

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------------------|-------------|-----------|--------------|
| HAWAII | HAW. | STP-7415(001) | 2014 | ADD. 108 | 173 |

TRAFFIC COUNTING STATION NOTES:

1. A solid #8 bare copper wire shall be pulled within all conduits for equipment ground. Cost shall be incidental to the installation of the control cable.
2. Conduits and pullbox locations as shown on plans are schematic. They may be modified by the Contractor with the approval of the Engineer.
3. The Contractor shall install the controller and cabinet in the indicated location.
4. All work for the installation or modification of the Weigh-In-Motion system shall conform to the latest revisions of the "Hawaii Standard Specifications for Road and Bridge Construction, 2005" and the "Standard Plans" of the Department of Transportation, Highways Division and as shown on these drawings.
5. All splicing shall be done in the pullboxes.
6. The concrete jacket for the Conduit By-pass Detail shown on this sheet shall not be paid for separately but considered incidental to the various contract items. The Engineer shall determine if a concrete jacket is required.
7. All cable and elements for grounding shall be new.
8. Unless otherwise specified, all conduits shall be PVC Sch. 80.
9. The Contractor shall inform the Engineer at least three days prior to sawcutting pavement and installing inductance loops.
10. Continuity of inductance loops and lead-in wires shall be tested and warranted for one year from date of acceptance.
11. The Contractor shall restore all affected areas to their original condition. This item of work shall not be paid for separately, but shall be considered incidental to the WIM Scale System.
12. Changes to the contract plans and specifications shall not be permitted, unless otherwise authorized by the Engineer.
13. Highway crossing sleeve shall be provided with 36" minimum cover.

CONSTRUCTION NOTES:

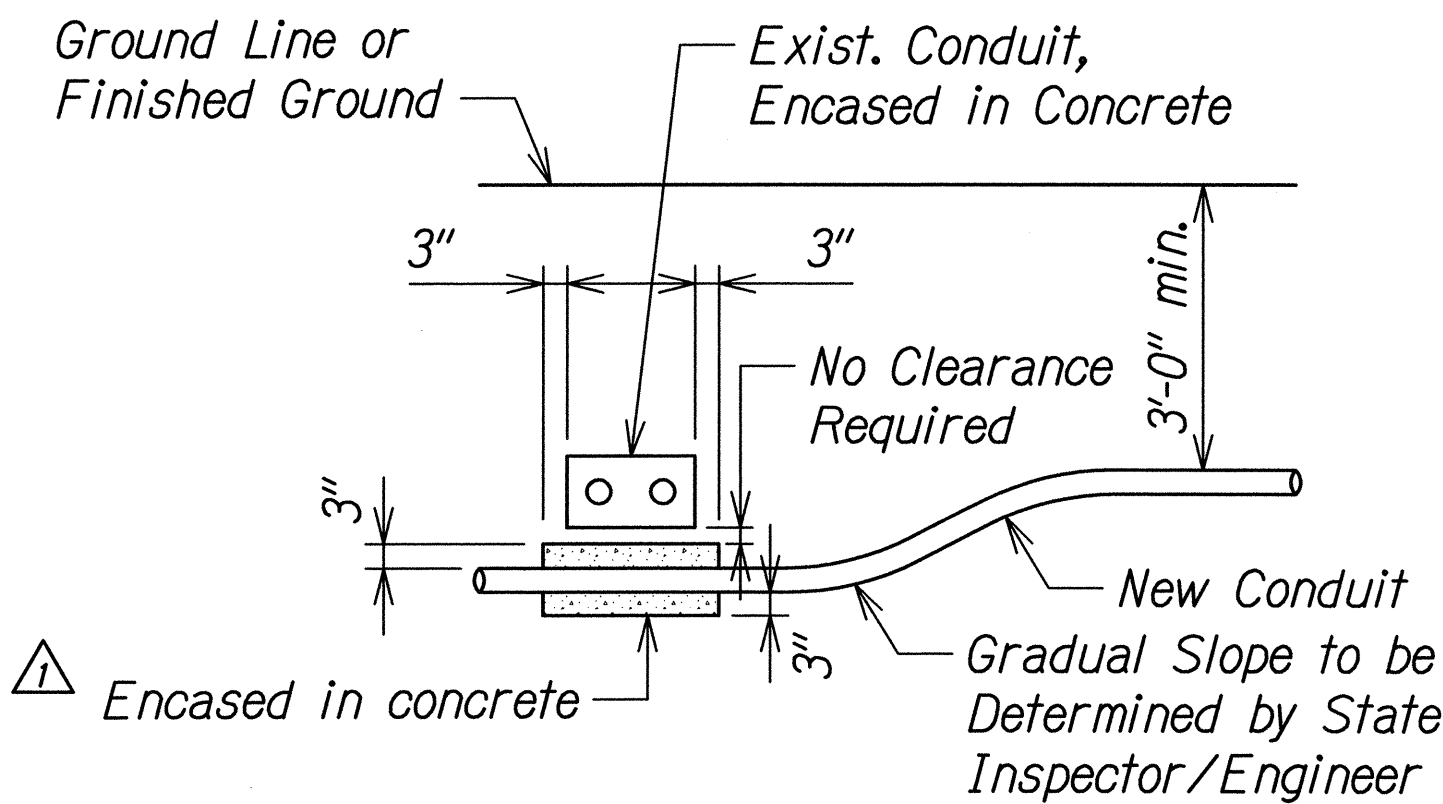
1. Locations of existing underground structures and utilities such as pipelines, conduits, cables, etc., shown on plans are approximate only. It is not the intent of these plans to show the exact location of all underground utilities and structures. It is the responsibility of the Contractor to verify the locations of all existing utilities with the respective owners. Existing utilities damaged by the Contractor shall be repaired by the Contractor at his own cost.
2. The Contractor shall verify and check all dimensions and details shown on the drawings prior to the start of construction. Any discrepancy shall be immediately brought to the attention of the Engineer for clarification.
3. The Contractor shall notify all Agencies to verify, tone and locate their existing utilities within the project area prior to excavating. The Contractor shall coordinate all work.
4. The locations of the new weigh pad, controller, pullboxes, cabinets/junction boxes, conduits and loop detectors shall be staked out in the field by the Contractor and approval of the locations shall be obtained from the Engineer prior to construction and installation.
5. All traffic signal work shall conform to the requirements of the "Manual on Uniform Traffic Control Devices 2009 Edition", Federal Highway Administration and revisions.
6. Maintenance of traffic through the construction area shall be in accordance with Part 6 of the "Manual on Uniform Traffic Control Devices 2009 Edition", Federal Highway Administration and revisions. The Contractor shall furnish and maintain adequate barricades, blinkers, construction signs, etc., for the safety of the motoring public.
7. At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

