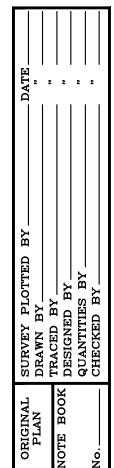
1.	The scope of work includes converting an un-signalized intersection into a fully signalized intersection, trench	10.	The Contractor si of Hawaii Occupo
	restoration for signal interconnects, the re-design of median, impact attenuator, and guardrail, as well as restoring pavement marking and striping.		citation (fine) red the Contractor si payment.
2.	The Contractor is reminded of the requirements of Subsection 105.16 – Subcontracts, which requires him to perform work amounting 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.	11.	This project may stops, and para- <u>prior to construc</u> notification of th proposed closure bus stop and du
, ,	The Contractor's attention is directed to the following Sections of the Standard Specifications and Special Provisions: Subsection 104.11 – Utilities and Services; Subsection 107.06 – Contractor Duty Regarding Public Convenience; Subsection 107.11 – Safety: Accident Prevention; Subsection 107.12 – Protection of Persons and Property; and Section 645 – Work Zone Traffic Control.	1 0	DTS-PTD: 768- Oahu Transit Se Bus Operation Field_Operatio Para-transit
1.	At the end of each day's work, the Contractor shall remove all equipment and other obstructions to permit free	12.	The Contractor si permits and Bes construction.
	and safe passage of public traffic.	13.	
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		10' of any overh prior acceptance excavation shall pole without prio
	during the course of work is possible. The Contractor shall be held liable for any damages incurred to the existing facilities and/or improvements as a result of his operations. The Contractor will immediately report to the Engineer and utility companies damage discovered or caused by his work to any utilities. All damaged portions shall be replaced or repaired in accordance with the standards and specifications of the affected utility company	14.	The Contractor is Contractors work companies (or the Company, Hawaii Board of Water S within the project Coordination Betw
	at the Contractor's expense.	15.	The Contractor si Contractors in th
D.	The existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to		among contractor Engineer will mak
	maintain flow. This work shall be considered incidental to various contract items.	16.	Smooth riding co of the project, in
7.	The Contractor shall provide for free and safe access to and from all existing side streets at all times.		connecting appro trench repairs as by the Engineer.
3.	All saw cutting work shall be considered incidental to structural excavation or roadway excavation.		a 12-foot straig mentioned. It sho lower edge of a by the Engineer
9.	Where pedestrian walkways exist, they shall be maintained in a safe and passable ADA compliant condition, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be provided	17.	All necessary per at his own cost.
	at all times. The Contractor shall maintain at least one paved shoulder free and clear of debris for pedestrian and bicycle traffic at the end of each work day. The Contractor shall provide for access to and from all existing driveways at all times. The Contractor shall coordinate with the Homeowner if driveway closure is required.	18.	The Contractor si BENCHMARKS (Su a Survey Monume the edge of cons Licensed Land Su



- shall comply with the directives of the State pational Safety And Health Law (HIOSH). Any received by the State for noncompliance by shall be deducted from the progress
- ay affect bus operations, bus routes, bus a-transit operations. <u>At least two (2) weeks</u> a<u>uction</u>, the Contractor shall provide the scope of work, location, detour, are of any street, traffic lane, sidewalk, or duration of project to:
- 8–8396 <u>and</u> TheBusStop@honolulu.gov Services: ions: 848–4571 <u>and</u> 848–4565 <u>and</u> tion_Mgr@thebus.org t Operations: 454–5006 <u>and</u> 454–5083
- shall follow the requirements of various est Management Practices (BMP) during the
- uipment shall be located or take place within rhead wires or any HECO utility pole without ce from the Engineer and HECO. No Il take place within 5' of any HECO utility rior acceptance from the Engineer and HECO.
- is advised that in addition to other rking in the same areas, various utility their contractors) including Hawaiian Electric aiian Telcom, Spectrum, Hawaii Gas, and the Supply (BWS) may be performing work ect area. Comply with Subsection 105.09 etween the Contractors.
- shall coordinate all work with other the areas. In case of unreasonable conflict tors regarding access or work sites, the make the final determination of priorities.
- connections shall be constructed at all limits including the beginning and end of project, proaches, side streets, driveways and all as shown on the plans and/or as directed or. Test in the presence of the Engineer with hight edge all pavement surface areas shall not vary more than 1/8 inch from the a straightedge. Driveways may be excluded or and another method used.
- permits shall be obtained by the Contractor st.
- shall exercise extreme caution to preserve Survey Monuments). Whenever the center of ment is less than three (3) feet away from Instruction, the Contractor shall retain a Surveyor to reference the location of said ent.

