

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

**ADDENDUM NO. 4  
for  
FARRINGTON HIGHWAY,  
REPLACEMENT OF MAKAHA BRIDGE NO. 3 AND  
MAKHA BRIDGE NO. 3A**

**FEDERAL-AID PROJECT NO. BR-093-1(20)**

**December 9, 2020**

This Addendum shall make the following amendments to the Bid Documents:

**A. SPECIFICATIONS**

1. Replace TABLE OF CONTENTS dated r11/20/20 with the attached TABLE OF CONTENTS dated r12/09/20.
2. Replace Section 206 – EXCAVATION AND BACKFILL FOR DRAINAGE FACILITIES dated 9/18/20 with the attached Section 206 – EXCAVATION AND BACKFILL FOR DRAINAGE FACILITIES dated r12/09/20.
3. Replace Section 511 – DRILLED SHAFTS dated r11/20/20 with the attached Section 511 – DRILLED SHAFTS dated r12/09/20.
4. Replace Section 622 - ROADWAY AND SIGN LIGHTING SYSTEM dated r07/02/20 with the attached Section 622 - ROADWAY AND SIGN LIGHTING SYSTEM dated r12/09/20.
5. Replace Section 629 – PAVEMENT MARKINGS dated 08/13/20 with attached Section 629 – PAVEMENT MARKINGS dated r12/09/20.
6. Delete Section 635 – E-CONSTRUCTION dated r11/2/20. Add Section 636 – E-CONSTRUCTION dated r12/09/20.

**B. PROPOSAL**

1. Replace PROPOSAL SCHEDULE pages P-8 to P-24 dated r11/20/20 with the attached PROPOSAL SCHEDULE pages P-8 to P-25 dated r12/09/20.

**C. PLANS**

1. Replace Plan Sheet Nos. 25, 45, 46, 48 with the attached Plan Sheet Nos. ADD. 25, ADD. 45, ADD. 46, ADD. 48.

The following is provided for information:

**A. CONTRACTOR'S RFI**

The responses to Contractor's RFI are attached for your information.

Please acknowledge receipt of this Addendum No. 4 by recording the date of its receipt in the space provided on the page "Addendum Acknowledgement" page.



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JADE T. BUTAY  
Director of Transportation

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## SECTION 206 – EXCAVATION AND BACKFILL FOR DRAINAGE FACILITIES

Make the following amendments to said Section:

**(I)** Amend **206.04 – Measurement** by revising lines 142 to 143 to read as follows:

**“206.04 Measurement.** The Engineer will measure excavation per cubic yard in accordance with contract documents.

The Engineer will measure excavation for unsuitable material on a force account basis, in accordance with Subsection 109.06 – Force Account Provisions and compensation.”

(II) Amend **206.05 – Payment** by revising lines 145 to 163 to read as follows:

**“206.05 Payment.** The Engineer will pay for the accepted excavation per cubic yard. Payment will be full compensation for the work prescribed in this section and contract documents.

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

### Pay Item

### Pay Unit

[illegible]

Excavation for Unsuitable Material Force Account"

**END OF SECTION 206**

## SECTION 511 – DRILLED SHAFTS

Make the following amendments to said Section:

- (I) Amend **511.03(A)(1) Experience Record** by revising lines 53 to 62 to read as follows:

**(1) Experience Record.** Submit experience record demonstrating the drilled shaft contractor has successfully completed at least three projects in the last ten years, in which an oscillator casing system was used for drilled shafts of diameter and length similar to those shown in the contract documents. The drilled shaft contractor shall have on its payroll, supervisory personnel who have participated in drilled shaft construction, similar to the type proposed, for duration of at least three years within the last 10 years.

- (II) Amend **511.03(C)(2)(c) Casing Construction Method.** by revising lines 209 to 215 to read as follows:

**(c) Casing Construction Method.** Temporary casing that is used in the drilled shaft that is deeper than 20 feet shall be installed with an oscillator method of drilled shaft construction.

4

- (III) Amend **511.03(C)(12)(b)1.** by deleting lines 923 and 924 and replacing with the following:

“1. If the Engineer has reviewed the results of the CSL testing and determines that sufficient anomalies exist that warrant additional integrity testing of the shaft(s), a core sample shall be drilled in accordance with the requirements outlined in 511.03(C)(12)(b)2, 511.03(C)(13) and 511.03(C)(14).”

- (IV) Amend **511.04 – Measurement** by deleting lines 1009 through 1012 and replacing with the following:

“(K) The Engineer will not measure coring samples if they are required. If the Engineer determines that core samples are required based on the CSL test results, all costs associated with coring of the hole(s) and filling of the holes shall be paid for by the contractor at no cost to the State.”

- (V) Amend **511.04 – Measurement** by adding the following after line 1017:

“(M) The Engineer will pay for CSL Test of Drilled Shafts on a Lump Sum basis in accordance with contract documents. Measurement for payment will not apply.”



(N) The Engineer will measure Test Shafts per linear foot in accordance with contract documents.

4

(O) The Engineer will pay for Concrete Overpour for Drilled Shafts on a Force Account basis. The Engineer will measure for payment in accordance with Subsection 109.06 – Force Account Provisions and Compensation.”

(IV) Amend **511.05 – Payment** by revising lines 1019 to 1173 to read as follows:

**511.05 Payment.** The Engineer will pay for the accepted pay items listed below at the contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for each of the following pay items when included in the proposal schedule:

Pay Item	Pay
Unit	
Furnishing Drilled Shaft Drilling Equipment (_____)	Lump Sum

The Engineer will pay for:

(A) 60 percent of the contract bid price when drilling equipment is on job site, assembled, and ready to drill foundation shafts.

(B) 40 percent of the contract bid price upon completion of drilling shafts, and placing shaft concrete up to top of shafts.

Obstruction (_____)	Hour
---------------------	------

The Engineer will pay for:

(A) 80 percent of the contract bid price upon completion of removing the obstruction.

(B) 20 percent of the contract bid price upon removing and disposing of the obstruction.

The maximum payment per designated obstruction shall not exceed 20 times the unit cost for standard excavation or unclassified excavation whichever is less.

Load Test (\_\_\_\_\_) Each

The Engineer will pay for:

(A) 100 percent of the contract bid price upon completion of testing the load and other related costs to performance of load test.

Drilled Shaft (\_\_\_\_\_) Linear Foot

The Engineer will pay for:

(A) 60 percent of the contract bid price upon completion of drilling.

(B) 15 percent of the contract bid price upon completion of furnishing, assembling, and placing steel cage.

