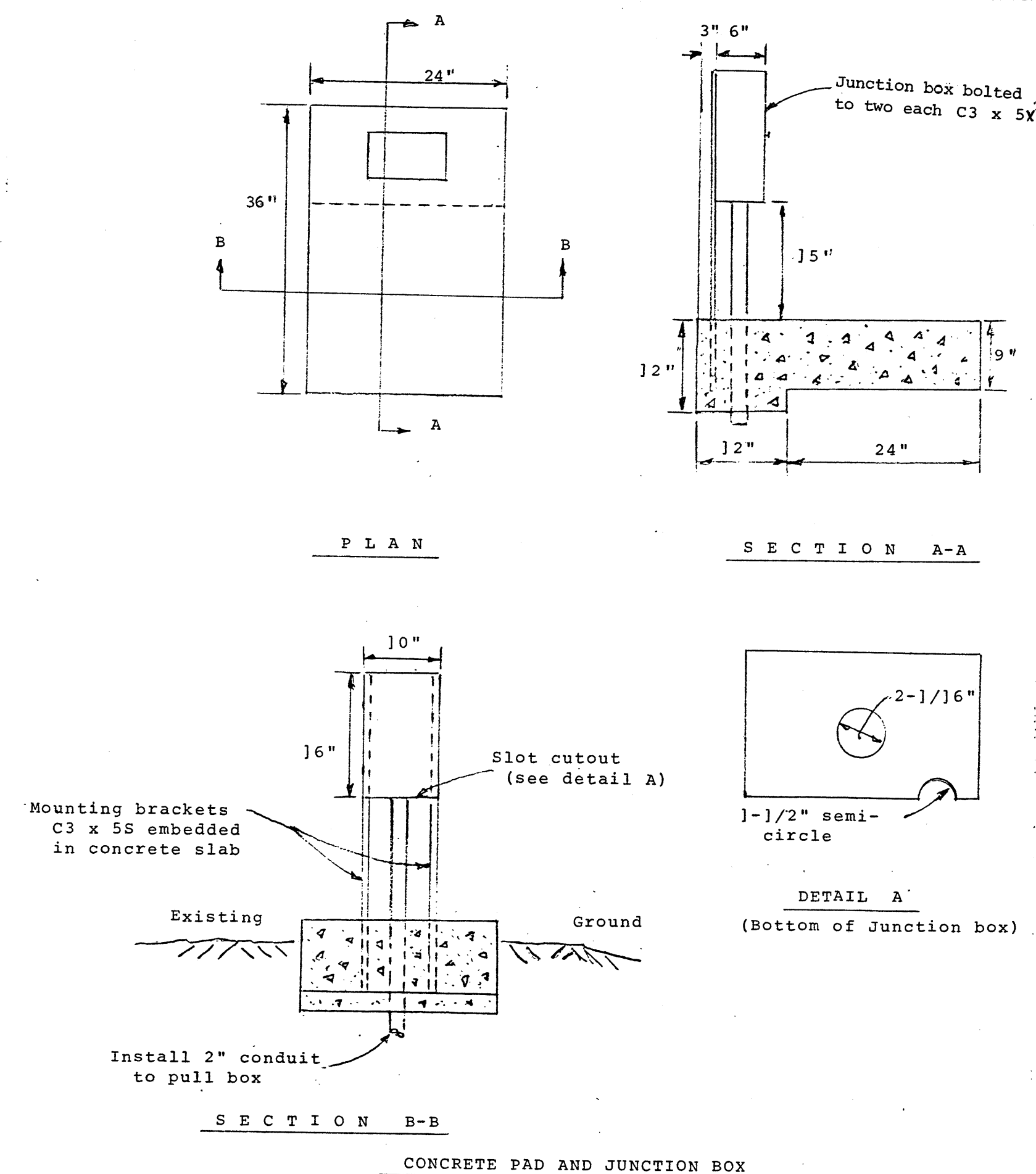
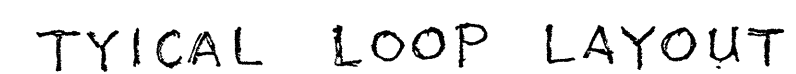
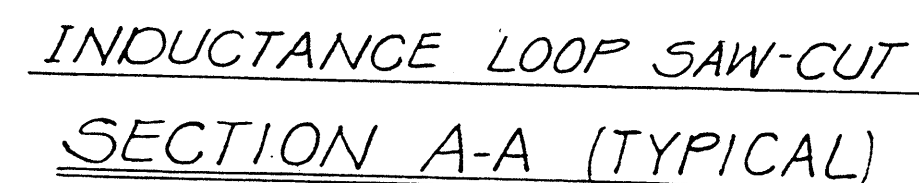
