

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

**ADDENDUM NO. 1**

**FOR**

**INTERSTATE ROUTE H-1  
GUARDRAIL AND SHOULDER IMPROVEMENTS  
MIDDLE STREET TO PUNCHBOWL OFF-RAMP  
FEDERAL-AID PROJECT NO. IM-H1-1(242)**

Amend the Bid Documents as follows:

**A. PROPOSAL**

1. Replace original **Proposal** page **P-1** dated 12/5/14 in its entirety with the attached **Proposal** page **P-1** dated 5/25/16.
2. Replace original **Proposal Schedule**, pages **P-8** through **P-12**, dated March 29, 2016 with the attached **Proposal Schedule**, pages **P-8** through **P-12**, dated May 25, 2016.

**B. PLANS**

1. Replace sheets **49, 51, 52, 53, 54, 56, 59, 79, 80, 81, 82, 84, 85, 86, 87, 91, 127, 128, 173, and 183** with **ADD. 49, ADD. 51, ADD.52, ADD. 53, ADD. 54, ADD. 56 ADD. 59, ADD. 79, ADD.80, ADD. 81, ADD. 82, ADD. 84, ADD. 85, ADD. 86, ADD. 87, ADD. 91, ADD. 127, ADD. 128, ADD. 173, and ADD. 183**
2. Revise Typical Guardrail Installation Detail Elevation View on Sheet 94. Replace callout "2 1/2" Min. A.C. Pav't., Mix No. IV" with "2" Min. A.C. Pav't., Mix No. IV".

**C. ATTACHMENTS**

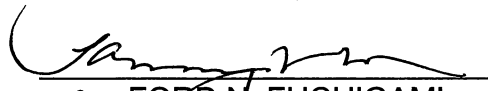
Attached, for your information:

1. Meeting minutes and attendance list from May 25, 2016 non-mandatory pre-bid meeting.
2. Noise Variance Permit.

**D. RFI AND RESPONSES**

See attached RFI and responses.

Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided on Page P-4 of the Proposal.

  
\_\_\_\_\_  
FORD N. FUCHIGAMI  
Director of Transportation

**PROPOSAL TO THE  
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION**

**PROJECT:** Interstate Route H-1  
Guardrail and Shoulder Improvements  
Middle Street to Punchbowl Off-Ramp  
District of Honolulu  
Island of Oahu

**FEDERAL AID PROJECT NO.:** IM-H1-1(242)

**COMPLETION TIME:** 327 Calendar days from the date indicated in the Notice to Proceed from the Department. Completion time does not include plant establishment period.

**UDBE PROJECT GOAL:** 9%

**DESIGN PROJECT MANAGER:**

**NAME:** Steven Yoshida  
**ADDRESS:** 601 Kamokila Boulevard, Room 602  
Kapolei, Hawaii 96707  
**PHONE NO.:** (808) 692-7682  
**FAX NO.:** (808) 692-7690

**PROPOSAL SCHEDULE**

	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
202.0100	Removal of Existing Pavement	L.S.	L.S.	L.S.	\$ _____
202.1100	Removal of Existing Guardrail	L.S.	L.S.	L.S.	\$ _____
202.2100	Removal of Cement Rubble Masonry	L.S.	L.S.	L.S.	\$ _____
202.2200	Removal of Terminal Impact Attenuator and Concrete Footing	L.S.	L.S.	L.S.	\$ _____
202.2300	Removal of Sand Filled Barrels	L.S.	L.S.	L.S.	\$ _____
202.2400	Removal of End Posts and Barriers	L.S.	L.S.	L.S.	\$ _____
202.2500	Removal of Concrete Gutter	L.S.	L.S.	L.S.	\$ _____
202.2600	Removal of Concrete Curb	L.S.	L.S.	L.S.	\$ _____
204.0100	Excavation and Backfill for Roadway Lighting System	L.S.	L.S.	L.S.	\$ _____
205.0100	Structure Excavation for Barrier Walls/End Posts	L.S.	L.S.	L.S.	\$ _____
205.0200	Structure Backfill for Barrier Walls/End Posts	L.S.	L.S.	L.S.	\$ _____
206.0100	Excavation for Drainage Catch Basin	L.S.	L.S.	L.S.	\$ _____
209.1000	Installation, Maintenance, Monitoring and Removal of BMP	L.S.	L.S.	L.S.	\$ _____
209.2000	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	\$ 50,000.00
301.1000	Hot Mix Asphalt Base Course	280	TON	\$ _____	\$ _____
305.0100	Aggregate Subbase	L.S.	L.S.	L.S.	\$ _____