(C) 15 percent of the contract bid price upon completion of furnishing and placing concrete.

(D) 10 percent of the contract bid price upon completion of removing and disposing of excavated material.

Standard Excavation (\_\_\_\_\_) Linear Foot

The Engineer will pay for:

(A) 80 percent of the contract bid price upon completion of excavating for drilled shaft by using conventional tools include augers fitted with soil or rock teeth, drilling buckets, and overreaming (belling buckets) attached to drilling equipment.

(B) 20 percent of the contract bid price upon completion of removing and disposing of excavated material.

CSL Test on Drilled Shafts (\_\_\_\_\_) Lump Sum

The Engineer will pay for installation of CSL test conduits into shaft rebar cage, testing, and preparation of report describing the results of the testing and any recommendations to remediate any discrepancies in the shaft.

Test Shaft L.F.

The Engineer will pay for the construction of the test shafts, in place complete, as described and located in the contract plans.

4

139 Concrete Overpour for Drilled Shafts (Bridge \_\_\_\_)

Force Account

140

141 The Engineer will pay for the additional concrete required to fill the shaft  
142 excavation due to unforeseen voids in the substrate.”

143

144

145

**END OF SECTION 511**

146

1                   **SECTION 622 – ROADWAY AND SIGN LIGHTING SYSTEM**

2  
3       Make the following amendments to said Section:

4  
5       **(I)**     Amend Subsection **622.03(C) Installation**, by deleting paragraphs (1)  
6       Foundations and (2) Metal Lamp Standards in its entirety.

7  
8       **(II)**    Amend Subsection **622.03(C) Installation**, by deleting paragraph (5) Pull  
9       Boxes in its entirety.

10  
11       **(III)**   Amend Subsection **622.03(C) Installation**, by deleting paragraph (9) Pull  
12       boxes in its entirety.

13  
14       **(IV)**   Amend Subsection **622.04 Measurement** to read as follows:

15  
16       **“622.04   Measurement.**

17  
18               **(A)**    The Engineer will measure the remove roadway lighting luminaire  
19               and bracket arm and roadway lighting luminaire and bracket arm per each.

20  
21               **(B)**    Temporary roadway lighting system will be paid on a lump sump  
22               basis. Measurement for payment will not apply.

23       <sup>4</sup>

24               **(C)**    The Engineer will measure HECO charges for the temporary  
25               roadway lighting system on a force account basis according to Subsection  
26               109.06 - Force Account Provisions and Compensation and as ordered by  
27               the Engineer.”

28  
29       **(V)**    Amend Subsection **622.05 Payment** to read as follows:

30  
31       **“622.05   Payment.** The Engineer will pay for the accepted remove roadway  
32       lighting luminaire and bracket arm on a contract unit price per each. The price  
33       includes full compensation for coordinating with HECO; restoring pavements and  
34       appurtenances damaged or destroyed during construction, removing the existing  
35       roadway lighting luminaire and bracket arm on wood pole; salvaging existing  
36       materials, including transporting and delivering to the Engineer’s designated  
37       location; and furnishing labor, materials, equipment, tools, and incidentals  
38       necessary to complete the work.

39  
40               The Engineer will pay for the accepted roadway lighting luminaire and  
41       bracket arm on a contract unit price per each. The price includes full compensation  
42       for submitting the equipment list and drawing; furnishing and installing the roadway  
43       lighting luminaire and bracket; furnishing and installing networked lighting control  
44       nodes, street light tags and fused connectors; coordinating with HECO; restoring  
45       pavements and appurtenances damaged or destroyed during construction; making  
46       required tests; furnishing labor, materials, equipment, tools, and incidentals  
47       necessary to complete the work.

The Engineer will pay for the accepted temporary roadway lighting system on a contract lump sum basis. The price includes full compensation for furnishing and installing, modifying and removing the wood poles, luminaires, bracket arms and conductors; -, excavating and backfilling; restoring pavements damaged or destroyed during construction, salvaging existing materials, including transporting and delivering to the Engineer's designated location; making required tests; furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work.




The Engineer will pay for the accepted HECO charges for the temporary roadway lighting system, including HECO service connection charges and monthly HECO utility bills, on a force account basis according to Subsection 109.06 - Force Account Provisions and Compensation. An estimated amount for the force account is allocated in the proposal schedule under HECO Charges for Temporary Roadway Lighting System, but the actual amount to be paid will be actual amount quoted or billed by HECO, whether the amount be more or less than the estimated amount in the proposal schedule.

The Engineer will consider additional materials and labor, needed to complete the installation of the system and not shown in the contract included in the bid price of the various contract items.

The Engineer will pay for hauling and stockpiling of salvaged materials and equipment off the right-of-way as ordered by the Engineer in accordance with Subsection 104.02 – Changes.

The Engineer will pay for each of the pay items when included in the proposal schedule:

Pay Item	Pay Unit
Remove Roadway Lighting Luminaire and Bracket Arm	Each
Roadway Lighting Luminaire and Bracket Arm _____	Each
Temporary Roadway Lighting System	Lump Sum
 HECO Charges for Temporary Roadway Lighting System	Force Account"

END OF SECTION 622

## SECTION 629 - PAVEMENT MARKINGS

Make the following amendments to said Section:

(I) Amend **Subsection 629.03(B) – Temporary Pavement Markings** by revising the third paragraph from line 62 to 63 to read:

“Maintain and replace temporary pavement markings, flexible delineators, and barricades. ”

(II) Amend **Table 629.03 – 1 – Temporary Pavement Markings** to read as follows:

TABLE 629.03-1 TEMPORARY PAVEMENT MARKINGS	
TYPE	PAVEMENT MARKINGS
Passing Permitted - Both Sides	Single 4-inch yellow stripe 5 feet in length spaced 20 feet on center with Type D markers spaced 40 feet on center and located on center of 5-foot length of stripe.
Passing Prohibited - Both Sides	Double solid 4-inch yellow stripes with Type D markers placed 20 feet on center on one of 4-inch yellow stripes selected by the Engineer.
Passing Permitted - One Side Only	Single continuous 4-inch yellow stripe with Type D markers placed on stripe 20 feet on center on no-passing side and single 4-inch yellow stripes 5 feet in length spaced 20 feet on center on passing side.
Lane Lines - Lane Changing Permitted	Single 4-inch yellow or white stripe 5 feet in length spaced 20 feet on center with Type C or Type D markers spaced 40 feet on center.
Lane Lines - Lane Changing Prohibited	Double solid 4-inch white stripes with Type C markers placed 20 feet on center on one of the 4-inch white stripes selected by the Engineer.
Crosswalk	Two 12-inch white transverse lines spaced 8 feet on center or as ordered by the Engineer.
Stop Line	Single 12-inch white transverse line.
<b>Note:</b> Paint may be used for temporary markings in areas where final paving is not complete.”	