LOOP LAYOUT NOTES:

1. Detector Loop shall consist of four turns of 1C #12 Cable meeting IMSA Spec. 51-5 or equivalent embedded in a 3/8" minimum sawcut, as noted.
2. Loop and lead-in to the first pullbox 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-pair with another loop-pair.
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 on roadways with less than 12 foot lane width.
5. The Contractor shall label the wires to clearly identify traffic direction, lane number and sequence of loops.
6. The left lane in the direction of traffic flow is designated as lane 1, and the lane next to its right as lane 2 and so on as indicated on the plans.
7. Vacuum and clean sawcut thoroughly before installing sensors and/or cables and filling with hot tar or epoxy sealant.
8. All loop lead-in wires in all enclosures including pullboxes shall be identified and labeled by direction of traffic flow and lane number as shown on the plans.
9. All cable and wires terminated within an enclosure shall have a minimum 12" additional slack.

LEGEND

- Type B Pullbox
- Type C Pullbox
- New 332 Controller Cabinet on New Base
- Loop Detectors



CONDUIT BY-PASS DETAIL
Scale: NTS

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| 7/2/14 | Revised/Added Notes. Revised Cabinet. |
| Date | Revision |

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[Signature] 01/30/16
SIGNATURE EXPIRATION DATE OF THE LICENSE

