

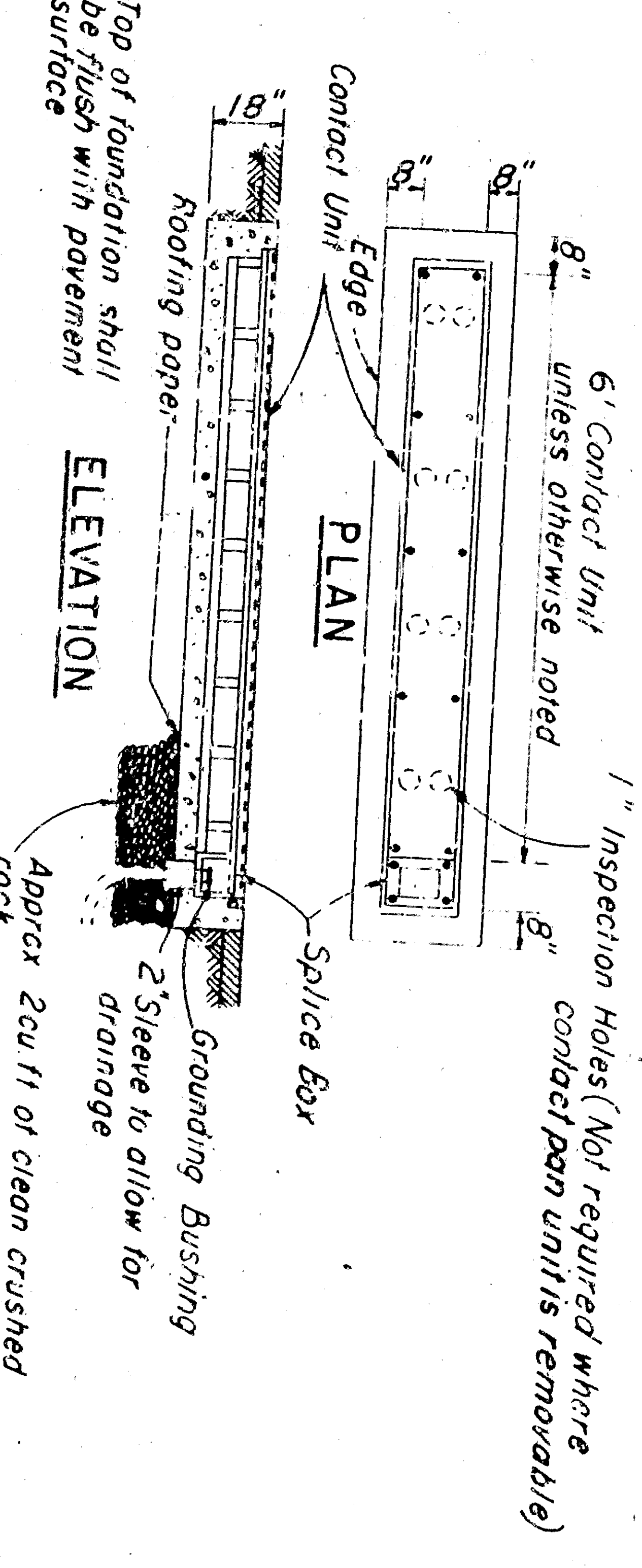
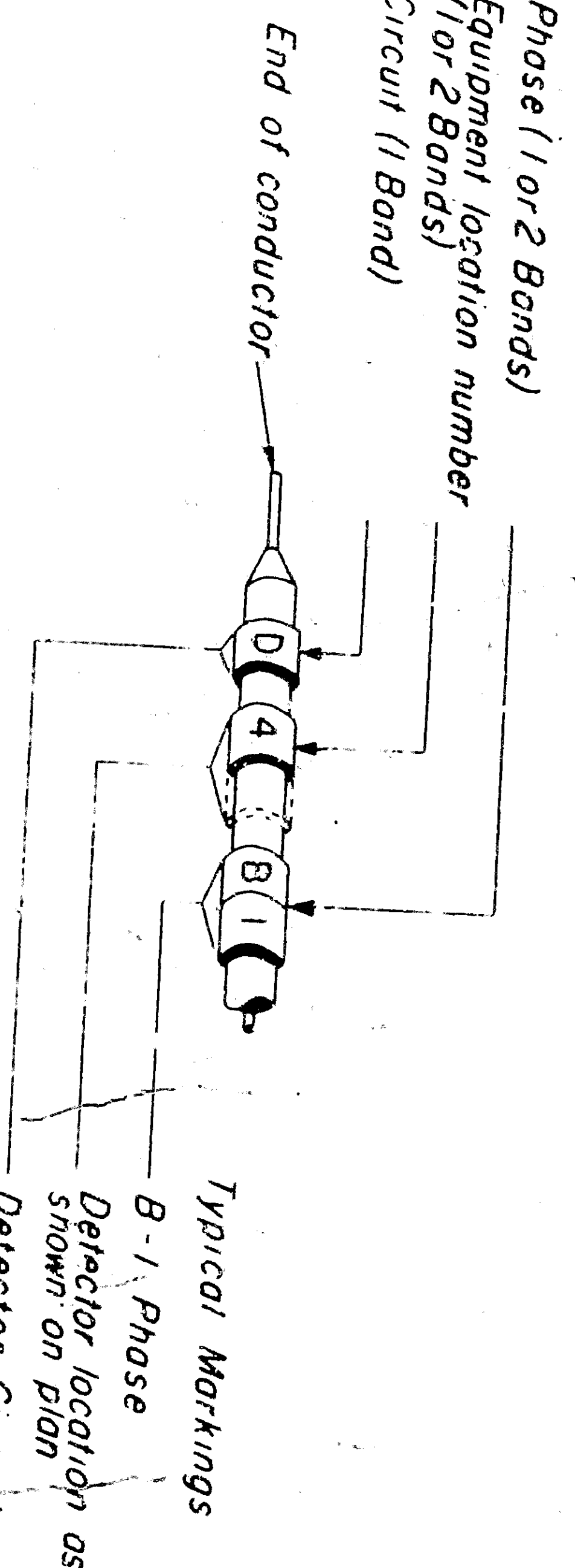
Rev 361

DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

### SYMBOLS

PROPOSED	EXISTING

### TYPICAL BANDING OF CONDUCTOR ENDS



### PRESSURE DETECTOR

NO SCALE

### INSTALLATION NOTES

1. Unless otherwise indicated, service and detector runs and conduits into sign structure foundations shall be 1 inch and all other conduits shall be not less than 1/2 inch.
  2. Conduit shall be installed at minimum below curb grade in sidewalk areas and 24" minimum in grade or finished surface in all other areas, except that conduit installed in grade or finished surface shall be installed in existing pavement may be laid on and secured to the pavement.
  3. Conduit runs parallel to curbs shall be placed adjacent to back of curb, except where in conflict with existing facilities.
  4. Existing underground conduit to be incorporated into new systems shall be cleaned with a mandrel and blown out with compressed air.
  5. Conduit terminating in standards and pedestals shall extend 2" max. above finished top of foundation and shall slope toward the standard.
  6. Service risers shall be terminated with a service head or shall be sealed to prevent the entrance of water, as approved by the serving utility.
- PULL BOXES**
1. Pull boxes shown in the vicinity of curbs shall be placed adjacent to back of curb or end, except when in conflict with existing facilities.
  2. Top of pull boxes shall be flush with top of curb or sidewalk grade or 1" above surrounding ground when no finished grade is established.
  3. Pull boxes shown adjacent to standards shall be installed against but not on roadway side of foundation.
- CONDUCTORS AND WIRING**
1. Signal neutral shall be a separate #10 AWG conductor.
  2. Conductors between ballasts or transformers and luminaires shall be #10 AWG, 600 volt.
  3. Conductors between series-to-multiple transformers and sign switch shall be #12 AWG, 600 volt.
  4. Number of conductors indicated in signal system conduit includes 3 #14 AWG spurs.
  5. Conductors shall be identified with bands.
  6. Underground conductors to signals shall be run without splice, except that where splicing is required, splices shall be made in pull boxes.
  7. Neutral conductors may be spliced in pull boxes.
  8. Two feet of slack shall be provided in each conductor in each pull box.
  9. A separate conductor other than neutral shall be run from each detector or pedestrian push button to controller cabinet.
  10. Color coding for wiring to pedestrian signals shall be as specified for corresponding vehicular green and red indications.
- FOUNDATIONS**
1. Top of foundations for standards shall be 1.5' above surrounding grade in other cases or 6 inches above surrounding grade in other cases.
  2. Except as indicated, standards shall be installed with 2 foot clearance face of curb edge or shoulder, back of dikes and back of ditches.