**PROPOSAL SCHEDULE**

	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
401.0100	HMA Pavement, Mix No. IV	150	TON	\$ _____	\$ _____
401.0200	HMA Pavement Under Guardrail, Mix No. IV	50	TON	\$ _____	\$ _____
401.0300	SMA Pavement	12	TON	\$ _____	\$ _____
415.0100	Cold Planing	L.S.	L.S.	L.S.	\$ _____
503.0100	Concrete for Terminal Impact Attenuator	L.S.	L.S.	L.S.	\$ _____
503.0200	Concrete for Retaining/Barrier Walls and Footings	L.S.	L.S.	L.S.	\$ _____
507.7010	Type I Concrete End Posts	3	Each	\$ _____	\$ _____
507.7020	Type II Concrete End Posts	3	Each	\$ _____	\$ _____
507.7030	Type III Concrete End Posts	7	Each	\$ _____	\$ _____
508.0100	Cement Rubble Masonry	L.S.	L.S.	L.S.	\$ _____
601.0100	Concrete for Roadway Lighting System	L.S.	L.S.	L.S.	\$ _____
602.0100	Reinforcing Steel for Retaining/Barrier Walls and Footings	L.S.	L.S.	L.S.	\$ _____
603.0100	24-Inch Corrugated Metal Pipe Reconnection	L.S.	L.S.	L.S.	\$ _____
604.0100	Reconstruct Type A Modified Catch Basin	2	Each	\$ _____	\$ _____
606.3110	Guardrail, Type 3 W-Beam with Strong Posts	L.S.	L.S.	L.S.	\$ _____
606.3120	Guardrail, Double Nested W-Beam with Strong Post	L.S.	L.S.	L.S.	\$ _____

# PROPOSAL SCHEDULE

	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
606.3130	Guardrail, Thrie-Beam Transition	L.S.	L.S.	L.S.	\$ _____
606.3140	Guardrail, Type 4 Rigid Barrier	L.S.	L.S.	L.S.	\$ _____
606.7010	Terminal Section, Type SKT-350	L.S.	L.S.	L.S.	\$ _____
606.7020	Terminal Section, Type G	L.S.	L.S.	L.S.	\$ _____
606.7030	Terminal Section, Type A	L.S.	L.S.	L.S.	\$ _____
622.0100	Concrete Foundation for Roadway Lighting Standard	L.S.	L.S.	L.S.	\$ _____
622.0200	Disconnect and Relocate Roadway Lighting Standard including Pole, Bracket Arm, Luminaire, and Transformer Base	L.S.	L.S.	L.S.	\$ _____
622.0300	Demolish Roadway Lighting Standard Concrete Foundation	L.S.	L.S.	L.S.	\$ _____
622.0400	Temporary Roadway Lighting Standard Concrete Foundation	L.S.	L.S.	L.S.	\$ _____
622.5030	1-Inch Schedule 40 PVC Conduit	L.S.	L.S.	L.S.	\$ _____
622.5031	2-Inch Schedule 40 PVC Conduit	L.S.	L.S.	L.S.	\$ _____
622.5040	Roadway Lighting Conductors - #1/0 RHW-USE	L.S.	L.S.	L.S.	\$ _____
622.5041	Roadway Lighting Conductors - #8 RHW-USE	L.S.	L.S.	L.S.	\$ _____
622.5050	Temporary Roadway Lighting Conductors	L.S.	L.S.	L.S.	\$ _____
622.5090	Type A Highway Lighting Pullbox	L.S.	L.S.	L.S.	\$ _____
622.5091	Type A Power System Pullbox	L.S.	L.S.	L.S.	\$ _____

IM-H1-1(242)

