

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(160)	1982	20	39

GAS NOTES

1. The Gasco, Inc. gas pipe lines in the project area are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near these gas pipe lines.
2. Prior written clearance must be obtained from Gasco, Inc., at least five (5) working days before starting any excavation near these gas lines. Since gas line locations on field maps are approximate, the Contractor, after obtaining a written clearance, shall call Gasco, Inc., a minimum of 48 hours before starting excavation to arrange for field location of existing gas lines. The telephone number is 547-3575 during business hours, and 547-3555 after hours. The Contractor shall excavate and backfill around gas pipe lines in the presence of a Gasco, Inc. representative. All backfill within six inches of gas pipe line shall be select cushion material approved by Gasco, Inc.
3. For relocation of any gas pipe line, the Contractor shall notify Gasco, Inc. five working days before starting work.
4. The Contractor shall notify Gasco, Inc. immediately after any damage has been caused to existing gas pipelines, their coatings or their cathodic protection devices. Repair work on this damage shall be done by Gasco, Inc. with payment for this work to be borne by the Contractor.
5. Minimum vertical or horizontal clearance between gas pipe lines and other pipelines, conduits, or ductlines shall be 12 inches. Adequate support and protection for gas pipe lines exposed in the trench shall be provided. Such support and protection shall be approved by Gasco, Inc.
6. The Contractor shall work in an expeditious manner in order to keep uncovered gas pipe lines exposed for as short a period of time as possible.

LEGEND

- Existing Handhole, Service Box or Water Meter
- Existing Fire Hydrant
- w-6- Existing Water Line
- tc- Existing Telephone Ductline
- g-1- Existing Gas Line
- g-1- New Gas Line

Relocate 1" Gas Line
20 L.F. of 1" Gas Line to be relocated 2 feet below the exist. gas line to clear bottom of new wall footing. 1" Gas Line to be relocated by Gas Co. Contractor to excavate and backfill.

PLAN VIEW - GAS
Scale: 1" = 20'

APPROVED:

George M. Lee
GASCO, INC.

5/17/82
Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
UTILITY - GASCO, INC.
INTERSTATE ROUTE H-1
SAFETY IMPROVEMENTS AT
THE PUNAHOU STREET OFF-RAMP
F.A.I. Proj. No. IR-HI-1(160)

Scale: As Shown Date: May, 1982
SHEET NO. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(160)	1982	21	30

WATER NOTES

1. Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in accordance with the "Standard Specifications for Road and Bridge Construction," dated 1976, as amended, of the Hawaii Highways Division, Department of Transportation.
2. The BWS Standard Details, Figures 1 to 62 inclusive, bound in the "Water System Standards" of the BWS, dated March 1977, as amended, are applicable to this Project.
3. Prior to excavating for new drain, sewer, and other utility lines, the Contractor shall verify in the field the location of existing water mains and appurtenances. Where the installation of new drain, sewer, or other utility lines are to cross over or under existing water mains, the Contractor shall expose the existing water mains prior to trenching. Excavation around water mains shall be done by hand.
4. Items indicated as "relocate" on the plans shall be removed, cleaned, painted, and reinstalled at the new location by the Contractor unless otherwise specified.
5. The minimum clearance between fire hydrants and utility poles or light standards shall be 3.0 feet.
6. The Contractor shall notify the Board of Water Supply in writing one week prior to commencing work on the water system.
7. Approval by the Board of Water Supply is based solely on the adequacy of the water supply. Discrepancies, if any, of alignments, grades, fittings, etc. shall not be the responsibility of the Board of Water Supply.
8. The existence and location of underground utilities and structures as shown on the plans are from the latest available data but is not guaranteed as to the accuracy or the encountering of other obstacles during the course of the work. The Contractor shall be responsible and shall pay for all damages to existing utilities.
9. Any adjustments to the existing water system required during construction to meet requirements of BWS standards, whether shown on the plans or not, shall be done by the Contractor at no cost to the Board.

