

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-08-14	2016	3	88

1. The project includes construction of an area for administering on-road skills tests for CDLs and motorcycles and the renovation of an existing building to be used as an office. The scope of work for the new testing site involves excavation for roadway, drainage systems, ditch and channel, landscaping, installation of Portland cement concrete pavement, jersey barriers around existing structural columns, chain link fence, striping and signage, reconstruction of a portion of Second Street. The scope of work for the proposed testing office area includes cold planing and resurfacing the existing parking lot with Hot Mix Asphalt pavement, striping, signage, and renovation of the existing structure.
2. The Contractor is reminded of the requirements of Subsection 105.16 - Subcontracts, which requires him to perform work to not less than 30 percent of the total contract cost less deductible items. Non-compliance with this Subsection may be grounds for rejection of bid.
3. The Contractor's attention is directed to the following Sections: Subsection 104.11 - Utilities and Services; Subsection 107.06 - Contractor Duty Regarding Public Convenience; and Section 645 - Work Zone Traffic Control.
4. 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.
5. The existence and location of underground utilities, manholes, monuments and structures as shown on the plans are from the latest available data, but the accuracy is not guaranteed. The encountering of other obstacles during the course of work is possible. The Contractor shall tone for the exact locations and depths of all underground facilities, either shown on or omitted from the plans, in areas where work, such as the placement of sign posts, traffic signal conduits, etc. may affect these properties. Contractor shall maintain the markings of lines located during toning. Toning shall be considered incidental to the various contract items and will not be paid for separately. Any conflicts with locations of existing lines and planned excavations shall be brought to the Engineer's attention for resolution before starting excavation. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations.
6. The Contractor shall notify the following agencies of the scope of work, location, proposed closure of any street, traffic lane sidewalk, or bus stop, and duration of project at least two (2) weeks prior to construction:
- 1) Department of Transportation Services, Public Transit Division (ph. #768-8396)
- 2) Oahu Transit Services, Inc. Bus Operations (ph. #848-4578 or 852-6016)
- 3) Oahu Transit Services, Inc. Paratransit Operations (ph. #454-5041 or 454-5020)
- 4) Honolulu Police Department (ph. #723-3865)
- 5) Honolulu Fire Department - Battalion Chief Terry Seelig (ph. #723-7151)
- 6) Emergency Medical Services (ph. #723-7800)
7. The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting construction operations.

8. The Contractor shall obtain a Community Noise permit from the State Department of Health, Noise and Radiation Branch, 591 Ala Moana Blvd., Room 136, Honolulu, HI 96813-2498; Telephone No. 586-4700. This shall be considered incidental to the various contract items and will not be paid for separately. The Contractor shall maintain written records of noise level measurements and be prepared to provide current copies of records upon request by the Department of Health or the Department of Transportation.
9. The Contractor shall indemnify the State from damage to, and be solely responsible for the protection of, adjacent properties, utilities and existing structures from damages due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
10. Existing drainage system will be functional at all times during construction. The Contractor shall furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. This work shall be considered incidental to any culvert work or the various contract items and will not be paid for separately.
11. Earth swale shall be graded to drain. This work shall be considered incidental to various contract items.
12. Smooth riding connections shall be constructed at all limits of project, including the beginning and end of project, connecting approaches, side streets, walkways and driveways as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to asphalt concrete and will not be paid for separately.
13. Prior to the end of each work day, the Contractor shall clean and remove any accumulation of aggregates and debris along the roadside within 10 feet of the edge of pavement. This work shall be considered incidental to bulk of work or the various contract items and will not be paid for separately.
14. Removal and disposal of existing curb and gutter, curb, sidewalk, asphalt and concrete pavement, fence and any debris shall be considered incidental to their respective bid items.
15. All saw cutting work shall be considered incidental to Roadway Excavation or Asphalt Concrete or Various Contract Items or their respective bid items.
16. Prior to placement of new aggregate subbase course, the existing subbase shall be compacted to a relative compaction greater than or equal to 95%.
17. The Contractor shall provide and maintain for access to and from all existing driveways, sidewalks and ADA access routes, and side streets and cross streets at all times. This work shall be considered incidental to curb ramps, sidewalk, and/or the various contract items and will not be paid for separately.
18. The Contractor shall provide and maintain a temporary pedestrian-safe and easily accessible route or detour with barricades in or near the work zone. This temporary route or detour shall be paved at least an inch of Asphalt Concrete Pavement, Mix No. V or steel and/or wood planks and shall be American With Disabilities Act (ADA) compliant [This is only applicable if existing surface is dirt and/or if existing surface is non-ADA compliant.]. This work shall be incidental to curb ramps, sidewalk, and/or the various contract items and will not be paid for separately.
19. The Contractor shall remove and dispose of all existing raised pavement markers, thermoplastic line markings, traffic tapes, and epoxy adhesives prior to the overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. V and will not be paid for separately.

20. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way except at locations designated in writing and approved by the Engineer. If use of location is approved by the engineer, the Contractor shall obtain a permit to use the property within the highway right-of-way from the Oahu District Office at telephone no. 831-6712.
21. The Contractor is to take special measures to reduce dust from cold planing operations including but not limited to use of water misters on cold planing equipment and vacuum sweepers. Use of power brooms to sweep road is not allowed if a dust nuisance is created.
22. The State will obtain a building permit for the office renovation. The Contractor shall obtain all other necessary permits prior to start of work at his own cost.
23. Tack coat shall be considered incidental to various Hot Mix Asphalt Pavement items.
24. During non-working hours, any trenches on th street shall be covered using 1-inch thick steel plates with non skid surfaces and all lanes maintained open for traffic.
25. After completion of resurfacing, the Contractor and the Engineer will test for and determine ponding areas (i.e. low spots within the resurfaced area). It shall be the responsibility of the Contractor to correct and resurface and/or repair all such ponding areas. Corrective measures shall be approved by the Engineer.
26. The Contractor shall contact John Lovstedt (ph. # 692-7655) of the Motor Vehicle Safety Office for access to examine the site and interior of the building prior to bid.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND
COMMERCIAL DRIVER'S LICENSE AND
MOTORCYCLE LICENSE TESTING FACILITY
EXAMINATION SITE AND OFFICE RENOVATION
Beneath Interstate Route H-1 Pearl City Viaduct
Project No. HWY-0-08-14
Date: May 2016

HAWAIIAN ELECTRIC COMPANY NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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1. LOCATION OF HECO FACILITIES

The location of HECO's overhead and underground facilities shown on the plans are from existing records with varying degrees of accuracy and are not guaranteed as shown. The Contractor shall verify in the field the locations of the facilities and shall exercise proper care in excavating and working in the area. Wherever connections of new utilities to existing utilities and utility crossings are shown, the Contractor shall expose the existing lines at the proposed connections and crossings to verify the depths prior to excavation for the new lines. The Contractor shall be responsible for any damages to HECO's facilities whether shown or not shown on the plans.

2. COMPLIANCE WITH HAWAII OCCUPATIONAL SAFETY AND HEALTH LAWS

The Contractor shall comply with the State of Hawaii's Occupational Safety and Health Laws and Regulations, including without limitation, those related to working on or near exposed or energized electrical lines and equipment.

3. EXCAVATION CLEARANCE

The Contractor shall obtain an excavation clearance from HECO's Planning and Design Section of the Customer Installations Department (543-5654) located at 820 Ward Avenue, 4th Floor, a minimum of ten (10) working days prior to starting construction.

4. CAUTION!!! ELECTRICAL HAZARD!!!

Existing HECO overhead and underground lines are energized and will remain energized during construction unless prior special arrangements have been made with HECO. Only HECO personnel are to handle these energized lines and erect temporary guards to protect these lines from damage. The Contractor shall work cautiously at all times to avoid accidents and damage to existing HECO facilities, which can result in electrocution.