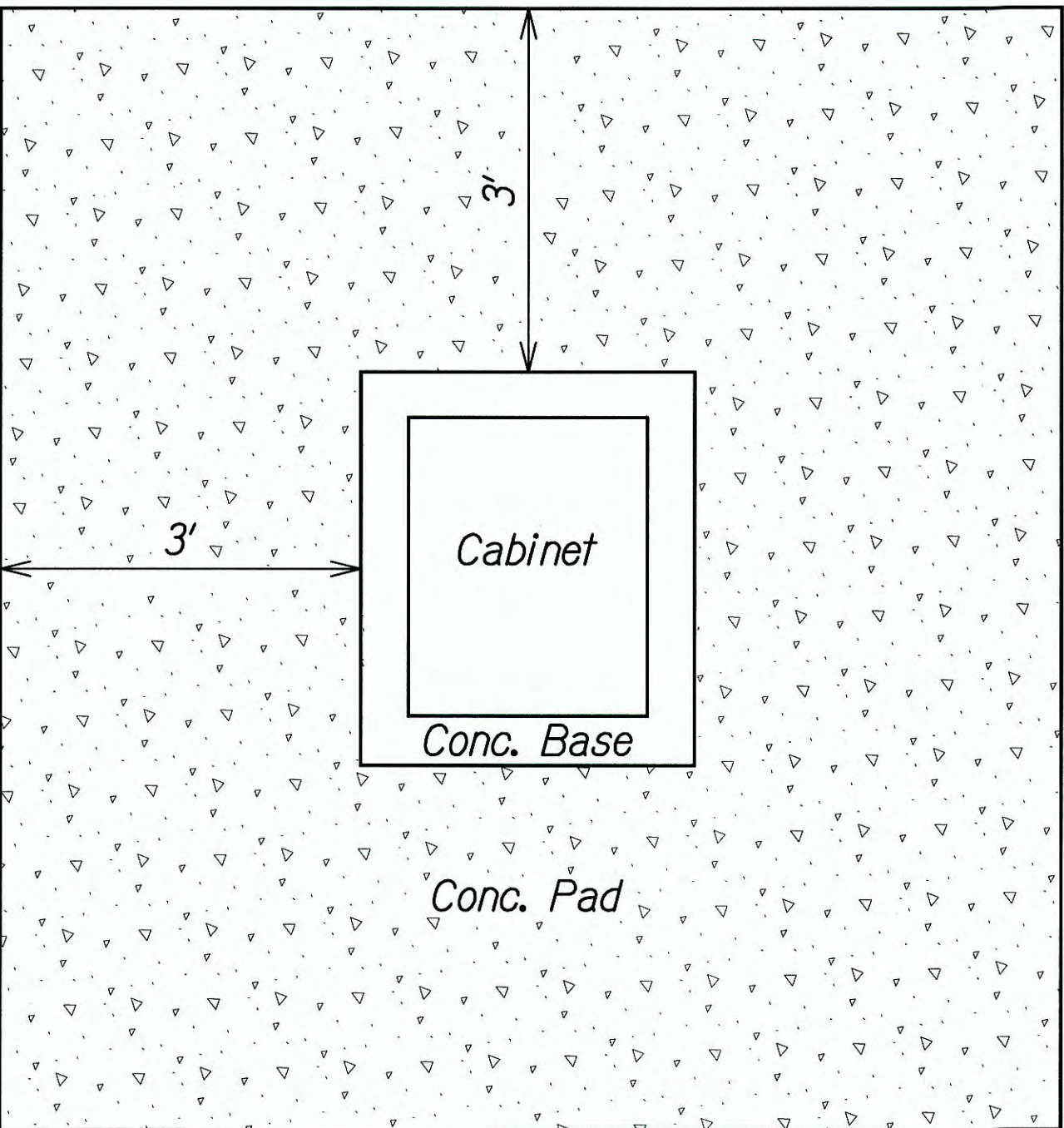
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WEIGH-IN-MOTION STATION
LEGEND AND NOTES