### SIGNAL EQUIPMENT

1. Pressure detectors shall be 6 feet long, non-directional, unless otherwise specified.
2. Detector position dimensions refer to contact unit.
3. Top of detector foundation shall be flush and true with pavement.
4. Detector contact unit surface shall be level with rim of frame or 1/8" high.
5. Vehicular and pedestrian signal mountings shall be oriented so as to maximum horizontal clearance to adjacent roadway.

### ELECTROLIERS

1. A Mercury vapor lamp ballast shall be installed in a pull box, and each electrolier, except as indicated.

### GENERAL DETAILS

TRAFFIC SIGNAL AND  
 HIGHWAY LIGHTING  
 INSTALLATIONS

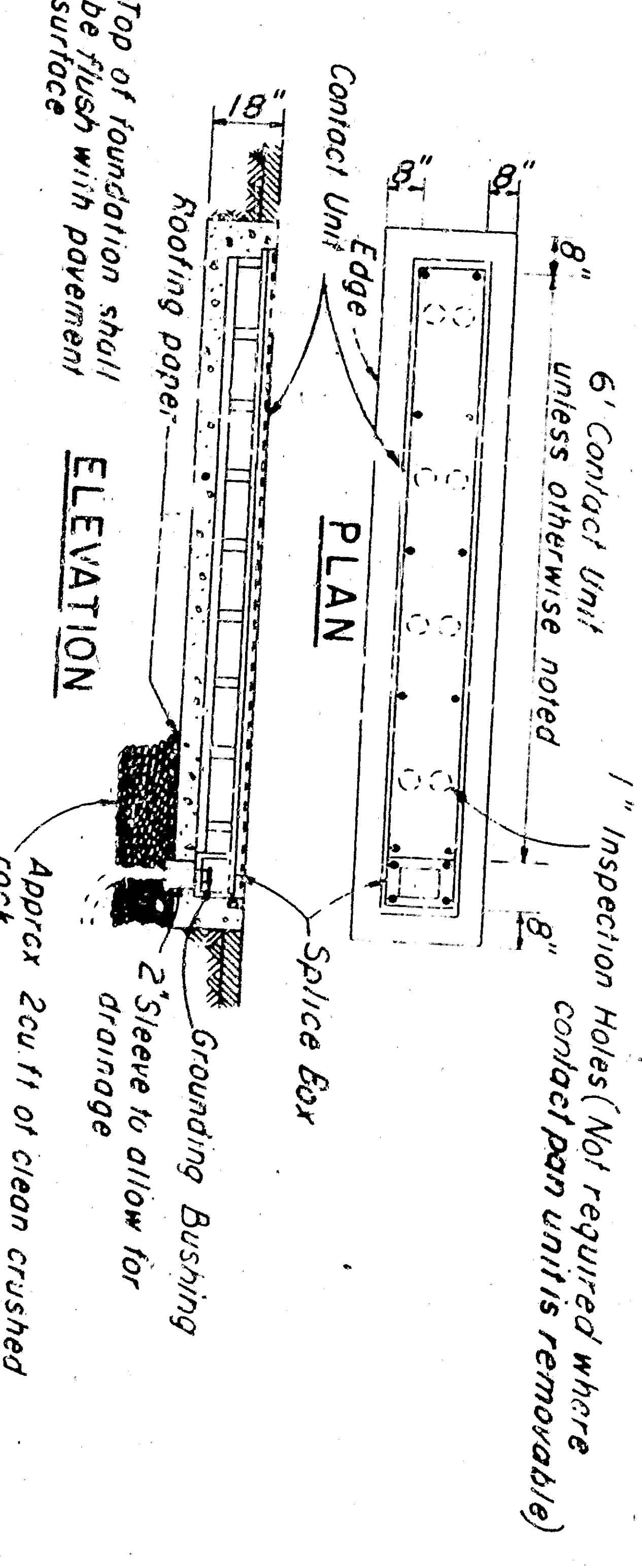
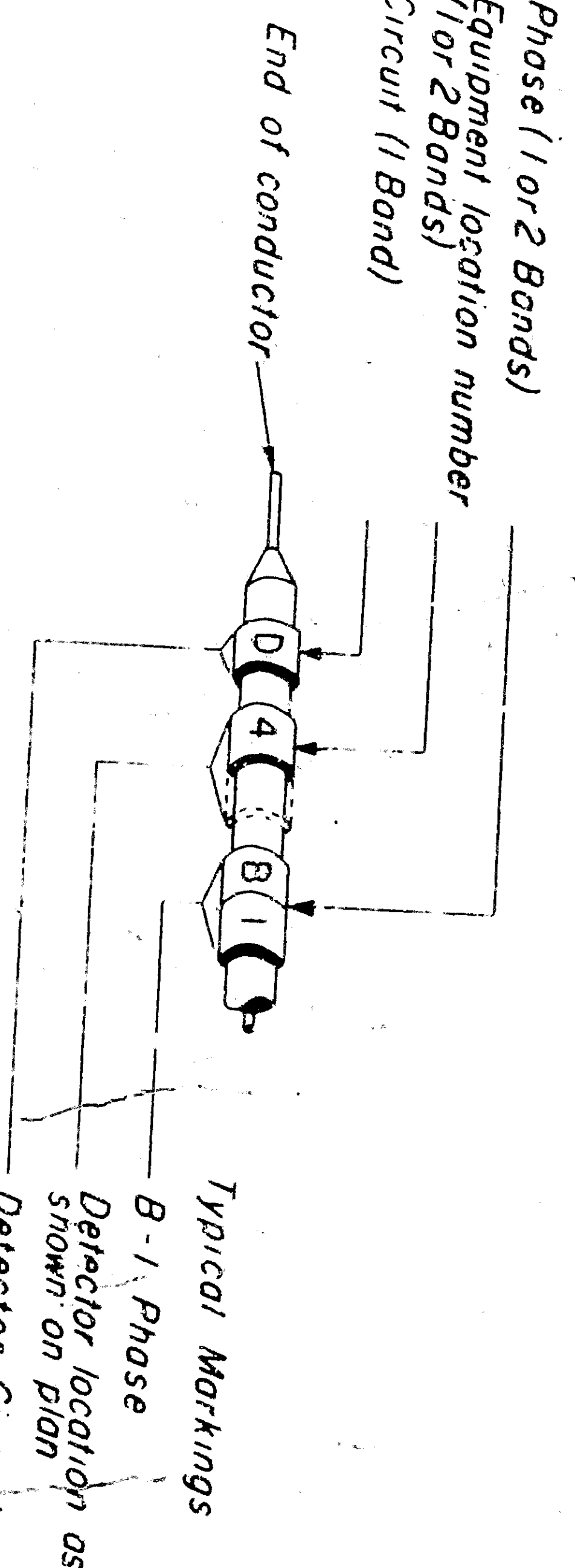
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### INSTALLATION NOTES