5. OVERHEAD LINES

State Law (OSHA) requires that a worker and the longest object he or she may contact cannot come closer than a specified minimum radial clearance when working close to or under any overhead lines. It is the Contractor's responsibility to be informed of and comply with the law.

At any time should the Contractor anticipate that his work will result in the need to encroach within the minimum required clearance as stated in the law, the Contractor shall notify HECO at least four (4) weeks prior to the planned encroachment so that, if feasible, the necessary protections (e.g. relocate or de-energize HECO lines) can be investigated. HECO may also be able to blanket its distribution (12kV and below) lines to provide a visual aid in preventing accidental contact. HECO's cost of safeguarding or identifying its lines will be charged to the Contractor.

Contact HECO's Customer Installations Department at 543-7846 for assistance in identifying and safeguarding overhead power lines.

6. POLE BRACING

A minimum clearance of 10 feet must be maintained when excavating around utility poles and/or their anchor system to prevent weakening or pole support failure. Should work require excavating within 10 feet of a pole and/or its anchor system, the Contractor shall protect, support, secure, and take all other precautions to prevent damage to or leaning of these poles. The Contractor is responsible for all pole bracing designs and structural calculations, as well as the associated costs to brace, repair, or straighten poles. All means of structural support for the pole and/or anchor system proposed by the Contractor shall be submitted to HECO's Customer Installations Department (543-7846) for review a minimum of ten (10) working days prior to implementation. The cost of HECO's review/assistance in providing proper support and protection of its poles will be charged to the Contractor.

7. UNDERGROUND LINES

The Contractor shall exercise extreme caution whenever construction crosses or is in close proximity of underground lines. HECO's existing electrical cables are energized and will remain energized during construction. Only HECO personnel are to break into existing HECO facilities, handle these cables, and erect temporary guards to protect these cables from damage. The cost of HECO's assistance in providing proper support and protection of its underground lines will be charged to the Contractor. For assistance/coordination in providing proper support and protection of these lines, the Contractor shall call HECO's Customer Installations Department at 543-7846 a minimum of ten (10) working days in advance.

Special precautions are required when excavating near HECO's 138kV underground lines (see HECO instructions to Consultants/Contractors on "Excavation Near HECO's Underground 138kV Lines" for detailed requirements).

For verification of underground lines, the Contractor shall call the Hawaii One Call Center at 866-423-7287 minimum of five (5) working days in advance.

8. UNDERGROUND FUEL PIPELINES

The Contractor shall exercise extreme caution whenever construction crosses or is in close proximity of HECO's underground fuel oil pipelines. Special precautions are required when excavating near HECO's underground fuel oil pipelines (see HECO's specific fuel pipeline "Guidelines" to Consultants/Contractors on excavation near HECO's underground fuel pipelines for detailed requirements).

9. EXCAVATIONS

When trench excavation is adjacent to or beneath HECO's existing structures or facilities, the Contractor is responsible for:

- a) Arranging for HECO standby personnel to observe work at Contractor's cost.
- b) Sheeting, bracing, or otherwise supporting the excavation and stabilizing the existing ground to render it safe and secure and to prevent possible slides, cave-ins, and settlements.
- c) Properly supporting existing structures or facilities with beams, struts, under-pinnings, or other necessary methods to fully protect it from damage.
- d) Backfilling with proper backfill material including special thermal backfill where existing (refer to Engineering Department for thermal backfill specifications).

10. RELOCATION OF HECO FACILITIES

Any work required to relocate or modify HECO facilities shall be done by HECO, or by the Contractor under HECO's supervision. The Contractor shall be responsible for all coordination, and shall provide necessary support for HECO's work, which may include, but not be limited to, staking of pole/anchor locations, identifying right of way and property lines, excavation and backfill, permits and traffic control, barricading, and restoration of pavement, sidewalks, and other facilities.

All costs associated with any relocation or modification (either temporary or permanent) for the convenience of the Contractor, or to enable the Contractor to perform his work in a safe and expeditious manner in fulfilling his contract obligations shall be borne by the Contractor.