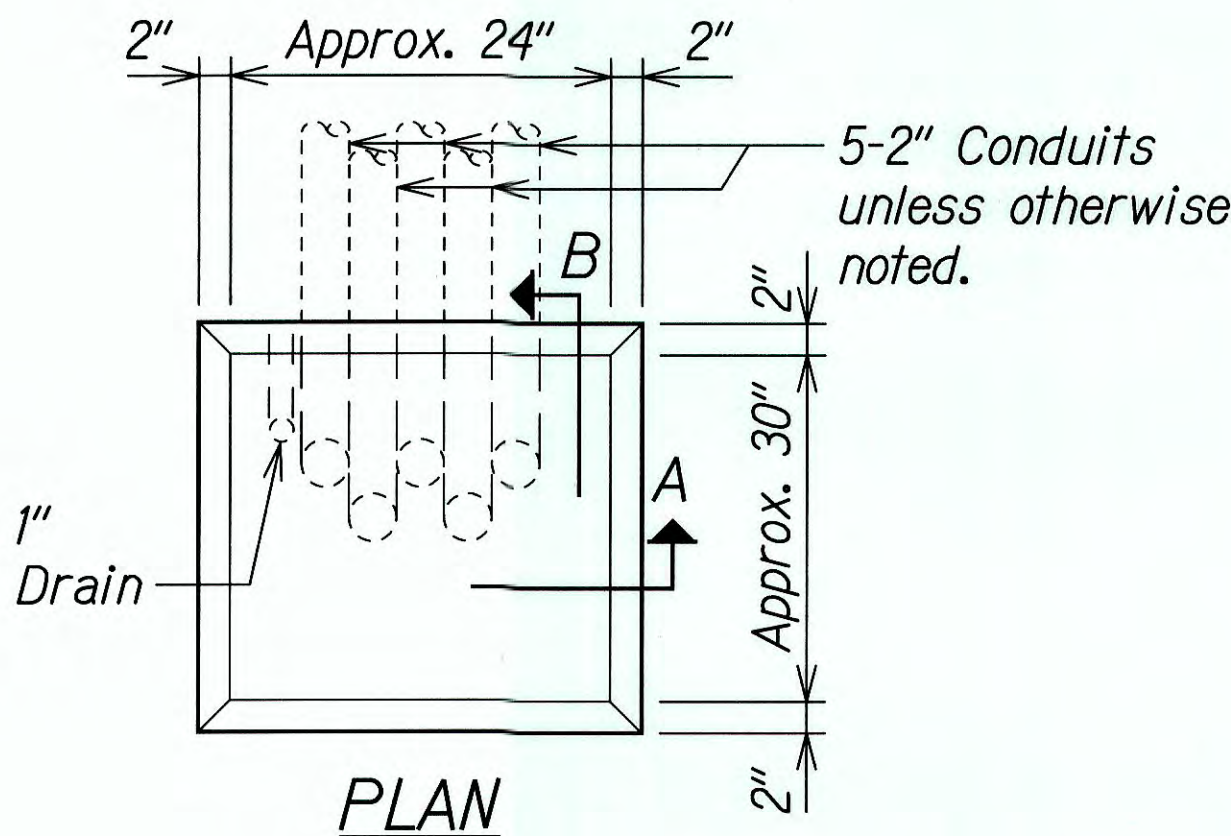
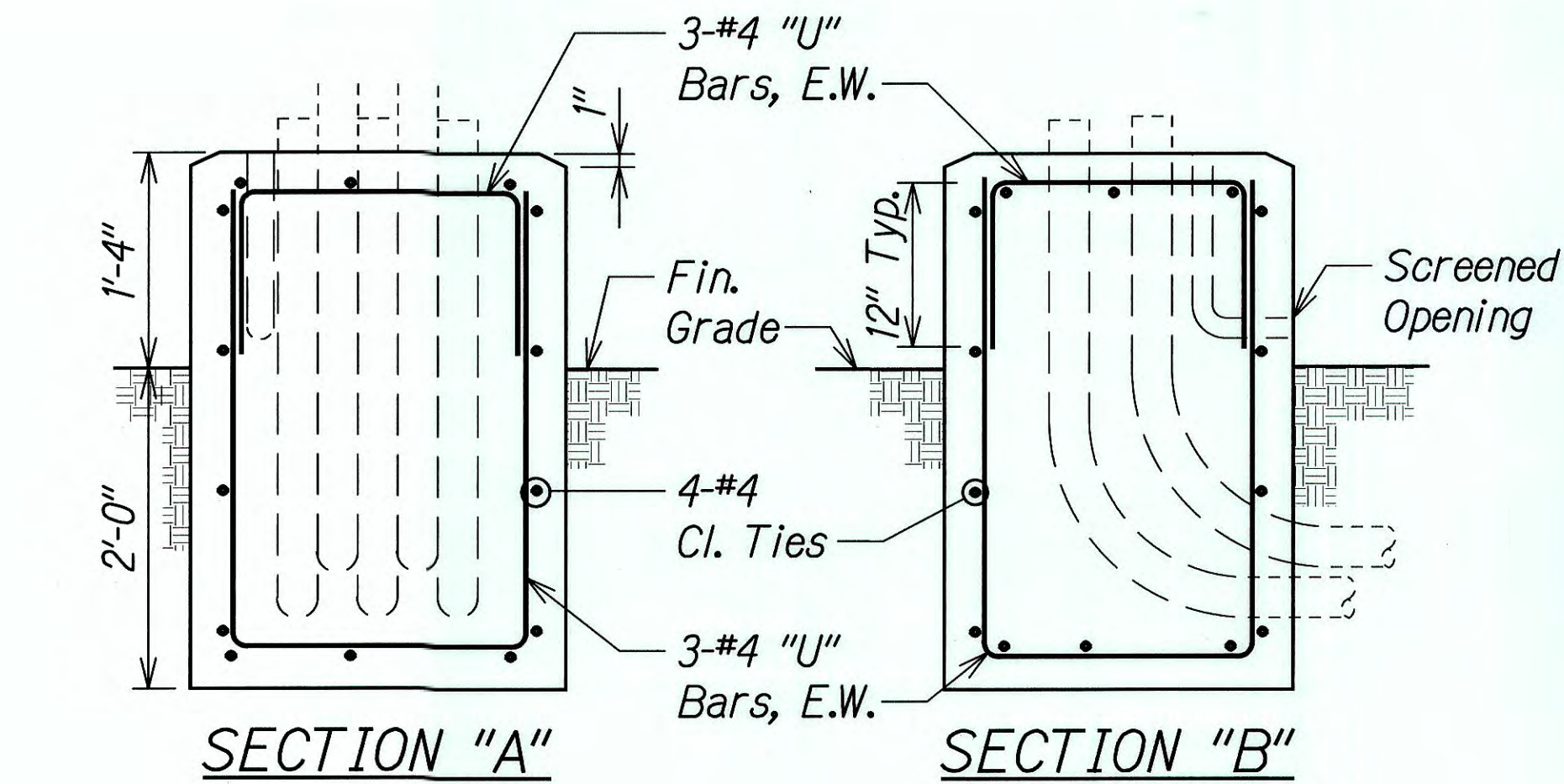
MIDDLE STREET PAVEMENT RECONSTRUCTION
North King Street to Kamehameha Highway
FAP NO. STP-7415(001)