LEGEND

- | | |
|-------|---|
| | Existing Handhole, Service Box or Water Meter |
| | New Handhole, Service Box or Water Meter |
| | Existing Fire Hydrant |
| | New Fire Hydrant |
| | Existing Manhole or Valve |
| | New Manhole or Valve |
| -W-8- | Existing Water Line |
| -W-8- | New Water Line |
| -tc- | Existing Telephone Ductline |
| -ec- | Existing H.E.Co. Ductline |
| | New H.E.Co. Ductline |

APPROVED:

R. Nagata
for Chief, Planning & Engineering, BWS Date: 6-2-82

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

LAND TRANSPORTATION FACILITIES DIVISION

UTILITY - BWS

INTERSTATE ROUTE H-1

SAFETY IMPROVEMENTS AT

THE PUNAHOU STREET OFF-RAMP

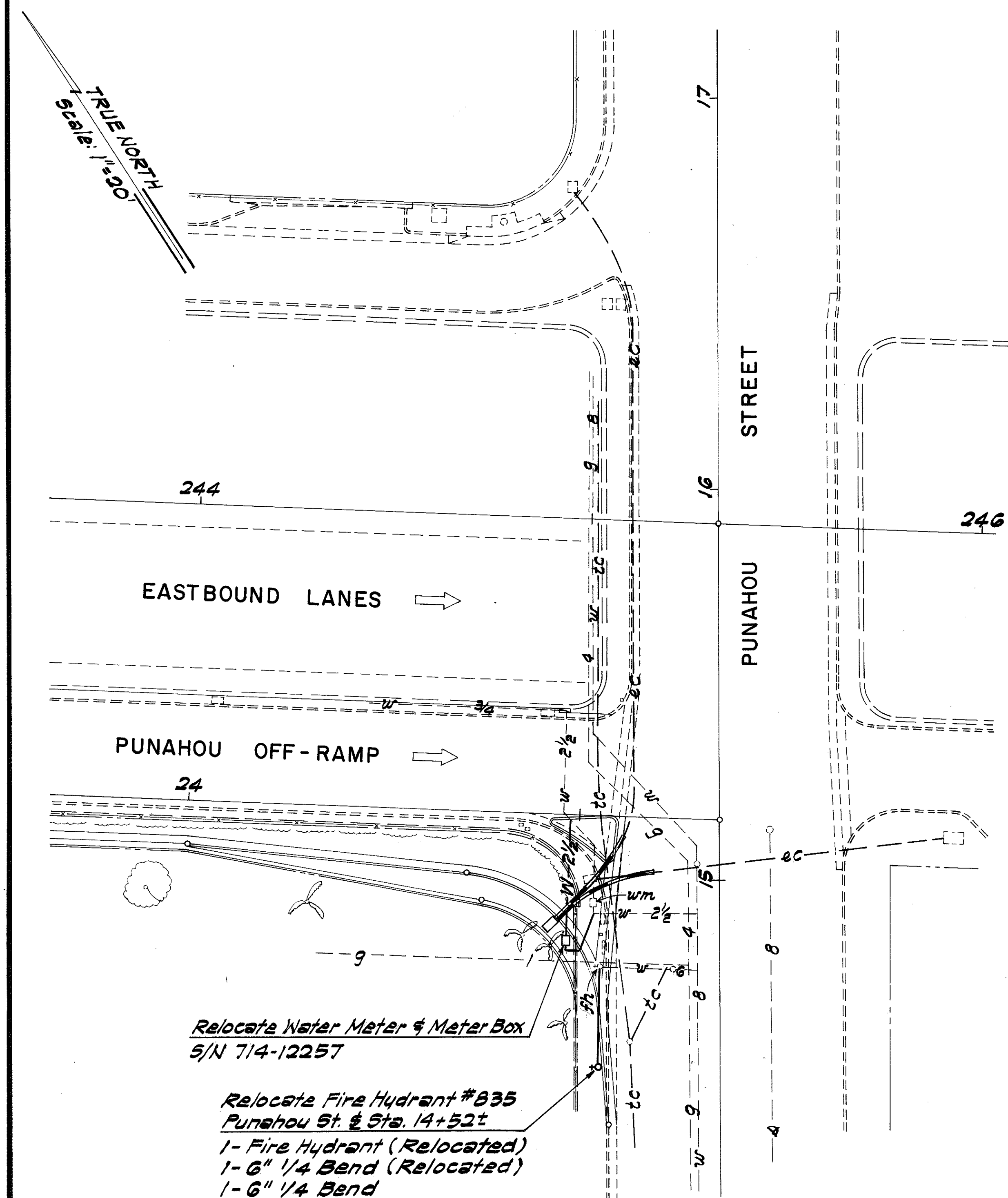
F.A.I. Proj. No. IR-HI-1(160)