- CONDUIT**
- Unless otherwise indicated, service and detector runs and conduits into sign structure foundations shall be 1 inch and all other conduits shall be not less than 1/2 inch.
  - Conduit shall be installed at minimum below curb grade in sidewalk areas and 24" minimum in grade or finished surface in all other areas, except that conduit installed in grade or finished surface shall be 18" deep, except existing pavement may be 12" on and secured to the pavement.
  - Conduit runs parallel to curbs shall be placed adjacent to back of curb, except where in conflict with existing facilities.
  - Existing underground conduit to be incorporated into new systems shall be cleaned with a mandrel and blown out with compressed air.
  - Conduit terminating in standards and pedestals shall extend 2" max. above finished top of foundation and shall slope toward the standard.
  - Service risers shall be terminated with a service head or shall be sealed to prevent the entrance of water, as approved by the serving utility.
- PULL BOXES**
- Pull boxes shown in the vicinity of curbs shall be placed adjacent to back of curb or end, except when in conflict with existing facilities.
  - Top of pull boxes shall be flush with top of curb or sidewalk grade or 1" above surrounding ground when no finished grade is established.
  - Pull boxes shown adjacent to standards shall be installed against but not on roadway side of foundation.
- CONDUCTORS AND WIRING**
- Signal neutral shall be a separate #10 AWG conductor.
  - Conductors between ballasts or transformers and luminaires shall be #10 AWG, 600 volt.
  - Conductors between series-to-multiple transformers and sign switch shall be #12 AWG, 600 volt.
  - Number of conductors indicated in signal system conduit includes 3 #14 AWG spurs.
  - Conductors shall be identified with bands.
  - Underground conductors to signals shall be run without splice, except that where splicing is required, splices shall be made in pull boxes.
  - Neutral conductors may be spliced in pull boxes.
  - Two feet of slack shall be provided in each conductor in each pull box.
  - A separate conductor other than neutral shall be run from each detector or pedestrian push button to controller cabinet.
  - Color coding for wiring to pedestrian signals shall be as specified for corresponding vehicular green and red indications.
- FOUNDATION NOTES**
- Top of foundations for standards shall be 1.5' above surrounding grade in other cases or 6 inches above surrounding grade in other cases.
  - Except as indicated, standards shall be installed with 2 foot clearance face of curb edge or shoulder, back of dikes and back of ditches.