11. CONFLICTS

Any redesign or relocation of HECO's facilities not shown on the plans may be cause for lengthy delays. The Contractor acknowledges that HECO is not responsible for any delay or damage that may arise as a result of any conflicts discovered or identified with respect to the location or construction of HECO's electrical facilities in the field, regardless of whether the Contractor has met the requested minimum advance notices. In order to minimize any delay or impact arising from such conflicts, HECO should be notified immediately upon discovery or identification of such conflict.

12. DAMAGE TO HECO FACILITIES

The Contractor shall be responsible for the protection of all HECO surface and subsurface utilities and shall be responsible for any damages to HECO's facilities as a result of his operations. The Contractor shall immediately report such damages or any hazardous conditions related to HECO's lines to HECO's Trouble Dispatcher at 548-7961. Repair work shall be done by HECO or by the Contractor under HECO's supervision. Costs for damages to HECO's facilities shall be borne by the Contractor.

In case of damage or suspected damage to HECO's fuel pipeline, the Contractor shall immediately notify HECO's Security Command Center at 543-7685 (a 24-hour number) so HECO personnel can secure the damaged section and report any oil spills to the proper authorities. All costs associated with the damage, repair, and oil spill cleanup shall be borne by the Contractor.

13. HECO STAND-BY PERSONNEL

The Contractor may request HECO to provide an inspector to stand-by during construction near HECO's facilities. The cost of such inspection will be charged to the Contractor.

The Contractor shall call HECO's Customer Installations Department at 543-7846 a minimum of five (5) working days in advance to arrange for HECO stand-by personnel.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HECO UTILITY NOTES
COMMERCIAL DRIVER'S LICENSE AND
MOTORCYCLE LICENSE TESTING FACILITY
EXAMINATION SITE AND OFFICE RENOVATION
Beneath Interstate Route H-1 Pearl City Viaduct
Project No. HWY-0-08-14
Date: Dec 2016

3 12/14/16 Added Sheet.

DATE	REVISION	SHEET No. 1 OF 2 SHEETS
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ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

HAWAIIAN ELECTRIC COMPANY NOTES (Continued)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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14. CLEARANCES

The following clearances shall be maintained between HECO's ductline and all adjacent structures (charted and uncharted) in the trench:

MINIMUM SEPARATION CLEARANCES TO EXSITING UNDERGROUND DUCTLINES HORIZONTAL (PARALLEL)				
UTILITY BEING INSTALLED	EXISTING DIRECT BURIED CABLE	EXISTING DIRECT BURIED IN CONDUIT (no concrete encasement)	EXISTING 3" CONCRETE ENCASEMENT	APPLICABLE NOTES:
HECO DB Conduits	12"	3"	0"	
HECO 3" Encasement	0"	0"	0"	
Telephone / CATV DB	12"	12"	6"	
Telephone / CATV DB Ducts	12"	12"	6"	
Telephone / CATV 3" Encasement	0"	0"	0"	5
Traffic Signal	12"	12"	12"	
Water DB	36"	36"	36"	1, 4
Water Service Laterals	12"	12"	12"	
Water (Concrete Jacketed)	36"	36"	36"	1, 4
Gas DB	12"	12"	12"	1
Gas (Concrete Jacketed)	12"	12"	12"	1
Sewer DB	36"	36"	36"	1, 2
Sewer (Concrete Jacketed)	36"	36"	36"	1, 2
Drain	12"	12"	12"	1
Fuel Pipelines				3

Notes:

- Where space is available, parallel clearance to other utilities, or foreign structures other than communication or traffic signal shall be 36".
- If 36" clearance cannot be met:
 - If clearance is less than 12", jacket sewer line with reinforced concrete (per HECO's std. 30-1030) for a distance of 5' plus pipe diameter.
 - If clearance is between 12" and 36", jacket sewer line with plain concrete.
- All Fuel Pipeline crossings shall be reviewed and approved by the company that owns and maintains it.
- 5 feet clear to water mains 16" and larger.
- For situations with 0" minimum separation, a 6" separation is recommended.
- Clearances measured from outer edges or diameters of utilities.