(III) Amend **629.04 – Measurement** by revising lines 292 to 294 to read as follows:

**“629.04 Measurement.**

(A) The Engineer will measure per linear foot in accordance with the contract documents. The longitudinal pavement markings and profiled thermoplastic striping will be measured per linear foot as a single stripe for the width specified in the contract and in the proposal. The Engineer will include the longitudinal gaps for skip striping, up to thirty (30) feet long, in the measurement.

The Engineer will not measure temporary pavement markings including flexible delineator posts with reflector markers or Type I Barricades and temporary signs installed for the longitudinal guidance of public traffic over reconstructed areas, cold planed surfaces, newly paved surfaces or other unmarked or scarified areas for payment.

The Engineer will measure the temporary pavement markings and temporary signs installed as ordered by the Engineer for special temporary traffic patterns to be paid from an allowance if the contract specifies payment in the proposal.

The Contractor shall consider the work required for the removal of pavement markings incidental to the various contract items, except as provided in the proposal or elsewhere in the contract. If the contract stipulates that the Engineer will make payment for the removal of pavement markings, the Engineer will measure the removal of pavement markings.

(B) The Engineer will measure the pavement markers per each for the types shown in the proposal.

(C) The Engineer will measure the painted stripes that are twelve (12) inches wide or less as a single stripe. The Engineer will measure the painted stripes over twelve (12) inches wide as two (2) stripes. The Engineer will measure the double stripes that are twelve (12) inches or less in total width including the transverse space between the stripes as a single stripe.

65 (IV) Amend **629.05 – Payment** by revising lines 296 to 330 to read as follows:

66  
67 **“629.05 Payment.**

68  
69 (A) The Engineer will pay for thermoplastic at the contract price per  
70 linear foot according to the contract, complete in place, including  
71 primers.

72  
73 The Engineer will pay for double four (4) inch striping with a four (4)  
74 inch space between stripes at the contract price per linear foot.

75  
76 The Engineer will pay for crosswalk markings at the contract price  
77 per lane of traffic marked according to the contract.

78  
79 The Engineer will pay for profiled thermoplastic striping at the contract  
80 price per linear foot.

81  
82  
83 The contract unit price paid shall be full compensation for furnishing  
84 labors, materials, tools, equipment and incidentals and for doing the  
85 work involved in furnishing and installing pavement markings complete  
86 in place according to the contract.

87  
88 The Engineer will not pay for the temporary pavement markings  
89 including flexible delineator posts with reflector markers or Type I  
90 Barricades and temporary signs installed for the longitudinal guidance  
91 of public traffic over reconstructed areas, cold planed surfaces, newly  
92 paved surfaces or other unmarked or scarified areas for payment if not  
93 shown in the proposal separately. The Engineer will consider them  
94 incidental to the various contract items.

95  
96 If the contract specifies payment for temporary pavement markings  
97 installed as ordered by the Engineer for special temporary traffic  
98 patterns, the Engineer will pay from an allowance for “Temporary  
99 Construction Zone Markings”.

100  
101 The Engineer will compute the actual amount paid to the Contractor  
102 for force account work according to Subsection 109.06 – Force  
103 Account Provisions and Compensation.

104  
105 If the contact specifies payment for removal of pavement markings  
106 under unit price pay items, the Engineer will pay for the accepted  
107 quantities at the contract unit prices bid. The prices shall be full  
108 compensation for removing such items according to the contract.




110 (B) The Engineer will pay for the various types of pavement markers at  
111 the contract price per each according to the contract, complete in  
112 place, including adhesives.

113  
114 (C) The Engineer will pay for painted pavement striping at the contract  
115 price per linear foot according to the contract.

116 The Engineer will pay for quantities of crosswalk marking at the  
117 contract price per lane of traffic marked according to the contract.

118  
119 The Engineer will pay for the following pay items when included in  
120 the proposal schedule:

121		
122	<b>Pay Item</b>	<b>Pay Unit</b>
123		
124	Pavement Striping (Paint)	Linear Foot
125		
126	4-Inch Pavement Striping Dbl. Yellow (Paint)	
127		Linear Foot
128		
129	_____ - Inch Pavement Striping _____ (Thermoplastic)	
130		Linear Foot
131		
132	Profiled Thermoplastic Striping	Linear Foot
133		
134	Crosswalk Marking (Thermoplastic)	Lane
135		
136	 Pavement Word (Paint)	Each
137		
138	Type _____ Pavement Marker	Each
139		

140  
141  
142  
143  
144  
145  
146

**END OF SECTION 629**

1 Make the following Section a part of the Standard Specifications:

2  
3 **“SECTION 636 – E-CONSTRUCTION**  
4

5  
6 **636.01 Description.** This section is for furnishing e-construction software for the  
7 Project.

8  
9 **636.02 General Requirements.** The Contractor shall:

10  
11 (A) Provide licenses for the E-Construction platform designated by HDOT.  
12

13 **636.03 Not used.**  
14

15 **636.04 Measurement.** The Engineer will measure the fee for the license(s)  
16 associated with the “E-Construction Program” on a force account basis in  
17 accordance with Subsection 109.06 – Force Account Provisions and Compensation.  
18

19 **636.05 Payment.** The Engineer will pay for the fee for the license for the E-  
20 construction Program on a force account basis in accordance with Subsection  
21 109.06 – Force Account Provisions and Compensation. Payment will be full  
22 compensation for the “E-Construction” licensing fee as prescribed in this section  
23 and contract documents. The actual amount to be paid will be the sum shown on  
24 the accepted force account records whether this sum be more or less than the  
25 estimated amount allocated in the proposal schedule.”  
26

