

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

ADDENDUM NO. 3

FOR

**MOANALUA FREEWAY
HIGHWAY LIGHTING IMPROVEMENTS
HALAWA HEIGHTS OFF-RAMP TO MIDDLE STREET OVERPASS
FEDERAL-AID PROJECT NO. NH-H201(005)**

**DISTRICT OF HONOLULU
ISLAND OF OAHU
FY 2017**

Amend the Bid Documents as follows:

A. SPECIAL PROVISIONS

Replace **Special Provisions, Section 622 – Roadway and Sign Lighting System and Intelligent Transportation System (ITS)**, pages **622-6a**, dated 7/18/2017, and **622-7a**, dated 9/13/2017, with attached page **622-6a** and **622-7a**, dated 9/25/2017.

B. PROPOSAL

Replace original **Proposal Schedule**, page **P-9**, dated 7/18/17, and **P-10** through **P-12**, dated 9/13/2017 with the attached **Proposal Schedule**, pages **P-9** through **P-12**, dated 9/27/17.

C. PLANS

Replace sheets **ADD. 119, ADD. 121, ADD. 126, 127 through 133, ADD. 134, ADD. 135, 136, ADD. 137, 138, ADD. 139, 160 through 164, 166, and ADD. 169** with attached **ADD. 119, ADD. 121, ADD. 126 through ADD. 139, ADD. 160 through ADD. 164, ADD. 166, and ADD. 169**.

The following is provided for information:

D. ATTACHMENTS - Additional Questions from Bidder with HDOT Responses

CLARIFICATION/REVISION/UPDATE TO HDOT RESPONSES DURING PRE-BID MEETING Pages 7 through 9 are being provided for information. These questions were submitted prior to September 13, 2017, but was not addressed in Addendum No. 1.

Please acknowledge receipt of this Addendum No. 3 by recording the date of its receipt in the space provided on Page P-4 of the Proposal.


FORD N. FUCHIGAMI
Director of Transportation

TABLE 622.03-1 – INSULATION RESISTANCE

Cable or Circuit	Minimum Resistance (ohms)
No. 14 – No.12 wire	1,000,000
25 to 50 amperes	250,000
51 to 100 amperes	100,000
101 to 200 amperes	50,000
201 to 400 amperes	25,000
401 to 800 amperes	12,000
Over 800 amperes	5,000

(4) Functional test to show that system functions as specified.

Replace or repair faults in material or installation revealed by these tests. Repeat same test until no fault appears.

(E) Restoring Pavements and Other Improvements. Restore to their original condition, existing pavements and other improvements, such as driveways, sidewalks, curbs, and gutters, disturbed by excavation. Use replacement material equal to or better in quality than existing materials. Match existing grades, thickness, texture, and color whenever applicable.

(F) Warranty. Provide new material and equipment for permanent construction.

Furnish copies of manufacturer's warranty or warranties guaranteeing equipment free from defects in materials, design, and manufacturing, for not less than 12 months from date of acceptance.

Adjust or repair material and equipment under warranty within 24 hours from time of notification.

Temporarily replace under-warranty material and equipment requiring factory corrections, within 24 hours from time of notification. Install factory-corrected or new material and equipment no later than 90 days from time of notification.

622.04 Measurement. Roadway and sign lighting system and ITS work will be paid on a lump sum basis. Measurement for payment will not apply.

The Engineer will measure Roadway Lighting System – HECO charge on a force account basis according to Subsection 109.06 – Force Account Provisions and Compensation and as ordered by the Engineer.

622.05 Payment. The Engineer will pay for the accepted roadway and sign lighting and ITS work on a contract lump sum basis. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for the accepted Roadway Lighting System – HECO charge on a force account basis according to Subsection 109.06 – Force Account Provisions and Compensation. Payment will be full compensation for the work prescribed in this Section, by the Engineers and Subsection 109.04 – Full Compensation, Changes.