- 19. Benchmarks that are disturbed or destroyed shall be restored under a licensed Land Surveyor's direction. Cop of field notes, descriptions and new values of the replace Benchmark shall be sent to the Department of Transportation, highways Division, Cadastral Engineering Section, for review and approval before before commencement of construction.
- 20. The Contractor is reminded to call the Hawaii One Call Center at (866) 423–7287 prior to starting any excavat work.
- 21. The Contractor shall indemnify and be solely responsible the protection of adjacent properties, utilities, curbs, sidewalks, and existing structures from damage due to construction. Repairing any damage shall be at the Contractor's own expense, to the satisfaction of the Engineer.
- 22. The Contractor shall observe and comply with the administrative rules of The Department of Health regarding noise control of Oahu.
- 23. No section of incomplete guardrail, footing and/or excavation shall be left unshielded at the end of each w day. Intermediate concrete barriers and crash cushion en treatments used for shielding shall meet current SOH DO standards and guidelines along with manufacturer's specifications. All shielding used during construction shall be considered incidental to various guardrail items. A minimum of five concrete barriers shall be used before and beyond the work zone.
- 24. All work specified in the Contract but not listed separat in the proposal schedule shall be considered incidental is the various contract items and shall not be paid for separately.

HAWAII ONE CALL CENTER:

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

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 Contractor plans 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.

			FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
			HAWAII	HAW.	72C-01-19	2019	3	48
opies aced		BLUE GREEN WHITE PINK PURPLE	Sewe drain Prop Temp	ers, stor lines osed ex porary s aimed v	ntion, and slurry rm sewer facilit excavation. Survey markings. water, irrigation	ies or c		
ation	P	OUBLIC			SAFETY, Al	VD_		
e for <u>CONVENIENCE NOTES:</u> 1. The Contractor shall observe and comply with all State, and Local laws required for the protection health and safety and environmental quality.								
ding	2. The Contractor, at his own expense, shall keep the project and its 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 supplementary measures as necessary.							
work end DOT all	3. No Contractor shall perform any trenching operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow onto adjoining properties, streets or natural water-courses. Should such violations occur, the cost incurred shall be borne by the Contractor. For any remedial action by the Director, HDOT shall be payable by the Contractor.							
ately to	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, convenience, and safety of the public. The Contractor shall apply for a construction permit with a noise pollution control plan if work should			sary of on				

CHANGES TO DESIGN CRITERIA FOR BRIDGES AND STRUCTURES:

extend beyond permitted working hours.

1. The Contractor shall use the Bridge Design Criteria dated 8-8-2014 as modififed by Changes to Design Criteria for Bridges and Structures dated 1-8-2018 (HWY-DB 2.5098).

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CAN IN WONC	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
* PROFESSIONAL ENGINEER NO. 14352-C *	<u>GENERAL NOTES</u>
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>KALANIANAOLE HIGHWAY</u> <u>TRAFFIC SIGNAL INSTALLATION AT WAA ST.</u> <u>Project No. 72C–01–19</u>
4/30/20 SIGNATURE EXPIRATION DATE	Date: November 2019
OF LICENSE	SHEET No. 1 OF 3 SHEETS
	3

AF	RCHAEOLOGICAL NOTES:		
1.	In the event that an archaeological or historic structure within the work area is inadvertently damaged during construction, cease work in the vicinity of the site and notify the Engineer and the State Historic Preservation Division (SHPD) of the Department of Land and Natural Resources of the damage. SHPD will determine the appropriate mitigation measures.	4.	The existence and structures as shown available data, but accuracy or the en course of the work and pay for all dan Contractor shall no shown, that none e
2.	In the event that a previously unknown archaeological feature is exposed by construction, cease work in the vicinity of the new feature and notify the Engineer and SHPD of the new discovery.	5.	The Contractor sha all waterlines during especially careful w and bends whereve
3.	In the event that previously unknown human remains are exposed by construction, cease all work in the area of the remains, and protect the area with an appropriate material. Notify the Engineer and SHPD at 692–8015.		movement due to beyond the existing take whatever mea waterlines, such as (with BWS approval)
4.	If human remains are discovered, HAR Title 13, Subtitle 13, Chapter 300 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the State Historic Preservation Division and the Police Department will be contacted. The	6.	method. Re-approval shall construction within
	appropriate process would then proceed in conformance with HAR 13–300 Subchapter 4, "Procedures for Proper	7.	Prior to any excav field, the location
5.	Treatment of Burial Sites and Human Skeletal Remains." If any lava tube or coral cavern is uncovered during earthwork operations, the Contractor shall cease all ground work in the area and immediately notify the Archaeological	8.	Any adjustments to during construction Standards, whether done by the Contr
	Monitor and the Engineer. With or without the help of the Archaeological Monitor, the Engineer will assess the situation. If the Engineer has any doubts as to the extent and/or significance of the discovery, the Engineer will contact the appropriate regulatory agency (e.g., State	9.	At the electrical/c adjust all electrica maintain 12" vertic no cost to the Bc
B	Historic Preservation Division). POARD OF WATER SUPPLY NOTES:	10.	Maintain 3'–0" min all waterlines, and ductlines paralleling
1.	Unless otherwise specified, all materials and construction of water system facilities and appurtenances shall be in		Board of Water Su
	accordance with the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, dated 1994, as amended, of the Hawaii Highways Division, Department of Transportation, and the City and County of Honolulu Board of Water Supply's "WATER SYSTEM STANDARD", DATED 2002, THE "WATER SYSTEM EXTERNAL CORROSION CONTROL STANDARDS", VOLUME 3, DATED 1991, and all subsequent amendments	//.	Maintain 3'-0" min electrical/cable/sig modular units) and appurtenance. Co conflicts at each location. Where c coordinate with the
2.	and additions. All plans approved by the Board of Water Supply are based solely on the adequacy of the water supply.		electrical/cable/sig required clearance
3.	The Contractor shall notify BWS Capital Projects Division, Construction Section in writing one week prior to commencing work on the water system.		
			APPROVED BY:

