

## NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY

1. The Contractor shall obtain a construction permit from the State Highway District Engineer at 727 Kaka'i Street prior to commencement of work within State Highway Right-of-Way.
2. Construction and restoration of all existing highway facilities within State Right-of-Way shall be done in accordance with all applicable sections of the current Standard Specifications for Road and Bridge Construction, and the Specification for Installation of Miscellaneous Improvements within State Highways, of the State Highways Division.
3. All lanes shall be opened to traffic during the morning peak hours from 6:00 A.M. to 8:30 A.M. and during the afternoon peak hours from 3:00 P.M. to 6:00 P.M., and during off-work hours. Only one lane of Kamehameha Highway shall be closed at any other time.
4. The Contractor shall provide, install and maintain all necessary signs, lights, flares, barricades, markers, cones and other protective facilities and shall take all necessary precautions for the protection and for the convenience and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites On or Adjacent To Public Streets and Highways," adopted by the Director of Transportation, and the current U.S. Federal Highway Administration "Manual of Uniform Traffic Control Devices for Streets and Highways, Part VI - Traffic Control for Highway Construction and Maintenance Operations." If lane closures are required during construction, a Traffic Control Plan shall be incorporated into the Construction Plans and must be approved by the Division prior to the issuance of the permit.
5. The minimum pavement structure shall consist of:
  - A. Commercial driveways, side roads and utility installations on major highways
  - (1) 2 1/2" Asphalt Concrete, 8" Asphalt Concrete Base and 12" Aggregate Subbase
  - (See Typical Section, sheet 3).
6. No material and/or equipment shall be stockpiled or otherwise stored within highway rights-of-way except at locations designated in writing and approved by the District Engineer.
7. Compaction tests shall be taken in accordance with the Specifications for Installation of Miscellaneous Improvements within State Highways, as follows:
  - A. Subbase: Compaction test as directed by State Inspector.
  - B. Base Course: Compaction test as directed by State Inspector.
  - C. 1 compaction test for each 200 linear feet of trench.A copy of the test results shall be submitted to the District Engineer.
8. Prior to commencing trench excavation work, the Contractor shall take a profile along the new centerline of utility trench and that such information shall be used in the verification of restoring the roadway to its original condition. A copy of the profile shall be submitted to the District Engineer.
9. The Contractor shall be required to provide adequate, safe, non-skid bridging material over the trench, including shoring, when trenching in pavement areas to handle all types of vehicular traffic.
10. No trench shall be opened more than 200 feet in advance of the installed and tested pipe and/or ductline.
11. Longitudinal drainage along the highway shall be maintained.
12. Pavement striping shall be done by Contractor.

13. Approval of Permit Construction Plans shall be valid for a period of one year thereof from the date of notification of approval to the applicant. In the event construction does not commence within this one-year period, the applicant will be required to resubmit his construction plans for Division's review and approval.

14. All regulatory, guide and construction signs and barricades shall be of high intensity reflective sheeting.

15. Stop work and contact the State Historic Site Office, phone no. 548-7460, immediately should any unidentified archaeological site or remains (such as artifacts, shells, bones, charcoal deposits, road or coral alignments, pavings or walls) be encountered during construction.

16. The Contractor shall inform the State Permit Office (phone no. 548-2596) at least 2 working days prior to any lane closure.

17. The existing U.S. Army cable shown on the plans is operated and maintained by the Hawaiian Telephone Company. The Contractor shall verify the location of the cable by contacting the Hawaiian Telephone Company, Records Department, at 834-G215, prior to excavation, and shall be responsible for any damages to the cable. The Contractor shall exercise proper care while excavating in the vicinity of the cable. Any portion of the existing cable that must be relocated, lowered or repaired to accomplish the work called for on the plans shall be done by HECO at the Contractor's cost.

## CONSTRUCTION NOTES FOR GAS FACILITIES

1. The Gasco, Inc. gas pipelines in the project are plastic coated and cathodically protected. The Contractor shall be extremely careful when working near these gas pipelines.
2. Prior written clearance must be obtained from Gasco, Inc. at least five working days before starting excavation near these gas pipelines. Since gas line locations on field maps are approximate, the Contractor, after obtaining written clearance, shall call Gasco, Inc. a minimum of 48 hours before starting excavation to arrange for field location of the existing gas pipelines. The telephone number is 347-3575 during business hours, and 526-0066 after hours.
3. For relocation of any gas pipeline, the Contractor shall notify Gasco, Inc. five working days before starting work. The Contractor shall provide the necessary excavation and backfill, arrange for traffic permits, and restore pavement, sidewalks, or other facilities. Any relocation of gas facilities shall be done by Gasco, Inc. and paid for by the Contractor.

