STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 1
for
INTERSTATE ROUTE H-1 SAFETY IMPROVEMENTS
PALAILAI INTERCHNAGE TO WAIAWA OVERPASS
FEDERAL-AID PROJECT NO. HSIP-H1-1(270)

The following amendments shall be made to the Bid Documents:

A. SPECIAL PROVISIONS

1. Replace Special Provisions Proposals, Contract, and Bond cover page with the attached Special Provisions Proposals, Contract, and Bond cover page.

2. Replace Table of Contents, pages 1-3, dated 9/21/18 with the attached Table of Contents, pages 1-3, dated r11/05/18.

3. Replace Section 103 – Award and Execution of Contract, pages 103-1a to 103-4a, dated 03/28/18 with the attached Section 103 – Award and Execution of Contract, pages 103-1a to 103-4a, dated r9/28/18.

4. Replace Section 421 – High Friction Surface Treatment, pages 421-1a to 421-5a, dated 03/28/18 with the attached Section 421 – High Friction Surface Treatment, pages 421-1a to 421-6a dated r11/01/18.

5. Add Section 645 – Work Zone Traffic Control, pages 645-1a to 645-3a dated r10/24/18.

6. Add Section 695 – Temporary Portable Concrete Barrier, pages 695-1a to 695-4a dated r10/25/18.

7. Replace Federal Wage Rates dated 9/28/2018, with the attached Federal Wage Rates dated 11/02/2018.

B. PROPOSAL SCHEDULE

1. Replace pages P-8 to P-12 dated 09/21/2018, with the attached pages P-8 through P-12 dated r10/24/2018.

C. PLANS

1. Replace Plan Sheet Nos. 2, 7, 11, 12, 18, 108, 114, 126, 138, 219 through 241 with the attached Plan Sheets Nos. ADD. 2, ADD. 7, ADD. 11, ADD. 12, ADD. 18, ADD. 108, ADD. 114, ADD. 126, ADD. 138, ADD. 219 through ADD. 241.

The following are provided for information only:

D. PERMITS

1. Attached are approved Community Noise Permit and Noise Variance

E. PRE-BID MEETING MINUTES

1. Attached are the October 22, 2018 pre-bid meeting minutes and attendance sheet.

F. CLARIFICATION QUESTIONS/REQUEST FOR INFORMATION AND HDOT RESPONSE

1. Question: Proposal Sheet P-1 states that the DBE Project Goal is 16.7%. How was this percentage calculated and what activities does the State envision being done by DBE? Sheet NB-1 of the Notice to Bidders states an estimated construction cost between $6M and $7M. At 16.7% DBE Project Goal, that would be between $1,002,000.00 and $1,169,000.00 worth of work.

   Response: The DBE project goal is calculated based on subcontracting opportunities. A goal setting committee reviews these subcontracting opportunities and qualified DBEs that may potentially perform portions of the work. Based on this review, a project goal is set for DBE participation. If the DBE project goal is not met, the bidder/offeror can provide documentation demonstrating good faith efforts to meet the goal. Additional information about good faith efforts are explained in the DBE Special Provisions.

2. Question: *When does the State anticipate the work being done? When is estimated NTP?*

   Response: The anticipated construction Notice to Proceed date is

by March 6, 2019.

3. Question: Will permanent construction signs (see Sheet 136 of the plans) need to be installed on the project? If so, how many sets will be required and will they all need to be covered/uncovered daily?

   Response: The R2-5b and R2-1 sign assemblies should be installed at the beginning and end of work zones for both directions. Another set of R2-1 signs near the Kunia I.C. should also be installed. The existing speed limit signs and construction speed limit signs should be covered/uncovered daily.

4. Question: Will the phasing shown on Sheets 136-241 of the plans need to be followed?

   Response: Phasing /Traffic Control plans shown in drawings are intended to demonstrate a recommended approach to providing safe work areas to complete the work. The contractor may develop its own traffic control plans and sequence of work to accomplish the work provided they are reviewed and approved by the State prior to initiation of work.

5. Question: What scope of work were considered in this project to come up with a DBE percentage of 16.7? This percentage is considerably higher than the usual, which ranges from 3-5%.

   Response: The DBE project goal is calculated based on subcontracting opportunities. A goal setting committee reviews these subcontracting opportunities and qualified DBEs that may potentially perform portions of the work. Based on this review, a project goal is set for DBE participation. If the DBE project goal is not met, the bidder/offeror can provide documentation demonstrating good faith efforts to meet the goal. Additional information about good faith efforts are explained in the DBE Special Provisions.

6. Question: There is a dashed line that offsets 8 ft. from the existing shoulder found between STA 70+00 and STA 80+00. Could you please indicate what that is?

   Response: The dashed line represents the approximate edge of shoulder for Ramp MDKA1.

7. Question: The project indicates high friction surface treatment installation. Are there any Contractors that do this type of work in the island?

   Response: It is Contractor's responsibility to look for qualified subcontractor to perform the High Friction Surface Treatment work per Specification.

8. Question: Perimeter controls are called out on the plans. Could you please provide additional information on what they are?

   Response: Perimeter Control locations identified on the Roadway Plans are an indication of locations where the State has identified the potential need for control of sediment transport into roadside drainageways based upon available information. As noted in Section F. of the Water Pollution and Erosion Control Notes on Sheet G-5, the Contractor may employ various perimeter controls to contain on-site runoff. The Contractor shall identify the types of BMP devices it intends to utilize in its Site-Specific BMP Plan.

9. Question: How long will cold planed surfaces allowed to be open to traffic?

   Response: Cold planed shoulder areas shall be exposed to traffic for no more than three calendar days per Section 415.03.

10. Question: Will speed limit signs within project limits need to be replaced due to lower speed limits during construction?

    Response: The existing speed limit signs shall be covered when work/lane closures are implemented and the construction speed limit signs will be displayed. During non-work hours, the existing speed limit signs will be uncovered and the construction speed limit signs will be covered.

11. Question: What is the intent/purpose of cold planing and paving shoulders?

    Response: To provide a suitable surface for effective rumble strip installation.

12. Question: High Friction Surface Treatment - can hand mixing be allowed?

    Response: Mixing and application of HFST shall be in accordance

with Section 421.

13. Question: Is this project a replace only contract for pavement markings?

    Response: Project intent is to replace existing striping, not to permanently change lane widths.

14. Question: Items 629.1002 and 629.1003 appear to be the same, clarify.

    Response: Item 629.1002 is for White 4-Inch Pavement Striping. Item 629.1003 is for Yellow 4-Inch Pavement Striping

15. Question: Please clarify what item 629.1012 is for.

    Response: The Type A Pavement Markers, Item 629.1012, refers to the markers necessary for Lane Change Restriction markings at various locations throughout the project limits.

16. Question: Ramp MB appears to already have High Friction Surface Treatment (HFST) on it, please verify intent.

    Response: Intent is to remove existing treatment prior to placement of new High Friction Surface Treatment. The cost of removal is considered incidental to the HFST item.

17. Question: Ramp MA does not show striping, is the intent to restripe or protect the existing striping?

    Response: Intent is to restripe.

18. Question: There are areas within the project that has existing Profile Stripe. This stripe needs to be ground flat. Clarify.

    Response: If the Profile Stripe is being replaced, it shall be ground/eradicated and replaced with new.

19. Question: Will survey and layout of new drainage system be done by the State?

    Response: State will provide baseline station. Contractor shall layout the new drainage system.

20. Question: Can item 421.1000 be changed to Force Account?

    Response: Item 421.1000 will remain as noted in the Proposal

Schedule.

21. Question: Which specialty contractor's license covers the High Friction Surface Treatment?

    Response: Specialty license C-3 or C-3a covers High Friction Surface Treatment.

22. Question: There is a bid item 301.1000 Hot Mix Asphalt Base Course but there are no details or call outs showing where this is located. Please clarify where ACB will be required.

    Response: The Hot Mix Asphalt Base Course item is included to address the potential need to restore the pavement section in areas where the end post connection footings are redone.

23. Question: Since the traffic control plans require portable concrete barriers, will the State consider adding a bid item for this? Does the State have portable concrete barriers that can be used?

    Response: The State has approximately 30 concrete barriers available for use in a first come first serve basis. Provisions for an additional 150 portable concrete barriers have been added to the specifications and proposal schedule.

24. Question: There is no Traffic Control spec Section 645. Please advise.

    Response: Specification Section 645 is added.

25. Question: Bid Item 629.1002 and 629.1003 have the same description. Please clarify which one is correct.

    Response: Item 629.1002 is for White 4-Inch Pavement Striping. Item 629.1003 is for Yellow 4-Inch Pavement Striping

26. Question: Can you please confirm the DBE goal of 16.7% applies to DBE firms only or can it be applied to UDBE firms?

    Response: The 16.7% DBE project goal is correct and applies to all DBE firms. This includes DBE and UDBE firms.

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.

for JADE T. BUTAY
Director of Transportation

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOLULU, HAWAII

SPECIAL PROVISIONS PROPOSAL, CONTRACT, AND BOND

FOR

INTERSTATE ROUTE H-1 SAFETY IMPROVEMENTS
PALAILAI INTERCHANGE TO WAIAWA OVERPASS

FEDERAL-AID PROJECT NO. HSIP-H1-1(270)

DISTRICT OF EWA

ISLAND OF OAHU

FY 2018

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Make this section a part of the Standard Specifications:

"SECTION 103 - AWARD AND EXECUTION OF CONTRACT

103.01 Consideration of Proposals. The Department will compare the proposals in terms of the summation of the products of the approximate quantities and the unit bid prices after the Contracts Officer opens and reads the proposals. The Department will make the results immediately available to the public. If a discrepancy occurs between the unit bid price and the bid price, the unit bid price shall govern.

The "Buy America" provisions in the Surface Transportation Assistance Act of 1982 is applicable to Federal-aid projects. Bidders may submit a bid based upon the furnishing and use of domestic steel or foreign steel. Manufacturing processes for domestic steel shall occur in the United States.

The Department will consider the bid based on furnishing domestic steel.

The Department reserves the right to reject proposals, waive technicalities or advertise for new proposals, if the rejection, waiver, or new advertisement favors the Department.

103.02 Award of Contract. The award of contract, if it be awarded, will be made within 60 calendar days after the opening of bids, to the lowest responsible bidder whose proposal complies with all the requirements. The successful bidder will be notified by letter mailed to the address shown in its proposal, that its proposal has been accepted, and that it has been awarded the contract.

(1) Requirement for Award. To be eligible for award, the apparent low bidder will be contacted to submit copies of the documents listed below to demonstrate compliance with HRS Section 103D-310(c). The documents should be submitted to the Department as soon as possible. If a valid certificate/clearance is not submitted on a timely basis for award of a contract, a bidder otherwise responsive and responsible may not receive the award. See also Subsection 108.03 – Preconstruction Data Submittal.

(A) Tax Clearance. Pursuant to HRS Sections 103D-310(c), 103-53 and 103D-328, the successful bidder shall be required to submit a certified copy of its tax clearance issued by the Hawaii State Department of Taxation (DOTAX) and the Internal Revenue Service (IRS) to demonstrate its compliance with HRS Chapter 237. A tax clearance is valid for six (6) months from the most recent approval stamp date on the tax clearance and must be valid on the bid's first legal advertisement date or any date thereafter up to the bid opening date.

FORM A6, TAX CLEARANCE CERTIFICATE, is available at the following website:

http://www.hawaii.gov/tax/

To receive DOTAX Forms by fax or mail, phone (808) 587-7572 or 1-800-222-7572.

The application for the Tax Clearance Certificate is the responsibility of the bidder and must be submitted directly to the DOTAX or IRS. The approved certificate may then be submitted to the Department.

(B) DLIR Certificate of Compliance. Pursuant to HRS Section 103D-310(c), the successful bidder shall be required to submit a copy (faxed copies are acceptable) of its approved certificate of compliance issued by the Hawaii State Department of Labor and Industrial Relations (DLIR) to demonstrate its compliance with unemployment insurance (HRS Chapter 383), workers' compensation (HRS Chapter 386), temporary disability insurance (HRS Chapter 392), and prepaid health care (HRS Chapter 393). The certificate is valid for six (6) months from the most recent approval stamp date on the certificate and must be valid on the bid's first legal advertisement date or any date thereafter up to the bid opening date. For certificates which receive a "pending" approval stamp, a DLIR approval stamp is required prior to the issuance of the Notice to Proceed.

FORM LIR#27, APPLICATION FOR CERTIFICATE OF COMPLIANCE WITH SECTION 3-122-112, HAR, is available at the following website:

www.hawaii.gov/labor

More information is available by calling the DLIR Unemployment Insurance Division at (808) 586-8926.

Inquiries regarding the status of a LIR#27 Form may be made by calling the DLIR Disability Compensation Division at (808) 586-9200.

The application for the Certificate of Compliance is the responsibility of the bidder and must be submitted directly to the DLIR. The approved certificate may then be submitted to the Department.

(C) DCCA Certificate of Good Standing. Pursuant to HRS Section 103D-310(c), the successful bidder shall be required to submit a copy (faxed copies are acceptable) of its approved Certificate of Good Standing issued by the Hawaii State Department of Commerce and Consumer Affairs (DCCA), Business Registration Division (BREG) to demonstrate that it is either:

(1) Incorporated or organized under the laws of the State; or

(2) Registered to do business in the State as a separate branch or division that is capable of fully performing under the contract.

The Certificate of Good Standing is valid for six (6) months from the approval date on the certificate and must be valid on the bid's first legal advertisement date or any date thereafter up to the bid opening date. A Hawaii business that is a sole proprietorship, however, is not required to register with the BREG, and therefore not required to submit a Certificate of Good Standing. Bidders are advised that there are costs associated with registering and obtaining a Certificate of Good Standing from the DCCA.