May 25, 2016

P-10

**PROPOSAL SCHEDULE**

	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
622.5092	Type B Communication System Pullbox	L.S.	L.S.	L.S.	\$ _____
622.5093	Remove Pullbox (Highway Lighting, Power, and Communication)	L.S.	L.S.	L.S.	\$ _____
629.0100	8-inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	\$ _____
629.0200	12-inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	\$ _____
629.0300	Type C Pavement Marker	L.S.	L.S.	L.S.	\$ _____
638.0100	Gutter, Type 2A	L.S.	L.S.	L.S.	\$ _____
638.0200	Curb, Type 2D	L.S.	L.S.	L.S.	\$ _____
641.0100	Hydro-mulch Seeding	L.S.	L.S.	L.S.	\$ _____
642.0100	Plant Maintenance	9	Month	\$ _____	\$ _____
643.0100	Maintenance of Existing Landscape Area	F.A.	F.A.	F.A.	\$ <u>25,000.00</u>
644.0100	Relocation of Existing Sprinkler Systems	F.A.	F.A.	F.A.	\$ <u>30,000.00</u>
645.0100	Traffic Control	L.S.	L.S.	L.S.	\$ _____
645.0200	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	\$ <u>250,000.00</u>
648.0100	Field Posted Drawings	L.S.	L.S.	L.S.	\$ _____
656.0100	Drilling Holes and Installing Dowel Reinforcing Bars	254	Each	\$ _____	\$ _____
656.0200	Drilling Holes and Installing Stainless Steel Dowels	62	Each	\$ _____	\$ _____

# PROPOSAL SCHEDULE

	ITEM	APPROX QUANTITY	UNIT	UNIT PRICE	AMOUNT
656.0300	Drilling Holes and Installing MMFX2 Dowels	46	Each	\$ _____	\$ _____
656.0400	Drilling Holes and Installing GFRP Dowels	16	Each	\$ _____	\$ _____
693.0100	Terminal Impact Attenuator, SCI Smart Crash Cushion or Equal	L.S.	L.S.	L.S.	\$ _____
693.0200	Terminal Impact Attenuator	L.S.	L.S.	L.S.	\$ _____
696.0100	Maintenance of Trailers	F.A.	F.A.	F.A.	\$ 52,000.00
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.	\$ _____
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.					

## PRE-BID MEETING MINUTES

Project: Interstate Route H-1, Guardrail and Shoulder Improvements,  
Middle Street to Punchbowl Off-ramp  
Federal-aid Project No. IM-H1-1(242)

Subject: Non-mandatory Pre-bid Conference

Date/Time: May 25, 2016 at 9:00 AM

Held: Kakuhihewa State Office Building  
601 Kamokila Boulevard, Room 488  
Kapolei, HI 96707

Present: See attached lists of attendees

Discussed:

1. Steven Yoshida introduced himself and had each meeting participant do the same as well.
2. Steven Yoshida opens meeting at 9:06 A.M. after waiting to see if others will show. The following was announced once the meeting began:
  1. Pre-bid conference is non-mandatory and is intended for clarification prior to bidding.
  2. If you haven't done so, please sign in.
  3. Announcement: "Anything said at this meeting is for clarification only, the bid documents shall govern over anything said today and discrepancies shall be clarified by addendum."
  4. Bidders have until 3:00 PM, Wednesday, June 1, 2016, to submit any further questions.
  5. The minutes to this meeting and the sign-in sheet will be distributed by addendum prior to bid opening.
  6. Announcement: "Confirmation of DBE forms are due at the time of bid opening. See "PROPOSAL REQUIREMENTS" of the REGULATORY REQUIREMENTS FOR FEDERAL AID PROJECTS REGARDING DISADVANTAGED BUSINESS ENTERPRISES (DBEs)" section of the Special Provisions."
  7. Bid opening is scheduled for 2:00 P.M., Thursday, June 16, 2016 at the Contracts Office, Department of Transportation, 869 Punchbowl Street, Honolulu, HI 96813.
  8. Bidders are directed to section 645 – Work Zone Traffic Control of the Special Provisions. As described in subsection 645.03(F), lane closures for this project will mainly be allowed during nighttime hours, Sunday night through Friday morning. The contractor may close only the shoulder during the day. Note that the project includes four (4) 24-hour weekend lane closures from 9:30 AM, Friday, through 4:00 AM,

## PRE-BID MEETING MINUTES

Interstate Route H-1, Guardrail and Shoulder Improvements,  
Middle Street to Punchbowl Off-ramp  
Federal-aid Project No. IM-H1-1(242)

Monday. See section for specific details. HDOT has obtained a noise variance for Community Noise Control from the State Department of Health. A copy of the noise variance was handed out to the participants and will be included in Addendum No. 1.