The Contractor shall notify the Construction Manager # HECO of any heat sources (power cable duct bank, steamline, etc.) encountered that are not properly identified on the drawing.

15. INDEMNITY

The Contractor shall indemnify, defend and hold harmless HECO from and against all losses, damages, claims, and actions, including but not limited to reasonable attorney's fees and costs based upon or arising out of damage to property or injuries to persons, or other tortious acts caused or contributed to by Contractor or anyone acting under its direction or control or on its behalf; provided Contractor's indemnity shall not be applicable to any liability based upon the sole negligence of HECO.

MINIMUM SEPARATION CLEARANCES TO EXSITING UNDERGROUND DUCTLINES VERTICAL (CROSSING)				
UTILITY BEING INSTALLED	EXISTING DIRECT BURIED CABLE	EXISTING DIRECT BURIED IN CONDUIT (no concrete encasement)	EXISTING 3" CONCRETE ENCASEMENT	APPLICABLE NOTES:
HECO DB Conduits	6"	3"	0"	
HECO 3" Encasement	0"	0"	0"	
Telephone / CATV DB	12"	12"	6"	
Telephone / CATV DB Ducts	12"	12"	6"	
Telephone / CATV 3" Encasement	0"	0"	0"	5
Traffic Signal	12"	12"	6"	
Water Service Laterals	6"	6"	6"	
Water DB	6"	6"	6"	2
Water (Concrete Jacketed)	6"	6"	6"	2
Gas DB	12"	12"	12"	
Gas (Concrete Jacketed)	12"	12"	12"	
Sewer DB	24"	24"	24"	1
Sewer (Concrete Jacketed)	24"	24"	24"	1
Drain	12"	12"	6"	
Fuel Pipelines				3

Notes:

- If clearance cannot be met:
 - If clearance is less than 12", jacket sewer line with reinforced concrete (per HECO's std. 30-1030) for a distance of 5' plus pipe diameter.
 - If clearance is between 12" and 24", jacket sewer line with plain concrete.
- 12" vertical clearance for pipe diameters greater than 16".
- All Fuel Pipeline crossings shall be reviewed and approved by the company that owns and maintains it.
- 5 feet clear to water mains 16" and larger.
- For situations with 0" minimum separation, a 6" separation is recommended.
- Clearances measured from outer edges or diameters of utilities.

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3 12/14/16 Added Sheet.

DATE REVISION

STATE OF HAWAII
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HIGHWAYS DIVISION
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SHEET No. 2 OF 3 SHEETS

C.O. 3S-2R

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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HAWAIIAN ELECTRIC COMPANY NOTES (Continued)

ADDITIONAL NOTES WHEN WORK INVOLVES CONSTRUCTION OF HECO FACILITIES

16. SCHEDULE

Contractor shall furnish his construction schedule six (6) months prior to starting work on HECO facilities. Contractor shall give HECO, in writing, three (3) months notice to proceed with HECO's portion of work.

17. AUTHORITY

All construction, restoration work, and inspection shall be subject to whichever governmental agency has authority over the work.

18. SPECIFICATIONS

Construction of HECO's underground facilities shall be constructed in accordance with the latest revisions of HECO specifications CS7001, CS7003, CS7202, CS9301, and CS9401 and applicable HECO standards.

19. CONSTRUCTION

Contractor shall furnish all labor, materials, equipment, and services to properly perform and fully complete all work shown on the contract, drawings, and specifications. All materials shall be new and manufactured in the United States of America. All manhole, handhole, and ductline installations shall be inspected and approved by HECO prior to excavation and prior to placing concrete. Contractor shall notify HECO's Inspection Division at 543-4329 at least five (5) working days prior to installing facilities or placing concrete.

Contractor to coordinate work to break into HECO's existing electrical facilities with HECO's Inspection Division at 543-4329 at least ten (10) working days in advance.

20. STAKEOUT

The Contractor shall arrange for toneouts of all underground facilities and shall stakeout all proposed HECO facilities within the project area so as to not conflict with any utility (existing or proposed) and any proposed construction or improvement work for verification by HECO before proceeding with HECO work.