To purchase a CERTIFICATE OF GOOD STANDING, go to On-Line Services at the following website:

www.hawaii.gov/dcca/

The application for the Certificate of Good Standing is the responsibility of the bidder and must be submitted directly to the DCCA. The approved certificate may then be submitted to the Department.

(D) Hawaii Compliance Express (HCE). In lieu of the certificates referenced above, the bidder may make available proof of compliance through the Hawaii Compliance Express or any other designated certification process. Bidders may apply and register at the "Hawaii Compliance Express" website:

103.03 Cancellation of Award. The Department reserves the right to cancel the award of contracts before the execution of said contract by the parties. There will be no liability to the awardee and to other bidders.

103.04 Return of Proposal Guaranty. The Department will return the proposal guaranties, except those of the three lowest bidders, after the Department checks the proposals. The Department will return the proposal guaranties of the remaining two lowest bidders not awarded the contract within five working days following the execution of the contract. The Department will return the successful bidder's proposal guaranty after the successful bidder furnishes a bond and executes the contract.

103.05 Requirement of Contract Bond. At the time of execution of the contract, the successful bidder shall file a good and sufficient performance bond and a payment bond on the forms furnished by the Department conditioned for the full and faithful performance of the contract in accordance with the terms and intent thereof and for the prompt payment to all others for all labor and material furnished by them to the bidder and used in the prosecution of the work provided for in the contract. The bonds shall be of an amount equal to 100 percent of the amount of the contract price and include 5 percent of the contract amount estimated to be

required for extra work. The bidder shall limit the acceptable performance and payment bonds to the following:

(a) Legal tender;

(b) Surety bond underwritten by a company licensed to issue bonds in the State of Hawaii; or

(c) A certificate of deposit; share certificate; cashier's check; treasurer's check, teller's check drawn by or a certified check accepted by and payable on demand to the State by a bank savings institution or credit union insured by the Federal Deposit Insurance Corporation (FDIC) or the National Credit Union Administration (NCUA).

1. The bidder may use these instruments only to a maximum of $100,000.

2. If the required security or bond amount totals over $100,000 more than one instrument not exceeding $100,000 each and issued by different financial institutions shall be acceptable.

Such bonds shall also by the terms inure to the benefit of any and all persons entitled to file claims for labor done or material furnished in the work so as to give them a right of action as contemplated by HRS Section 103D-324.

103.06 Execution of the Contract. The contract bond and HRS Chapter 104 - Compliance Certificate, similar to a copy of the same annexed hereto, shall be executed by the successful bidder and returned within ten days after the award of the contract or within such further time as the Director may allow after the bidder has received the contract for execution.

The contract shall not bind the Department unless said parties execute the contract and the Director of Finance endorses the bidder's certificate in accordance with HRS Section 103-39.

103.07 Failure to Execute Contract. Failure to execute the contract and file acceptable bonds shall be cause for the cancellation of the award in accordance with Subsection 103.06 - Execution of the Contract. Also, the Contractor forfeits the proposal guaranty which becomes the property of the Department. This is not a penalty, but liquidated damages sustained by the State. The Department may then make award to the next lowest responsible bidder or the Department may readvertise and construct the work under contract."

END OF SECTION 103

Make the following Section a part of the Standard Specifications:

"SECTION 421 – HIGH FRICTION SURFACE TREATMENT

421.01 Description. This section describes furnishing and applying a high friction surface treatment (HFST) system on a prepared surface as specified and in conformity with the lines and details shown on the plans.

421.02 Materials.

(A) General. Use a two-part modified exothermic epoxy or polymer resin binder treatment containing epoxy or polymer binder capable of retaining a bauxite aggregate topping under vehicle conditions. Reference to epoxy binder herein refer also to polymer binder unless otherwise specified.

(B) Epoxy or Polymer Binder: The epoxy binder shall consist of a thermosetting modified epoxy compound which holds the aggregate firmly in position. The epoxy binder shall meet the requirements in TABLE 421.02-1 EPOXY OR POLYMER BINDER REQUIREMENTS.

TABLE 421.02-1 EPOXY OR POLYMER BINDER

Property	Requirements	Test Method
Ultimate Tensile Strength	2,500 psi min.	ASTM D638
Compressive Strength	1,600 psi min.	ASTM D695
Gel Time	10 minutes min.	ASTM D2471
Water Absorption	Less than 0.50%	ASTM D570
Shore Hardness	65 min.	ASTM D2240
Viscosity	3,000 CPs Max.	ISO 2555
Cure Rate	3 hours max.	Thin Film @ 75 ºF
Mixing Ratio	——— *	n/a

*As recommended by the Manufacturer

Two-part epoxy materials which are not exothermic in curing and do not meet the viscosity requirements will not be allowed. Independent laboratory report documents shall be current, not older than 12 months old, and shall provide documentation that the epoxy binder meets the requirements in this section.

(C) Aggregate Topping: The aggregate topping shall be a calcined bauxite consisting of a 1-3mm gradation. The aggregate will be delivered to the construction site in plastic wrapped bags or super sacks, with Manufacturer's information clearly labeled. Wrapping shall protect from moisture and contamination to maintain aggregates clean, dry, and free from foreign matter. The aggregate shall meet the requirements in TABLE 421.02-2 AGGREGATE REQUIREMENTS.

TABLE 421.02-2 AGGREGATE REQUIREMENTS		
Property	**Requirement**	**Test Methods**
Aggregate Abrasion Value	10% max.	LA Abrasion Test
Moisture Content	0.2% max.	AASHTO T255
Aluminum Oxide	87% min.	ASTM C25
	Sieve Designation	**Requirement**
Aggregate Gradation	No. 6 Sieve Size	95 % min. Passing
	No. 16 Sieve Size	5% max. Passing

(D) Certification. Submit certification from the manufacturer that the aggregate meets the above requirements. Submit documentation of the in-place friction characteristics (minimum 65 FN40R in accordance with ASTM E274) of aggregate bonded to a vehicular bearing surface using the modified epoxy binder. Submit a list of projects with owner contact information on which a minimum of 3,000 square yards of HFST has been placed within the past three years. Records shall show binder, equipment and operator shall be the same as applied in those years as well as it being the same for this project.

(E) Storage of material. Materials shall be stored in accordance to the manufacturer's recommendations.

Safety Data Sheet (SDS), Product Data Sheet, and other information pertaining to the safe practices for the storage, handling, and disposal of the materials, and to their health hazards shall be obtained from the manufacturer and posted at storage areas and shall be submitted to the Engineer.

421.03 Construction.

(A) General: The manufacturer's employed representative shall come to the construction site to train HDOT, Construction Manager, and Contractor personnel prior to surface treatment and shall be present during preparation and application for the first full location. Treatment of cracks and protection of working joints and cracks shall be included.

Do not apply the two part modified epoxy binder on wet surfaces, when the ambient and/or surface temperature is below 40 ºF or above 105º F, or when the anticipated weather conditions would prevent the proper application of the surface treatment as determined by the manufacturer's representative. Conditions include rain within 6 hours of application, or is forecast over 40%. Recommend waiting at least 24 hours after rain before application.

(B) Preparation. Surfaces shall be clean, dry and free of all dust, oil, debris, tar, prior crack treatment etc. and any other material that might interfere with the bond between the epoxy binder material and existing

surface.

Prepare Portland cement concrete surfaces by shot blasting prior to cleaning to remove oils, dirt, rubber, curing compounds, paint carbonation, laitance, weak surface mortar and other potentially detrimental contaminants, which may interfere with the bonding or curing of the surface treatment.

Clean the surfaces by using compressed air (185 cfm min), broom or vacuum to remove all dust and other loose material. Grind any remaining concerned areas. Perform a final blowdown using 185 cfm compressed air. Adequate cleaning of all surfaces will be determined by the manufacturer's employed representative and the Engineer.

Protect utilities, drainage structures, curbs, joints and any other structure within or adjacent to the treatment location against the application of the surface treatment materials.

Remove by grinding all pavement markings that conflict with the surface application and clean with high pressure, broom or vacuum the surface clean followed by a final blowdown using 185 cfm compressed air prior to the epoxy binder application.

Pre-treat joints and cracks, other than Portland cement concrete working joints, as determined by the Engineer greater than 1/4 inches in width and depth with the mixed epoxy specified herein. Treatment of joints and cracks shall be in accordance with the manufacturer's employed representative.

Once the epoxy in the pre-treated areas has gelled, the high friction epoxy binder and aggregate topping installation may proceed. Be attentive to long runs, and gelling can occur faster with warmer temperatures. For Portland cement concrete working joints and "working" cracks, protect joints and cracks from infiltration of the surface treatment.

For application on new underlying and adjacent asphalt pavements, install the high friction epoxy binder and aggregate topping a minimum of 30 days after the placement to reduce the likelihood of tracking. For new Portland cement concrete pavements, install the surface treatment after 30 days of placement have elapsed.

(C) Mixing and Application of Epoxy Binder and Aggregate Wearing Surface. Utilize one of the following methods for application of the epoxy binder and aggregate wearing course, as applicable.

1. Hand mixing and application. Proportion the two-part modified epoxy base binder components, Part A and Part B to the correct ratio as

recommended by the Manufacturer and mix using a low speed, high torque drill fitted with a helical stirrer. The stirrer shall be a Jiffy Mixer or an exact equivalent. Refer to jiffymixer.com for local distributors. Use this method for low volume application areas, such as intersections, areas less than 250 square yards, or where truck mounted machines are not applicable to the specified locations because of logistical restrictions. Manually apply the mixed components onto the prepared pavement surface at a thickness of 60 mil +/- 5 mils. Uniformly spread the hand applied base binder onto the substrate. Immediately, spread the high friction surfacing aggregate onto the two part modified epoxy binder, at a minimum rate of 13 lbs/sy and at a saturation state where no wet spots appear. Ensure leveling of HFST liquid is not disturbed. Check thickness of HFST liquid using a mil gauge.

2. Mechanical mixing and application. Apply the two part modified epoxy base binder by a truck mounted application machine onto the pavement section to be treated across the entire lane width and at a uniform application thickness. Proceed with operations in such a manner that will not allow the epoxy base binder material to separate in the mixing lines, cure, dry, or otherwise impair retention bonding of the high friction surfacing aggregate. Apply the mixed components mechanically onto the prepared pavement surface with a uniform thickness of 60 mil +/- 5 mils onto the pavement surface. Immediately, spread the high friction surfacing aggregate onto the installed two part modified epoxy binder, at a minimum rate of 13 lbs/sy coverage and until saturation such that no wet spots appear. The high friction surfacing aggregate should be mechanically applied across the full lane width in a uniform continuous application within 2 minutes of binder being applied and at a saturation state where no wet spots appear. Aggregate application shall cover the entire area of the epoxy binder application without disturbing the leveling of HFST liquid. Check thickness of HFST liquid using a mil gauge.

3. For either method hand or mechanical, Do not compact aggregate after placement. Completely cover the wet epoxy binder with aggregate to achieve a uniform surface. No exposed wet spots shall be visible once the aggregate is placed. If wet spots are present it is an indicator of insufficient aggregate being applied, add more aggregate to the wet spot immediately upon discovery.

Check thickness of epoxy base binder every 75 linear feet using a mil gauge.

(D) Curing. Allow the binder topped with high friction to cure in accordance with the manufacturer recommendations. Refer to Manufacturer's data/charts for cure times vs temperature. Protect treated surfaces from traffic and environmental effects until the area has cured.

Once cured, remove excess aggregate by broom, mechanical sweeping, or vacuum followed by compressed air (minimum 185 cfm compressor) before opening to traffic. Excess aggregate can be reused for one reuse time only, provided the aggregate is kept clean, dry and free from contaminates. Remove and dispose excess aggregate from project site.

The Engineer may require additional mechanical or vacuum sweeping as necessary after the system fully cures and the treated surface is open to traffic. Broom or vacuum immediately before opening to traffic and a final sweep 7 to 14 days after opening.

(E) Pavement Markings. All pavement markings shall be at the height specified in the Contract Documents measured from the HFST surface.

(F) Additional Signs. Install traffic warning signage “Loose Gravel”, or “Motorcycles Use Caution” or both should conditions require the warning.

(G) Test Strip. At a location chosen by the Engineer install a test strip of the HFST. The test strip shall be done before production installation of the HFST is started. The manufacturer’s employed representative shall be present at the installation of the test strip. The test strip shall use all the personnel, material, equipment, i.e., means and methods the Contractor intends to use during the production of the HFST. The test strip shall demonstrate the Contractor’s ability to do HFST work that meets the requirements of the Contract Documents. The Engineer may reject the test strip or accept it with comments or accept it. Adjust means and methods to address the engineer’s comments, or if considered extra work requiring a contract change order and additional cost or contract time or both inform the Engineer in writing.

Construct a test strip of 50 linear feet long by one lane width of the lanes within the project area. The test strip shall to demonstrate the hand or mechanical **a**pplication method or both if both application method is to be used. In those cases, two test strips shall be constructed. When a mechanical method is used check that the machine has been properly calibrated. Verify application rates and cure time. No HFST production installation shall take place until an acceptable test strip for the method used is installed. The test strip will be part of the HFST quantity of the project when accepted by the Engineer. If the test strip is not found acceptable remove and restore test strip area this shall be at the Contractor’s cost and no additional contract time will be given. Redo the test strip until it is acceptable to the Engineer.

421.04 Measurement. The quantities to be paid for will be the plan quantity, in square yards, completed and accepted. No deduction will be made for the areas occupied by manholes, inlets, drainage structures, pavement markings or by any

public utility appurtenances within the area.

421.05 Payment. The Engineer will pay for the accepted high friction surface treatment at the contract price per square yard as shown on the proposal schedule. All work will be full compensation for the work prescribed in this section and the contract documents.