The Engineer will pay for the following pay item when included in the proposal schedule:

Pay Item	Pay Unit
Roadway Lighting System_____	Lump Sum
Roadway Lighting System – HECO Charge	Lump Sum
Sign Lighting System_____	Lump Sum
ITS System_____	Lump Sum
Roadway Lighting/ITS System_____	Lump Sum

END OF SECTION 622

PROPOSAL SCHEDULE

ITEM #	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.0160	Concrete Bridge railing mounted light pole on Halawa Bridge	L.S.	L.S.	L.S.	\$ _____
503.0170	Concrete glare screen	L.S.	L.S.	L.S.	\$ _____
511.0100	Furnishing drilled shaft drilling equipment	L.S.	L.S.	L.S.	\$ _____
511.0200	Drilled shaft (24-inch diameter)	L.S.	L.S.	L.S.	\$ _____
511.0300	Unclassified shaft excavation	L.S.	L.S.	L.S.	\$ _____
511.0400	Formed top of drilled shaft pedestal	L.S.	L.S.	L.S.	\$ _____
616.0100	Relocate Existing Sprinkler System	F.A.	F.A.	F.A.	\$ 10,000.00
619.0100	Shrubs (Nerium Oleander, 2' height, 18" spread, 3 gallon)	L.S.	L.S.	L.S.	\$ _____
622.1110	Roadway Lighting System - Demolition of pole light assembly, including cutting of concrete light pole bases	L.S.	L.S.	L.S.	\$ _____
622.1120	Roadway Lighting System - Removal of handholes, exposed junction boxes and raceways	L.S.	L.S.	L.S.	\$ _____
622.1200	Roadway Lighting System - Luminaire and light pole mounted on top of median barrier	L.S.	L.S.	L.S.	\$ _____
622.1210	Roadway Lighting System - Twin luminaire and light pole mounted on top of median barrier	L.S.	L.S.	L.S.	\$ _____
622.1220	Roadway Lighting System - Luminaire and light pole mounted on grade	L.S.	L.S.	L.S.	\$ _____
622.1230	Roadway Lighting System - Twin luminaire and light pole mounted on grade	L.S.	L.S.	L.S.	\$ _____

PROPOSAL SCHEDULE

ITEM #	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
622.1240	Roadway Lighting System - Twin luminaire and light pole mounted at planter of median barrier	L.S.	L.S.	L.S.	\$ _____
622.1250	Roadway Lighting System - Luminaire and light pole mounted on retaining wall on grade	L.S.	L.S.	L.S.	\$ _____
622.1260	Roadway Lighting System - Luminaire and light pole mounted on bridge or retaining wall	L.S.	L.S.	L.S.	\$ _____
622.1280	Roadway Lighting System - Lights Under Overpass	L.S.	L.S.	L.S.	\$ _____
622.1310	Roadway Lighting System - 1-2"C at median parapet wall for street lights	L.S.	L.S.	L.S.	\$ _____
622.1320	Roadway Lighting System - 1-2"C at median planter for street lights. Trenching & backfill & conc jacket not included	L.S.	L.S.	L.S.	\$ _____
622.1330	Roadway Lighting System - 1-2"C ductline for street lights. Trenching & backfill & conc. Jacket not included	L.S.	L.S.	L.S.	\$ _____
622.1340	Roadway Lighting System - 1-2"C, PVC coated rigid conduit mounted on bridge for street lights	L.S.	L.S.	L.S.	\$ _____
622.1350	Roadway Lighting System - 3/4"C, PVC coated GRS for overpass lighting	L.S.	L.S.	L.S.	\$ _____
622.1360	Roadway Lighting System - 3#2, 1#6 G for street lighting	L.S.	L.S.	L.S.	\$ _____
622.1400	Roadway Lighting System - Electrical panel, lighting controls, cabinet & TVSS	L.S.	L.S.	L.S.	\$ _____
622.1410	Roadway Lighting System - Type A highway lighting pullbox	L.S.	L.S.	L.S.	\$ _____
622.1420	Roadway Lighting System - Junction box for street lighting mounted on bridge	L.S.	L.S.	L.S.	\$ _____
622.2000	Roadway Lighting System - HECO charge	F.A.	F.A.	F.A.	\$ 40,000.00

