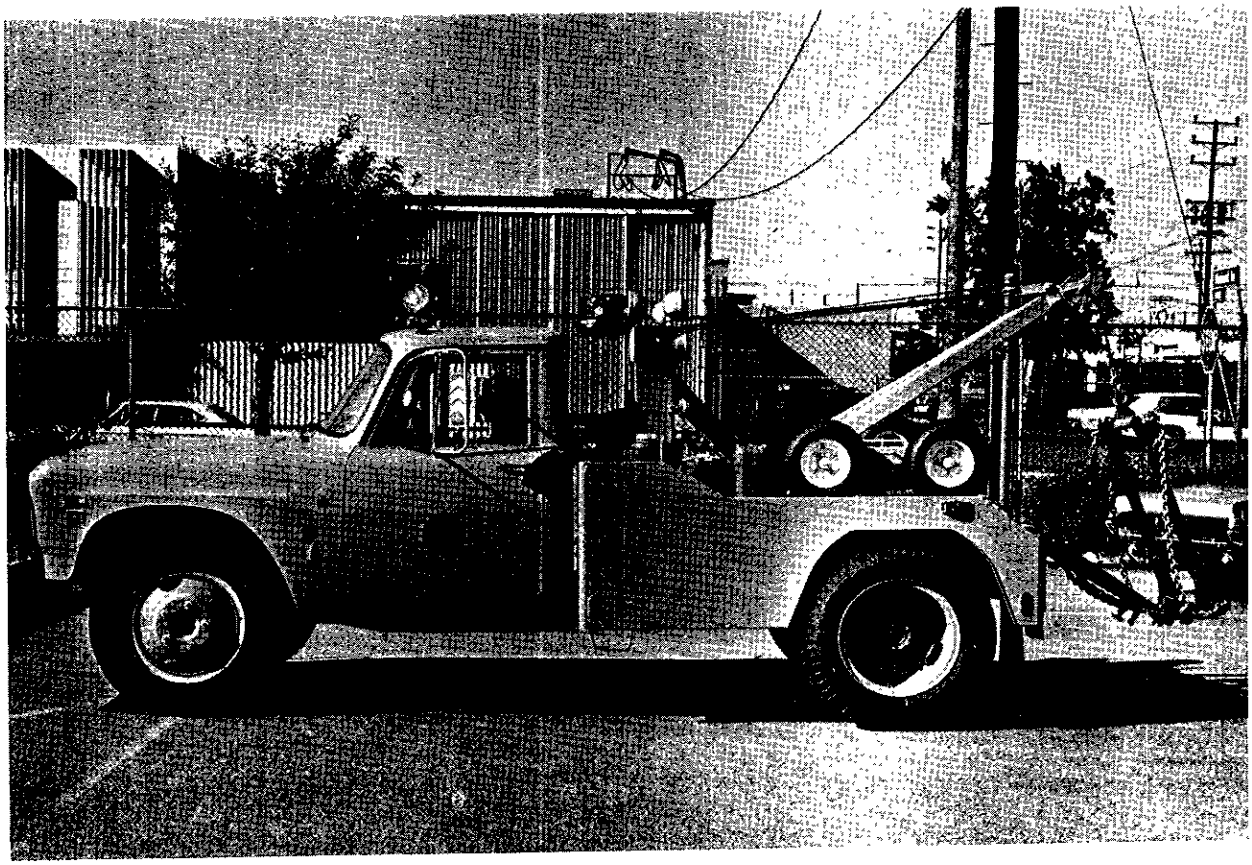
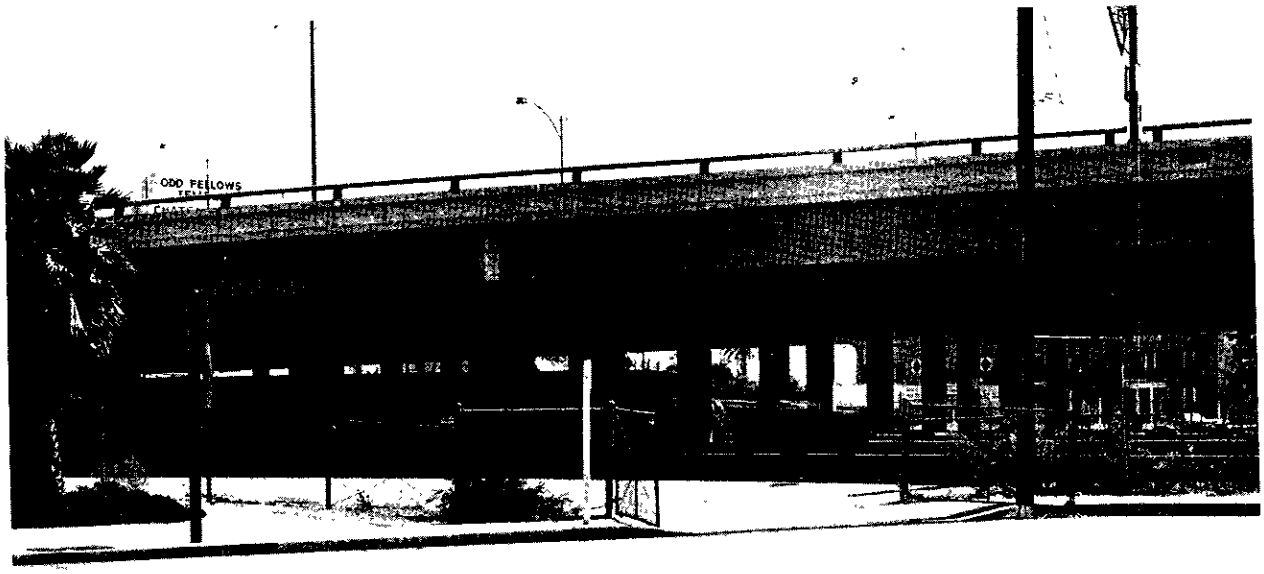