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

Pay Item	**Pay Unit**
High Friction Surface Treatment (with Modified Epoxy Binder or Equivalent)	Square Yard”

END OF SECTION 421

SECTION 645 – WORK ZONE TRAFFIC CONTROL

Make the following amendments to said Section:

(I) Amend the second paragraph of **645.03 – Construction** by deleting the second sentence in Lines 65 and 66 and adding the following:

"Furnish two police officers for each location that requires lane closure. Furnish one police officer for each location that requires shoulder closure. If TCP is included in the contract documents, furnish these quantities or number of police officers indicated in TCP, whichever is greater."

(II) Amend **645.03(F) – Lane Closures** from lines 248 to 252 to read as follows:

"**(F) Lane Closures.** Lane closures will be allowed only during the following hours. Exceptions to lane closure hours specified require written acceptance by the Engineer. No increase in contract price or contract time will be given for lane closure restrictions specified.

(1) Work not requiring lane closures. Contractor may perform work not requiring lane closures during day-time working hours of 8:30 a.m. to 3:00 p.m., Monday through Friday.

(2) Nighttime work maintaining three (3) through lanes. Nighttime lane closures that maintain a minimum of three (3) through lanes in a particular direction (i.e., eastbound or westbound) from Kunia Interchange to Waiawa Overpass will be allowed during the following hours:

Sunday to Thursday	8:30 p.m. to Midnight
Monday to Friday	Midnight to 4:00 a.m.

(3) Nighttime work maintaining two (2) through lanes. Nighttime lane closures that maintain a minimum of two (2) through lanes in a particular direction (i.e., eastbound or westbound) from Palailai Interchange to Kunia Interchange will be allowed during the following hours:

Sunday to Thursday	8:30 p.m. to Midnight
Monday to Friday	Midnight to 4:00 a.m.

Nighttime lane closures that maintain a minimum of two (2) through lanes in the eastbound direction from Kunia

Interchange to Waiawa Overpass will be allowed during the following hours:

Sunday to Thursday	8:30 p.m. to Midnight
Monday to Friday	Midnight to 3:30 a.m.

Nighttime lane closures that maintain a minimum of two (2) through lanes in the westbound direction from Kunia Interchange to Waiawa Overpass will be allowed during the following hours:

Sunday to Thursday	11:30 p.m. to Midnight
Monday to Friday	Midnight to 4:00 a.m.

(4) Nighttime work maintaining one (1) through lane. Nighttime lane closures that maintain a minimum of one (1) through lane in a particular direction (i.e., eastbound or westbound) will only be allowed between Palailai Interchange and Kunia Interchange.

Nighttime lane closures that maintain a minimum of one (1) through lane in the eastbound direction from Palailai Interchange to Kunia Interchange will be allowed during the following hours:

Sunday to Thursday	8:30 p.m. to Midnight
Monday to Friday	Midnight to 3:30 a.m.

Nighttime lane closures that maintain a minimum of one (1) through lane in the westbound direction from Palailai Interchange to Kunia Interchange will be allowed during the following hours:

Sunday to Thursday	11:30 p.m. to Midnight
Monday to Friday	Midnight to 4:00 a.m.

The Contractor may request to close Eastbound and Westbound lanes simultaneously for Items (2) and (3) above. Obtain the Engineer's acceptance prior to implementing lane closures in both directions.

Full freeway lane closures in one or both directions will not be allowed"

(III) Amend **645.03(F) – Lane Closures** line 260 to read as follows:

"**(2)** Holidays (Midnight to 8 p.m.)."

(IV) Amend **645.03(F) – Lane Closures** from lines 276 to 279 to read as follows:

"See Subsection 107.03 – Working Hours; Night Work for description of Noise Variance hours, noise control conditions, and restrictions during weekend and night work.

At the Director's discretion, with a one week prior notification to the Contractor, work may be suspended to allow traffic to flow freely during major public events, such as concerts, parades, sporting events, etc. The Contractor will not be compensated but the Contractor's Roadway Completion Time and/or Contract Time will be adjusted accordingly.

The Director may also suspend work at any time due to unforeseen circumstances that occur within the immediate vicinity that may disrupt the traffic on the freeway and/or alternate routes or in times of emergencies. The Contractor will be compensated for work performed up to the time of the suspension and Contractor's Roadway Completion Time and/or Contract Time will be adjusted accordingly."

END OF SECTION 645

Make the following Section a part of the Standard Specifications:

SECTION 695 - TEMPORARY PORTABLE CONCRETE BARRIER

695.01 Description. This section is for furnishing, installing, maintaining, relocating, and subsequently removing portable concrete barriers and inertial barrier systems in accordance with the contract documents

695.02 Materials. Materials shall meet the requirements specified in the following subsections of Division 700 - Materials.

Reinforcing Steel	709.01
Structural Steel	713.01
Standard Fasteners	718.01
Reflector Marker	750.07
Preformed Pavement Marking Tape	755.04

695.03 Construction Requirements.

(A) Portable Concrete Barriers.

(1) Fabrication. Construct the portable concrete barriers in accordance with the contract and as modified herein. The barriers shall be in 20 - foot segments. Prior to fabrication of the portable concrete barrier, submit detailed shop drawings to the Engineer for acceptance.

(a) Forms. Forms shall be in accordance with Section 503 - Concrete Structures.

(b) Placing Concrete. Moisten the form thoroughly immediately prior to the placing of the concrete. Place the concrete in accordance with Section 503 - Concrete Structures.

(c) Curing. Steam or water-cure the portable concrete barriers in accordance with Subsection 504.03(G) - Curing.

(d) Handling. Do not handle the portable concrete barriers until the concrete has attained a compressive strength of more than 3,000 pounds per square inch. Use

the lifting holes to hoist the portable concrete barrier. Repair or replace units damaged by improper handling at no increase in contract price or contract time. The Engineer will permit stacking of precast units with prior acceptance by the Engineer of the method to be employed by the Contractor.

(e) Accessories. Furnish and install one RM-2 reflector marker on top of the concrete barrier and a longitudinal 4-inch by 20 feet permanent preformed pavement marking tape, Type I (color to match appropriate roadway pavement stripe) on the sloped side of the barrier facing traffic on each section.

(2) Transport. Transport the portable concrete barriers in accordance with the contract documents or as directed by the Engineer.

(3) Installation. Erect all units as shown in the contract documents or as specified by the Engineer. The minimum amount of each erected concrete barrier system shall be five (5) units. Set the units in a vertical position, closely following the roadway grade. The units shall have a maximum of 1/4-inch offset in any direction between adjacent panels at the connections. Horizontal alignment of the panels shall be such that any panel is not out of alignment by more than 1/2-inch from straight line. Furnish and install steel pins for connecting the barrier sections according to the contract.

Furnish and install markers, lamps, and permanent preformed pavement marking tape in accordance with the contract documents.

(4) Relocation. Relocate any units or existing barriers during construction at the locations shown in the contract documents or as ordered by the Engineer.

(5) Ownership. Upon completion of the project, the portable concrete barriers shall become the property of the State.

(6) Removal. Remove, transport, and place portable concrete barriers to the area designated in the contract documents or as directed by the Engineer upon completion of the project.

The cleaning and repair of the temporary portable concrete barriers shall be performed regardless of cause, such as ‘wear and tear’ or improper handling by the Contractor during use. The amount of repair shall be replacement of all damaged portions of

the unit back to its original configuration. A unit damaged, in the judgment of the Engineer, that is considered irreparable shall be replaced with a new unit at no increase in contract price or contract time. All units will be inspected and found acceptable by the Engineer before returning it to the area designated in the contract documents or as directed by the Engineer.

(B) Portable Concrete Barrier End Treatment

(1) The portable concrete barrier end treatment shall be an energy-absorbing terminal. It shall meet NCHRP Report 350, Test Level 3 criteria, as accepted by the Federal Highways Administration. Submit a brochure, technical manual and FHWA approval letter of the product to be used for acceptance by the Engineer prior to ordering the end treatment.

(2) When required, the portable concrete barrier end treatment shall be designed for easy attachment to and removal from the end of the concrete barrier. The nose of the system shall be equipped with a chevron sign, which shall be reversible to match the corresponding traffic direction.

(3) Installation and use of the end treatment must be consistent with shyline and placement guidelines specified in the current edition of the AASHTO Roadside Design Guide.

(4) Provide and install a NCHRP 350 compliant end treatment compatible with the portable concrete barriers. When required, the end treatment shall be attached and installed in compliance with the manufacturers instructions. Provide three copies of the maintenance and operational manual for the end treatments along with an instructional class for State Maintenance personnel on the installation and removal of the end treatment.

(5) Haul the portable concrete barrier end treatment to the jobsite. Prepare the beds and set the portable concrete barrier end treatment at a location shown in the contract documents or as directed by the Engineer.

(6) Furnish, install, and maintain steel pins for connecting the portable concrete barrier end treatment to the unit.

(7) Furnish and install one crash cushion object marker (CCOM) on each portable concrete barrier end treatment nose.

(8) Relocate the portable concrete barrier end treatment during construction at the locations shown in the contract documents or as ordered by the Engineer.

(9) The portable concrete barrier end treatment shall be the property of the Contractor after project completion.

(C) Type II Barricades with Lamps. Furnish, install, maintain and remove at the end of the project or as directed by the Engineer Type II Barricades with lamps as channelizing devices. Spacing shall be in accordance with the requirements of MUTCD part 6. Their position shall comply with MUTCD Typical Application 5, found in part 6.

695.04 Method of Measurement. The Engineer will measure portable concrete barrier and portable concrete barrier end treatment per each. The Engineer may delete any quantity of the proposed portable concrete barrier and portable concrete barrier end treatment without compensating the Contractor with any overhead costs for the deleted quantity.

The engineer will not measure Type II Barricades with Lamps for payment.

695.05 Basis of 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 the portable concrete barriers and portable concrete barrier end treatment at the contract unit price per each complete in place. The price includes delivery, installing physical barrier; anchoring; furnishing and installing the barrier; installation and maintenance of steady burn lanterns (including regular battery and bulb changes), reflector markers, and object markers; Type II Barricades with Lamps; connecting panel pieces together; relocating, resetting and final delivery of portable concrete barriers to a location designated by the Engineer upon completion of the work; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

The Engineer will pay for each of the following pay item when included in the proposal schedule.

Pay Item	**Pay Unit**
Furnish, Transport, Install, Maintain, Relocate, and Remove Portable Concrete Barrier	Each

Portable Concrete Barrier End Treatment
(NCHRP 350 Compliant) Each”

END OF SECTION 695

General Decision Number: HI180001 11/02/2018 HI1

Superseded General Decision Number: HI20170001

State: Hawaii

Construction Types: Building, Heavy (Heavy and Dredging), Highway and Residential

Counties: Hawaii Statewide.

BUILDING CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories); HEAVY AND HIGHWAY CONSTRUCTION PROJECTS AND DREDGING

Note: Under Executive Order (EO) 13658, an hourly minimum wage of $10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least $10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2018
1	01/26/2018
2	02/23/2018
3	03/09/2018
4	04/27/2018
5	07/06/2018
6	07/20/2018
7	08/03/2018
8	08/24/2018
9	08/31/2018
10	09/07/2018
11	09/28/2018
12	10/05/2018
13	10/26/2018
14	11/02/2018

ASBE0132-001 08/31/2015

	Rates	Fringes
Asbestos Workers/Insulator Includes application of all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems. Also the application of firestopping material for wall openings and penetrations in walls, floors, ceilings and curtain walls	$ 39.65	23.50

BOIL0627-005 01/01/2013

	Rates	Fringes
BOILERMAKER	$ 35.20	27.35

* BRHI0001-001 09/04/2017

	Rates	Fringes

BRICKLAYER

	Rates	Fringes
Bricklayers and Stonemasons	$ 39.76	28.12
Pointers, Caulkers and Weatherproofers	$ 40.01	28.12

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* BRHI0001-002 09/04/2017

	Rates	Fringes
Tile, Marble & Terrazzo Worker		
Terrazzo Base Grinders	$ 39.14	28.12
Terrazzo Floor Grinders and Tenders	$ 37.59	28.12
Tile, Marble and Terrazzo Workers	$ 40.95	28.12

CARP0745-001 09/03/2018

	Rates	Fringes
Carpenters:		
Carpenters; Hardwood Floor Layers; Patent Scaffold Erectors (14 ft. and over); Piledrivers; Pneumatic Nailers; Wood Shinglers and Transit and/or Layout Man	$ 49.45	21.75
Millwrights and Machine Erectors	$ 49.70	21.75
Power Saw Operators (2 h.p. and over)	$ 49.60	21.75

CARP0745-002 09/03/2018

	Rates	Fringes
Drywall and Acoustical Workers and Lathers	$ 49.70	21.75

ELEC1186-001 08/26/2018

	Rates	Fringes
Electricians:		
Cable Splicers	$ 54.78	29.20
Electricians	$ 49.80	27.85
Telecommunication worker	$ 28.44	11.94

ELEC1186-002 08/26/2018

	Rates	Fringes
Line Construction:		
Cable Splicers	$ 54.78	29.20
Groundmen/Truck Drivers	$ 37.35	24.48
Heavy Equipment Operators	$ 44.82	26.49
Linemen	$ 49.80	27.85
Telecommunication worker	$ 28.44	11.94

ELEV0126-001 01/01/2018

	Rates	Fringes
ELEVATOR MECHANIC	$ 57.36	32.65

a. VACATION: Employer contributes 8% of basic hourly rate for 5 years service and 6% of basic hourly rate for 6 months to 5 years service as vacation pay credit.

b. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day and Christmas Day.