21. DUCTLINES

All ductline installations shall be PVC Schedule 40 encased in concrete, unless otherwise noted. All completed ductlines shall be mandrel tested by the Contractor in the presence of HECO's Inspector using HECO's standard practice. The Contractor shall install 1800* Tensile Strength Muletape Pull Line in all completed ductlines after mandrel testing is complete.

22. JOINT POLE REMOVAL

The last joint pole occupant off the poles shall remove the poles.

23. AS-BUILT PLANS

The Contractor shall provide HECO with two sets of as-built reproducible tracings showing the offsets, stationing, and vertical elevation of the duct line(s) constructed.

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HAWAII GAS NOTES

1. CAUTION: 500 PSI HIGH PRESSURE GAS LINE Hand-dig to expose gas line before excavating with machinery. 24 inches minimum clearance required.

SEWER NOTES

1. The Contractor shall protect all sewers and manholes within the project area from damage during construction. Access for sewer maintenance shall be preserved during and after the construction phase.

HAWAII ONE CALL CENTER

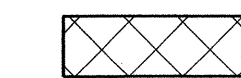
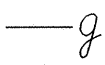
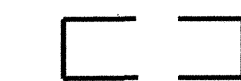
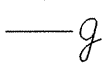
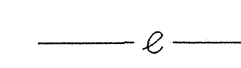
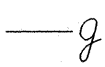
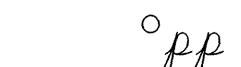
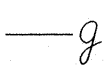

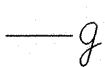

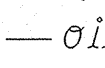
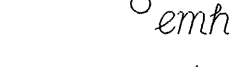



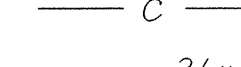

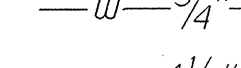
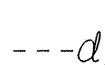
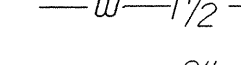
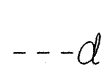
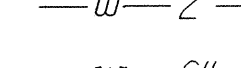
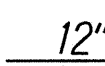
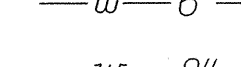
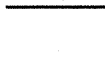
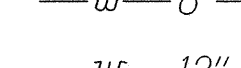

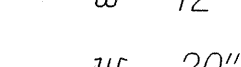

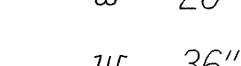

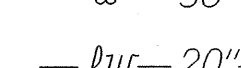

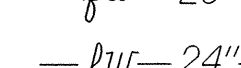

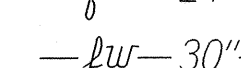

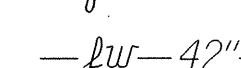

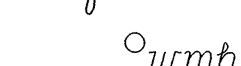

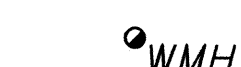

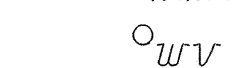



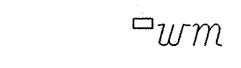

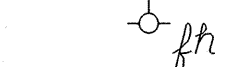
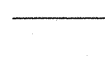
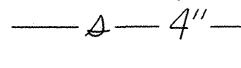
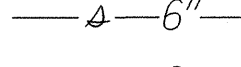
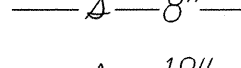
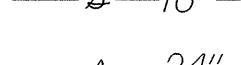
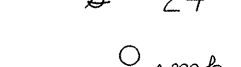



1. Before conducting any excavation in the public right of way or on private property, the Contractor shall call the Hawaii One Call Center at least five (5) working days before beginning excavation operations. Be sure to give them the address and location of the nearest cross street(s) near the planned excavation site.

Call 811 toll-free 24 hours a day. For more information, go to www.callbeforeyoudig.org

2. The Hawaii One Call Center will contact all utility companies to tone, mark, or identify the location of their underground utilities for free. Mark the area where you plan to excavate in White and label all of the other utilities as listed below.