PROPOSAL SCHEDULE

ITEM #	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
622.3110	ITS System - 2-2"C Communication at median parapet wall for ITS	L.S.	L.S.	L.S.	\$ _____
622.3120	ITS System - 2-2"C Communication and 1-2"C Power at median planter. Trenching & backfill & conc. Jacket not included	L.S.	L.S.	L.S.	\$ _____
622.3130	ITS System - 2-2"C Communication and 1-2"C Power ductline. Trenching & backfill & conc. jacket not included	L.S.	L.S.	L.S.	\$ _____
622.3140	ITS System - 2-2"C Communication ductline. Trenching & backfill & conc. jacket not included	L.S.	L.S.	L.S.	\$ _____
622.3150	ITS System - 2-2"C Communication and 1-2"C Power, PVC coated rigid conduit mounted on bridge for ITS	L.S.	L.S.	L.S.	\$ _____
622.3210	ITS System - Type B communication system pullbox	L.S.	L.S.	L.S.	\$ _____
622.3220	ITS System - Junction box for ITS mounted on bridge	L.S.	L.S.	L.S.	\$ _____
622.3230	ITS System - Cutout with metal covers at median parapet wall for ITS	L.S.	L.S.	L.S.	\$ _____
622.4110	Roadway Lighting/ITS System Power - 2-2"C ductline for Roadway Lighting and ITS power. Trenching & backfill & conc. Jacket not included	L.S.	L.S.	L.S.	\$ _____
622.4120	Roadway Lighting/ITS System - Trenching, backfill & conc. jacket for Roadway Lighting and ITS	L.S.	L.S.	L.S.	\$ _____
631.7100	Construction Sign with Posts	L.S.	L.S.	L.S.	\$ _____
641.0100	Hydro-Mulch Seeding	L.S.	L.S.	L.S.	\$ _____
641.0200	Maintenance of Existing Landscape	F.A.	F.A.	F.A.	\$ 80,000.00
645.0100	Traffic control	L.S.	L.S.	L.S.	\$ _____

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PROPOSAL SCHEDULE

ITEM #	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
645.0200	Additional police officers, additional traffic control devices and advertisement	F.A.	F.A.	F.A.	\$ 325,000.00
648.0100	Field posted drawings	L.S.	L.S.	L.S.	\$ _____
652.0100	Horizontal Directional Drilling	L.S.	L.S.	L.S.	\$ _____
696.0100	Maintenance of trailers	F.A.	F.A.	F.A.	\$ 20,000.00
698.0100	Training	L.S.	L.S.	L.S.	\$ _____
699.0100	Mobilization (Not to exceed 6% of the sum of all items excluding the bid price of this item)	L.S.	L.S.	L.S.	\$ _____
a. Sum of All Items					\$ _____
b. Either Furnish Foreign Steel Not to Exceed Minimal Amount (Fill in '0') or Furnish Foreign Steel in Excess of Minimal Amount (Fill in 25% X a)					* \$ _____
c. Amount for Comparison of Bids (a+b)					* \$ _____
* All bidders must fill in b and complete c.					
NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.					

The following questions were submitted on September 8, 2017:

12. Reference: Proposal Schedule

Item 503.0130 is "Concrete Median barrier light pole foundation on Lakeside Separation Structure no. 1". However, in the plans it is not clear where this location is.

Questions:

- (a) Can you indicate where the Lakeside Separation Structure no. 1 is?

HDOT Response: Approximate location is at Sta 255+00.

- (b) Can you indicate which light poles (giving the number) are located in this location?

HDOT Response: Pole #36.

13. Reference: Proposal Schedule & Lightning Plan

Items 503.0110 and 503.0120 indicate that there are two types of median barriers: Type 4A and Type 4B, 4C & 4D. However, in the lightning plans there is no mention to these different types of median barrier.

Question:

Can you indicate in the plans which type (4A or 4B, 4C & 4D) is each of the sections of the median barrier?

HDOT Response: Note 12 on sheet E-3 (121) has been revised to reference the erosion control plans which provide the roadway elevations that can be used to determine if type A or types 4B, 4C, 4D barrier details apply.