Scale: None Date: June 20, 2014

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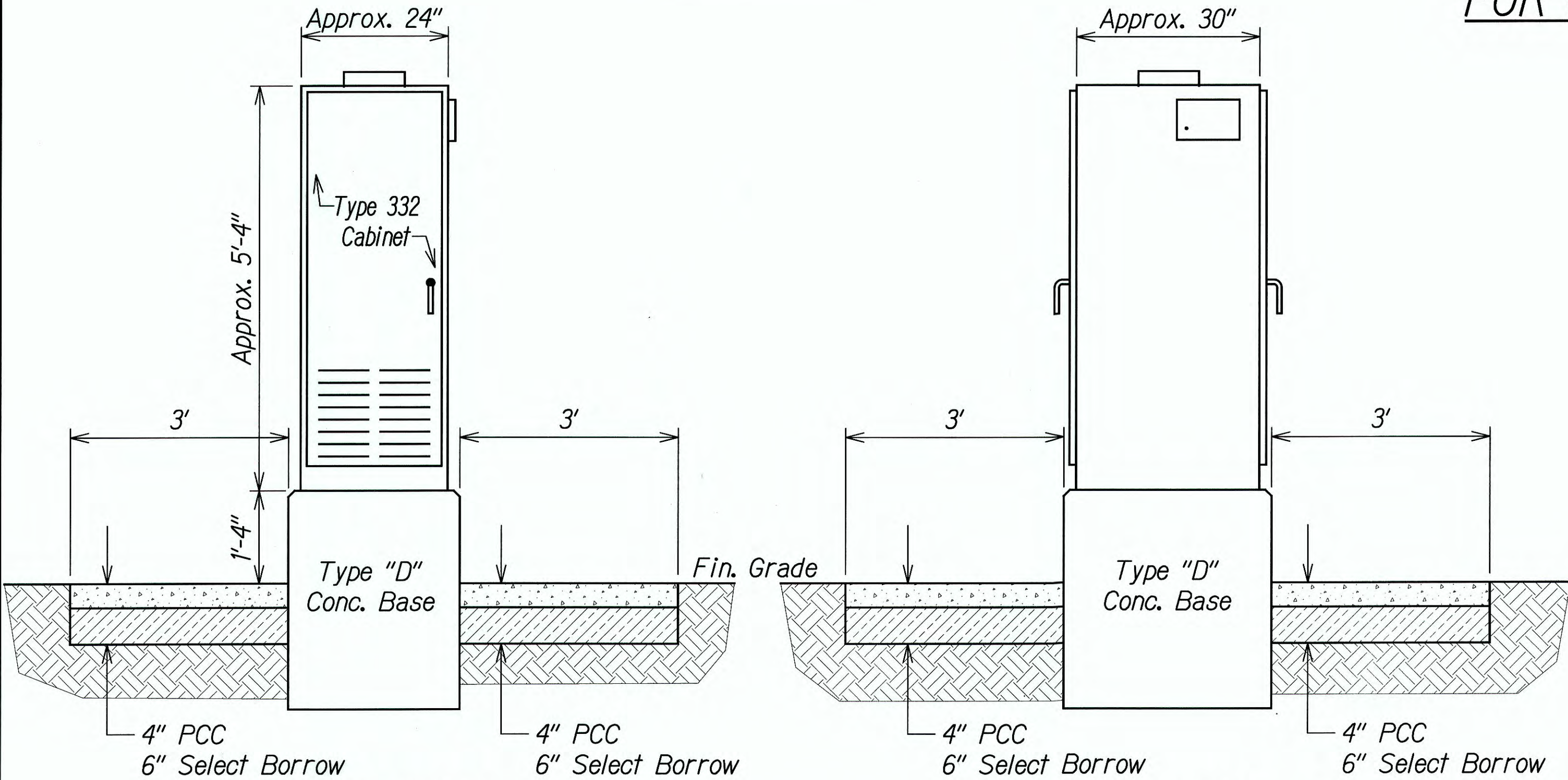


TOP VIEW



TYPE "D" CONC. BASE
FOR CONTROLLER CABINET
Not to Scale

- NOTES:
- Concrete shall be Class "B".
 - Dimensions shall be altered to suit controller cabinet actually furnished.
 - Conduit bends and drain are incidental to concrete base.
 - Refer to Cabinet Manufacturer's Specifications for detail of anchor bolts and base settings.
 - All exposed surfaces of concrete base shall have a Class 2, rubbed finish.



332 CABINET
Not to Scale

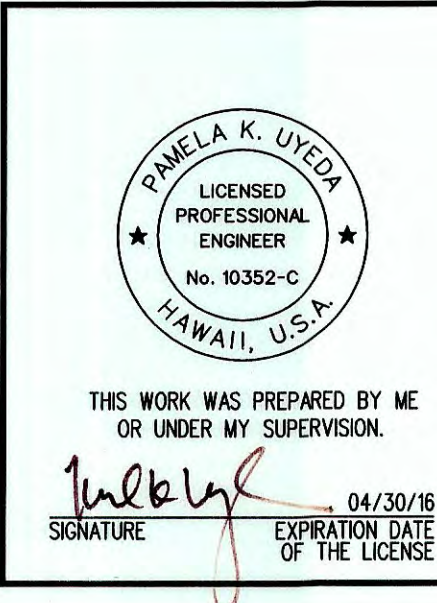


WARNING SIGN DETAIL
Not to Scale

- NOTES:
- For sign post detail, see State Standard Plans TE-01 thru TE-04.
 - Two (2) warning signs shall be placed on each sign post "back-to-back".
 - Text on sign shall be centered both ways.

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|---------------|------|
| DESIGNED BY | DATE |
| DRAWN BY | |
| CHECKED BY | |
| IN CHARGE | |
| NOTED BY | |
| QUANTITIES BY | |
| REVISIONS | |

| | |
|--------|-------------|
| 7/2/14 | Added Sheet |
| Date | Revision |



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| STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION WEIGH-IN-MOTION DETAILS MIDDLE STREET PAVEMENT RECONSTRUCTION North King Street to Kamehameha Highway FAP NO. STP-7415(001) Scale: None Date: June 20, 2014 |
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