27 <b>Pay Item</b>	28 <b>Pay Unit</b>
29 E-Construction license	30 Force Account

31  
32  
33  
34 **END SECTION**  
35  
36

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.0110	Clearing and Grubbing	2.8	AC	\$ _____	\$ _____
202.0100	Removal of Trees	16	EA	\$ _____	\$ _____
202.0102	Removal of Existing Metal Guardrails (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
202.0103	Removal of Existing Metal Guardrails (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
202.0104	Removal of Concrete Channel Liner (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
202.0105	Removal of Bypass Road (Including AC Pavement, Base Course, and Embankment Material)	4,600	S.Y.	\$ _____	\$ _____
202.0106	Removal of Temporary By-pass Road Bridge and Abutments (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
202.0201	Removal of 18 Inch Drain Pipe	L.S.	LS	LS	\$ _____
202.0202	Removal of Temporary 24-Inch Drain Pipe	L.S.	L.S.	L.S.	\$ _____
202.0203	Removal of Temporary Storm Drain Manhole (Type B)	L.S.	L.S.	L.S.	\$ _____
202.0204	Removal of Steel Sheet Piles, Walers and Tie Rods	L.S.	L.S.	L.S.	\$ _____
202.0205	Removal of Temporary 8-Inch Water line	540	L.F.	\$ _____	\$ _____
202.0206	Removal of Regulatory, Warning and Miscellaneous Signs and Posts	5	EA	\$ _____	\$ _____
202.0207	Removal of 6-60 Inch Temporary Culverts	L.S.	L.S.	L.S.	\$ _____
202.0208	Removal of Portable Barrier and Construction End Treatment	L.S.	L.S.	L.S.	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
202.0209	Removal of Interim Pavement Striping and Markers, and Signs	L.S.	L.S.	L.S.	\$ _____
202.0210	Removal of 12-Inch Water line	275	L.F.	\$ _____	\$ _____
202.0211	Removal of 8-Inch Water line	85	L.F.	\$ _____	\$ _____
202.0212	Removal of 6-Inch Water line	35	L.F.	\$ _____	\$ _____
202.0420	Removal of Rock Wall and Sliding Gate	L.S.	L.S.	L.S.	\$ _____
202.0430	Removal of AC Driveway	57	S.Y.	\$ _____	\$ _____
202.0431	Removal of AC Pavement	2,800	S.Y.	\$ _____	\$ _____
202.0440	Removal of Riprap	L.S.	L.S.	L.S.	\$ _____
202.0441	Removal of 12-Inch Drain Pipe	L.S.	L.S.	L.S.	\$ _____
202.0442	Removal of Railroad Piers and Abutments	L.S.	L.S.	L.S.	\$ _____
202.0443	Removal of Bus Shelter and Concrete Pad	L.S.	L.S.	L.S.	\$ _____
202.0445	Removal of Striping and Markers	L.S.	L.S.	L.S.	\$ _____
202.0446	Removal of Kennel	L.S.	L.S.	L.S.	\$ _____
202.1070	Removal of Existing Timber Bridge Deck, Piers, Pier and Abutment Foundations, and Railings (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
202.1080	Removal of Existing Timber Bridge Deck, Piers, Pier and Abutment Foundations, and Railings (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
203.0100	Roadway Excavation	2,790	C.Y.	\$ _____	\$ _____
204.0100	Trench Excavation for 8" Water line	120	C.Y.	\$ _____	\$ _____
204.0110	Trench Backfill for 8" Water line	L.S.	L.S.	L.S.	\$ _____
204.0200	Trench Excavation for 12-Inch Water line	75	C.Y.	\$ _____	\$ _____
204.0210	Trench Backfill for 12" Water line	L.S.	L.S.	L.S.	\$ _____
205.6100	Structure Excavation for By-pass Road Abutments (Within Footprint of Abutment Footings Only)	L.S.	L.S.	L.S.	\$ _____
205.6200	Structure Excavation for Abutments and Pile Caps (within footprint of abutment footings only) Bridge 3	L.S.	L.S.	L.S.	\$ _____
205.6210	Structure Excavation for Abutments and Pile Caps (within footprint of abutment footings only) Bridge 3A	L.S.	L.S.	L.S.	\$ _____
205.6220	Structure Excavation for Endwalls and Footings (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.6230	Structure Excavation for Endwalls and Footings (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
205.6240	Structure Excavation for 10 Ft. Wide Overexcavation Along Abutments (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.6250	Structure Excavation for 10 Ft. Wide Overexcavation Along Abutments (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
205.6300	Structure Excavation for Pier Pile Cap (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.6400	Structure Excavation for Approach Slabs (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.6410	Structure Excavation for Approach Slabs (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
205.7200	Structure Backfill for By-Pass Road	L.S.	L.S.	L.S.	\$ _____
205.7210	Structure Backfill for By-Pass Abutments	L.S.	L.S.	L.S.	\$ _____
205.7215	Structure Backfill for Abutments and Endwalls (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.7220	Structure Backfill for Abutments and Endwalls (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
205.7230	Structure Backfill for Pier (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.8000	Filter Material (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.8100	Filter Material (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
205.8200	Filter Material (Grouted Rubble Paving, Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.8210	Filter Material (Grouted Rubble Paving, Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
205.8220	Filter Material (Dumped Riprap, Bridge 3)	L.S.	L.S.	L.S.	\$ _____
205.8230	Filter Material (Dumped Riprap, Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
206.0210	Excavation for 24-Inch Drain Pipe	172	C.Y.	\$ _____	\$ _____
206.2020	Excavation for Drainage Structures	L.S.	L.S.	L.S.	\$ _____
206.2025	Excavation for Unsuitable Material	F.A.	F.A.	F.A.	\$ 10,000.00
207.0100	Ditch and Channel Excavation (Bridge 3)	2,500	C.Y.	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
207.0200	Ditch and Channel Excavation (Bridge 3A)	2,100	C.Y.	\$ _____	\$ _____
209.0110	Installation, Maintenance, Monitoring, and Removal of BMP	L.S.	L.S.	L.S.	\$ _____
209.1100	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	\$ 150,000.00
301.0100	Hot Mix Asphalt Base Course	1,790	TON	\$ _____	\$ _____
304.1000	Aggregate Base	1,047	C.Y.	\$ _____	\$ _____
304.1100	Aggregate Base (for Approach Slabs, Bridge 3)	50	C.Y.	\$ _____	\$ _____
304.1200	Aggregate Base (for Approach Slabs, Bridge 3A)	50	C.Y.	\$ _____	\$ _____
304.1300	Aggregate Base (4" thick PCC Pavement)	93	CY	\$ _____	\$ _____
304.1400	Aggregate Base (Concrete Sidewalk)	9	CY	\$ _____	\$ _____
304.1500	Aggregate Base (By-pass Road)	625	CY	\$ _____	\$ _____
304.1600	Aggregate Base (for Channel Slab, Bridge No. 3)	70	CY	\$ _____	\$ _____
305.1110	Aggregate Subbase	1,047	C.Y.	\$ _____	\$ _____
306.0100	Untreated Permeable Base Course	L.S.	L.S.	L.S.	\$ _____
401.0400	HMA Pavement, Mix No. IV	1,345	TON	\$ _____	\$ _____
401.0410	HMA Pavement, Mix No. IV (Access Road and Driveway)	105	TON	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
411.1115	11-Inch Concrete Pavement	28	C.Y.	\$ _____	\$ _____
411.2201	4-Inch Concrete Pavement	185	C.Y.	\$ _____	\$ _____
415.0110	Cold Planing	600	S.Y.	\$ _____	\$ _____
501.0200	Stainless Steel Supports for 12-Inch Waterline (Bridge No. 3)	L.S.	L.S.	L.S.	\$ _____
501.0210	Stainless Steel Supports for 12-Inch Waterline (Bridge No. 3A)	L.S.	L.S.	L.S.	\$ _____
501.0213	Structural Steel - Double Channel Walers, Installed (Bridge 3)	11,700	POUND	\$ _____	\$ _____
501.0214	Structural Steel - Tie Rods and Hardware, Installed By-Pass Road (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
501.0215	Structural Steel - HSS 4 x 4 Struts to be welded to walers	370	POUND	\$ _____	\$ _____
501.0216	Structural Steel - Tie Rods and Hardware for Endwalls, Installed (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
502.3100	Bus Shelter	L.S.	L.S.	L.S.	\$ _____
503.1080	Concrete in By-Pass Road Bridge Abutments and Wingwalls (Bridge 3A)	90	C.Y.	\$ _____	\$ _____
503.1081	Concrete in Bridge Abutment Stem Walls (Bridge 3)	88	C.Y.	\$ _____	\$ _____
503.1082	Concrete in Bridge Abutment Pile Caps (Bridge 3)	65	C.Y.	\$ _____	\$ _____
503.1083	Concrete in Bridge Abutment Stem Walls (Bridge 3A)	102	C.Y.	\$ _____	\$ _____
503.1084	Concrete in Bridge Abutment Pile Caps (Bridge 3A)	65	C.Y.	\$ _____	\$ _____



## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.1085	Concrete in Endwalls (Bridge 3)	34	C.Y.	\$ _____	\$ _____
503.1086	Concrete in Endwall Footings (Bridge 3)	24	C.Y.	\$ _____	\$ _____
503.1087	Concrete in Endwalls (Bridge 3A)	34	C.Y.	\$ _____	\$ _____
503.1088	Concrete in Endwall Footings (Bridge 3A)	24	C.Y.	\$ _____	\$ _____
503.1089	Concrete in Pier Cap (Bridge 3)	23	C.Y.	\$ _____	\$ _____
503.1090	Concrete in By-Pass Road In-Fill Walls (Bridge 3)	30	C.Y.	\$ _____	\$ _____
503.1091	Concrete in Pier Columns (Bridge 3)	10	C.Y.	\$ _____	\$ _____
503.1092	Concrete in Pier Pile Cap (Bridge 3)	33	C.Y.	\$ _____	\$ _____
503.1093	Concrete in Bridge Approach Slabs (Bridge 3)	104	C.Y.	\$ _____	\$ _____
503.1094	Concrete in Bridge Approach Slabs (Bridge 3A)	104	C.Y.	\$ _____	\$ _____
503.1095	Concrete in Deck Topping Slab and Edge Beams (Bridge 3)	108	C.Y.	\$ _____	\$ _____
503.1096	Concrete in Deck Topping Slab and Edge Beams (Bridge 3A)	82	C.Y.	\$ _____	\$ _____
503.1097	Concrete in Channel Slab (Bridge 3)	150	C.Y.	\$ _____	\$ _____
503.1098	Concrete in 8" dia. Waterline encasement, Incl. Reinforcing Steel	20	C.Y.	\$ _____	\$ _____
503.2050	Concrete in Reaction Blocks, Test Blocks, Jackets and Reaction Beams (Temporary 8-Inch Waterline)	4	C.Y.	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.2051	Concrete in Reaction Blocks, Test Blocks, Jackets and Reaction Beams	3	C.Y.	\$ _____	\$ _____
503.6010	Dog Kennel	L.S.	L.S.	L.S.	\$ _____
504.7400	Prestressed Concrete Plank, Interior, Qty. 14 (Bridge 3) ((14) 4'-10" Wide x 48'-6 1/2" Long)	680	L.F.	\$ _____	\$ _____
504.7410	Prestressed Concrete Plank, Exterior, Qty. 4 (Bridge 3) ((4) 4'-10" Wide x 48'-6 1/2" Long)	194	L.F.	\$ _____	\$ _____
504.7420	Prestressed Concrete Plank, Interior (Bridge 3A) ((7) 4'-10" Wide x 68'-6" Long)	480	L.F.	\$ _____	\$ _____
504.7430	Prestressed Concrete Plank, Exterior (Bridge 3A) ((2) 4'-10" Wide x 68'-6" Long)	137	L.F.	\$ _____	\$ _____
505.0500	Bridge 3 By-Pass Structural Steel H-Piles Driven	520	L.F.	\$ _____	\$ _____
505.0501	Bridge 3 Structural Steel H-piles, Piles Furnished	555	LF	\$ _____	\$ _____
505.0510	Bridge 3 By-Pass Structural Steel H-Piles Driven	270	L.F.	\$ _____	\$ _____
507.0100	Bridge 3 By-Pass Road Metal Pedestrian Bridge Railing	160	L.F.	\$ _____	\$ _____
507.5000	Bridge 3 Concrete Bridge Railing	209	L.F.	\$ _____	\$ _____
507.5100	Bridge 3A Concrete Bridge Railing	145	L.F.	\$ _____	\$ _____
507.7500	Bridge 3 Concrete End Posts	80	L.F.	\$ _____	\$ _____
507.7510	Bridge 3A Concrete End Posts	80	L.F.	\$ _____	\$ _____
508.0100	Cement Rubble Masonry (Wall)	L.S.	L.S.	L.S.	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
511.0100	Furnishing Drilled Shaft Drilling Equipment (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
511.0110	Furnishing Drilled Shaft Drilling Equipment (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
511.0200	Obstruction (in Drilled Shaft, Bridge 3)	75	HOUR	\$ _____	\$ _____
511.0210	Obstruction (in Drilled Shaft, Bridge 3A)	50	HOUR	\$ _____	\$ _____
511.0300	Load Test (Bridge 3)	1	EA	\$ _____	\$ _____
511.0310	Load Test (Bridge 3A)	1	EA	\$ _____	\$ _____
511.0320	CSL Test on Drilled Shafts (Bridge 3)	L.S.	L.S.	L.S.	\$ _____
511.0330	CSL Test on Drilled Shafts (Bridge 3A)	L.S.	L.S.	L.S.	\$ _____
511.0400	Test Shaft	190	L.F.	\$ _____	\$ _____
511.0500	Drilled Shaft (36-Inch Diameter, Bridge 3)	2,000	L.F.	\$ _____	\$ _____
511.0510	Drilled Shaft (36-Inch Diameter, Bridge 3A)	1,600	L.F.	\$ _____	\$ _____
511.0600	Standard Excavation (for Drilled Shaft, Bridge 3)	1,761	L.F.	\$ _____	\$ _____
511.0610	Standard Excavation (for Drilled Shaft, Bridge 3A)	1,400	L.F.	\$ _____	\$ _____
511.0700	Concrete Overpour for Drilled Shafts (Bridge 3)	F.A.	F.A.	F.A.	\$58,000.00
511.0710	Concrete Overpour for Drilled Shafts (Bridge 3A)	F.A.	F.A.	F.A.	\$51,000.00