ENGI0003-002 09/03/2018

	Rates	Fringes
Diver (Aqua Lung) (Scuba))		

Diver (Aqua Lung) (Scuba) (over a depth of 30 feet)	$ 66.00	31.26
Diver (Aqua Lung) (Scuba) (up to a depth of 30 feet)	$ 56.63	31.26
Stand-by Diver (Aqua Lung) (Scuba)	$ 47.25	31.26
Diver (Other than Aqua Lung)		
Diver (Other than Aqua Lung)	$ 66.00	31.26
Diver Tender (Other than Aqua Lung)	$ 44.22	31.26
Stand-by Diver (Other than Aqua Lung)	$ 47.25	31.26
Helicopter Work		
Airborne Hoist Operator for Helicopter	$ 45.80	31.26
Co-Pilot of Helicopter	$ 45.98	31.26
Pilot of Helicopter	$ 46.11	31.26
Power equipment operator - tunnel work		
GROUP 1	$ 42.24	31.26
GROUP 2	$ 42.35	31.26
GROUP 3	$ 42.52	31.26
GROUP 4	$ 42.79	31.26
GROUP 5	$ 43.10	31.26
GROUP 6	$ 43.75	31.26
GROUP 7	$ 44.07	31.26
GROUP 8	$ 44.18	31.26
GROUP 9	$ 44.29	31.26
GROUP 9A	$ 44.52	31.26
GROUP 10	$ 44.58	31.26
GROUP 10A	$ 44.73	31.26
GROUP 11	$ 44.88	31.26
GROUP 12	$ 45.24	31.26
GROUP 12A	$ 45.60	31.26
Power equipment operators:		
GROUP 1	$ 41.94	31.26
GROUP 2	$ 42.05	31.26
GROUP 3	$ 42.22	31.26
GROUP 4	$ 42.49	31.26
GROUP 5	$ 42.80	31.26
GROUP 6	$ 43.45	31.26
GROUP 7	$ 43.77	31.26
GROUP 8	$ 43.88	31.26
GROUP 9	$ 43.99	31.26
GROUP 9A	$ 44.22	31.26
GROUP 10	$ 44.28	31.26
GROUP 10A	$ 44.43	31.26
GROUP 11	$ 44.58	31.26
GROUP 12	$ 44.94	31.26
GROUP 12A	$ 45.30	31.26
GROUP 13	$ 42.22	31.26
GROUP 13A	$ 42.49	31.26
GROUP 13B	$ 42.80	31.26
GROUP 13C	$ 43.45	31.26
GROUP 13D	$ 43.77	31.26
GROUP 13E	$ 43.88	31.26

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Fork Lift (up to and including 10 tons); Partsman (heavy duty repair shop parts room when needed).

GROUP 2: Conveyor Operator (Handling building material); Hydraulic Monitor; Mixer Box Operator (Concrete Plant).

GROUP 3: Brakeman; Deckhand; Fireman; Oiler; Oiler/Gradechecker; Signalman; Switchman; Highline Cableway Signalman; Bargeman; Bunkerman; Concrete Curing Machine (self-propelled, automatically applied unit on streets, highways, airports and canals); Leveeman; Roller (5 tons and under); Tugger Hoist.

GROUP 4: Boom Truck or dual purpose "A" Frame Truck (5 tons or less); Concrete Placing Boom (Building Construction); Dinky Operator; Elevator Operator; Hoist and/or Winch (one drum); Straddle Truck (Ross Carrier, Hyster and similar).

GROUP 5: Asphalt Plant Fireman; Compressors, Pumps, Generators and Welding Machines ("Bank" of 9 or more, individually or collectively); Concrete Pumps or Pumpcrete

Guns; Lubrication and Service Engineer (Grease Rack); Screedman.

GROUP 6: Boom Truck or Dual Purpose "A"Frame Truck (over 5 tons); Combination Loader/Backhoe (up to and including 3/4 cu. yd.); Concrete Batch Plants (wet or dry); Concrete Cutter, Groover and/or Grinder (self-propelled unit on streets, highways, airports, and canals); Conveyor or Concrete Pump (Truck or Equipment Mounted); Drilling Machinery (not to apply to waterliners, wagon drills or jack hammers); Fork Lift (over 10 tons); Loader (up to and including 3 and 1/2 cu. yds); Lull High Lift (under 40 feet); Lubrication and Service Engineer (Mobile); Maginnis Internal Full Slab Vibrator (on airports, highways, canals and warehouses); Man or Material Hoist; Mechanical Concrete Finisher (Large Clary, Johnson Bidwell, Bridge Deck and similar); Mobile Truck Crane Driver; Portable Shotblast Concrete Cleaning Machine; Portable Boring Machine (under streets, highways, etc.); Portable Crusher; Power Jumbo Operator (setting slip forms, etc., in tunnels); Rollers (over 5 tons); Self-propelled Compactor (single engine); Self-propelled Pavement Breaker; Skidsteer Loader with attachments; Slip Form Pumps (Power driven by hydraulic, electric, air, gas, etc., lifting device for concrete forms); Small Rubber Tired Tractors; Trencher (up to and including 6 feet); Underbridge Personnel Aerial Platform (50 feet of platform or less).

GROUP 7: Crusher Plant Engineer, Dozer (D-4, Case 450, John Deere 450, and similar); Dual Drum Mixer, Extend Lift; Hoist and/or Winch (2 drums); Loader (over 3 and 1/2 cu. yds. up to and including 6 yards.); Mechanical Finisher or Spreader Machine (asphalt), (Barber Greene and similar) (Screedman required); Mine or Shaft Hoist; Mobile Concrete Mixer (over 5 tons); Pipe Bending Machine (pipelines only); Pipe Cleaning Machine (tractor propelled and supported); Pipe Wrapping Machine (tractor propelled and supported); Roller Operator (Asphalt); Self-Propelled Elevating Grade Plane; Slusher Operator; Tractor (with boom) (D-6, or similar); Trencher (over 6 feet and less than 200 h.p.); Water Tanker (pulled by Euclids, T-Pulls, DW-10, 20 or 21, or similar); Winchman (Stern Winch on Dredge).

GROUP 8: Asphalt Plant Operator; Barge Mate (Seagoing); Cast-in-Place Pipe Laying Machine; Concrete Batch Plant (multiple units); Conveyor Operator (tunnel); Deckmate; Dozer (D-6 and similar); Finishing Machine Operator (airports and highways); Gradesetter; Kolman Loader (and similar); Mucking Machine (Crawler-type); Mucking Machine (Conveyor-type); No-Joint Pipe Laying Machine; Portable Crushing and Screening Plant; Power Blade Operator (under 12); Saurman Type Dragline (up to and including 5 yds.); Stationary Pipe Wrapping, Cleaning and Bending Machine; Surface Heater and Planer Operator, Tractor (D-6 and similar); Tri-Batch Paver; Tunnel Badger; Tunnel Mole and/or Boring Machine Operator Underbridge Personnel Aerial Platform (over 50 feet of platform).

GROUP 9: Combination Mixer and Compressor (gunite); Do-Mor Loaderand Adams Elegrader; Dozer (D-7 or equal); Wheel and/or Ladder Trencher (over 6 feet and 200 to 749 h.p.).

GROUP 9A: Dozer (D-8 and similar); Gradesetter (when required by the Contractor to work from drawings, plans or specifications without the direct supervision of a foreman or superintendent); Push Cat; Scrapers (up to and including 20 cu. yds); Self-propelled Compactor with Dozer; Self-Propelled, Rubber-Tired Earthmoving Equipment (up to and including 20 cu. yds) (621 Band and similar); Sheep's Foot; Tractor (D-8 and similar); Tractors with boom (larger than D-6, and similar).

GROUP 10: Chicago Boom; Cold Planers; Heavy Duty Repairman or Welder; Hoist and/or Winch (3 drums); Hydraulic Skooper (Koehring and similar); Loader (over 6 cu. yds. up to and including 12 cu. yds.); Saurman type Dragline (over 5 cu. yds.); Self-propelled, rubber-tired Earthmoving Equipment (over 20 cu. yds. up to and including 31 cu. yds.) (637D and similar); Soil Stabilizer (P & H or equal); Sub-Grader (Gurries or other automatic type); Tractors (D-9 or equivalent, all attachments); Tractor (Tandem Scraper);

Watch Engineer.

GROUP 10A: Boat Operator; Cable-operated Crawler Crane (up to and including 25 tons); Cable-operated Power Shovel, Clamshell, Dragline and Backhoe (up to and including 1 cu. yd.); Dozer D9-L; Dozer (D-10, HD41 and similar) (all attachments); Gradall (up to and including 1 cu. yd.); Hydraulic Backhoe (over 3/4 cu. yds. up to and including 2 cu. yds.); Mobile Truck Crane Operator (up to and including 25 tons) (Mobile Truck Crane Driver Required); Self-propelled Boom Type Lifting Device (Center Mount) (up to and including 25 tons) (Grove, Drott, P&H, Pettibone and similar; Trencher (over 6 feet and 750 h.p. or more); Watch Engineer (steam or electric).

GROUP 11: Automatic Slip Form Paver (concrete or asphalt); Band Wagon (in conjunction with Wheel Excavator); Cable-operated Crawler Cranes (over 25 tons but less than 50 tons); Cable-operated Power Shovel, Clamshell, Dragline and Backhoe (over 1 cu. yd. up to 7 cu. yds.); Gradall (over 1 cu. yds. up to 7 cu. yds.); DW-10, 20, etc. (Tandem); Earthmoving Machines (multiple propulsion power units and 2 or more Scrapers) (up to and including 35 cu. yds.," struck" m.r.c.); Highline Cableway; Hydraulic Backhoe (over 2 cu. yds. up to and including 4 cu. yds.); Leverman; Lift Slab Machine; Loader (over 12 cu. yds); Master Boat Operator; Mobile Truck Crane Operator (over 25 tons but less than 50 tons); (Mobile Truck Crane Driver required); Pre-stress Wire Wrapping Machine; Self-propelled Boom-type Lifting Device (Center Mount) (over 25 tons m.r.c); Self-propelled Compactor (with multiple-propulsion power units); Single Engine Rubber Tired Earthmoving Machine (with Tandem Scraper); Tandem Cats; Trencher (pulling attached shield).

GROUP 12: Clamshell or Dipper Operator; Derricks; Drill Rigs; Multi-Propulsion Earthmoving Machines (2 or more Scrapers) (over 35 cu. yds "struck"m.r.c.); Operators (Derricks, Piledrivers and Cranes); Power Shovels and Draglines (7 cu. yds. m.r.c. and over); Self-propelled rubber-tired Earthmoving equipment (over 31 cu. yds.) (657B and similar); Wheel Excavator (up to and including 750 cu. yds. per hour); Wheel Excavator (over 750 cu. yds. per hour).

GROUP 12A: Dozer (D-11 or similar or larger); Hydraulic Excavators (over 4 cu. yds.); Lifting cranes (50 tons and over); Pioneering Dozer/Backhoe (initial clearing and excavation for the purpose of providing access for other equipment where the terrain worked involves 1-to-1 slopes that are 50 feet in height or depth, the scope of this work does not include normal clearing and grubbing on usual hilly terrain nor the excavation work once the access is provided); Power Blade Operator (Cat 12 or equivalent or over); Straddle Lifts (over 50 tons); Tower Crane, Mobile; Traveling Truss Cranes; Universal, Liebher, Linden, and similar types of Tower Cranes (in the erection, dismantling, and moving of equipment there shall be an additional Operating Engineer or Heavy Duty Repairman); Yo-Yo Cat or Dozer.

GROUP 13: Truck Driver (Utility, Flatbed, etc.)

GROUP 13A: Dump Truck, 8 cu.yds. and under (water level); Water Truck (up to and including 2,000 gallons).

GROUP 13B: Water Truck (over 2,000 gallons); Tandem Dump Truck, over 8 cu. yds. (water level).

GROUP 13C: Truck Driver (Semi-trailer. Rock Cans, Semi-Dump or Roll-Offs).

GROUP 13D: Truck Driver (Slip-In or Pup).

GROUP 13E: End Dumps, Unlicensed (Euclid, Mack, Caterpillar or similar); Tractor Trailer (Hauling Equipment); Tandem Trucks hooked up to Trailer (Hauling Equipment)

BOOMS AND/OR LEADS (HOURLY PREMIUMS):

The Operator of a crane (under 50 tons) with a boom of 80

feet or more (including jib), or of a crane (under 50 tons) with leads of 100 feet or more, shall receive a per hour premium for each hour worked on said crane (under 50 tons) in accordance with the following schedule:

Booms of 80 feet up to but not including 130 feet or Leads of 100 feet up to but not including 130 feet	0.50
Booms and/or Leads of 130 feet up to but not including 180 feet	0.75
Booms and/or Leads of 180 feet up to and including 250 feet	1.15
Booms and/or Leads over 250 feet	1.50

The Operator of a crane (50 tons and over) with a boom of 180 feet or more (including jib) shall receive a per hour premium for each hour worked on said crane (50 tons and over) in accordance with the following schedule:

Booms of 180 feet up to and including 250 feet	1.25
Booms over 250 feet	1.75

ENGI0003-004 09/04/2017

	Rates	Fringes
Dredging: (Boat Operators)		
Boat Deckhand	$ 41.22	30.93
Boat Operator	$ 43.43	30.93
Master Boat Operator	$ 43.58	30.93
Dredging: (Clamshell or Dipper Dredging)		
GROUP 1	$ 43.94	30.93
GROUP 2	$ 43.28	30.93
GROUP 3	$ 42.88	30.93
GROUP 4	$ 41.22	30.93
Dredging: (Derricks)		
GROUP 1	$ 43.94	30.93
GROUP 2	$ 43.28	30.93
GROUP 3	$ 42.88	30.93
GROUP 4	$ 41.22	30.93
Dredging: (Hydraulic Suction Dredges)		
GROUP 1	$ 43.58	30.93
GROUP 2	$ 43.43	30.93
GROUP 3	$ 43.28	30.93
GROUP 4	$ 43.22	30.93
GROUP 5	$ 37.88	26.76
Group 5	$ 42.88	30.93
GROUP 6	$ 37.77	26.76
Group 6	$ 42.77	30.93
GROUP 7	$ 36.22	26.76
Group 7	$ 41.22	30.93

CLAMSHELL OR DIPPER DREDGING CLASSIFICATIONS

GROUP 1: Clamshell or Dipper Operator.
GROUP 2: Mechanic or Welder; Watch Engineer.
GROUP 3: Barge Mate; Deckmate.
GROUP 4: Bargeman; Deckhand; Fireman; Oiler.