Tow truck.



Tow truck service patrol vehicle yard under the Santa Monica Freeway.

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PHASE III

MOTORIST ADVISORY SYSTEM

STATUS:

- Thirty-five matrix-type changeable message signs scheduled for the Santa Monica Freeway. PS&E complete. Full operation to begin in mid-1972.
- Roadside radio system scheduled for San Diego Freeway. PS&E complete. Full operation to begin in mid-1972.

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Typical matrix-type changeable message sign (simulated).

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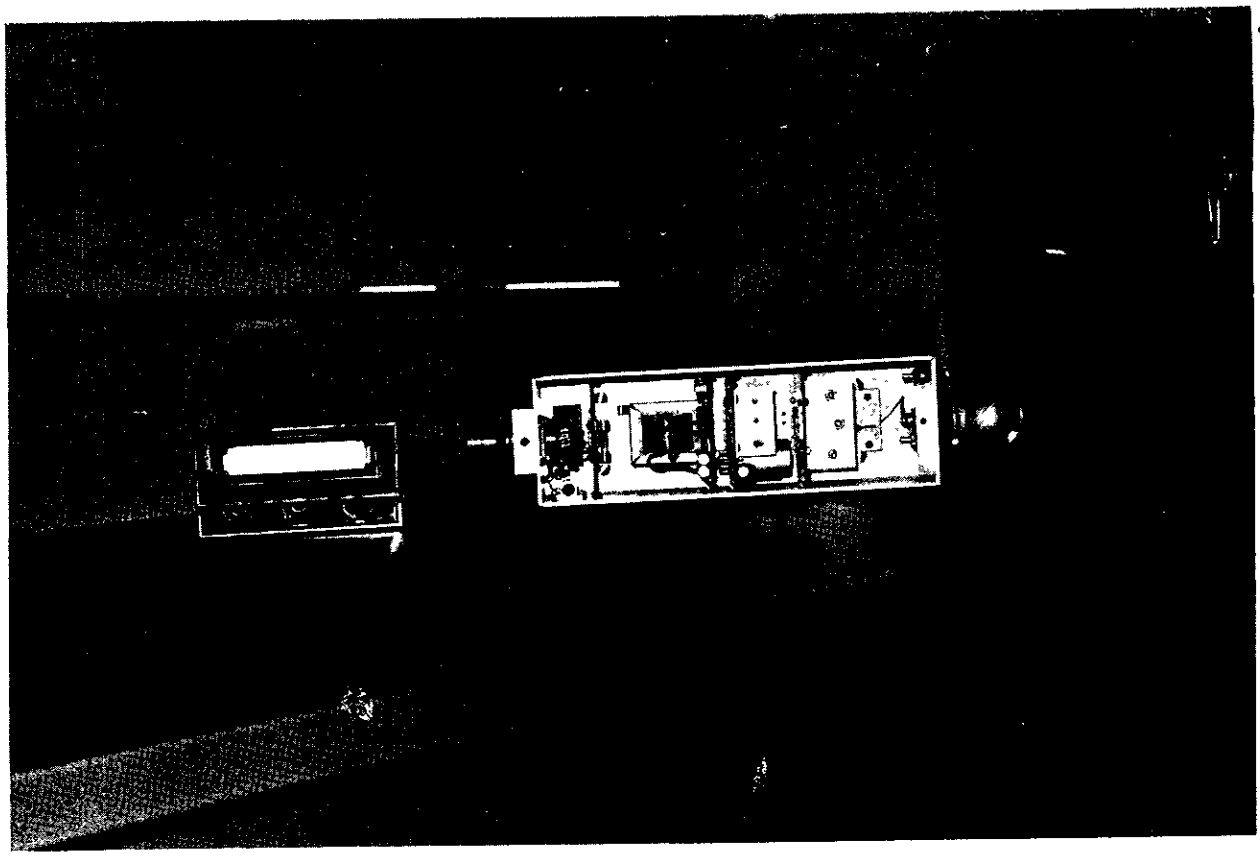
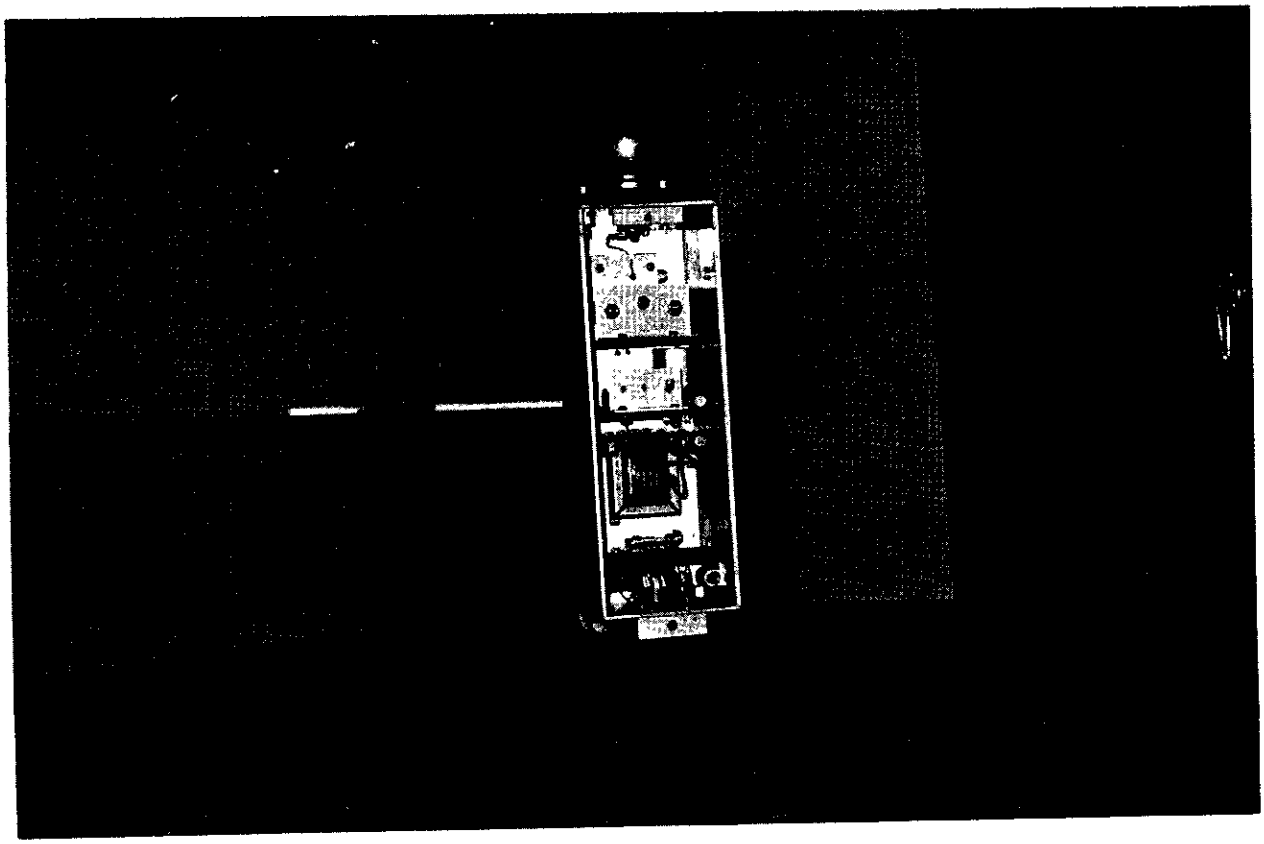