### SIGNAL EQUIPMENT

- Pressure detectors shall be 6 feet long, non-directional, unless otherwise specified.
- Detector position dimensions refer to control unit.
- Top of detector foundation shall be flush and true with pavement.
- Detector control unit surface shall be level with rim of frame or 1/8" high.
- Vehicular and pedestrian signal mountings shall be oriented so as to maximum horizontal clearance to adjacent roadway.

### ELECTROLIERS

- A Mercury vapor lamp ballast shall be installed in a pull box, and each electrolier, except as indicated.

### FOUNDATIONS

- Top of foundations for standards shall be 1.5' above surrounding grade in other cases or 6 inches above surrounding grade in other cases.
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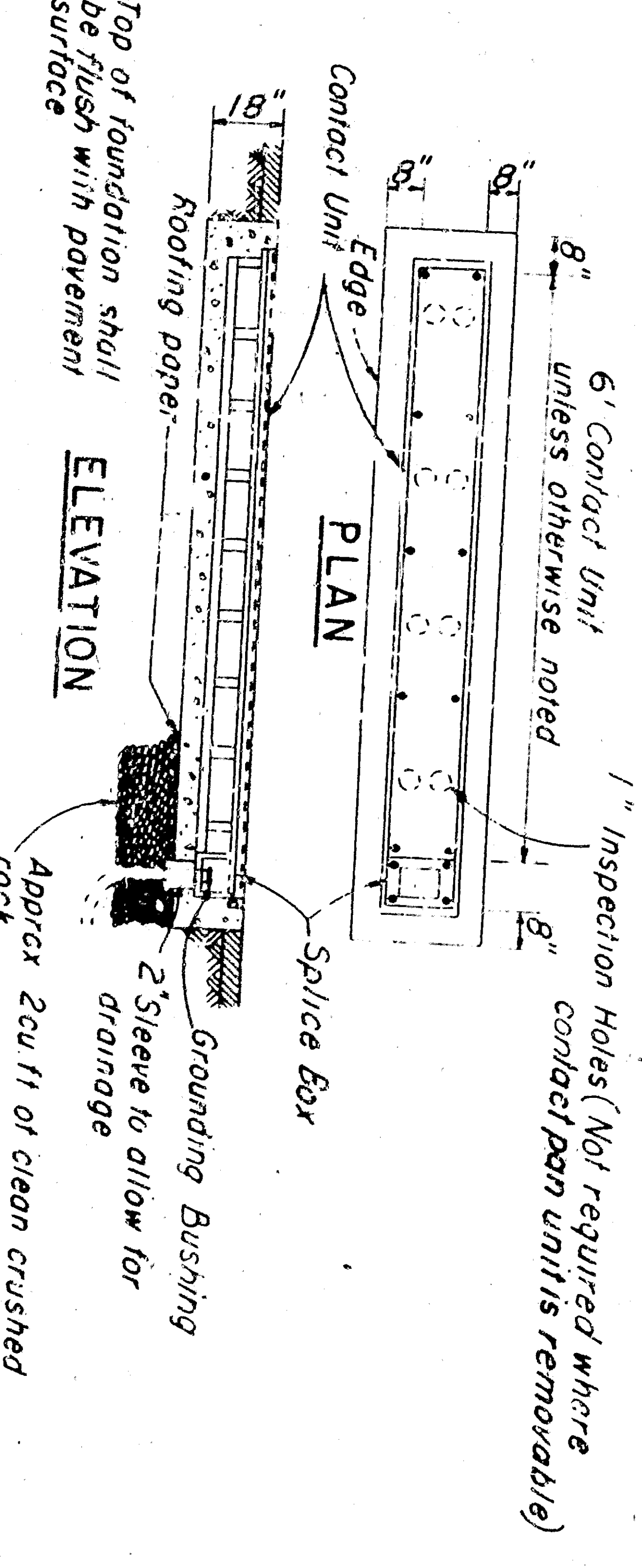
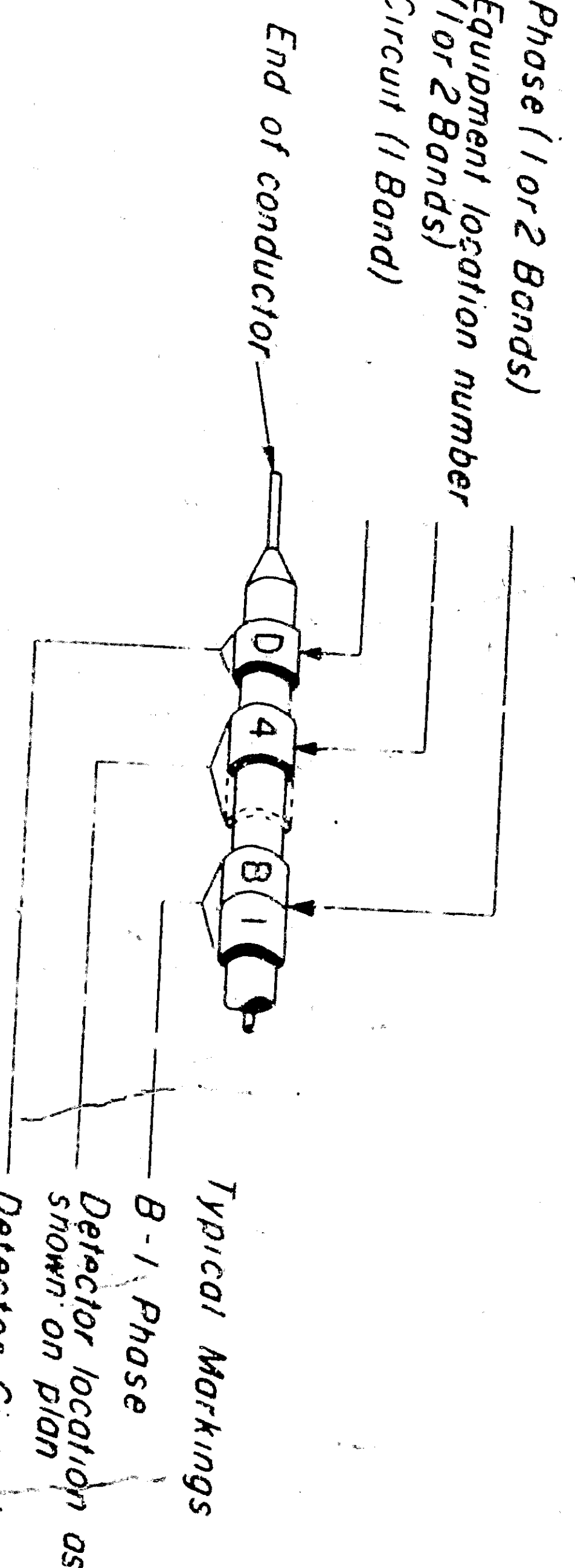
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  - Conduit runs parallel to curbs shall be placed adjacent to back of curb, except where in conflict with existing facilities.
  - Existing underground conduit to be incorporated into new systems shall be cleaned with a mandrel and blown out with compressed air.
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  - Color coding for wiring to pedestrian signals shall be as specified for corresponding vehicular green and red indications.
- FOUNDATION NOTES**
- Top of foundations for standards shall be 1.5' min. above surrounding grade in other areas or 6 inches above surrounding grade in other areas.
  - Except as indicated, standards shall be installed with 2 foot clearance face of curb edge or shoulder, back of dikes and back of ditches.

### SIGNAL EQUIPMENT

- Pressure detectors shall be 6 feet long, non-directional, unless otherwise specified.
- Detector position dimensions refer to contact unit.
- Top of detector foundation shall be flush and true with pavement surface.
- Detector contact unit surface shall be level with rim of frame or 1/8" high.
- Vehicular and pedestrian signal mountings shall be oriented so as to maximum horizontal clearance to adjacent roadway.

### ELECTROLIERS

- A Mercury vapor lamp ballast shall be installed in a pull box, and each electrolier, except as indicated.

### GENERAL DETAILS

TRAFFIC SIGNAL AND  
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