HYDRAULIC SUCTION DREDGING CLASSIFICATIONS

GROUP 1: Leverman.
GROUP 2: Watch Engineer (steam or electric).
GROUP 3: Mechanic or Welder.
GROUP 4: Dozer Operator.
GROUP 5: Deckmate.
GROUP 6: Winchman (Stern Winch on Dredge)
GROUP 7: Deckhand (can operate anchor scow under direction of Deckmate); Fireman; Leveeman; Oiler.

DERRICK CLASSIFICATIONS

GROUP 1: Operators (Derricks, Piledrivers and Cranes).
GROUP 2: Saurman Type Dragline (over 5 cubic yards).
GROUP 3: Deckmate; Saurman Type Dragline (up to and including 5 yards).

GROUP 4: Deckhand, Fireman, Oiler.

ENGI0003-044 09/03/2018

	Rates	Fringes
Power Equipment Operators (PAVING)		
Asphalt Concrete Material Transfer	$ 42.92	32.08
Asphalt Plant Operator	$ 43.35	32.08
Asphalt Raker	$ 41.96	32.08
Asphalt Spreader Operator	$ 43.44	32.08
Cold Planer	$ 43.75	32.08
Combination Loader/Backhoe (over 3/4 cu.yd.)	$ 41.96	32.08
Combination Loader/Backhoe (up to 3/4 cu.yd.)	$ 40.98	32.08
Concrete Saws and/or Grinder (self-propelled unit on streets, highways, airports and canals)	$ 42.92	32.08
Grader	$ 43.75	32.08
Laborer, Hand Roller	$ 41.46	32.08
Loader (2 1/2 cu. yds. and under)	$ 42.92	32.08
Loader (over 2 1/2 cu. yds. to and including 5 cu. yds.)	$ 43.24	32.08
Roller Operator (five tons and under)	$ 41.69	32.08
Roller Operator (over five tons)	$ 43.12	32.08
Screed Person	$ 42.92	32.08
Soil Stabilizer	$ 43.75	32.08

IRON0625-001 09/01/2018

	Rates	Fringes
Ironworkers:	$ 40.25	35.79

a. Employees will be paid $.50 per hour more while working in tunnels and coffer dams; $1.00 per hour more when required to work under or are covered with water (submerged) and when they are required to work on the summit of Mauna Kea, Mauna Loa or Haleakala.

LABO0368-001 09/03/2018

	Rates	Fringes
Laborers:		
Driller	$ 38.40	20.26
Final Clean Up	$ 28.80	16.12
Gunite/Shotcrete Operator and High Scaler	$ 37.90	20.26
Laborer I	$ 37.40	20.26
Laborer II	$ 34.80	20.26
Mason Tender/Hod Carrier	$ 37.90	20.26
Powderman	$ 38.40	20.26
Window Washer (bosun chair)	$ 36.90	20.26

LABORERS CLASSIFICATIONS

Laborer I: Air Blasting run by electric or pneumatic compressor; Asphalt Laborer, Ironer, Raker, Luteman, and Handroller, and all types of Asphalt Spreader Boxes; Asphalt Shoveler; Assembly and Installation of Multiplates, Liner Plates, Rings, Mesh, Mats; Batching Plant (portable and temporary); Boring Machine Operator (under streets and sidewalks); Buggymobile; Burning and Welding; Chainsaw, Faller, Logloader, and Bucker; Compactors (Jackson Jumping Jack and similar); Concrete Bucket Dumpman; Concrete Chipping; Concrete Chuteman/Hoseman (pouring concrete) (the handling of the chute from ready-mix trucks for such jobs as walls, slabs, decks, floors, foundations, footings, curbs, gutters, and sidewalks); Concrete Core Cutter (Walls, Floors, and Ceiling); Concrete Grinding or Sanding; Concrete: Hooking on, signaling, dumping of concrete for treme work over water on caissons, pilings, abutments,

etc.; Concrete: Mixing, handling, conveying, pouring, vibrating, otherwise placing of concrete or aggregates or by any other process; Concrete: Operation of motorized wheelbarrows or buggies or machines of similar character, whether run by gas, diesel, or electric power; Concrete Placement Machine Operator: operation of Somero Hammerhead, Copperheads, or similar machines; Concrete Pump Machine (laying, coupling, uncoupling of all connections and cleaning of equipment); Concrete and/or Asphalt Saw (Walking or Handtype) (cutting walls or flatwork) (scoring old or new concrete and/or asphalt) (cutting for expansion joints) (streets and ways for laying of pipe, cable or conduit for all purposes); Concrete Shovelers/Laborers (Wet or Dry); Concrete Screeding for Rough Strike-Off: Rodding or striking-off, by hand or mechanical means prior to finishing; Concrete Vibrator Operator; Coring Holes: Walls, footings, piers or other obstructions for passage of pipes or conduits for any purpose and the pouring of concrete to secure the hole; Cribbers, Shorer, Lagging, Sheeting, and Trench Jacking and Bracing, Hand-Guided Lagging Hammer Whaling Bracing; Curbing (Concrete and Asphalt); Curing of Concrete (impervious membrane and form oiler) mortar and other materials by any mode or method; Cut Granite Curb Setter (setting, leveling and grouting of all precast concrete or stone curbs); Cutting and Burning Torch (demolition); Dri Pak-It Machine; Environmental Abatement: removal of asbestos, lead, and bio hazardous materials (EPA and/or OSHA certified); Falling, bucking, yarding, loading or burning of all trees or timber on construction site; Forklift (9 ft. and under); Gas, Pneumatic, and Electric tools; Grating and Grill work for drains or other purposes; Green Cutter of concrete or aggregate in any form, by hand, mechanical means, grindstone or air and/or water; Grout: Spreading for any purpose; Guinea Chaser (Grade Checker) for general utility trenches, sitework, and excavation; Headerboard Man (Asphalt or Concrete); Heat Welder of Plastic (Laborers' AGC certified workers) (when work involves waterproofing for waterponds, artificial lakes and reservoir) heat welding for sewer pipes and fusion of HDPE pipes; Heavy Highway Laborer (Rigging, signaling, handling, and installation of pre-cast catch basins, manholes, curbs and gutters); High Pressure Nozzleman - Hydraulic Monitor (over 100# pressure); Jackhammer Operator; Jacking of slip forms: All semi and unskilled work connected therewithin; Laying of all multi-cell conduit or multi-purpose pipe; Magnesite and Mastic Workers (Wet or Dry)(including mixer operator);Mortar Man; Mortar Mixer (Block, Brick, Masonry, and Plastering); Nozzleman (Sandblasting and/or Water Blasting): handling, placing and operation of nozzle; Operation, Manual or Hydraulic jacking of shields and the use of such other mechanical equipment as may be necessary; Pavement Breakers; Paving, curbing and surfacing of streets, ways, courts, under and overpasses, bridges, approaches, slope walls, and all other labor connected therewith; Pilecutters; Pipe Accessment in place, bolting and lining up of sectional metal or other pipe including corrugated pipe; Pipelayer performing all services in the laying and installation of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, HDPE, metallic or non-metallic, conduit, and any other stationary-type of tubular device used for conveying of any substance or element, whether water, sewage, solid, gas, air, or other product whatsoever and without regard to the nature of material from which tubular material is fabricated; No-joint pipe and stripping of same, Pipewrapper, Caulker, Bander, Kettlemen, and men applying asphalt, Laykold, treating Creosote and similar-type materials (6-inch) pipe and over); Piping: resurfacing and paving of all ditches in preparation for laying of all pipes; Pipe laying of lateral sewer pipe from main or side sewer to buildings or structure (except Contactor may direct work be done under proper supervision); Pipe laying, leveling and marking of the joint used for main or side sewers and storm sewers; Laying of all clay, terra cotta, ironstone, vitrified concrete, HDPE or other pipe for drainage; Placing and setting of water mains, gas mains and all pipe including removal of skids; Plaster Mortar Mixer/Pump; Pneumatic Impact Wrench; Portable Sawmill Operation: Choker setters, off bearers, and lumber handlers connected with clearing; Posthole Digger (Hand Held, Gas,

Air and Electric); Powderman's Tender; Power Broom Sweepers (Small); Preparation and Compaction of roadbeds for railroad track laying, highway construction, and the preparation of trenches, footings, etc., for cross-country transmission by pipelines, electrical transmission or underground lines or cables (by mechanical means); Raising of structure by manual or hydraulic jacks or other methods and resetting of structure in new locations, including all concrete work; Ramming or compaction; Rigging in connection with Laborers' work (except demolition), Signaling (including the use of walkie talkie) Choke Setting, tag line usage; Tagging and Signaling of building materials into high rise units; Riprap, Stonepaver, and Rock Slinger (includes placement of stacked concrete, wet or dry and loading, unloading, signaling, slinging and setting of other similar materials); Rotary Scarifier (including multiple head concrete chipping Scarifier); Salamander Heater, Drying of plaster, concrete mortar or other aggregate; Scaffold Erector Leadman; Scaffolds: (Swing and hanging) including maintenance thereof; Scaler; Septic Tank/Cesspool and Drain Fields Digger and Installer; Shredder/Chipper (tree branches, brush, etc.); Stripping and Setting Forms; Stripping of Forms: Other than panel forms which are to be re-used in their original form, and stripping of forms on all flat arch work; Tampers (Barko, Wacker, and similar type); Tank Scaler and Cleaners; Tarman; Tree Climbers and Trimmers; Trencher (includes hand-held, Davis T-66 and similar type); Trucks (flatbed up to and including 2 1/2 tons when used in connection with on-site Laborers'work; Trucks (Refuse and Garbage Disposal) (from job site to dump); Vibra-Screed (Bull Float in connection with Laborers' work); Well Points, Installation of or any other dewatering system.

Laborer II: Asphalt Plant Laborer; Boring Machine Tender; Bridge Laborer; Burning of all debris (crates, boxes, packaging waste materials); Chainman, Rodmen, and Grade Markers; Cleaning, clearing, grading and/or removal for streets, highways, roadways, aprons, runways, sidewalks, parking areas, airports, approaches, and other similar installations; Cleaning or reconditioning of streets, ways, sewers and waterlines, all maintenance work and work of an unskilled and semi-skilled nature; Concrete Bucket Tender (Groundman) hooking and unhooking of bucket; Concrete Forms; moving, cleaning, oiling and carrying to the next point of erection of all forms; Concrete Products Plant Laborers; Conveyor Tender (conveying of building materials); Crushed Stone Yards and Gravel and Sand Pit Laborers and all other similar plants; Demolition, Wrecking and Salvage Laborers: Wrecking and dismantling of buildings and all structures, with use of cutting or wrecking tools, breaking away, cleaning and removal of all fixtures, All hooking, unhooking, signaling of materials for salvage or scrap removed by crane or derrick; Digging under streets, roadways, aprons or other paved surfaces; Driller's Tender; Chuck Tender, Outside Nipper; Dry-packing of concrete (plugging and filling of she-bolt holes); Fence and/or Guardrail Erector: Dismantling and/or re-installation of all fence; Finegrader; Firewatcher; Flagman (Coning, preparing, stablishing and removing portable roadway barricade devices); Signal Men on all construction work defined herein, including Traffic Control Signal Men at construction site; General Excavation; Backfilling, Grading and all other labor connected therewith; Digging of trenches, ditches and manholes and the leveling, grading and other preparation prior to laying pipe or conduit for any purpose; Excavations and foundations for buildings, piers, foundations and holes, and all other construction. Preparation of street ways and bridges; General Laborer: Cleaning and Clearing of all debris and surplus material. Clean-up of right-of-way. Clearing and slashing of brush or trees by hand or mechanical cutting. General Clean up: sweeping, cleaning, wash-down, wiping of construction facility and equipment (other than "Light Clean up (Janitorial) Laborer. Garbage and Debris Handlers and Cleaners. Appliance Handling (job site) (after delivery unlading in storage area); Ground and Soil Treatment Work (Pest Control); Gunite/Shotcrete Operator Tender; Junk Yard Laborers (same as Salvage Yard); Laser Beam "Target Man" in connection with Laborers' work; Layout Person for Plastic (when work involves waterproofing for waterponds,

artificial lakes and reservoirs); Limbers, Brush Loaders, and Pilers; Loading, Unloading, carrying, distributing and handling of all rods and material for use in reinforcing concrete construction (except when a derrick or outrigger operated by other than hand power is used); Loading, unloading, sorting, stockpiling, handling and distribution of water mains, gas mains and all pipes; Loading and unloading of all materials, fixtures, furnishings and appliances from point of delivery to stockpile to point of installation; hooking and signaling from truck, conveyance or stockpile; Material Yard Laborers; Pipelayer Tender; Pipewrapper, Caulker, Bander, Kettlemen, and men applying asphalt, Laykold, Creosote, and similar-type materials (pipe under 6 inches); Plasterer Laborer; Preparation, construction and maintenance of roadbeds and sub-grade for all paving, including excavation, dumping, and spreading of sub-grade material; Prestressed or precast concrete slabs, walls, or sections: all loading, unloading, stockpiling, hooking on of such slabs, walls or sections; Quarry Laborers; Railroad, Streetcar, and Rail Transit Maintenance and Repair; Roustabout; Rubbish Trucks in connection with Building Construction Projects (excluding clearing, grubbing, and excavating); Salvage Yard: All work connected with cutting, cleaning, storing, stockpiling or handling of materials, all cleanup, removal of debris, burning, back-filling and landscaping of the site; Sandblasting Tender (Pot Tender): Hoses and pots or markers; Scaffolds: Erection, planking and removal of all scaffolds used for support for lathers, plasters, brick layers, masons, and other construction trades crafts; Scaffolds: (Specially designed by carpenters) laborers shall tend said carpenter on erection and dismantling thereof, preparation for foundation or mudsills, maintenance; Scraping of floors; Screeds: Handling of all screeds to be reused; handling, dismantling and conveyance of screeds; Setting, leveling and securing or bracing of metal or other road forms and expansion joints; Sheeting Piling/trench shoring (handling and placing of skip sheet or wood plank trench shoring); Ship Scalers; Shipwright Tender; Sign Erector (subdivision traffic, regulatory, and street-name signs); Sloper; Slurry Seal Crews (Mixer Operator, Applicator, Squeegee Man, Shuttle Man, Top Man); Snapping of wall ties and removal of tie rods; Soil Test operations of semi and unskilled labor such as filling sand bags; Striper (Asphalt, Concrete or other Paved Surfaces); Tool Room Attendant (Job Site); Traffic Delineating Device Applicator; Underpinning, lagging, bracing, propping and shoring, loading, signaling, right-of-way clearance along the route of movement, The clearance of new site, excavation of foundation when moving a house or structure from old site to new site; Utilities employees; Water Man; Waterscape/Hardscape Laborers; Wire Mesh Pulling (all concrete pouring operations); Wrecking, stripping, dismantling and handling concrete forms an false work.