14. Reference: Retaining Walls

Some Items (e.g. 205.0100, 205.0200, 503.0150) mention that work has to be performed in retaining walls. In the lightning plans construction notes & materials list (Sheet 121), note 16 makes reference to "Highway Lightning Standard Mounted on Retaining Walls", however, note 16 cannot be found anywhere in the lightning plans indicating a street light.

Questions:

- (a) Are there new street lights and conduits mounted in retaining walls within the project?

HDOT Response: Yes.

CLARIFICATION/REVISION/UPDATE TO HDOT RESPONSES DURING PRE-BID MEETING
 Moanalua Freeway, Highway Lighting Improvements, Halawa Heights Off-Ramp to Middle Street
 Overpass
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- (b) If there are, can you indicate in the plans which sections are retaining walls?
 HDOT Response: Note 16 has been added to the lighting plans.

15. Reference: Communication Conduits / Lightning Plans
 The Proposal Schedule reads:

622.0340	ITS System (2-2" C) at median parapet wall for ITS	L.S.	L.S.	L.S.	\$ _____
622.0360	ITS System (3-2" C) at median planter for ITS. Trenching & backfill & conc. Jacket not included	L.S.	L.S.	L.S.	\$ _____
622.0370	ITS System (3-2" C) ductline for ITS. Trenching & backfill & conc. jacket not included	L.S.	L.S.	L.S.	\$ _____
622.0380	ITS System (2-2" C) PVC coated rigid conduit mounted on bridge for ITS	L.S.	L.S.	L.S.	\$ _____

In sheet 121, there are two notes that make reference to communication conduits: Note 6 (2-2") and Note 19 (3-2"). Note 19 indication is not found anywhere in the lightning plans.

6 Communication Conduits 2-2".

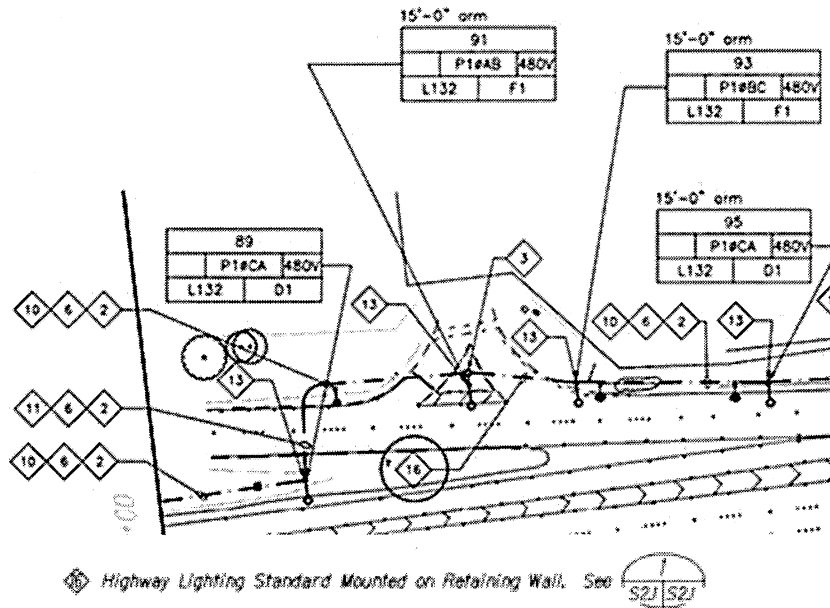
19 Communication Conduits 2-2" and Power Conduit 1-2" (3-2" Total).

Questions:

- (a) Are there any 3-2" communication conduits in the project?
 HDOT Response: No. The bid proposal has been revised to clarify.
- (b) If so, can you indicate in the plans where 3-2" communication conduits are located? n/a

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16. Reference: Lightning Plan (Sheet 134)



Questions:

- (a) Is the number 16 in the above plan a mistake?
 HDOT Response: Yes. Sheet E-16 (134) has been revised.
- (b) If so, is this section of conduit in microtunnel or under roadway (requiring trenching)?
 HDOT Response: Under roadway.