Scale: As Shown

Date: May, 1982

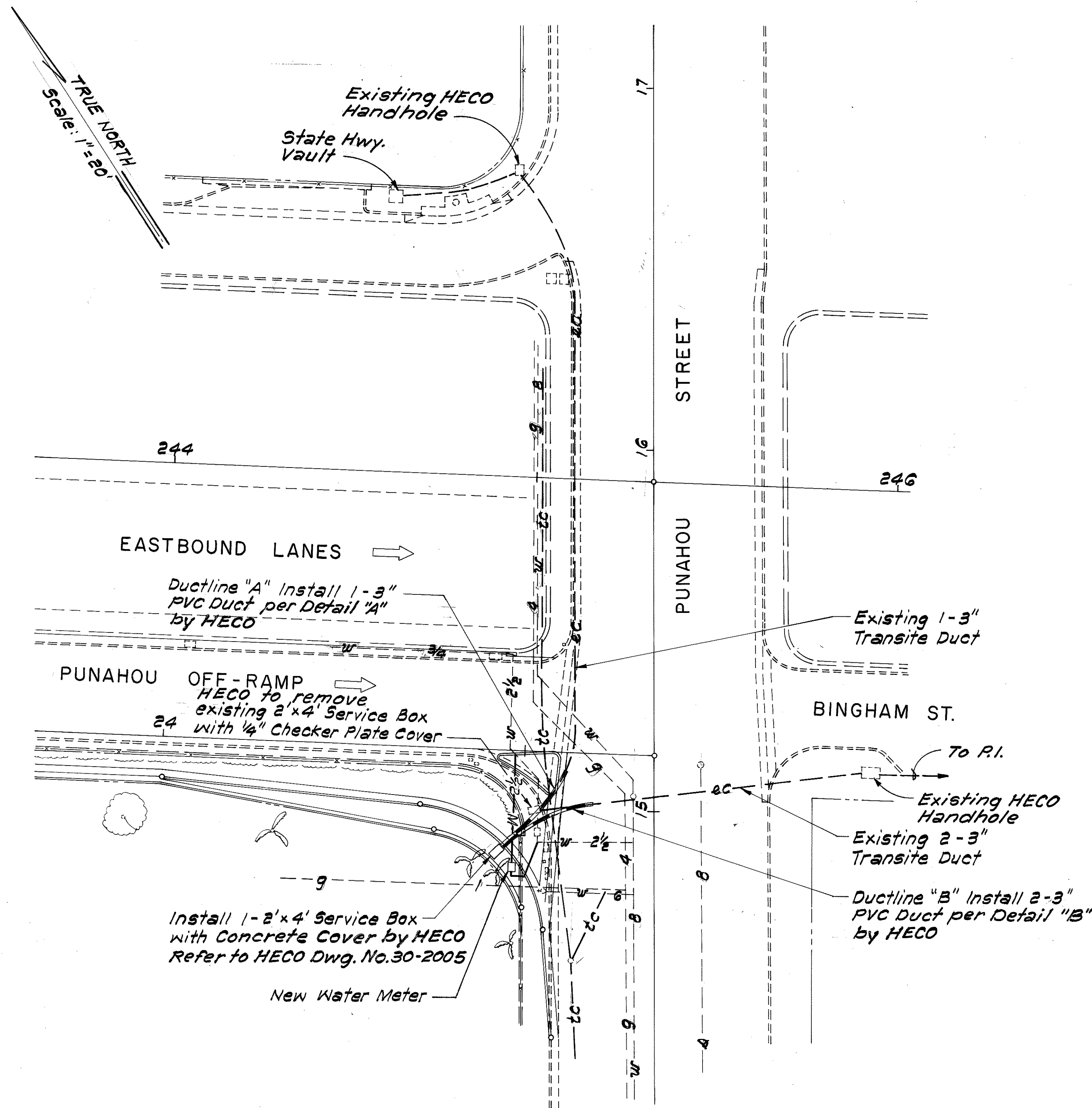
SHEET No. 2 OF 3 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	