LABO0368-002 09/03/2018

	Rates	Fringes
Landscape & Irrigation Laborers		
GROUP 1	$ 25.50	12.68
GROUP 2	$ 26.40	12.68
GROUP 3	$ 21.10	12.68

LABORERS CLASSIFICATIONS

GROUP 1: Installation of non-potable permanent or temporary irrigation water systems performed for the purposes of Landscaping and Irrigation architectural horticultural work; the installation of drinking fountains and permanent or temporary irrigation systems using potable water for Landscaping and Irrigation architectural horticultural purposes only. This work includes (a) the installation of all heads, risers, valves, valve boxes, vacuum breakers (pressure and non-pressure), low voltage electrical lines and, provided such work involves electrical wiring that will carry 24 volts or less, the installation of sensors, master control panels, display boards, junction boxes, conductors, including all other components for controllers,

(b) and metallic (copper, brass, galvanized, or similar) pipe, as well as PVC or other plastic pipe including all work incidental thereto, i.e., unloading, handling and distribution of all pipes fittings, tools, materials and equipment, (c) all soldering work in connection with the above whether done by torch, soldering iron, or other means; (d) tie-in to main lines, thrust blocks (both precast and poured in place), pipe hangers and supports incidental to installation of the entire irrigation system, (e) making of pressure tests, start-up testing, flushing, purging, water balancing, placing into operation all irrigation equipment, fixtures and appurtenances installed under this agreement, and (f) the fabrication, replacement, repair and servicing oflandscaping and irrigation systems. Operation of hand-held gas, air, electric, or self-powered tools and equipment used in the performance of Landscape and Irrigation work in connection with architectural horticulture; Choke-setting, signaling, and rigging for equipment operators on job-site in the performance of such Landscaping and Irrigation work; Concrete work (wet or dry) performed in connection with such Landscaping and Irrigation work. This work shall also include the setting of rock, stone, or riprap in connection with such Landscape, Waterscape, Rockscape, and Irrigation work; Grubbing, pick and shovel excavation, and hand rolling or tamping in connection with the performance of such Landscaping and Irrigation work; Sprigging, handseeding, and planting of trees, shrubs, ground covers, and other plantings and the performance of all types of gardening and horticultural work relating to said planting; Operation of flat bed trucks (up to and including 2 1/2 tons).:

GROUP 2. Layout of irrigation and other non-potable irrigation water systems and the layout of drinking fountains and other potable irrigation water systems in connection with such Landscaping and Irrigation work. This includes the layout of all heads, risers, valves, valve boxes, vacuum breakers, low voltage electrical lines, hydraulic and electrical controllers, and metallic (coppers, brass, galvanized, or similar) pipe, as well as PVC or other plastic pipe. This work also includes the reading and interpretation of plans and specifications in connection with the layout of Landscaping, Rockscape, Waterscape, and Irrigation work; Operation of Hydro-Mulching machines (sprayman and driver), Drillers, Trenchers (riding type, Davis T-66, and similar) and fork lifts used in connection with the performance of such Landscaping and Irrigation work; Tree climbers and chain saw tree trimmers, Sporadic operation (when used in connection with Landscaping, Rockscape, Waterscape, and Irrigation work) of Skid-Steer Loaders (Bobcat and similar), Cranes (Bantam, Grove, and similar), Hoptos, Backhoes, Loaders, Rollers, and Dozers (Case, John Deere, and similar), Water Trucks, Trucks requiring a State of Hawaii Public Utilities Commission Type 5 and/or type 7 license, sit-down type and "gang" mowers, and other self-propelled, sit-down operated machines not listed under Landscape & Irrigation Maintenance Laborer; Chemical spraying using self-propelled power spraying equipment (200 gallon capacity or more).

GROUP 3: Maintenance of trees, shrubs, ground covers, lawns and other planted areas, including the replanting of trees, shrubs, ground covers, and other plantings that did not "take" or which are damaged; provided, however, that re-planting that requires the use of equipment, machinery, or power tools shall be paid for at the rate of pay specified under Landscape and Irrigation Laborer, Group 1; Raking, mowing, trimming, and runing, including the use of "weed eaters", hedge trimmers, vacuums, blowers, and other hand-held gas, air, electric, or self-powered tools, and the operation of lawn mowers (Note: The operation of sit-down type and "gang" mowers shall be paid for at the rate of pay specified under Landscape & Irrigation Laborer, Group 2); Guywiring, staking, propping, and supporting trees; Fertilizing, Chemical spraying using spray equipment with less than 200 gallon capacity, Maintaining irrigation and sprinkler systems, including the staking, clamping, and adjustment of risers, and the adjustment and/or replacement of sprinkler heads, (Note: the cleaning and gluing of pipe and fittings shall be paid for at the rate of pay specified

under Landscape & Irrigation Laborer(Group 1); Watering by hand or sprinkler system and the peformance of other types of gardening, yardman, and horticultural-related work.

LABO0368-003 09/03/2018

	Rates	Fringes
Underground Laborer		
GROUP 1	$ 38.00	20.26
GROUP 2	$ 39.50	20.26
GROUP 3	$ 40.00	20.26
GROUP 4	$ 41.00	20.26
GROUP 5	$ 41.35	20.26
GROUP 6	$ 41.60	20.26
GROUP 7	$ 42.05	20.26

GROUP 1: Watchmen; Change House Attendant.

GROUP 2: Swamper; Brakeman; Bull Gang-Muckers, Trackmen; Dumpmen (any method); Concrete Crew (includes rodding and spreading); Grout Crew; Reboundmen

GROUP 3: Chucktenders and Cabletenders; Powderman (Prime House); Vibratorman, Pavement Breakers

GROUP 4: Miners - Tunnel (including top and bottom man on shaft and raise work); Timberman, Retimberman (wood or steel or substitute materials thereof); Blasters, Drillers, Powderman (in heading); Microtunnel Laborer; Headman; Cherry Pickerman (where car is lifted); Nipper; Grout Gunmen; Grout Pumpman & Potman; Gunite, Shotcrete Gunmen & Potmen; Concrete Finisher (in tunnel); Concrete Screed Man; Bit Grinder; Steel Form Raisers & Setters; High Pressure Nozzleman; Nozzleman (on slick line); Sandblaster-Potman (combination work assignment interchangeable); Tugger

GROUP 5: Shaft Work & Raise (below actual or excavated ground level); Diamond Driller; Gunite or Shotcrete Nozzleman; Rodman; Groundman

GROUP 6: Shifter

GROUP 7: Shifter (Shaft Work & Raiser)

PAIN1791-001 07/01/2018

	Rates	Fringes
Painters:		
Brush	$ 37.35	27.85
Sandblaster; Spray	$ 37.35	27.85

PAIN1889-001 07/01/2018

	Rates	Fringes
Glaziers	$ 38.00	31.78

PAIN1926-001 02/26/2017

	Rates	Fringes
Soft Floor Layers	$ 33.00	27.73

PAIN1944-001 01/01/2018

	Rates	Fringes
Taper	$ 42.10	26.15

PLAS0630-001 09/04/2017

	Rates	Fringes
PLASTERER	$ 40.54	28.23

PLAS0630-002 09/04/2017

	Rates	Fringes
Cement Masons:		
Cement Masons	$ 39.70	29.38
Trowel Machine Operators	$ 39.85	29.38

PLUM0675-001 07/01/2018

	Rates	Fringes
Plumber, Pipefitter, Steamfitter & Sprinkler Fitter	$ 45.49	26.02

ROOF0221-001 09/02/2018

	Rates	Fringes
Roofers (Including Built Up, Composition and Single Ply)	$ 40.50	18.13

SHEE0293-001 09/03/2017

	Rates	Fringes
Sheet metal worker	$ 41.80	26.53

SUHI1997-002 09/15/1997

	Rates	Fringes
Drapery Installer	$ 13.60	1.20
FENCE ERECTOR (Chain Link Fence)	$ 9.33	1.65

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or

"UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations

Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
202.0420	Removal of Existing Concrete Swale	147	SY	$_____	$_____
202.0430	Removal of PCC Shoulder	340	SY	$_____	$_____
205.0100	Structure Excavation for Barrier/Retaining Walls	50	CY	$_____	$_____
205.0200	Structure Backfill for Barrier/Retaining Walls	25	CY	$_____	$_____
209.0100	Installation, Maintenance, Monitoring, and Removal of BMP	LS	LS	LS	$_____
209.0200	Additional Water Pollution, Dust, and Erosion Control	FA	FA	FA	$ 25,000.00
301.1000	Hot Mix Asphalt Base Course	246	Ton	$_____	$_____
304.0100	Aggregate Base	395	CY	$_____	$_____
401.1000	HMA Pavement, Mix No. IV	7,250	Ton	$_____	$_____
415.0150	Cold Planing	81,300	SY	$_____	$_____
421.0000	High Friction Surface Treatment (with Modified Epoxy or Polymer Binder or Equivalent)	2,072	SY	$_____	$_____
503.0100	Concrete for End Post at Site 1B	20	CY	$_____	$_____
503.0200	Concrete for End Post at Site 8A	3	CY	$_____	$_____
503.0300	Concrete for Drainage system	57	CY	$_____	$_____
507.7001	Concrete End Post for Type I End Post Retrofit	20	EA	$_____	$_____
507.7002	Concrete End Post for Site 8B	1	EA	$_____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
602.0100	Reinforcing Steel for End Post at Site 1B	1,300	LB	$_____	$_____
602.0200	Reinforcing Steel for End Post at Site 8A	300	LB	$_____	$_____
603.0010	Bed Course Material for Culvert	68	CY	$_____	$_____
603.0400	Clean Existing Culverts	FA	FA	FA	$ 25,000.00
603.0500	Field Adjustment for Culverts	FA	FA	FA	$ 66,400.00
603.1010	24-Inch Reinforced Concrete Pipe, Class III or 24-Inch High-Density Polyethylene Pipe, Type S	615	LF	$_____	$_____
604.0370	Type A Storm Drain Manhole, 8.00 feet to 8.99 feet	1	EA	$_____	$_____
604.2340	Type 61616 Grated Inlet, 6.0 feet to 6.99 feet	1	EA	$_____	$_____
604.2350	Type 61214P Grated Inlet, 6.00 feet to 6.99 feet	3	EA	$_____	$_____
604.2351	Type 61214P Grated Inlet, 7.00 feet to 7.99 feet	1	EA	$_____	$_____
606.0100	Transition Section Type End Post Connection Upgrade	24	EA	$_____	$_____
606.0200	Transition Section Type MASH Strong Post Thrie-Beam Transition (Westbound Sta. 375+93+- to Sta. 375+87+-)	1	EA	$_____	$_____
606.0300	Guardrail Type 31" W-Beam Guardrail with Standard 8" Offset Block (Westbound Sta. 375+87+- to Sta. 374+23.50)	164	LF	$_____	$_____
606.0400	End Anchorage Type Trailing-End Anchorage System (Westbound Sta. 374+23.50 to Sta. 374+00+-)	1	EA	$_____	$_____
612.0100	Grouted Rubble Paving	11	CY	$_____	$_____
615.1000	12-Inch Milled Rumble Strip, Shoulder	96,910	LF	$_____	$_____
629.1000	4-Inch Pavement Striping (Profile Thermoplastic)	228,800	LF	$_____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.1001	4-Inch Pavement Striping (Type I Tape or Thermoplastic)	18,710	LF	$_____	$_____
629.1002	White 4-Inch Pavement Striping (Type II Tape or Thermoplastic)	130,370	LF	$_____	$_____
629.1003	Yellow 4-Inch Pavement Striping (Type II Tape or Thermoplastic)	105,990	LF	$_____	$_____
629.1004	4-Inch Pavement Striping (Type III Tape or Thermoplastic)	7,310	LF	$_____	$_____
629.1005	8-Inch Pavement Striping (Type I Tape or Thermoplastic)	6,830	LF	$_____	$_____
629.1006	8-Inch Pavement Striping (Type II Tape or Thermoplastic)	27,200	LF	$_____	$_____
629.1007	12-Inch Pavement Striping (Type II Tape or Thermoplastic)	10,950	LF	$_____	$_____
629.1008	Double 4-Inch Pavement Striping (Type I Tape or Thermoplastic)	370	LF	$_____	$_____
629.1009	Pavement Arrow (Paint, Type I Tape, or Thermoplastic)	37	EA	$_____	$_____
629.1010	Pavement Word (Paint, Tape, Type I Tape or Thermoplastic)	49	EA	$_____	$_____
629.1011	Pavement Symbol (Paint, Tape, Type I Tape or Thermoplastic)	7	EA	$_____	$_____
629.1012	Type A Pavement Marker	1,390	EA	$_____	$_____
629.1013	Type C Pavement Marker	11,190	EA	$_____	$_____
629.1014	Type H Pavement Marker	2,680	EA	$_____	$_____
632.1000	Milepost Marker with Post	31	EA	$_____	$_____
645.1000	Traffic Control	LS	LS	$_____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
645.2000	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	FA	FA	FA	$ 100,000.00
648.1000	Field-Posted Drawings	LS	LS	LS	$_____
656.0100	Drilling Holes and Installing Dowel Reinforcing Bars for Barriers and Retaining Walls	500	EA	$_____	$_____
695.1000	Furnish, Transport, Install, Maintain, Relocate, and Remove Portable Concrete Barrier	150	EA	$_____	$_____
695.2000	Portable Concrete Barrier End Treatment (NCHRP 350 Compliant)	15	EA	$_____	$_____
699.1000	Mobilization (Not to Exceed 6 Percent of the Sum of All Items Excluding Bid Price of this Item)	LS	LS	LS	$_____

a. SUM OF ALL ITEMS $_____

NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

PROPOSAL SCHEDULE

The bidder is directed to Subsection 105.16 – Subcontracts.