9. Bidders are directed to section 692 – Moveable Steel Barrier of the Special Provisions. As described in subsection 695.03(B), “Each barrier unit shall be equipped with retractable wheeled jacks designed to be deployed using a hand crank.” Moveable Steel Barrier should allow access to the worksite without use of heavy equipment.
10. Bidders are directed to the NPDES information provided in the CD for the subject project. This project is covered under HDOT’s NPDES General Permit by the State Department of Health’s Notice of General Permit Coverage (NGPC), which authorizes discharges of storm water associated with the project’s construction activities.

### 3. Open discussion with prospective bidder:

1. Question: Should we follow the unit price for proposal item 401.0300?  
Answer: The unit price will be removed and a revised P-9 sheet will be included in Addendum No. 1.
2. The UDBE Goal has been revised to 9% and will be included in Addendum No. 1. The contractor is also directed to the last paragraph of page P-4, which includes: “It is also understood that it must meet or exceed the DBE contract goal listed on page P-1, or demonstrate that it made good faith efforts to meet the DBE project goal.
3. Question: What items were used to determine the UDBE Goal?  
Answer: At least one of the items used was traffic control. A full list of items will be provided in Addendum No. 1.
4. All RFI questions/answers will be included in Addendum No. 1.

Meeting Adjourned at 9:18 A.M.

Prepared by: Evan Kawashima

Follow up to Item 3.4. above:

UDBE Goal was based on the following construction categories: Traffic Control, Reinforcing Steel, Pavement Markings, and Landscaping.

# PRE-BID CONFERENCE ATTENDANCE LIST

PROJECT NO.: IM-H1-1(242) PROJECT NAME: INTERSTATE ROUTE H-1, GUARDRAIL AND SHOULDER IMPROVEMENTS, MIDDLE STREET TO PUNCHBOWL OFF-RAMP

DATE: MAY 25, 2016 TIME: 9:00 AM LOCATION: KAKUHIHEWA STATE OFFICE BUILDING, 601 KAMOKILA BLVD, ROOM 488, KAPOLEI, HI 96707

CALLED BY: STEVEN YOSHIDA, HDOT DESIGN PROJECT MANAGER

## PLEASE PRINT

PARTICIPANTS	COMPANY / ORGANIZATION	ADDRESS (Including City and Zip Code)	TELEPHONE NUMBER
1 Kevin Yamabayashi	Grace Pacific	110 Puuhale Rd. Hono, HI	842-3033
2 Marvin Kracl	Global Specialty Cont.	94-978 Pakela St. Waipahu, HI 96797	843-8881
3 Yoichi EBISHI	Y. EBISHI & ASSOC.	1126 12th Ave., #305, Hm. HI 96816	735-1634
4 Evan Kawashima	Wilson Okamoto Corp.	1907 S. Beretania St, Suite 400 Honolulu, HI 96820	946-2277
5 BRAD LOCK	"	"	"
6 CHANCE MORRILL	"	"	"
7 CALVIN MIYAHARA	KSF	415 PIKOI ST #300 HONO, HI 96814	695-6231
8 Steven Yoshida	HDOT	601 Kamokila Blvd, Rm 602, Kapolei, HI 96707	692-7682
9			
10			
11			
12			

DAVID Y. IGE  
GOVERNOR OF HAWAII



VIRGINIA PRESSLER, M.D.  
DIRECTOR OF HEALTH

STATE OF HAWAII  
DEPARTMENT OF HEALTH  
P. O. BOX 3378  
HONOLULU, HI 96801-3378

In reply, please refer to:  
File:

April 19, 2016

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Yoichi Ebisu, P. E.  
Y. Ebisu & Associates  
1126 12<sup>th</sup> Avenue  
Honolulu, Hawaii 96816

Dear Mr. Ebisu:

Enclosed is the VARIANCE (Docket No. 16-NR-VN-02) for Community Noise Control which was granted on April 18, 2016. The Decision and Order specifies the conditions and restrictions that are applicable to your project.

Non-compliance with the conditions and restrictions of the Decision and Order may bring about additional restrictions, possible suspension of the variance and/or monetary fines. Should you have any questions relative to the variance, please do not hesitate to contact me at (808) 586-4700 or at [james.toma@doh.hawaii.gov](mailto:james.toma@doh.hawaii.gov).

Sincerely,

A handwritten signature in black ink, reading "James E. Toma". The signature is stylized with a large, sweeping "J" and a long, horizontal stroke at the end.