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
512.0100	Prefabricated Steel Truss Bridge Rental (Bridge 3A)	1	YEAR	\$ _____	\$ _____
512.0200	Installing Prefabricated Steel Truss Bridge (Bridge 3A)	1	EA	\$ _____	\$ _____
512.0300	Maintenance Prefabricated Steel Truss Bridge Rental (Bridge 3A)	12	MONTH	\$ _____	\$ _____
602.0101	Reinforcing Steel for Abutment Stem Walls (Bridge 3)	17,600	POUND	\$ _____	\$ _____
602.0102	Reinforcing Steel for Abutment Stem Walls (Bridge 3A)	20,400	POUND	\$ _____	\$ _____
602.0103	Reinforcing Steel for Abutment Pile Caps (Bridge 3)	13,700	POUND	\$ _____	\$ _____
602.0104	Reinforcing Steel for Abutment Pile Caps (Bridge 3A)	13,700	POUND	\$ _____	\$ _____
602.0105	Reinforcing Steel for Endwalls (Bridge 3)	5,950	POUND	\$ _____	\$ _____
602.0106	Reinforcing Steel for Endwalls (Bridge 3A)	5,950	POUND	\$ _____	\$ _____
602.0107	Reinforcing Steel for Endwall Footings (Bridge 3)	5,040	POUND	\$ _____	\$ _____
602.0108	Reinforcing Steel for Endwall Footings (Bridge 3A)	5,040	POUND	\$ _____	\$ _____
602.0109	Reinforcing Steel for Pier Cap (Bridge 3)	5,750	POUND	\$ _____	\$ _____
602.0110	Reinforcing Steel for Pier Columns (Bridge 3)	3,000	POUND	\$ _____	\$ _____
602.0111	Reinforcing Steel for Pier Pile Cap (Bridge 3)	8,250	POUND	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
602.0112	Reinforcing Steel for Approach Slabs (Bridge 3)	20,800	POUND	\$ _____	\$ _____
602.0113	Reinforcing Steel for Approach Slabs (Bridge 3A)	20,800	POUND	\$ _____	\$ _____
602.0114	Reinforcing Steel for Deck Topping Slab and Edge Beams (Bridge 3)	35,700	POUND	\$ _____	\$ _____
602.0115	Reinforcing Steel for Deck Topping Slab and Edge Beams (Bridge 3A)	29,190	POUND	\$ _____	\$ _____
602.0116	Reinforcing Steel for Channel Liner (Bridge 3)	22,500	POUND	\$ _____	\$ _____
602.0117	Reinforcing Steel for Concrete Railing and End Posts that Extend Into Deck Slabs or Beams (Bridge 3)	500	POUND	\$ _____	\$ _____
602.0118	Reinforcing Steel for Concrete Railing and End Posts that Extend Into Deck Slabs or Beams (Bridge 3A)	450	POUND	\$ _____	\$ _____
602.0119	Reinforcing Steel for Drilled Shafts (Bridge 3)	135,000	POUND	\$ _____	\$ _____
602.0125	Reinforcing Steel for Drilled Shafts (Bridge 3A)	115,000	POUND	\$ _____	\$ _____
602.0130	Reinforcing Steel for By-Pass Road In-Fill Walls	5,000	POUND	\$ _____	\$ _____
602.0140	Reinforcing Steel for By-Pass Road Bridge Abutments	18,000	POUND	\$ _____	\$ _____
603.0010	Bed Course Material For Drainage Pipe	21	C.Y.	\$ _____	\$ _____
603.1010	24-Inch Reinforced Concrete Pipe, Class III	254	L.F.	\$ _____	\$ _____
603.1060	60-Inch Reinforced Concrete Pipe , Class IV	228	L.F.	\$ _____	\$ _____
604.0370	Type B Manholes, 5 feet to 5.99 feet	1	EA	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
604.0371	Type 61614P Grated Drop Inlet, 4.00 feet to 4.99 feet	1	EA	\$ _____	\$ _____
604.0372	Type 61614P Grated Drop Inlet, 5.00 feet to 5.99 feet	1	EA	\$ _____	\$ _____
605.0006	6-Inch Underdrain	1,810	L.F.	\$ _____	\$ _____
605.1000	Type A Underdrain Outlet	10	EA	\$ _____	\$ _____
605.2000	Cleanout	28	EA	\$ _____	\$ _____
606.0100	Guardrail Thrie Beam Transition (Bridge 3)	100	L.F.	\$ _____	\$ _____
606.0110	Guardrail Thrie Beam Transition (Bridge 3A)	100	L.F.	\$ _____	\$ _____
606.3000	Guardrail Portable Barriers	970	LF	\$ _____	\$ _____
606.3100	Guardrail Midwest Guardrail System	720	L.F.	\$ _____	\$ _____
607.0060	6-Feet, Chain Link Fence (w/Top Rail and Fence Post)	30	L.F.	\$ _____	\$ _____
607.0061	6-Feet, Chain Link Fence (w/vinyl lattice, Top Rail and Fence Post)	60	L.F.	\$ _____	\$ _____
607.0062	6-Feet, Vinyl Fence w/5x5 Line, Corner and End Post	220	L.F.	\$ _____	\$ _____
607.0100	6-Feet, Chain Link Fence (at Approches to Temporary By-pass Road Bridge)	150	L.F.	\$ _____	\$ _____
607.0110	6-Feet, Chain Link Fence (along By-pass Raod Road, Bridge 3)	324	LF	\$ _____	\$ _____
607.0200	Dual Galvanized Rolling Vehicle Entry Chain Link Gate	1	EA	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
610.1000	(6-Inch) Reinforced Concrete Driveway	L.S.	L.S.	L.S.	\$ _____
612.0100	Grouted Rubble Paving (Bridge 3)	325	C.Y.	\$ _____	\$ _____
612.0200	Grouted Rubble Paving (Bridge 3A)	40	C.Y.	\$ _____	\$ _____
614.0100	Street Survey Monuments	2	EA	\$ _____	\$ _____
622.1000	Roadway Lighting Luminaire and Bracket Arm On Wood Pole, 98W LED	6	EA	\$ _____	\$ _____
622.1001	Remove Roadway Lighting Luminaire and Bracket Arm	6	EA	\$ _____	\$ _____
622.8000	Temporary Roadway Lighting System	L.S.	L.S.	L.S.	\$ _____
622.8100	HECO Charges for Temporary Roadway Lighting Systems	FA	FA	FA	\$ 2,000.00
624.0100	Water Systems (Temporary-Bypass Road)	L.S.	L.S.	L.S.	\$ _____
624.9000	Water Systems (Farrington Highway)	L.S.	L.S.	L.S.	\$ _____
625.1100	Sewer Systems	L.S.	L.S.	L.S.	\$ _____
626.1000	Sewer Manhole, 5 feet to 5.99 feet	1	EA	\$ _____	\$ _____
626.1100	Adjusting (Water) Standard Valve Box	8	EA	\$ _____	\$ _____
626.2000	(Water) Standard Valve Box	4	EA	\$ _____	\$ _____
629.1000	Pavement Striping (Paint)	4,950	L.F.	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.1040	Pavement Word (Paint)	1	EA	\$ _____	\$ _____
629.1100	4-Inch Pavement Striping (Thermoplastic)	9,386	L.F.	\$ _____	\$ _____
629.1110	4-Inch Pavement Striping Dbl. Yellow (Paint)	2,260	L.F.	\$ _____	\$ _____
629.1200	4-Inch Pavement Striping Dbl. Yellow (Thermoplastic)	883	L.F.	\$ _____	\$ _____
629.1300	4-Inch Pavement Striping Dbl. Yellow, Dashed (Thermoplastic)	200	L.F.	\$ _____	\$ _____
629.1400	12-Inch Pavement Striping (Thermoplastic)	43	L.F.	\$ _____	\$ _____
629.1500	Crosswalk Marking (Thermoplastic)	2	LANE	\$ _____	\$ _____
629.2020	Profiled Thermoplastic Striping	60	L.F.	\$ _____	\$ _____
629.2021	Type C Pavement Marker	152	EA	\$ _____	\$ _____
629.2022	Type D Pavement Marker	112	EA	\$ _____	\$ _____
629.2023	Type F Pavement Marker	1	EA	\$ _____	\$ _____
631.1000	Regulatory Sign (10 Square Feet or Less)	1	EA	\$ _____	\$ _____
631.1100	Bus Stop Sign	2	EA	\$ _____	\$ _____
631.1200	Street Name Sign	2	EA	\$ _____	\$ _____
634.0100	Portland Cement Concrete Sidewalk	40	S.Y.	\$ _____	\$ _____



## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
636.0100	E-Construction license	F.A.	F.A.	F.A.	\$ 250,000.00
638.0100	Curb, Type 2D	78	L.F.	\$ _____	\$ _____
638.0100	8-1/2" Concrete Curb for New Guardrail (Bridge 3)	60	L.F.	\$ _____	\$ _____
638.0210	8-1/2" Concrete Curb for New Guardrail (Bridge 3A)	60	L.F.	\$ _____	\$ _____
641.0100	Hydro-mulch seeding	L.S.	L.S.	L.S.	\$ _____
645.0100	Traffic Control	L.S.	L.S.	L.S.	\$ _____
645.2010	Additional Police Officers, Additional Traffic Control Devices and Advertisement	F.A.	F.A.	F.A.	\$ 80,000.00
648.0100	Field-Posted Drawings	L.S.	L.S.	L.S.	\$ _____
650.0100	Curb Ramp, Modified	2	EA	\$ _____	\$ _____
650.1000	Detectable Warning Mat	4	EA	\$ _____	\$ _____
651.1000	HECO Ductline, One 3-Inch PVC Schedule 40, Concrete Encased	90	L.F.	\$ _____	\$ _____
651.2000	HECO Handhole, 2' x 4'	1	Each	\$ _____	\$ _____
651.3001	HECO Pole Riser, 3-Inch	2	Each	\$ _____	\$ _____
651.3002	Remove HECO Pole Riser	2	Each	\$ _____	\$ _____
652.1000	HT Ductline, One 2-Inch PVC, Type GT-42, Concrete Encased	90	L.F.	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
652.2000	HT Handhole, 2' x 4'	1	EA	\$ _____	\$ _____
652.3001	HT Pole Riser, 2-Inch	2	EA	\$ _____	\$ _____
652.3002	Remove HT Pole Riser	2	EA	\$ _____	\$ _____
655.0300	Dumped Riprap (Bridge 3)	2,300	C.Y.	\$ _____	\$ _____
655.0310	Dumped Riprap (Bridge 3A)	655	C.Y.	\$ _____	\$ _____
671.0100	Protection of Endangered Species	F.A.	F.A.	F.A.	\$ 100,000.00
692.0100	Voluntary Partnering	F.A.	F.A.	F.A.	\$ 10,000.00
693.2010	Terminal Impact Attenuator (QuadGuard M10 24")	L.S.	L.S.	L.S.	\$ _____
693.2020	Terminal Impact Attenuator (MSKT-SP-MGS, TL-3)	L.S.	L.S.	L.S.	\$ _____
693.2030	Terminal Impact Attenuator (MSKT-SP-MGS, TL-2)	L.S.	L.S.	L.S.	\$ _____
693.2040	Terminal Impact Attenuator (Inertial Barrier System: Tau-II, Absorb 350 or Other NCHRP 350 Approved; MASH 2016 Approved Crash Cushion)	L.S.	L.S.	L.S.	\$ _____
694.0100	Archeological Monitoring	F.A.	F.A.	F.A.	\$ 250,000.00
696.0100	Field Office Trailer (Not To Exceed \$32,000)	L.S.	L.S.	L.S.	\$ _____
696.1000	Maintenance of Trailers	F.A.	F.A.	F.A.	\$ 50,000.00
698.0100	Training (8 Trainees)	1,000	HOUR	\$ _____	\$ _____

## PROPOSAL SCHEDULE

ITEM NO.	ITEM DESCRIPTION	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
699.1000	Mobilization (Not to Exceed 6 percent of the Sum of All Items Excluding the Bid Price of This Item).	L.S.	L.S.	L.S.	\$ _____
	Sum of All Items.....				\$ _____
NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.					