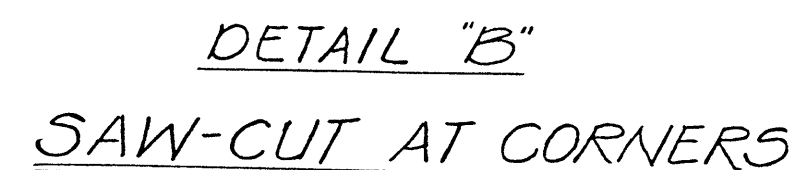
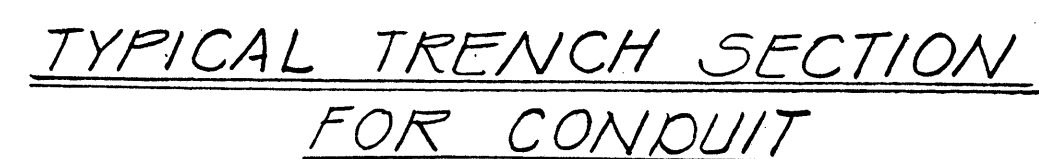
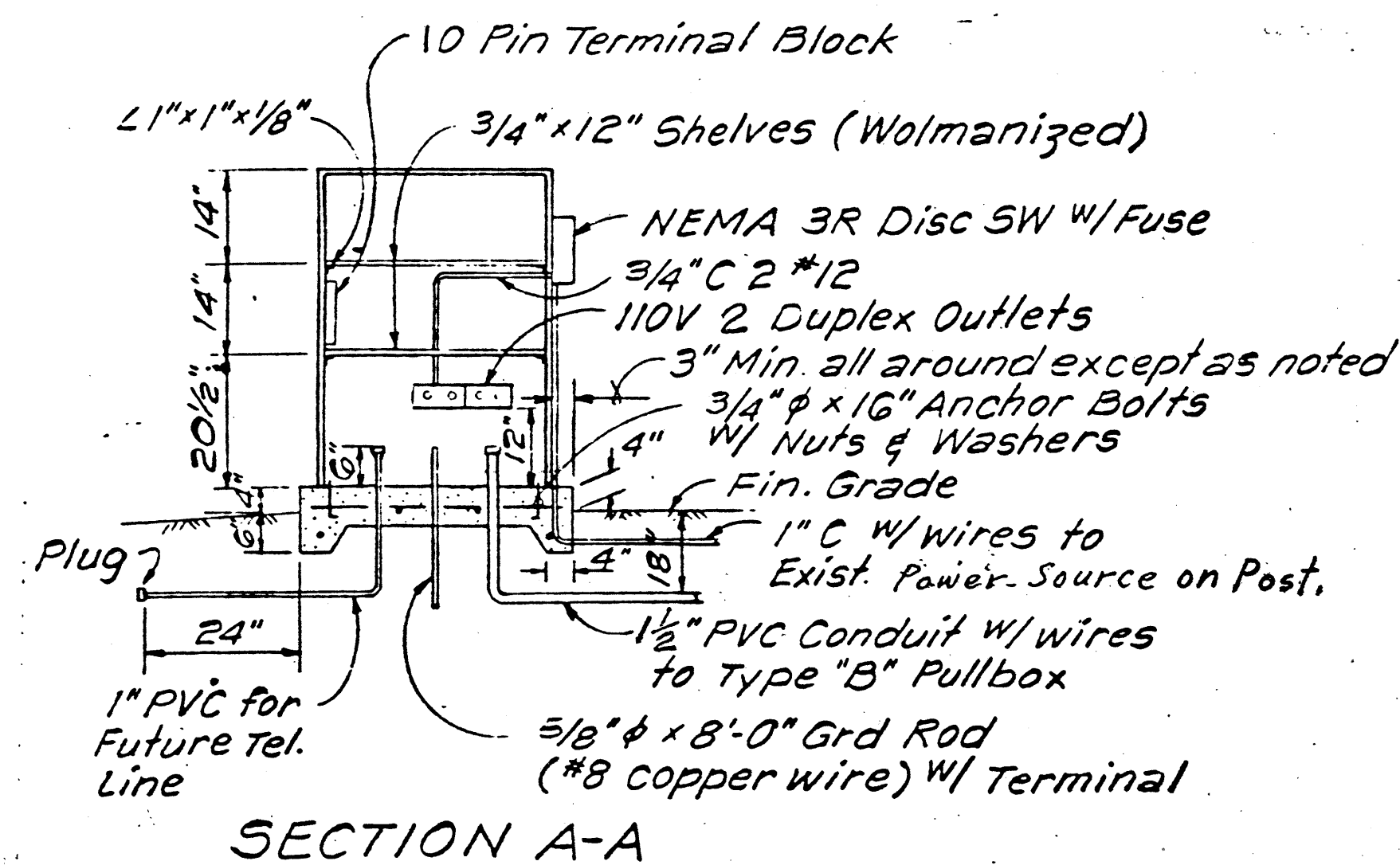