James E. Toma  
Noise Section Supervisor  
Indoor and Radiological Health Branch

STATE OF HAWAII  
DEPARTMENT OF HEALTH

In the Matter of the Application	)	
For Variance for:	)	
	)	
Y. EBISU AND ASSOCIATES	)	
Noise – Guardrail and Shoulder	)	
Improvements on H-1 Freeway, Between	)	Docket No. 16-NR-VN-02
Middle Street and Punchbowl Off-Ramp,	)	V-899
Oahu	)	
_____	)	

**DECISION AND ORDER**

Pursuant to Chapter 342F, Hawaii Revised Statutes (H.R.S.), and Chapter 11-46, Hawaii Administrative Rules (H.A.R.), Community Noise Control; and based upon the application and review by the Indoor and Radiological Health Branch, the variance request from the provisions of Section 11-46-6(a), H.A.R., is hereby GRANTED with the following restrictions and conditions:

1. The variance shall be granted to replace the guardrails and impact attenuators, modifications to and replacement of concrete safety barriers, transitions, and fences, and reconstruction of pavement in the general vicinity of the other work.
2. The variance shall be granted from May 1, 2016 to February 28, 2017.
3. The variance shall be granted for the following days/times:

Monday to Friday	midnight to 7:00 a.m. and 6:00 p.m. to midnight.
Saturday	midnight to 9:00 a.m. and 6:00 p.m. to midnight.
Sundays	All day (midnight to midnight).
4. The variance shall be granted with the following restrictions:
  1. The use of the hoe ram, the walk behind saw, concrete saw, cold planers and handheld jackhammers, shall be prohibited after 10:00 p.m. within 500 feet of residences.
  2. The use of excavators, backhoes, loaders and vibratory rollers shall be prohibited after midnight within 500 feet of residences.
5. The applicant shall notify the Indoor and Radiological Health Branch as to the date and time of any variance hour activity as soon as the dates are confirmed, and when the project is completed.

6. Residents and businesses that may be impacted by the activity shall be given sufficient notice regarding the project. The notification for the planned nighttime activity shall contain the name and telephone number of the job-site inspector. In addition, a copy of any notifications, a map of the distribution area, as well as progress reports shall be sent to the Indoor and Radiological Health Branch.
7. The applicant shall make every effort to minimize noise emanating from the project.
8. The use of reverse signal alarms shall be prohibited from 8:00 p.m. to 7:00 a.m. Alternative methods such as utilizing a ground guide for signaling shall be employed.
9. Traffic noise from heavy vehicles travelling to and from the project site shall be minimized near residences.
10. The applicant shall have a job-site inspector to whom immediate complaints can be forwarded for prompt response, and who shall have the general responsibility of monitoring quiet work procedures.
11. If the noise level is such that numerous complaints are received by the Department, the applicant shall cease operations upon receipt of an order and complete the project during hours on weekdays and weekends as directed.
12. Pursuant to Section 342F-5(d)(3), H.R.S., the applicant shall be required to perform noise sampling during the variance hours and report the results of such sampling to the Indoor and Radiological Health Branch.
13. Should the duration of the project continue beyond the expiration date, the applicant shall submit a request for extension along with an updated work schedule prior to February 28, 2017.

DATED: Honolulu, Hawaii, APR 18 2016.



LYNN M. NAKASONE  
Environmental Health Program Administrator  
Environmental Health Services Division

# Receipt



591 Ala Moana Blvd

Honolulu, HI 96813

Phone: (808) 586-4700 Fax: (808) 586-5838

Receipt Date

1/25/2016

Receipt Number

2016-41725

Name Y. Ebisu & Associates  
Address 1126 12th Avenue, No. 305  
Honolulu HI

Country USA  
Phone (808) 735-1634  
96816

Check Number

13821

Delivery method

Walk-In

This is not proof of licensure or permit

Comments

Community noise variance fee for the Hawaii State Department of Transportation, Highways Division (HDOT) guardrail and shoulder improvements along H-1 Freeway between Middle Street and the Punchbowl Off-Ramp in downtown Honolulu.

Source Code

Source Code ID

Fee Amount

1117

Noise Permit and Variance Fees

\$100.00

Sum

\$100.00

Monday, January 25, 2016

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

**Project: INTERSTATE ROUTE H-1,  
GUARDRAIL AND SHOULDER IMPROVEMENTS  
MIDDLE STREET TO PUNCHBOWL OFF-RAMP  
FEDERAL-AID PROJECT NO. IM-H1-1(242)**

**RFI AND RESPONSES**

1. Question: With reference to plan sheet 28, 44, 126-128, request details for the reconstruction of the existing concrete barrier. The current sheet callouts do not provide any details for this reconstruction work.