Gas Notes continued in next column

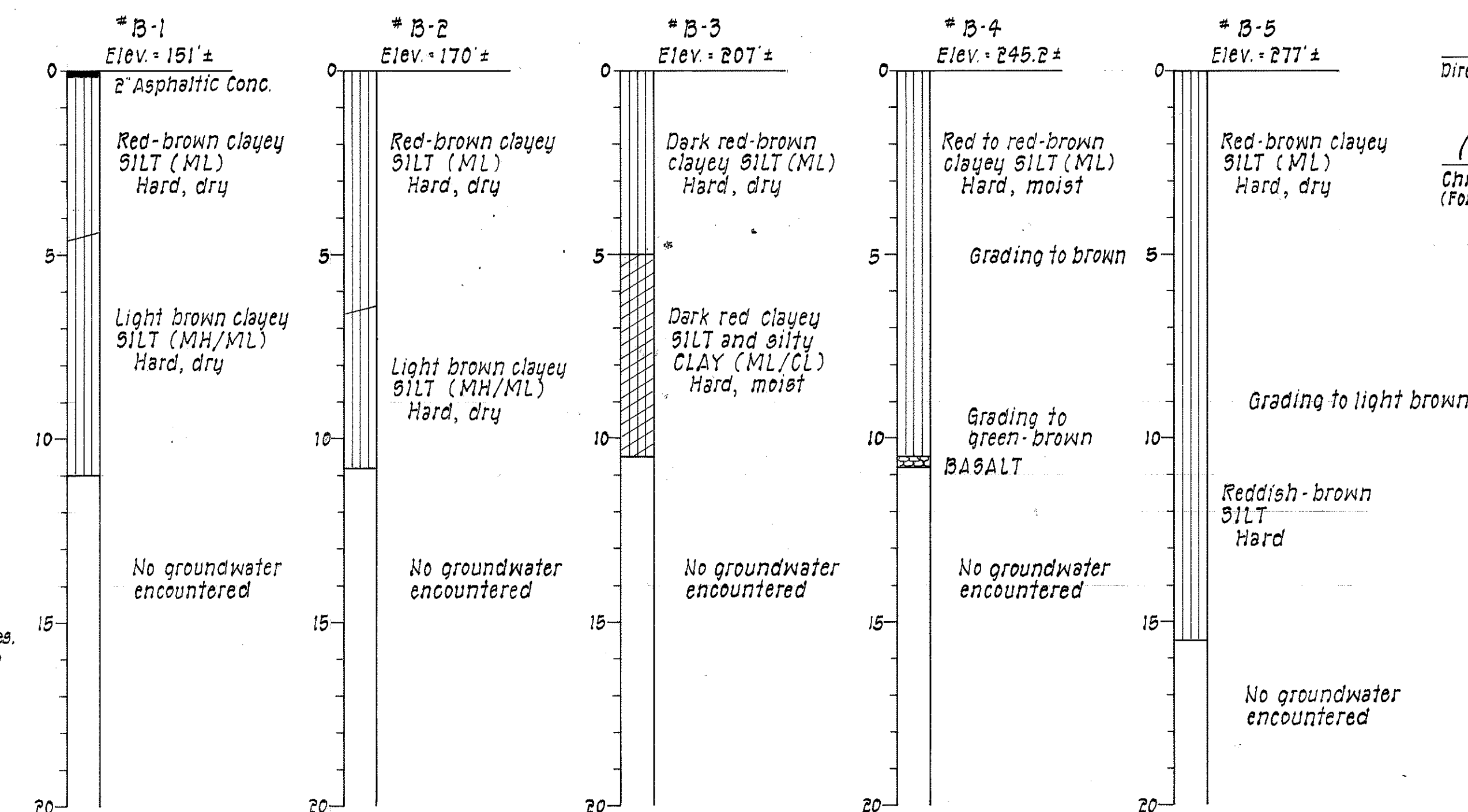
## NOTES FOR CONSTRUCTION WITHIN CITY RIGHT-OF-WAY

1. The Contractor shall perform all applicable construction work in accordance with the Standard Details for Public Works Construction, dated September 1984, as amended, the Standard Specifications for Public Works Construction, dated September 1986, of the Department of Public Works, City and County of Honolulu, and the Revised Ordinances of Honolulu, 1978, as amended.
2. The Contractor, at his expense, shall keep the project and surrounding areas free from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards and Regulations of the State Department of Health. The City may require supplemental measures as necessary.
3. Utilities shall be installed in accordance with Ordinance Nos. 2875 and 3357 (Underground Utilities).
4. Construction activities will not be permitted on city streets during weekends and holidays without prior approval from the Chief Engineer, City and County of Honolulu.
5. Location of underground utilities and pipes shown on the plans are approximate only. The Contractor shall verify the exact location of the existing utilities and shall be responsible for any damages to them. Any portion of the existing utilities that must be removed or otherwise disturbed to accomplish the work called for on the plans shall be reconstructed, replaced or restored to the original condition at the Contractor's own expense.
6. The Contractor shall notify the Department of Public Works, Division of Engineering, Construction Branch, seven (7) days prior to commencement of construction.
7. The Contractor shall comply with the provisions of Chapter 54, Wafer Quality Standards, and Chapter 55, Water Pollution Control, of Title 11, Administrative Rules of the State Department of Health, during all phases of work. Adequate measures shall be taken to comply with these rules.
8. The Contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The cost incurred for any necessary remedial action by the Chief Engineer, City and County of Honolulu, shall be payable by the Contractor.
9. The underground pipes, cables or ductlines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the location and depth of the facilities and exercise proper care in excavating in the area. Whenever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.
10. All grading work shall be done in accordance with Chapter 23, Grading, Soil Erosion and Sediment Control, of the Revised Ordinances of Honolulu, 1978, as amended (Ordinance No. 81-13) and Soil Report by PSC Assoc., Inc., titled "Proposed Widening of Kamehameha Highway, Waipahu, Oahu, Hawaii", dated Dec. 23, 1987.