RED	Electric power lines, cables, or conduits, and lighting cables.
YELLOW	Gas, oil steam, petroleum or other hazardous liquid or gaseous materials.
ORANGE	Communications, cable TV, alarm or signal lines, cables, or conduits.
BLUE	Water, irrigation, and slurry lines.
GREEN	Sewers, storm sewer facilities or other drain lines.
WHITE	Proposed excavation.
PINK	Temporary survey markings.
PURPLE	Reclaimed water, irrigation and slurry lines.

LEGEND

	Reconstruction Areas		Existing 1" Gas Line
	Resurfacing Limits		Existing 2" Gas Line
	Existing Electrical Line		Existing 10" Gas Line
	Existing Power Pole		Existing 6" Gas Line
	Existing High Voltage Power Pole		Existing Two 10" Gas Lines
	Existing Guy Wire		Existing 10" Fuel Line
	Existing Electric Manhole		Existing Gas Valve Box
	Existing Electric Pullbox		Existing Gas Manhole
	Existing Cable Line		Existing Monument
	Existing 3/4" Water Line		Existing 8" Drain Line
	Existing 1 1/2" Water Line		Existing 2" Drain Line
	Existing 2" Water Line		New 12" RCP Drain Line
	Existing 6" Water Line		Existing Storm Drain Manhole
	Existing 8" Water Line		Existing Grated Drop Inlet
	Existing 12" Water Line		Existing Catch Basin
	Existing 20" Water Line		Existing Traffic Sign
	Existing 36" Water Line		Existing Sign
	Existing 20" Navy Water Line		Existing Highway Lighting Standard
	Existing 24" Navy Water Line		Existing Highway Lighting Pullbox
	Existing 30" Navy Water Line		Existing Mail Box
	Existing 42" Navy Water Line		Existing Utility Pullbox
	Existing Water Manhole		Existing Hawaiian Telcom Line
	Adjusted Water MH Frame/Cover		Existing Hawaiian Telcom Pole
	Existing Water Valve Box		Existing Utility Manhole
	Adjusted Water Valve Box		Existing Chain Link Fence
	Existing Water Meter		New Chain Link Fence
	Existing Fire Hydrant		
	Existing 4" Sewer Line		
	Existing 6" Sewer Line		
	Existing 8" Sewer Line		
	Existing 18" Sewer Line		
	Existing 24" Sewer Line		
	Existing Sewer Manhole		
	Adjusted Sewer MH Frame/Cover		

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES AND LEGEND
COMMERCIAL DRIVER'S LICENSE AND
MOTORCYCLE LICENSE TESTING FACILITY
EXAMINATION SITE AND OFFICE RENOVATION
Beneath Interstate Route H-1 Pearl City Viaduct
Project No. HWY-0-08-14
Scale: N.T.S. Date: May 2016
SHEET No. 2 OF 3 SHEETS

CONSTRUCTION NOTES FOR WORK WITHIN CITY R/W

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-08-14	2016	ADD. 5	88

1. All applicable construction work shall be done in accordance with the Standard Specifications for Public Works Construction, September 1986 and Standard Details for Public Works Construction, September 1984, as amended, of the Department of Public Works, City and County of Honolulu and the Counties of Kauai, Maui, and Hawaii.
2. 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 locations and depths of the facilities and exercise proper care in excavating the area. Wherever 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.
3. No Contractor shall perform any construction operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow into existing City drainage systems, or adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make all remedial actions necessary.
4. The Contractor shall be responsible for conformance with applicable provisions of the Hawaii Administrative Rules, Title 11, Chapter 54, "Water Quality Standards," and Title 11, Chapter 55, "Water Pollution Control", as well as Chapter 14 of the Revised Ordinances of Honolulu, as amended. Best Management Practices shall be employed at all times during construction.

The Contractor shall obtain National Pollutant Discharge Elimination System (NPDES) Permit coverage(s) for the following:

1. Storm water discharges associated with construction activities that disturb one (1) acre or more, and
2. Discharges of hydrotesting effluent, dewatering effluent, and well drilling effluent to state waters.