Typical roadside radio transmitter.



Typical roadside radio transmitter. Whip-type antenna is attached.

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PHASE IV

SERVICE FOR STRANDED MOTORISTS

STATUS:

- Freeway phone study under way.
- Service patrol "pilot study" (two service patrol vehicles) to begin October 1971.
- Full service patrol operation (five service patrol vehicles) to begin mid-1972.

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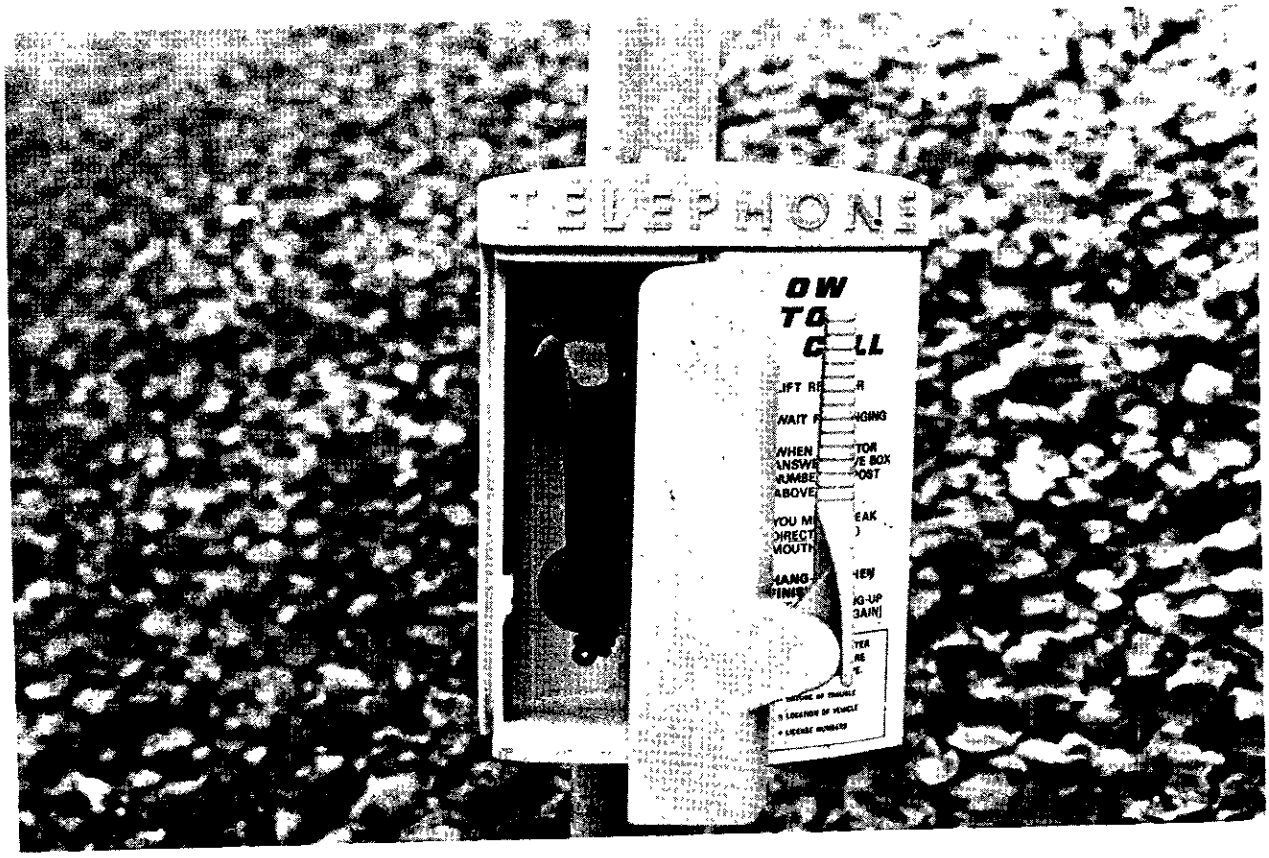
Freeway phone, Harbor Freeway.



