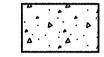


STATE RIGHT-OF-WAY BACKFILL NOTES

Trench Backfill Material "A" Beach Sand, Earth, or Earth and Gravel if Earth and Gravel used, the maximum shall contain not more than 50% by volume of rock particles. Maximum 8" loose fill per lift. Obtain 95% compaction for each lift.



Concrete 3000 psi compressive strength @ 3 days.

NOTE: Base Course \$ Sub-Base Course per 1994 State Standard Specifications for Highway Construction.

GENERAL NOTES

- 1. If trench is located on unpaved area, the Contractor shall replace 10" A.C. Base Course and 4" A.C. Pavement with Type "A" backfill material.
- 2. The Metal Detectable High Fluorescence Yellow Plastic Warning Tape shall be a minimum 5 mils thick and 4" wide with a continuous metallic backing and corrosion resistant 1 mil thick foil core. The tape shall read, "CAUTION - STATE TRAFFIC SIGNAL AND/OR HWY LIGHTING BURIED BELOW," utilizing 3 inch series "C" lettering. The message will be repeated with a 12-inch spacing between the end and beginning of repeated message.
- 3. The Contractor may begin backfilling the conduit trench when the concrete reaches 3000 psi compressive strength after 3 days.
- 4. Maximum four (4) Conduits per Row for multiple conduit duct section.

New Concrete Jacket

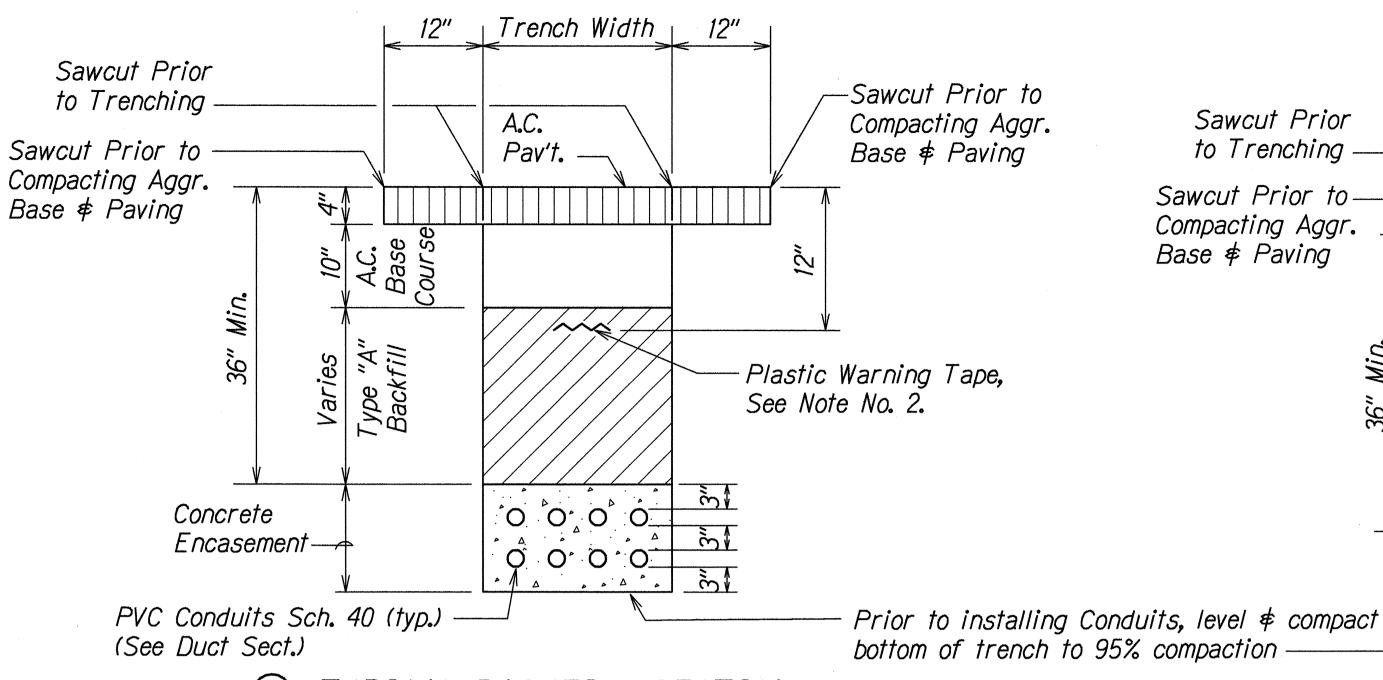
— Grd. line or Fin. Gr.