Response: See Addendum No.1.
2. Question: With reference to plan sheets 45 (typical) and typical elevation sheet 94, request clarification on thickness of "Additional Paved Area". The site layout plans indicate 2" thickness, while the detail sheet indicates 2-1/2".

Response: The additional paved area beneath the guardrail shall be 2".
3. Question: Is it the plan intent to use traffic control phase 2 for work located on plan sheet 47, Sta 67+18/67+31 EB? If this is not the case, respectfully request traffic control plan for said work.

Response: Yes, this work will occur during Phase 2.
4. Question: With reference to plan sheet 239 (Phase 1, Note #1) and special provision section 645 (pg 645-1a, row 15-20), request clarification as to the work SHIFTS for night time work maintaining two through lanes. Plans indicate 4 nightly shifts (Monday to Friday) from 9:00 pm to 4:00 am, while the specials indicate 5 nightly shifts (Sunday night to Friday morning).

Response: Temporary Closure Plans show closures when TL-3 barriers for Phase 1 (24-Hour Shoulder Closure) are already installed. Work may occur on Sunday night to install the necessary items for the 24-Hour Shoulder closure.

5. Question: With reference to plan sheet 242 (Phase 1) and special provision section 645, please confirm or clarify that the work shifts and hours indicated on note #1 are in ADDITION to the 24-hour weekend closure called out for in SP 645 (page 645-1a, rows #29-54).

Response: Confirmed. Work shifts and hours are in addition to the 24-Hour weekend closure.

6. Question: With reference to plan sheet 242 (Phase 1, Note #1) and special provision section 645 (pg 645-1a, row 22-27), request clarification as to the work SHIFTS for night time work maintaining ONE through lanes. Plans indicate 3 shifts per week (Saturday to Monday), while the specials indicate 5 shifts per week (Monday to Friday).

Response: Temporary Closure Plans show closures when TL-3 barriers for Phase 1 are installed. Phase 1 will require a 24-Hour Weekend Closure; therefore the temporary closure that occurs while the barriers are in place (as shown on plan) shall occur from Saturday to Monday. The traffic control plans show temporary closures required for work during the 24-hour closure.

Temporary Lane closures may occur outside of the designated closure durations on the plans if all lanes on H-1 can be reopened upon completion of that night shift. The temporary closures in the traffic control plans show lane closures while the barriers are in place. However lanes can be closed from 9:00pm to 4:00am regardless of the 24-hour closures as long as all lanes on H-1 can be reopened upon completion of that night shift. See attached closure hours figure for clarification. (Applies to Question 7, 8, 9, and 10)

7. Question: With reference to plan sheet 248-249 (Phase 2, Note #1) and special provision section 645 (pg 645-1a, row 15-20), request clarification as to the work SHIFTS for night time work maintaining TWO through lanes. Plans indicate 4 nightly shifts (Friday night to Monday morning), while the specials indicate 5 nightly shifts (Sunday night to Friday morning).

Response: Temporary Closure Plans show closures when TL-3 barriers for Phase 2 are installed. Phase 2 will require a 24-Hour Weekend Closure; therefore the temporary closure that occurs while the barriers are in place (as shown on plan) shall occur from Saturday to Monday. The traffic control plans show temporary closures required for work during the 24-hour closure.

8. Question: With reference to plan sheet 253-255 (Phase 3, Note #1) and special provision section 645 (pg 645-1a, row 15-20), request clarification as to the work SHIFTS for night time work maintaining TWO through lanes. Plans indicate 4 nightly shifts (Monday night to Friday morning), while the specials indicate 5 nightly shifts (Sunday night to Friday morning).

Response: Temporary Closure Plans show closures when TL-3 barriers for Phase 1 (24-Hour Shoulder Closure) are already installed. Work may occur on Sunday night to install the necessary items for the 24-Hour Shoulder closure.

9. Question: With reference to TRAFFIC CONTROL PHASES 5-11 and 13-14, and special provision requirements as called for on SP page 645-1a, rows #15-20, request clarification as to the work SHIFTS for night time work maintaining TWO through lanes for temporary closures.

Response: Work shifts maintaining two through lanes can be temporarily closed Sunday night to Friday morning, from 9:00 pm to 4:00 am each night. Certain phases will require 24-Hour weekend lane closures. These phases will require temporary closures on Friday and Saturday night as shown in the plans.