1. The locations of new inductance loops, pullboxes and cabinets/junction boxes shall be staked out in the field by the Contractor and approved by the Engineer prior to installation.
2. The Contractor shall inform the Engineer one day prior to pouring the concrete slab, sawcutting pavement and installing inductance loops.
3. Continuity of inductance loops and lead-in wires shall be tested and warranted for one year by the Contractor.
4. The Contractor shall make provision for 110 VAC power connection from existing/proposed power source to the cabinets as shown on plans.
5. The Contractor shall restore all affected areas to its original condition. This item and all work shall not be paid for separately, but shall be considered incidental to work of each station.
6. The Contractor shall verify the locations of the existing utilities and underground structures whether or not shown on plans.
7. The Contractor shall assume that existing underground utilities not shown on the plans may exist, therefore, he shall contact the different utility companies for information and toning.
8. The Contractor shall be held liable for any damages incurred to the existing utilities and underground structures as a result of his operations. All damaged portions shall be replaced in accordance with the standards & specifications of the affected utility company at no cost to the State.
9. The Contractor shall be responsible for obtaining electric and telephone company permits and coordinating all work involving electrical and telephone hookups. This work shall not be paid for separately, but shall be considered incidental to the work of each station.

1. Detector loop shall consist of three turns or four turns of 1/C 14 AWG RHW-USE-XLF wire embedded in a 3/8" minimum sawcut.
2. Loop and lead-in to the first pull box shall be one continuous wire. Lead-in wires from the same loop shall be twisted in pairs, two turns per foot. DO NOT twist one loop-pairs with another loop-pairs.
3. All lead-in wires shall be crimped with open end lugs that will fit into the terminal board slots snugly.
4. Stagger traffic loops in roadway less than 12 foot lane width as shown in dash lines.
5. The Contractor shall connect the inductance wires on each terminal slot.
6. The lane closest to the median is designed as lane 1, and the lane next the latter as lane 2 and so on as indicated on plans.
7. Clean sawcut thoroughly before filling with epoxy sealant.
8. All loop lead-in wires shall be identified and labeled by direction of traffic, type of traffic lane and lane number as shown on plans.



- NOTES:**
- Mount type M-1 cabinet on concrete slab and secured with bolts and nuts.  
Concrete slab shall be poured in place.  
Connect 110 VAC power to dual outlet boxes mounted on inside wall of the cabinet.  
The Contractor shall furnish the State key(s) to the cabinets.  
Provide #8 copper wire ground terminal to the cabinet.  
Mount one 10 pin terminal board on inside wall of cabinet.  
All conduits shall be steel or PVC schedule 80.  
Type M-1 cabinet in location 5, Oahu shall be provided by the STATE.