The bidder's attention is directed to Section 699 - Mobilization for the limitation of the amount bidders are allowed to bid.

If the bid price for any proposal item having a maximum allowable bid indicated therefore in any of the contract documents is in excess of such a maximum amount, the bid price for such proposal item shall be adjusted to reflect the limitation thereon. The comparison of bids to determine the successful bidder and the amount of contract to be awarded shall be determined after such adjustments are made, and such adjustments shall be binding upon the bidder.

DAVID Y. IGE
GOVERNOR OF HAWAII

BRUCE S. ANDERSON, Ph.D.
DIRECTOR OF HEALTH

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

In reply, please refer to:
File:

July 25, 2018

TO: Community Noise Permit Applicant

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

SUBJECT: **Community Noise Permit #O 18-239 Approval**

Please be advised that your Community Noise Permit is hereby granted.

If additional time is necessary for the project, the applicant shall submit a request for extension, along with an updated work schedule, prior to the **expiration date**. Extensions to Community Noise Permits are subject to annual fees.

Extensions or modifications of a permit shall be submitted in writing to the following address:

Department of Health
Indoor and Radiological Health Branch
99-945 Halawa Valley Street
Aiea, Hawaii 96701

Should you have any questions, please call me at (808) 586-4700.

Thank you for your cooperation.

PERMIT NO. O 18-239

STATE OF HAWAII
DEPARTMENT OF HEALTH
INDOOR AND RADIOLOGICAL HEALTH BRANCH

COMMUNITY NOISE PERMIT FOR CONSTRUCTION ACTIVITIES

PURSUANT TO THE PROVISIONS OF CHAPTER 342F, HAWAII REVISED STATUTES, AND CHAPTER 11-46, HAWAII ADMINISTRATIVE RULES, THIS PERMIT IS HEREBY GRANTED TO:

SDOT - HIGHWAYS DIVISION (COMPANY OR INDIVIDUAL) — JADE BUTAY - DIRECTOR OF TRANSPORTATION (NAME OF AUTHORIZED INDIVIDUAL)

AT INTERSTATE ROUTE H-1 (Kalaeloa Boulevard to Waiawa Road) (LOCATION OF ACTIVITY),

DURING THE HOURS OF 7:00 A.M. TO 6:00 P.M., MONDAY THROUGH FRIDAY AND 9:00 A.M. TO 6:00 P.M., SATURDAY (EXCEPT SUNDAYS AND HOLIDAYS)

DECEMBER 3, 2018 (DATE ISSUED) — MAY 29, 2020 (EXPIRATION DATE)

THIS PERMIT IS GRANTED UPON THE EXPRESSED PROVISION THAT THE HOLDER WILL COMPLY WITH ALL RULES, REGULATIONS AND ORDERS OF THE DEPARTMENT AND THE CONDITIONS PRECEDENT TO THE GRANTING OF THIS PERMIT.

DIRECTOR OF HEALTH By James Toma — NOISE SECTION SUPERVISOR (TITLE)

SPECIAL RESTRICTIONS AND CONDITIONS: Use of the mounted impact hammer (hoe ram), jack hammer, pneumatic hammer, rivit buster / chipping gun, concrete saw and pavement scarifier shall be limited to 9:00 a.m. to 5:30 p.m., Monday through Friday when operated within 300 feet of residents. The contractor shall notify the surrounding impacted areas prior to mounted impacted hammer activities.

*SEE GENERAL RESTRICTIONS AND CONDITIONS ON BACK.

INDOOR & RADIOLOGICAL HEALTH BRANCH

2018 MAY 31 A 9:28

State of Hawaii
Department of Health

Application for Community Noise Permit

Permit is required by Title 11, Administrative Rules, Department of Health, Chapter 46, Community Noise Control.

Part I. Applicant Information

Name of Company	Authorized Individual
Department of Transportation, Highways Division	Jade Butay
Mailing Address	**Title**
869 Punchbowl Street	Director of Transportation
City / State / Zipcode	**Phone**
Honolulu, HI 96813	(808) 587-2150

Part II. Community Noise Permit Fee Schedule (Annual) *Check one box

☐	Activities involving demolition, construction, extension, additions, or renovation of a single family dwelling	$25
■	All other construction activities	$50
☐	Operation of stationary noise sources	$50
☐	Equipment related to agricultural activities	$50
☐	Equipment related to industrial activities	$50

Part III. Description of Activity

See attachment

Part IV. Location of Activity *Attach map if necessary

See attachment

Part V. Equipment to be utilized *Attach list if necessary

See attachment

Part VI. Estimated duration of construction activity

*Attach activity schedule for construction activities or attenuation of stationary sources.

From	To
December 2018	June 2020

Certification of Individual Authorized to Act for Applicant

I certify that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. Acceptance of this permit constitutes an acknowledgement and agreement that the permittee will comply with all rules, regulations and orders of the department and the conditions precedent to the granting of this permit.

Signature	Date
J T Butay	MAY 18 2018

CNP 07/16

INTERSTATE ROUTE H-1 SAFETY IMPROVEMENTS PROJECT

NOISE PERMIT ATTACHMENTS

Part III. Description of Activity

The purpose of this proposed project is to improve the safety along Interstate Route H-1. Safety improvements will include minor guardrail work, paved shoulder rehabilitation/repaving, installation/replacement of milled rumble strips, installation of signage, addition of concrete curbs, installation of additional drainage facilities, and pavement marking rehabilitation. Additional improvements include the removal of sediment from existing swales and potentially scaling an existing slope for safety purposes.

Part IV. Location of Activity

The proposed construction activity will occur along Interstate Route H-1, from the vicinity of Kalaeloa Boulevard (mile post 0) in the west to the vicinity of Waiawa Road (mile post 9) in Pearl City in the east, on the Island of Oahu, Hawaii.

Part V. Equipment to be Utilized

The following provides a list of equipment that is likely to be used along with the associated operational noise level of that equipment.

Equipment Description	Impact Device?	Spec. 721.560 Lmax @ 50 feet (dBA, slow)	Actual Measured Lmax @ 50 feet (dBA, slow) (Samples Averaged)
All Other Equipment > 5 HP	No	85	N/A
Backhoe	No	80	78
Compactor (ground)	No	80	83
Compressor (air)	No	80	78
Concrete Mixer Truck	No	85	79
Concrete Pump Truck	No	82	81
Concrete Saw	No	90	90
Dump Truck	No	84	76
Excavator	No	85	81
Flat Bed Truck	No	84	74
Front End Loader	No	80	79
Generator	No	82	81
Generator (<25KVA, VMS Signs)	No	70	73
Jackhammer	Yes	85	89
Man Lift	No	85	75

Equipment Description	Impact Device?	Spec. 721.560 Lmax @ 50 feet (dBA, slow)	Actual Measured Lmax @ 50 feet (dBA, slow) (Samples Averaged)
Mounted Impact Hammer (hoe ram)	Yes	90	90
Pavement Scarifier	No	85	90
Paver	No	85	77
Pickup Truck	No	55	75
Pneumatic Tools	No	85	85
Pumps	No	77	81
Rivit Buster/Chipping Gun	Yes	85	79
Roller	No	85	80
Scraper	No	85	84
Vacuum Excavator (Vac-Truck)	No	85	85
Vacuum Street Sweeper	No	80	82
Welder/Torch	No	73	74

Source: Table 9.2, U.S. Department of Transportation, Construction Noise Handbook, FHWA-HEP-06-015, Final Report: August 2006.

DAVID Y. IGE
GOVERNOR

JADE T. BUTAY
DIRECTOR

Deputy Directors
ROY CATALANI
ROSS M. HIGASHI
EDWIN H. SNIFFEN
DARRELL T. YOUNG

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

IN REPLY REFER TO:
HWY-DS 2.7376

July 5, 2018

TO: THE HONORABLE BRUCE S. ANDERSON, Ph.D.
DIRECTOR OF HEALTH

ATTN: JAMES TOMA
NOISE SECTION SUPERVISOR
INDOOR AND RADIOLOGICAL HEALTH BRANCH

FROM: JADE T. BUTAY
DIRECTOR OF TRANSPORTATION

SUBJECT: COMMUNITY NOISE PERMIT APPLICATION
INTERSTATE ROUTE H-1 SAFETY IMPROVEMENTS
PALAILAI INTERCHANGE TO WAIAWA INTERCHANGE
HONOULIULI, HOAEAE, WAIKELE, WAIPIO, AND WAIAWA AHUPUAA,
EWA MOKU, ISLAND OF OAHU
FEDERAL-AID PROJECT NO. HSIP-H1-1(270)

In response to Department of Health (DOH)'s letter dated June 5, 2018, requesting for additional information with regards to the Application for Community Noise Permit for the subject project, State of Hawaii Department of Transportation (HDOT) would like to provide the following additional information:

1. *DOH's Comment*: Vague terms (such as all other equipment >5hp or pneumatic tools) are unacceptable. Please submit a revised construction equipment list.

   HDOT's Response: A revised construction equipment list is enclosed.

2. *DOH's Comment*: Submit a construction schedule to justify the end date of June 2020.

   HDOT's Response: A revised construction schedule provides the justification for the construction end date of June 2020 is enclosed.

3. *DOH's Comment*: Indicate the number of hoe ram(s) to be used for this project.

   HDOT's Response: Since this project has not been awarded, HDOT cannot accurately predict how many hoe rams would be utilized on the project which spans 9 miles along the Interstate H-1. Hoe rams may be utilized if difficult excavation work is encountered, currently HDOT does not anticipate significant use of this type of equipment since locations and quantities of excavation are spread out and small. HDOT is disclosing the

possibility of the use of such equipment however and limitations on usage can be placed upon the Contractor when the equipment is needed. HDOT will provide this information to DOH when the Contractor is selected.

4. *DOH's Comment*: Duration of hoe ram activity.

   HDOT's Response: HDOT does not have accurate information at this time. If the future Contractor decides to use hoe ram, the usage will be restricted to daytime hours.

5. *DOH's Comment*: Include a name and on-site telephone number of the person responsible for responding to hoe ram complains.

   HDOT's Response: The Resident Engineers will handle any noise complaints during construction. HDOT Acting Resident Engineers are Daryl Tanabe who can be reached at (808) 483-2523 and William Rapisura who can be reached at (808) 483-2528.

Should you have any questions, please contact our Project Manager, Ms. Mung Fa Chung, at (808) 692-7545, Technical Design Services Section, Design Branch, Highways Division, or by email at mungfa.chung@hawaii.gov. If submitting a written reply, please reference HWY-DS 2.7376 as shown above.