In accordance with State law, all discharges related to project construction or operations are required to comply with State Water Quality Standards (Hawaii Administrative Rules, Chapter 11-54). Best Management Practices shall be used to minimize or prevent the discharge of sediment, debris, and other pollutants to State waters. Permit coverage is available from the Department of Health, Clean Water Branch at <http://health.hawaii.gov/cwb>. The Contractor is responsible for obtaining other Federal, State, or local authorizations as required by law.

5. The Contractor shall notify the Civil Engineering Branch, D.P.P. at 768-8084 to arrange for inspectional services and submit two (2) sets of approved Construction Plans seven (7) days prior to commencement of construction work.

6. The Contractor may submit a substitution request to precast any City owned and/or maintained drainage structure (ex., catch basins, drain manholes, drain inlets, culverts, etc). However, prior to construction and installation of any precast structure, the Contractor shall a) submit six (6) sets of shop drawings to the Civil Engineering Branch, Department of Planning and Permitting at 768-8084 to arrange for inspectional services. Non-compliance with any of these requirements shall mean immediate suspension of all precast construction work and rejection of all precast structures already constructed.

7. Confined Space

For entry by City personnel, including inspectors, into a permit required confined space as defined in 29 CFR Part 1910.146(b), the Contractor shall be responsible for providing:

- I. All safety equipment required by the confined space regulations applicable to all parties other than the construction industry, to include, but not limited to, the following:
- a. Full body harnesses for up to two personnel.
- b. Lifeline and associated clips.
- c. Ingress/egress and fall protection equipment.
- d. Two-way radios (walkie-talkies) if out of line-of-sight.
- e. Emergency (escape) respirator (10 minute duration).
- f. Cellular telephone to call for emergency assistance.
- g. Continuous gas detector (calibrated) to measure oxygen, hydrogen sulfide, carbon monoxide and flammables (capable of monitoring at a distance at least 20-feet away).
- h. Personal multi-gas detector to be carried by inspector.

II. Continuous forced air ventilation adequate to provide safe entry conditions.

III. One attendant/rescue personnel topside (two, if conditions warrant it).

8. Pursuant to Chapter 6E, HRS, in the event any artificats or human remains are uncovered during construction operations, the Contractor shall immediately suspend work and notify the Honolulu Police Department, the State Department of Land and Natural Resources - Historic Preservation Division (692-8015). In addition, the Contractor shall inform the Civil Engineering Branch, Department of Planning and Permitting (768-8084).

9. For projects abutting State Highways' rights-of way, the owner or his authorized representative shall notify the State Department of Transportation, Highways Division, Oahu District, Drainage Discharge Unit at 831-6793 for an assessment of State highways permit requirements.

10. For Bench Mark, see Plan Sheet No. 13.

1 EROSION CONTROL AND BEST MANAGEMENT PRACTICES FOR WORK WITHIN CITY R/W:

1. Provide grass stabilization of all pervious disturbed areas within the City and County of Honolulu right of way. Follow the requirements of HAR 11-55 for deadlines to initiate and complete stabilization. Grassing of these areas shall not be paid for separately, but shall be considered incidental to the contract items.
2. There shall be no stockpiling of materials on impervious surfaces within the City and County of Honolulu right of way.

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	
NO.	

1 APPROVED:

for Melvin Intehus 6/3/16
CHIEF, CIVIL ENGINEERING BRANCH, DPP Date
(For work within City R/W only)

1 5/19/16 Added Notes for Erosion Control and Best Management Practices for work within City R/W.

DATE REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION GENERAL NOTES & LEGEND COMMERCIAL DRIVER'S LICENSE AND MOTORCYCLE LICENSE TESTING FACILITY EXAMINATION SITE AND OFFICE RENOVATION Beneath Interstate Route H-1 Pearl City Viaduct Project No. HWY-0-08-14 Scale: N.T.S. Date: May 2016
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SHEET No. 3 OF 3 SHEETS

ADD. 5