-Exist. Eletrical,

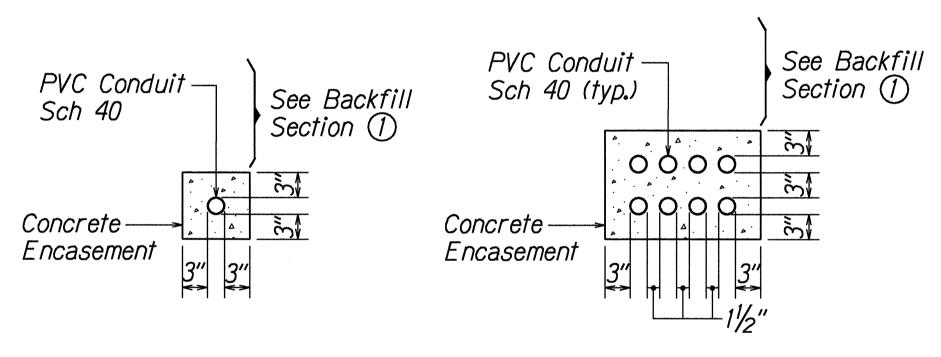
Water, Sewer,

Gas etc.

— Gradual Slope * —



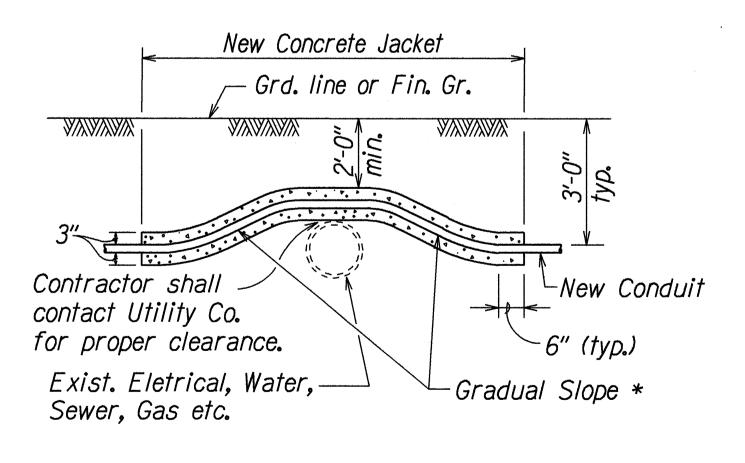
TYPICAL BACKFILL SECTION WITH CONCRETE ENCASED DUCTS



SINGLE CONDUIT

MULTIPLE CONDUIT

DUCT SECTIONS - CONC. ENCASED



* To be determined by County Electrical Inspector/Engineer

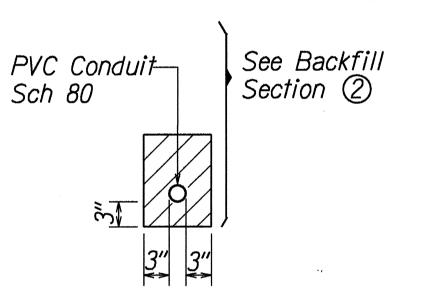
CONDUIT BY-PASS DETAIL AT VARIOUS UTILITIES

Conduit

Not to Scale

HAW. 3400B-01-98 1998 14 12" | Trench Width | 12" Sawcut Prior -Sawcut Prior to to Trenching Compacting Aggr. Base ≠ Paving Sawcut Prior to -Pav't. — Compacting Aggr. Base **♦** Paving A.C. Base Course Varies Type "A" Backfill -Plastic Warning Tape, See Note No. 2. 70/,Ó/O/,ÓZ

> TYPICAL BACKFILL SECTION DIRECT BURIED



PVC Conduit — See Backfill Sch 80 (typ.) Section (2) 3" 3" 3" 3" 3"

(See Duct Sect.)

PVC Conduits Sch. 80 (typ.)

FISCAL SHEET TOTAL YEAR NO. SHEETS

PROJ. NO.

SINGLE CONDUIT

MULTIPLE CONDUIT

DUCT SECTIONS - DIRECT BURIED

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION TRAFFIC SIGNAL DETAILS

WAIEHU BEACH ROAD Installation of Traffic Signals at Eha Street

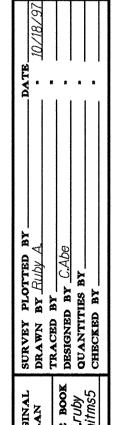
Project No. 3400B-01-98

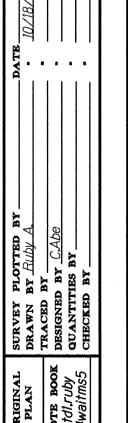
Not to Scale

SHEET No. 3 OF *3* SHEETS

14

Date: Oct., 1997





Contractor shall —

contact Utility Co.

for proper cl.