ATE "

В

ORIGINAL SURVEY PLOTTED I PLAN DRAWN BY ________ NOTE BOOK DESIGNED BY ________ QUANTITIES BY ________ CHECKED BY _______

MANAGER AND CHIEF ENGINEER, BWS R/W AND BWS EASEMENTS ONLY)

location of underground utilities and vn on the plans are from the latest are not guaranteed as to their ncountering of other obstacles during the k. The Contractor shall be responsible amages to existing utilities. The ot assume that where no utilities are exist.

all be responsible for the protection of ng construction. The Contractor shall be when excavating behind waterlines, tees, er there is a possibility of waterline the removal of the supporting earth ng reaction blocks. The Contractor shall asures necessary to protect the constructing special reaction blocks al) an/or modifying his construction

be required if this project is not under a period of two (2) years.

vating, the Contractor shall verify in the of existing waterlines and appurtenances.

to the existing water system required n, to meet the requirements of the BWS er shown on the plans or not, shall be tractor at no cost to the Board.

cable/signal ductline water crossings, al/cable/signal ductline elevations to cal clear separation from all waterlines at Roard of Water Supply.

nimum horizontal clear separation between the nearest electical/cable/signal ng the water system at no cost to the Supply.

nimum horizontal clear separation between ignal appurtenances, (including any nd the nearest water line or water ontractor shall field verify for any electrical/cable/signal appurtenance conflicts occur, the Contractor shall he project engineer to revise the ignal appurtenance to provide the es at no cost to the BWS.

DATE

ABBREVIATIONS:

450	Above Finished Crade
AFG	Above Finished Grade
Ø	Base Line
BC	Bottom Curb
cb	Catch Basin
<u> </u>	Center Line
- CRM	Concrete Rubble Masonry
di	Drain Inlet
Dia.	Diameter
ep	Existing Edge of Pavement
Ep	Edge of Pavement
es	Existing Edge of Shoulder
ES	Edge of Shoulder
et	Existing Edge of Travel Way
ET	Edge of Travel Way
	Existing
Exist.	
Fc	Minimum Specified Compressive
	Strength of Concrete
HDOT	Hawaii Deportment of
	Transportation
HMA	Hot Mix Asphalt
KAL	Kalanianaole Highway Alignment
LF	Linear Feet
Lt.	Left
MBGR	Existing Metal Beam Guardrail
Max.	Maximum
MGS	Midwest Guardrail System
Min.	Minimum
No.	Number
NTS	Not to Scale
NWC	Normal Weight Concrete
0. <i>C</i> .	On Center
0/S, o/s	Offset
PC	Point of Curvature
PCF	Pounds per Cubic Foot
PT	Point of Tangency
P	Property Line
, R	Radius
RPM	Raised Pavement Marker
R/W, r/w	Right—of—way Bight
Rt.	Right
SF	Square Feet
Shts.	Sheets
SOH	State of Hawaii
Sta.	Station Tage Court
TC	Top Curb
Thk.	Thick
TMK	Tax Map Key
Тур.	Typical Unlose Noted Otherwise
UNO	Unless Noted Otherwise

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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<u>LEGEND</u>

° rm	Existing Reflector Marker
	Existing Light Pole
	Single White Line
syl	Single Yellow Line
====dy/====	Double Yellow Line
s/bar	Existing Stop Bar
byl	Existing Broken Yellow Line
• mon.	Existing Monument
þ	Existing Traffic Sign
r/w	Existing Right-of-Way Line
	Existing Fence

	12/18/19	Addressed BWS Review Comments
	DATE	REVISION
CHVIN WONC	DE	STATE OF HAWAII EPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
PROFESSIONAL ENGINEER * NO. 14352-C	<u>GENER</u> A	AL NOTES, LEGEND, & ABBREVIATIONS
HAWAIL U.S.P.		KALANIANAOLE HIGHWAY
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.	<u>TRAFFI</u>	<u>C SIGNAL INSTALLATION AT WAA ST.</u> <u>Project No. 72C–01–19</u>
4/30/20 SIGNATURE EXPIRATION DATE		Date: November 2019
SIGNATURE OF LICENSE	<u>د</u>	SHEET No. 3 OF 3 SHEETS
		ADD. 4