## GAS NOTES (CONT.)

4. The Contractor shall notify Gasco, Inc. immediately after any damage has been caused to existing gas pipelines, coatings, or its cathodic protection devices. Repair work on such damage shall be done by Gasco, Inc. with payment for this work to be borne by the Contractor.
5. Minimum vertical and horizontal clearance between the gas pipelines and other pipelines, conduits, ductlines, or other facilities shall be 12 inches. Adequate support and protection for gas pipelines exposed in the trench shall be provided by the Contractor and approved by Gasco, Inc.
6. The Contractor shall work in an expeditious manner in order to keep the uncovered gas pipelines exposed for as short a period of time as possible.

## BORING LOG



## TRAFFIC NOTES (CITY)

1. A permit shall be obtained from the Department of Transportation Services before work on any portion of a public street or highway may begin.
2. The Contractor shall provide, install and maintain all necessary signs and other protective facilities, which shall conform with the "Hawaii Administration Rules Governing the Use of Traffic Control Devices at Work Sites On or Adjacent To Public Streets and Highways" adopted by the Director of Transportation and the current U.S. Federal Highway Administration's "Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI - Traffic Controls for Street and Highway Construction and Maintenance Operations."
3. Work on any City street area may be performed only between the hours of 8:30 a.m. to 3:30 p.m., Monday through Friday, unless otherwise permitted by the Department of Transportation Services.
4. During working hours, the Contractor shall provide two lanes for through traffic. On streets too narrow to make this practicable, the Contractor may work in one half the roadway, keeping the other half open to traffic and alternating the flow of traffic. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to traffic.
5. As required by the Department of Transportation Services, the Contractor shall provide off-duty police officers to control the flow of traffic.
6. Driveways shall be kept open unless the owners of the property using these rights-of-way are otherwise provided for satisfactorily.
7. Where pedestrian walkways exist, they shall be maintained in passable condition or other facilities for pedestrians shall be provided. Passage between walkways at intersections shall likewise be provided.
8. The Contractor shall reference, to the approval of the Department of Transportation Services, all existing traffic signs, posts and pavement markings prior to the commencement of construction. The Contractor shall replace or repair all traffic signs, posts and pavement markings disturbed by his activities. The Contractor shall notify the Department of Transportation Services at 523-4029 one (1) week prior to any work to be done on signs, posts and pavement markings.
9. The Contractor shall be responsible for any damages to existing street lighting and traffic signal facilities and damages shall be repaired by the Contractor.
10. No material and/or equipment shall be stockpiled or otherwise stored within street rights-of-way except at locations designated in writing and approved by the Department of Transportation Services.
11. The Contractor shall notify MTL, Kenneth Hong at 531-7066, two weeks prior to construction, informing him of the location, scope of work, proposed closure of any street or traffic lanes and the need to relocate any bus stop.
12. Dedication of Lumaina Street Extension and Lumisau Street Extension to the City will only be accepted upon completion to City requirements and access is needed for public use. Otherwise, these roads will be private.

## EARTHWORK QUANTITIES (For Permit Purposes only)

Excavation 18,658 c.y.  
Embankment 4,367 c.y.

Area to be graded: 10.9 Acs.

Reapproved due to major changes: Date

Approved: Date

*Sam Camp* 1-23-90  
Director & Chief Engineer, Dept. of Public Works

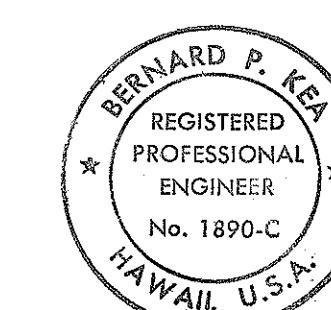
*Sam Camp* 12-27-88  
Director & Chief Engineer, Dept. of Public Works

*M. Fufengau* 1/23/90  
Chief, Division of Engineering, DPW  
(For Grading & Construction within City R/W only)

*Norm H. P. Ho* 1/24/90  
Chief, Division of Engineering, DPW  
(For Grading & Construction within City R/W only)

*Norm H. P. Ho* 10-18-89  
Director, Dept. of Transportation Services  
(For Construction within City R/W only)

*Sam Camp* 1-26-90  
Director, Dept. of Land Utilization  
City & County of Honolulu



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.  
*Bernard P. Kea*  
Signature

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GENERAL NOTES  
& BORING LOG

KAMEHAMEHA HIGHWAY WIDENING

PROJ. NO. 99C-01-90

SCALE: NONE DATE: JAN. 1990

SHEET NO. 1 OF 1 SHEETS

RECORD DRAWINGS

3