10. Question: With reference to TRAFFIC CONTROL PHASE 12 and special provision requirements as called for on SP page 645-1a, rows #22-27, request clarification as to the work SHIFTS for night time work maintaining ONE through lane for temporary closures.

Response: Work shifts maintaining one through lane can be temporarily closed Monday to Friday, from 12:00 am to 4:00 am each night. Certain phases will require 24-Hour weekend lane closures. These phases will require temporary closures on Friday and Saturday night as shown in the plans.

11. Question: Can a Quadguard Elite be used in lieu of the Smart Crash Cushion called on sheet 44?

Response: We do not believe that the QuadGuard Elite is an equal to the Smart Crash Cushion.

12. Question: Please provide the reasons for the "non-equal" comparisons between the QuadGuard Elite and Smart Crash Cushion?

Response: Unlike the QuadGuard Elite, the Smart Crash Cushion does not use cartridges or cells.

13. Question: The QuadGuard Elite provides protection after it is impacted, but I though after the Smart Crash Cushion was impacted it did not provide any protection for the area?

Response: Technically all crash cushions require some sort of inspection and repair since there are not true "self-restoring" attenuators. Past studies have shown that the Smart Cushion has the best overall life cycle costs and reduced repair time for "severe duty" attenuators.

14. Question: Is there a way to address the possibility of hydraulic leaks after an impact?

Response: Hydraulic leaks, if they occur, should be addressed in the same manner as any other material on the roadway surface after a crash, such as vehicle fluids.

15. Question: Has repair costs been factored in the "equal" in the life cycle costs?

Response: A few state agency studies, which includes CalTrans, demonstrated that the Smart Cushion has a reduced life cycle cost over other similar crash cushions.

16. Question: Has With reference to proposal sheet P-1 and the UDBE Goal of 10%. After reviewing the plans and the current UDBE listing, we have concluded that the 10% UDBE goal is higher than the available UDBE Subcontractors and Vendors can contribute to this project. On past project of this scope, the UDBE Goal has been 5% - 6%. We would like to request that you revisit the current 10% UDBE Goal and revise it to a percentage that is realistically attainable.

Response: The UDBE Goal has been revised to 9%. The contractor is also directed to the last paragraph of page P-4, which includes: "It is also understood that it must meet or exceed the DBE contract goal listed on page P-1, or demonstrate that it made good faith efforts to meet the DBE project goal."

17. Question: Has With reference to proposal sheet P-9, item #401.0300 currently has a unit price of \$350/ton. We believe this unit may be included on the proposal sheet inadvertently. Please confirm or clarify the unit price listed for bid item #401.0300.

Response: A revised P-9 sheet will be issued by addendum, which will replace the 350 with \$ \_\_\_\_\_.

18. Question: With reference to Pavement Restoration Adjacent to Concrete Endpost/Barrier Wall, Miscellaneous Detail sheet 93, and Structural sheets #113, 114, 115, 121, 122. The referenced typical structural sheets for Type I & III end posts call for 5000 psi non-shrink grout to be placed under footings to fill voids. For the estimating purposes what grout thickness layer should bidders use? Additionally, will this grout layer be required at the Type II end post? Current plans do not call for the grout layer at the Type II end post.

Response: This is basically a leveling grout to fill voids between the ground and precast footing. The thickness will depend on the evenness of the ground. The Type II end posts are cast in place concrete so no grout is required.

19. Question: With reference to bid items #507.7010, 507.7020, 507.7030, and the structural plan sheets 105-232, what proposal item should cost for unidentified end post "upgrades" be included with? (example, structural sheets #199, 206, 215, 224).

Response: Costs for unidentified endpost upgrades should be included with 503.0200 Concrete for Retaining/Barrier Walls and Footings, 602.0100 Reinforcing Steel for Retaining/Barrier Walls and Footings, 656.0100 Drilling Holes and Installing Dowel Reinforcing Bars, and any other applicable item.

20. Question: With reference to structural sheets 112, 116, & 120, what pay item should the new concrete curb be carried under?

Response: The concrete curb at the endpost should be included with the cost of the endpost.

21. Question: With reference to plan sheet 58, what pay item should installation of concrete gutter type 2A cost be applied to?

Response: See revised Proposal Schedule in Addendum No.1.

## **END OF RFI AND RESPONSES**