PLAN VIEW - WATER
Scale: 1" = 20'

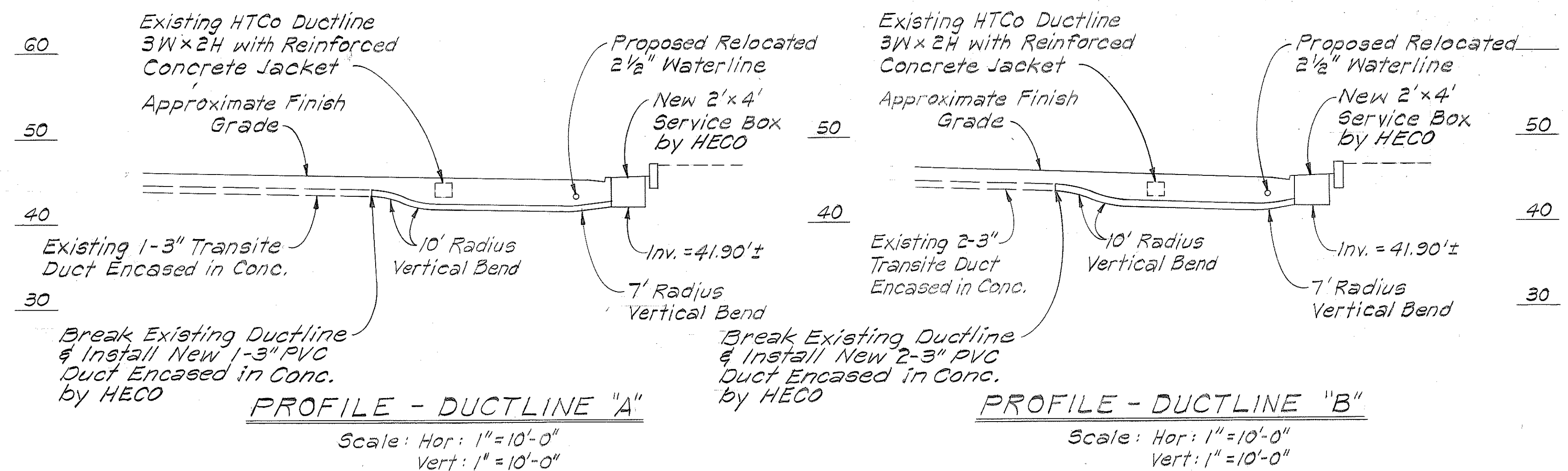
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(160)	1982	22	39



PLAN VIEW - ELECTRIC
Scale: 1" = 20'