Freeway phone, Harbor Freeway.

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Service patrol vehicle.

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PHASE V

AIR POLLUTION: ROADWAY LOCATION, DESIGN AND OPERATION

STATUS:

- Monitoring sites selected.
- Modeling studies under way.
- Equipment ordered (including two $130,000 monitoring vans).
- Monitoring should begin in March 1972.

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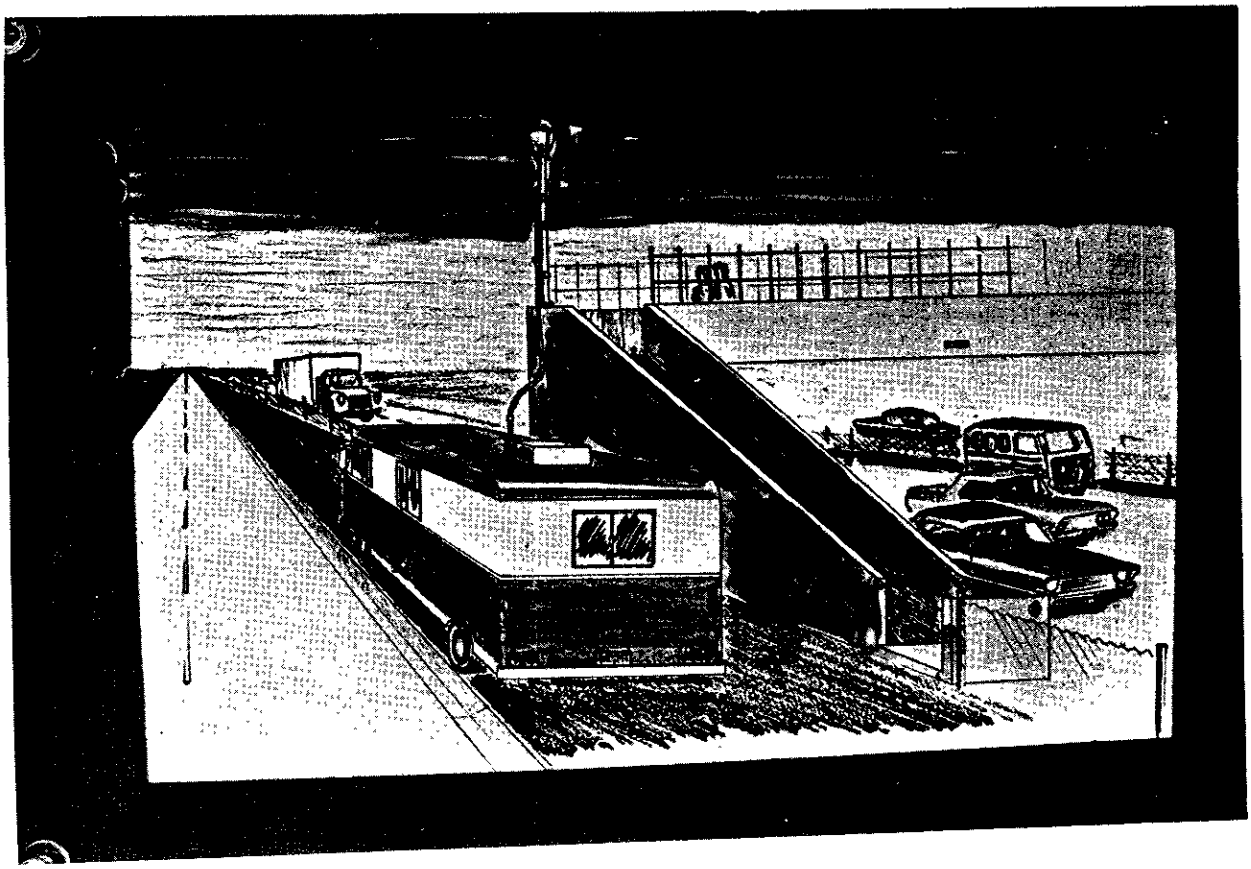
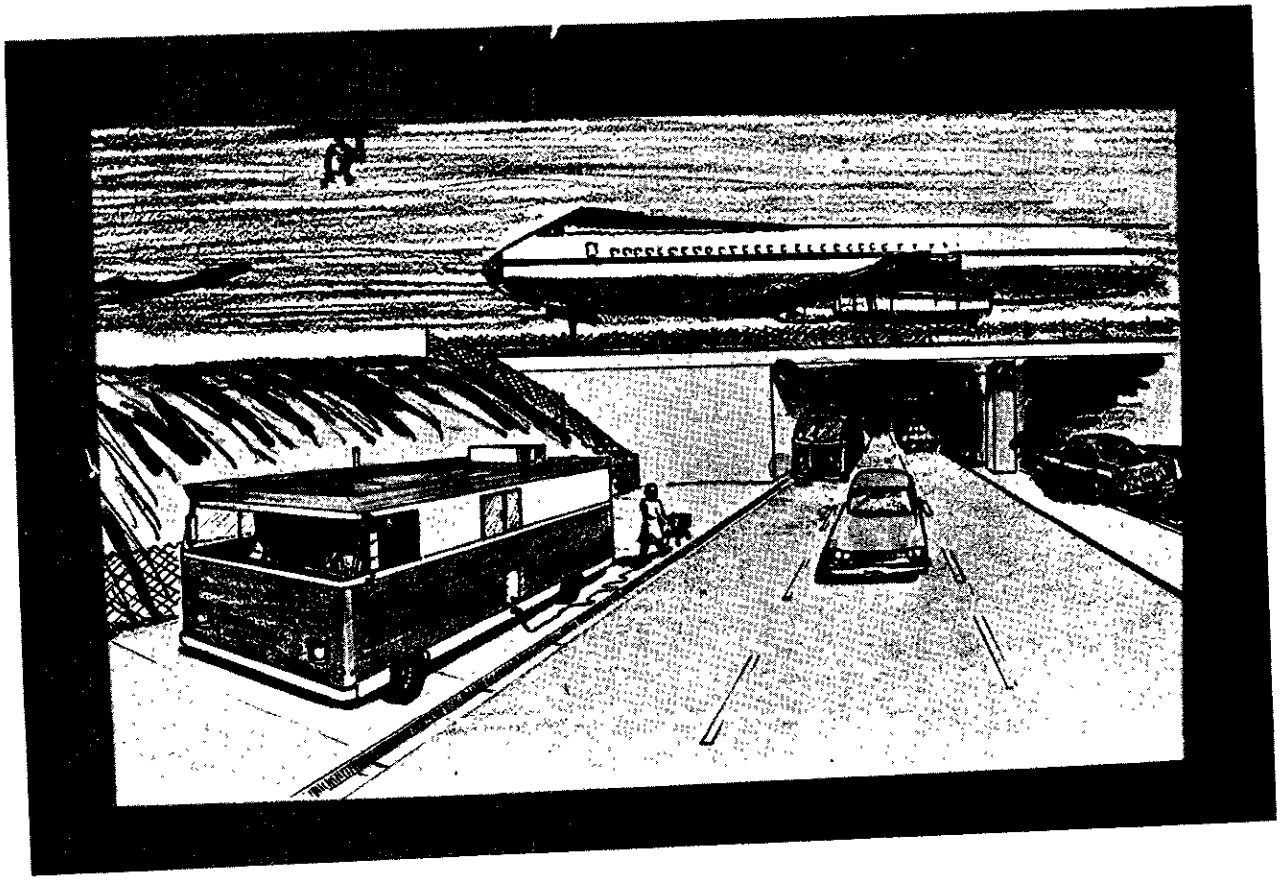


Artist's concept: monitoring of freeway section.