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### **Contractor's RFI:**

1. With reference to addendum #2, Contractor RFI #14 – Response, “Pay item 505.0510 pertains to Bridge 3. The Bridge 3A bypass road does not include any H-piles or sheet piles.” For clarity sake, please revise the proposal item DESCRIPTION as it STILL reads, “Bridge 3A By-Pass Structural Steel H-Piles Driven”.

**The description for bid item 505.0510 has been revised.**

2. Regarding Addendum #2, Pay Item #505.0510, upon review and considering pay item #505.0500 – shouldn't this item (#505.0510) be deleted?

**The description for bid item 505.0510 has been revised.**

3. After seeing the response for Item 2:

*“The utility costs for the Detour Road Lighting System has to do with utility charges associated with setting up an account with HECO and paying for the monthly utility charges associated with the detour road lighting system. These costs would be based on the length of time needed to keep the detour lighting system operational”*

This still does not say what the costs are per month so we do not know what amount to put in for our bid. Would appreciate if you could make this an allowance or force account item. Another way of doing it would be to have everyone base their bid on x amount of dollars/month for so many months. That way everyone is bidding apples to apples. If the actual costs are higher/lower, they can always be adjusted via change order later.

**A bid item has been added to the proposal schedule.**

4. Referencing Addendum #2 RFI response #105 – the response (“...setting up an account with HECO and paying for monthly utility charges...”) still provides bidders with no estimated cost to include with the bid as we cannot get an estimated price from HECO without a contract or MOA. Because this cost is indeterminable prior to contractual relationship with the utility company and therefore bid time, this cost is best handled as an allowance bid item for all parties involved.

**A bid item has been added to the proposal schedule.**

5. With reference to Addendum #2, added bid item #606.3000, “Guardrail Portable Barriers”, will cost for portable barriers for Interim Roadway, sheet C5.2 be paid for under this account? Also related, will the temporary inertial barriers systems be paid with existing bid item #693.2040?

**Portable barriers shown on Sheet C5.2 will be paid under bid item 606.3000. Temporary inertial barrier systems shown on Sheet C5.2 will be paid for under bid item 693.2040.**

6. With reference made to the Addendum #2 added special provision section 635, "E-Construction", we note the relative significant force account amount but that no mention is made in the measurement or payment sections for user training for this new and relatively expensive software. Will the State be hosting and providing this training and how much contractor personnel training hours should we allow in our bid for this training?

**The State will provide a 2 hour training session for the Contractor.**

7. The addendum #2, added special provision section 635, "E-Construction". Reviewing the standard specifications we see that section 635 is for HMA Sidewalks. Is this the intent?

**Revised section number for E-Construction.**

8. After more review of the addendum #2 RFI responses – it seems that bid item #505.0510 is for furnishing and installation of steel sheet piling work and the quantity unit of measure seems to bear that out. For clarity sake, please consider revising the item description for #505.0510 to "Bridge 3 Bypass Steel Sheet Piling" or something similar as the current description is misleading as well as inaccurate.

**The description for bid item 505.0510 has been revised.**

9. With reference to RFI Response #20, we note there are no anticipated work durations provided for the Hawaiian Telecom and Spectrum (Oceanic Time Warner) MOA's.

**Anticipated durations are not known at this time.**

10. With reference to RFI Response #25, we note the response regarding contaminated soils, but are specifically concerned with whether there will be hazardous materials present at the site? (e.g. lead paint, arsenic/creosote treated lumber, or asbestos).

**Hazardous materials are not known to occur on the site.**

11. With reference to RFI Response #90, we note the response on pre-existing hazardous waste, but are specifically concerned with whether you anticipate any hazardous waste to be generated as a result of our demolition and construction operations? (e.g. lead paint waste, arsenic/creosote treated lumber waste, asbestos waste). If so, please confirm that the State would be the generator of this hazardous waste.

**Hazardous materials are not known to occur on the site.**

12. With reference to Addendum #2, added Special Provision Section 671, and plan sheet #7, Environmental Permit Note #5, and the added force account bid item #671.0100, please be advised that the proposal FA amount of \$25,000 is woefully short of what will be required for the permit requirements of this project. The notes and special provisions require a daily biologist survey (green sea, hawksbill turtles and nests) prior to the start of each workday. Please confirm those permit requirements and revise the proposal item force account amount accordingly.

**The amount for the force account item has been adjusted.**

13. This RFI stayed the same in the addendum. Also, there is a typo on 693.2010 with the \* " \* after the TL-3. In addition, the Addendum #2 changed the MSKT TL-2 to a MSKT TL-3. There is a pay item without a call out in the plans

**Revised callout on Sht. C3.4.**

14. On sheet 93 there is a call out for handrailing detail 2/S2.5 indicates a max. length of 24'-0" but the detail 1/S2.5 indicates a dimension of 24'-6". Can you please clarify which is correct?

**The contractor shall use 24'-6".**

15. There looks like there is a call out that is missing for the handrailing detail on the lower left corner of 2/S2.5.

**The weld callout symbol is correct. However, the weld should be a field weld.**

16. Please verify the quantity for bid items 629.1000 Pavement Striping (Paint) and 629.1110 – 4-Inch Pavement Striping Dbl. Yellow (Paint).

**The bid quantities have been updated. Added bid item for Pavement Word (Paint).**

17. Do you have a detail for Channelization Device called out on sheet 45?

**Please see revised sht. 45.**

18. There are existing Stop Sign and Street Name signs at Kili Drive and Farrington Hwy. It is to be relocated per sheet 46 in the interim phase. On sheet 45 for bypass road there is a new sign, but does not call out the street name signs.

**Revised sheet 45.**

19. On ultimate plan sheet 48 there is only a call out for the Stop Sign but nothing for street name signs. Can you please let us know if the street name signs need to be relocated or are new street name signs required?

**Added bid item for street name sign.**

20. The soils report provided does not address what overage factor %the contractor should allow for beyond theoretical concrete volumes for all the drilled shafts. Please specify what percentages (+25%, +40%, +60%, etc) concrete overage factor is required so all bidders base their proposals on the same percentage.

**Concrete overage factor shall be 40%. The State will not consider for payment overage under 40%. A force account bid item has been added to address overage in excess of 40%**