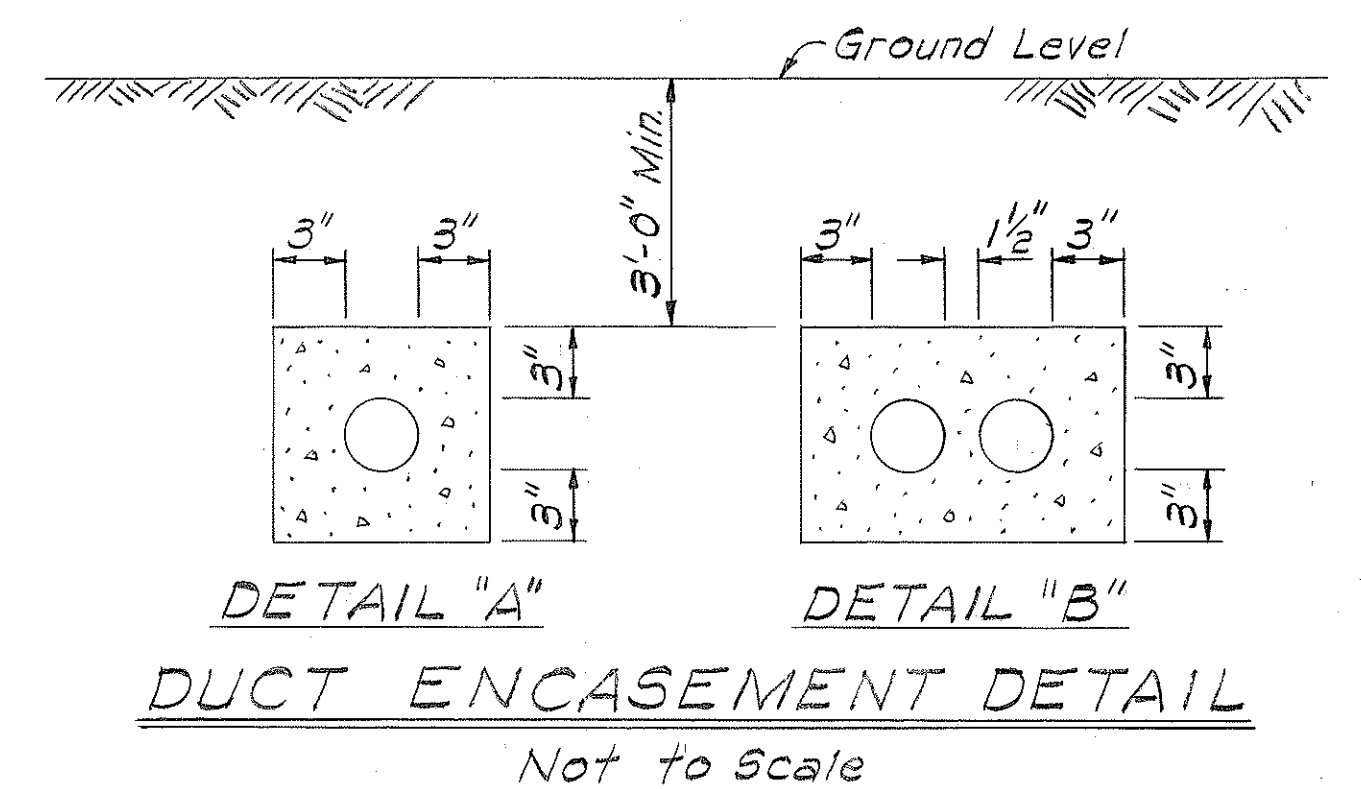
NOTES:

- Hawaiian Electric Co. to supply all materials (service box complete, ducts, concrete & electrical cables), labor and transportation necessary to complete the relocation work. Work includes, breaking into existing ductlines "A" & "B" install new service box, extend ductline to new service box, remove existing service box, and existing underground cables in ductlines "A" & "B".
- The State and or its contractor to provide the finished grade of sidewalk where the new service box will be installed.
- Hawaiian Electric Co. to coordinate it's work with the State's Contractor in manner not to impede construction.
- The State's Contractor to repair and finish the road after HECO has completed the new ductline work.
- The pavement design to repair and finish Punahou Street shall be 2" A.C. Mix I, 6" Aggregate Base Course and Select Borrow as required by the Engineer.



LEGEND

- Existing Handhole, Service Box or Water Meter
- New Handhole, Service Box or Water Meter
- Existing H.E.Co. Ductline
- New H.E.Co. Ductline
- Existing H.T.Co. Ductline
- Existing Water Line
- New Water Line



APPROVED:

John A. [Signature]
Hawaiian Electric Co.

4/8/82
Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
UTILITY - H.E.Co.
INTERSTATE ROUTE H-1
SAFETY IMPROVEMENTS AT
THE PUNAHOU STREET OFF-RAMP
F.A.I. Proj. No. IR-HI-1(160)
Scale: As Shown Date: May, 1982
SHEET NO. 3 OF 3 SHEETS