Artist's concept: monitoring of tunnel section, LAX.

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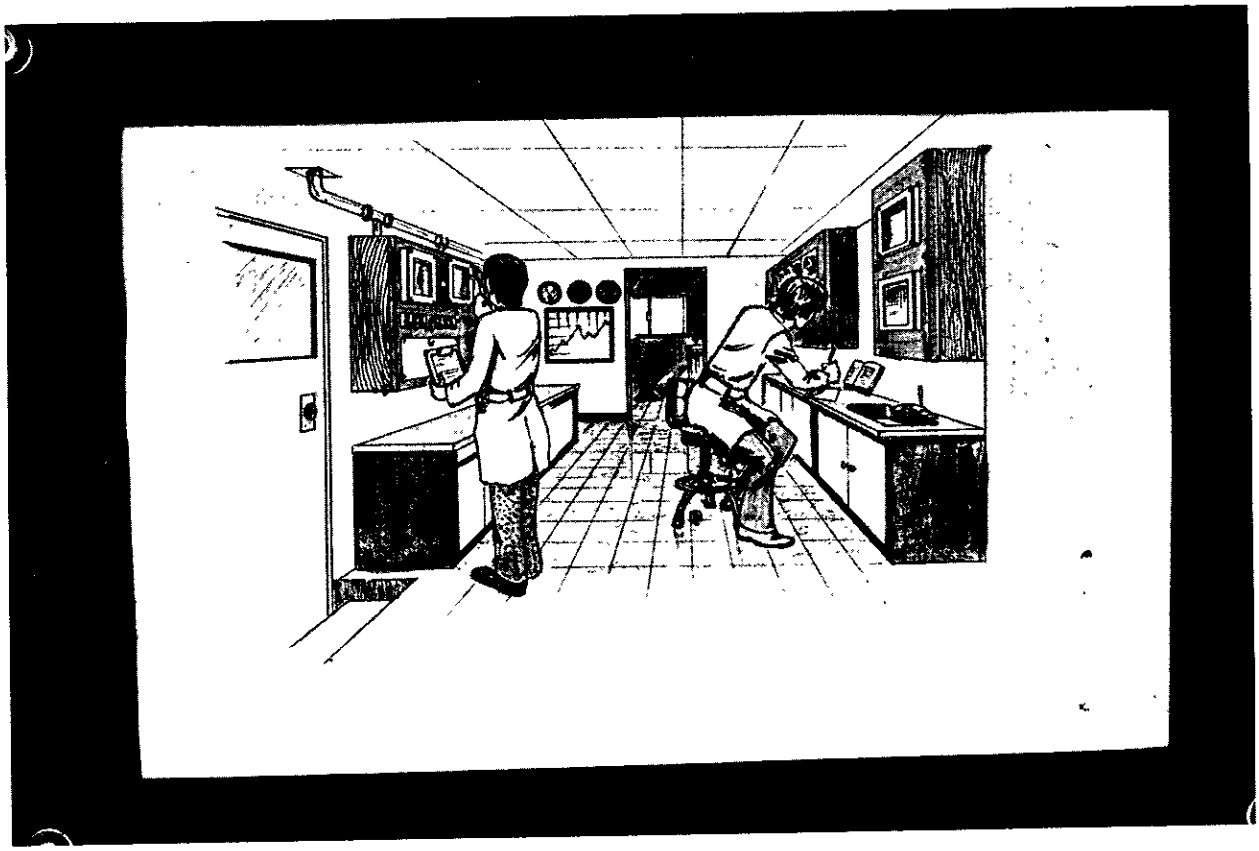

Artist's concept: interior of monitoring van, complete with monitoring equipment, computer, etc.

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