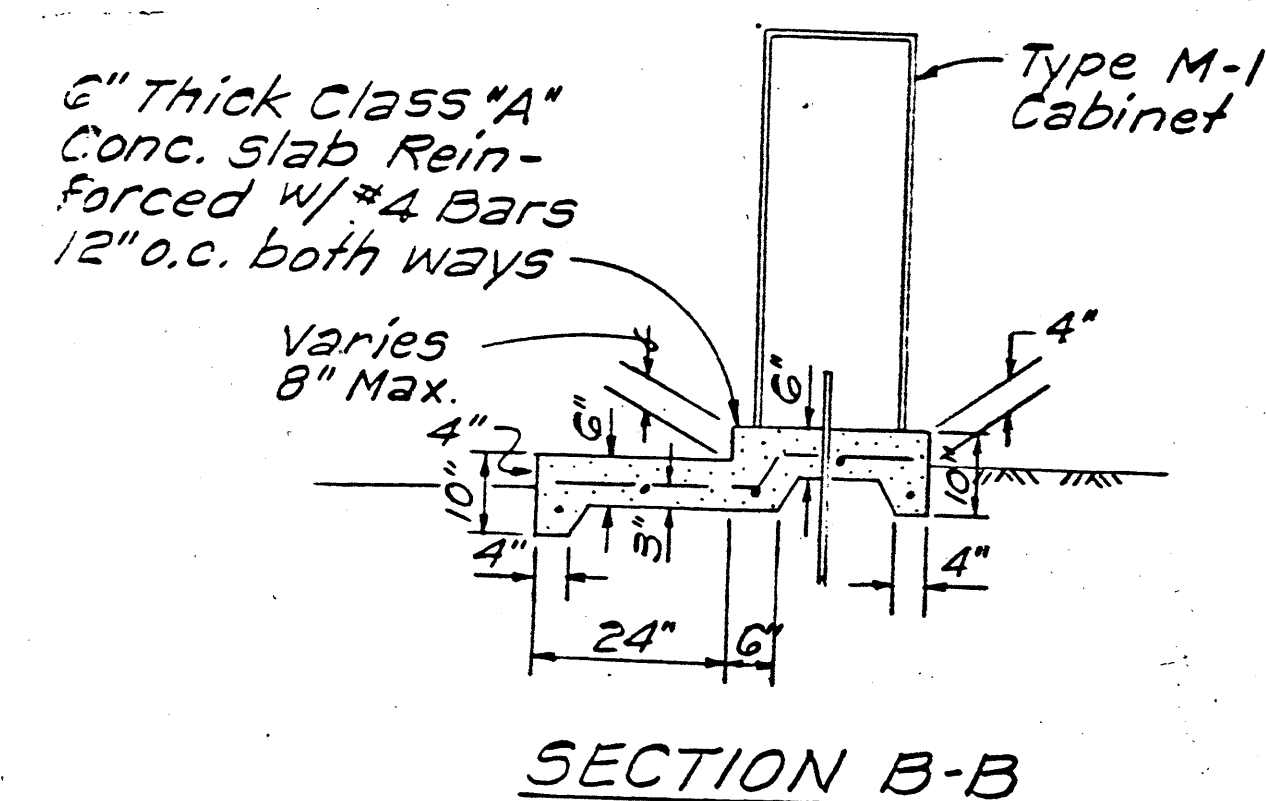
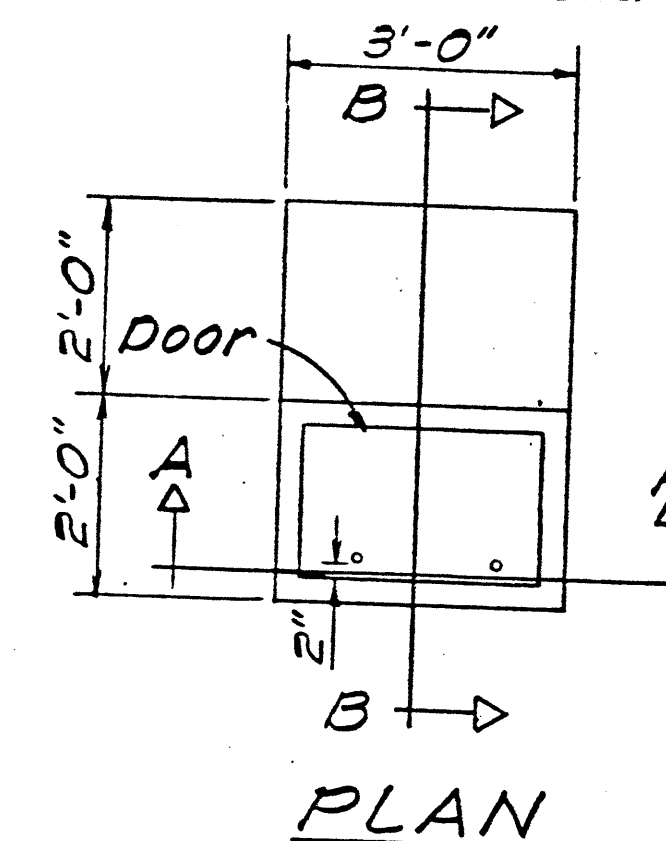


CONCRETE PAD AND CABINET

Scale:  $\frac{1}{2}" = 1'-0"$

NOTES:

1. Concrete slab shall be poured in place and size shall be 24" X 36".
2. Install mounting brackets to support junction box firmly on slab.
3. All conduits shall be steel or PVC schedule 80.
4. Mount two 15 pin terminal boards on inside wall of junction box.
5. The Contractor shall furnish the State key(s) to the junction boxes.



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
INSTALLATION OF VEHICLE  
DETECTOR LOOPS AT VARIOUS  
TRAFFIC COUNT STATIONS  
PROJECT NO. HPR-0010(10)U 1, 2  
SCALE: AS SHOWN DATE  
SHEET NO. 4 OF 4 SHEETS