We appreciate your continued interest and participation in this project

Enclosures

c: Jan Reichelderfer (WSP)

Interstate Route H-1 Safety Improvements, Palailai Interchange to Waiawa Overpasss
Federal Aid Project No. HSIP-H1-1(270)

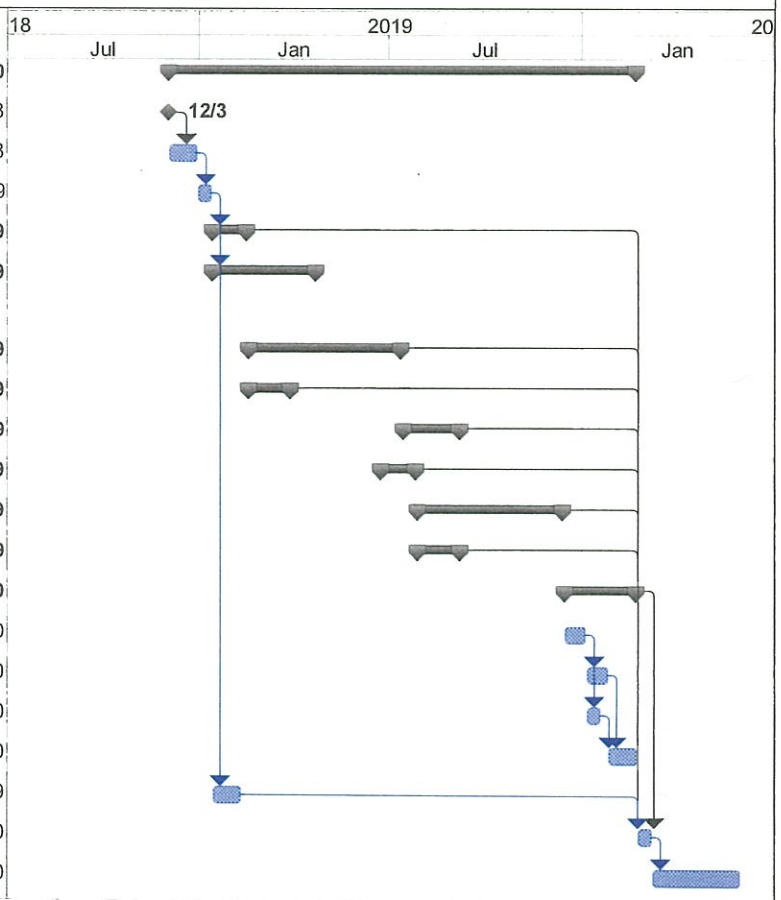
Revised Construction Equipment List

Equipment Description	Impact Device?	Spec. 721.560 Lmax @ 50 feet (dBA, slow)	Actual Measured Lmax @ 50 feet (dBA, slow) (Samples Averaged)
Backhoe	No	80	78
Compactor (ground)	No	80	83
Compressor (air)	No	80	78
Concrete Mixer Truck	No	85	79
Concrete Pump Truck	No	82	81
Concrete Saw	No	90	90
Dump Truck	No	84	76
Excavator	No	85	81
Flat Bed Truck	No	84	74
Front End Loader	No	80	79
Generator	No	82	81
Generator (<25KVA, VMS Signs)	No	70	73
Jackhammer	Yes	85	89
Man Lift	No	85	75
Mounted Impact Hammer (hoe ram)	Yes	90	90
Pavement Scarifier	No	85	90
Paver	No	85	77
Pickup Truck	No	55	75
Pumps	No	77	81
Rivit Buster/Chipping Gun	Yes	85	79
Roller	No	85	80
Scraper	No	85	84
Vacuum Excavator (Vac-Truck)	No	85	85
Vacuum Street Sweeper	No	80	82
Welder/Torch	No	73	74
Air Ratchet	No	85	N/A
Blow Gun	No	85	N/A
Pneumatic Hammer	Yes	85	N/A
Pneumatic Angle Grinder	No	85	N/A
Pneumatic Drill	No	85	N/A
Pneumatic Impact Wrench	No	85	N/A
Pneumatic Sander	No	85	N/A
Pneumatic Saw	No	85	N/A

Adapted from: Table 9.2, U.S. Department of Transportation, Construction Noise Handbook, FHWA-HEP-06-015, Final Report: August 2006.

INTERSTATE ROUTE H-1 SAFETY IMPROVEMENTS
PALAILAI INTERCHANGE TO WAIAWA OVERPASS (MILEPOST 0 TO 9)
FAP NO. HSIP-H1-1(270)

ID	Task Name	Duration	Start	Finish
1	**H-1 Safety Improvements**	**320 days**	**Mon 12/3/18**	**Fri 2/21/20**
2	NTP	0 days	Mon 12/3/18	Mon 12/3/18
3	Project Start-up	20 days	Mon 12/3/18	Fri 12/28/18
4	Mobilization	10 days	Mon 12/31/18	Fri 1/11/19
5	**Temp Striping - End Post Upgrades EB**	**25 days**	**Mon 1/14/19**	**Fri 2/15/19**
9	**Drainage Improvements WB Sta.186+00 to 193+00**	**71 days**	**Mon 1/14/19**	**Mon 4/22/19**
15	**End Post Ugrades EB**	**105 days**	**Mon 2/18/19**	**Fri 7/12/19**
19	**Shoulder Reconstruction EB**	**30 days**	**Mon 2/18/19**	**Fri 3/29/19**
22	**Final Striping EB**	**40 days**	**Mon 7/15/19**	**Fri 9/6/19**
27	**Temp Striping - End Post Upgrades WB**	**25 days**	**Mon 6/24/19**	**Fri 7/26/19**
31	**End Post Ugrades WB**	**100 days**	**Mon 7/29/19**	**Fri 12/13/19**
35	**Shoulder Reconstruction WB**	**30 days**	**Mon 7/29/19**	**Fri 9/6/19**
38	**Final Striping EB**	**50 days**	**Mon 12/16/19**	**Fri 2/21/20**
39	Final Striping Kapolei to Kunia	15 days	Mon 12/16/19	Fri 1/3/20
40	Final Striping Kunia to Waiawa	15 days	Mon 1/6/20	Fri 1/24/20
41	Mile Post Signs	10 days	Mon 1/6/20	Fri 1/17/20
42	Rumble Strips	20 days	Mon 1/27/20	Fri 2/21/20
43	High Friction Surface Treatment - Makakilo Ramp MB	20 days	Mon 1/14/19	Fri 2/8/19
44	Demobilization	10 days	Mon 2/24/20	Fri 3/6/20
45	Project Closeout	60 days	Mon 3/9/20	Fri 5/29/20



Task	External MileTask	Manual Summary Rollup
Split	Inactive Task	Manual Summary
Milestone	Inactive Milestone	Start-only
Summary	Inactive Summary	Finish-only
Project Summary	Manual Task	Progress
External Tasks	Duration-only	Split

DAVID Y. IGE
GOVERNOR

JADE T. BUTAY
DIRECTOR

Deputy Directors
ROY CATALANI
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EDWIN H. SNIFFEN
DARRELL T. YOUNG

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097

IN REPLY REFER TO:
DIR 0714
HWY-DS 2.7379

July 5, 2018

TO: THE HONORABLE BRUCE S. ANDERSON, Ph.D
DIRECTOR OF HEALTH

ATTN: JAMES E. TOMA
NOISE SECTION SUPERVISOR
INDOOR AND RADIOLOGICAL HEALTH BRANCH

FROM: JADE T. BUTAY
DIRECTOR OF TRANSPORTATION

SUBJECT: COMMUNITY NOISE VARIANCE APPLICATION
DOCKET NO. 18-NR-VN-24
INTERSTATE ROUTE H-1 SAFETY IMPROVEMENTS
PALAILAI INTERCHANGE TO WAIAWA INTERCHANGE
HONOULIULI, HOAEAE, WAIKELE, WAIPIO, AND WAIAWA AHUPUAA,
EWA MOKU, ISLAND OF OAHU
FEDERAL-AID PROJECT NO. HSIP-H1-1(270)

In response to Department of Health (DOH)'s letter dated June 13, 2018, requesting for additional information with regards to the Application for Community Noise Variance (Docket No. 18-NR-VN-24) for the subject project, State of Hawaii Department of Transportation (HDOT) would like to provide the following additional information:

1. *DOH's Comment*: A Community Noise Variance is for construction activities that are unable to be accomplished during the days & times covered by a Community Noise Permit. Since the HDOT has applied for a Community Noise Permit for the same construction activities on this project, please explain which constructions activities will be done during the Community Noise Permit and which construction activities will be done during the Community Noise Variance or how the construction activities are different in the Community Noise Permit versus the Community Noise Variance.

   HDOT's Response: The following activities will be done during the daytime hours covered by the Community Noise Permit:

   - End post connection upgrades and guardrail installation in all locations other than H-1/H-2 interchange
   - Removal of sediment from existing swales
   - Non-skid resurfacing for an on-ramp
   - Shoulder resurfacing

- Installation of signage

The following activities will be covered by the Community Noise Variance:

- Temporary lane restriping / pavement marking rehabilitation
- Rumble Strip Installation
- End post connection upgrades in H-1/H-2 interchange (under the Farrington Highway overpass)
- Drainage improvements on H-1 westbound outside shoulder approximately 1,500 feet west of Kualakai Parkway (approximately 2,500 feet from the nearest receptor)
- Swale removal on H-1 westbound outside shoulder below the Naval Access Road overpass (150 feet from the nearest receptor).

2. *DOH's Comment*: Vague terms (such as all other equipment >5hp or pneumatic tools) are unacceptable. Please submit a revised construction equipment list.

   HDOT's Response: A revised construction equipment list is enclosed.

3. *DOH's Comment*: Indicate the number of mounted impact hammer(s) to be used for this project.

   HDOT's Response: When the project is awarded the Contractor may opt to operate at multiple sites along the H-1 corridor simultaneously (the project spans 9 miles). HDOT therefore cannot accurately provide this information at this time. Limiting the Contractor's ability to utilize such equipment at multiple locations could impact the duration for completion of the project. Mounted impact hammers may be utilized if difficult excavation work is encountered. HDOT is disclosing the possibility of the use of such equipment and limitations on usage can be placed upon the contractor when the equipment is needed.

4. *DOH's Comment*: *Any plans and procedures for the attenuation of the mounted impact hammer noise.*

   HDOT's Response: At this time HDOT does not have any procedures for attenuation of mounted impact hammer noise other than strategic placement of vehicles and equipment to deflect noise away from certain directions. As discussed in the question below, the mounted impact hammer is expected to be needed in only limited locations.

5. *DOH's Comment*: *Indicate the possible locations of where the mounted impact hammer(s) may be operated along Interstate Route H-1.*

   HDOT's Response: HDOT anticipated the Contractor may need to use the mounted impact hammer in the following locations:

   - In the outside shoulder of H-1 outbound near Naval Access Road the drainage swale will need to be removed. This work is likely to require occasional use of the mounted impact hammer for a few evenings or weekend days and can be restricted

to ending no later than 12 midnight. There are homes as close as 150 feet to the construction.

- Approximately 1,500 feet southwest from of Kualakai Parkway along the westbound shoulder of H-1, a mounted impact hammer will likely be required during trenching operations related to the installation of drainage improvements. This area is near Grace Pacific's Makakilo Quarry and the nearest residence is about 2,500 feet away.
- Guardrail end post connection upgrades (where metal guardrails attach to concrete bridge railings) at select bridges may require the use of impact equipment (multiple locations). This work can be accomplished during the day after adequate traffic controls are in place.

6. *DOH's Comment*: *A community informational meeting may be required depending on the location of the mounted impact hammer locations along the project. The meeting will inform the affected residences and businesses about the project and answer any questions or concerns that they may have.*

   HDOT's Response: Preliminary discussions with James Toma concluded that based upon the locations of the work and the scope of work involved, a community meeting would not be necessary and that a postcard will be sent to 1,325 households informing them about the project. Based upon the responses presented above please confirm if this is still the case.

Should you have any questions, please contact our Project Manager, Ms. Mung Fa Chung, at (808) 692-7545, Technical Design Services Section, Design Branch, Highways Division, or by email at mungfa.chung@hawaii.gov. If submitting a written reply, please reference HWY-DS 2.7379 as shown above.

We appreciate your continued interest and participation in this project.

c: Jan Reichelderfer (WSP)

Interstate Route H-1 Safety Improvements, Palailai Interchange to Waiawa Overpasss
Federal Aid Project No. HSIP-H1-1(270)

Revised Construction Equipment List

Equipment Description	Impact Device?	Spec. 721.560 Lmax @ 50 feet (dBA, slow)	Actual Measured Lmax @ 50 feet (dBA, slow) (Samples Averaged)
Backhoe	No	80	78
Compactor (ground)	No	80	83
Compressor (air)	No	80	78
Concrete Mixer Truck	No	85	79
Concrete Pump Truck	No	82	81
Concrete Saw	No	90	90
Dump Truck	No	84	76
Excavator	No	85	81
Flat Bed Truck	No	84	74
Front End Loader	No	80	79
Generator	No	82	81
Generator (<25KVA, VMS Signs)	No	70	73
Jackhammer	Yes	85	89
Man Lift	No	85	75
Mounted Impact Hammer (hoe ram)	Yes	90	90
Pavement Scarifier	No	85	90
Paver	No	85	77
Pickup Truck	No	55	75
Pumps	No	77	81
Rivit Buster/Chipping Gun	Yes	85	79
Roller	No	85	80
Scraper	No	85	84
Vacuum Excavator (Vac-Truck)	No	85	85
Vacuum Street Sweeper	No	80	82
Welder/Torch	No	73	74
Air Ratchet	No	85	N/A
Blow Gun	No	85	N/A
Pneumatic Hammer	Yes	85	N/A
Pneumatic Angle Grinder	No	85	N/A
Pneumatic Drill	No	85	N/A
Pneumatic Impact Wrench	No	85	N/A
Pneumatic Sander	No	85	N/A
Pneumatic Saw	No	85	N/A

Adapted from: Table 9.2, U.S. Department of Transportation, Construction Noise Handbook, FHWA-HEP-06-015, Final Report: August 2006.

DIR 1099

DAVID Y. IGE
GOVERNOR OF HAWAII

BRUCE S. ANDERSON, Ph.D.
DIRECTOR OF HEALTH

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

In reply, please refer to:
File:

2018 SEP 28 P 1:07
DIRECTOR'S OFFICE
DEPT. OF
TRANSPORTATION

September 25, 2018

Jade Butay
Director
State Department of Transportation
Highways Division
869 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Butay:

Enclosed is the VARIANCE (Docket No. 18-NR-VN-24) for Community Noise Control which was granted on September 24, 2018. 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 james.toma@doh.hawaii.gov.

Sincerely,

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:	)	
STATE DEPARTMENT OF TRANSPORTATION Noise – Safety Improvements along Interstate Route H-1 from the vicinity of Kalaeloa Boulevard to the vicinity of Waiawa Road, Oahu.	)	Docket No. 18-NR-VN-24 V-1036

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 conduct the following construction activities along the Interstate Route H-1 from the vicinity of Kalaeloa Boulevard to the vicinity of Waiawa Road, Oahu:

    a. Temporary lane restriping / pavement marking rehabilitation.
    b. Rumble strip installation.
    c. End post connection upgrades in H-1/H-2 interchange (under the Farrington Highway overpass).
    d. Drainage improvements on H-1 westbound outside shoulder approximately 1,500 feet west of Kualakai Parkway.
    e. Swale removal on H-1 westbound outside shoulder below the Naval Access Road overpass.

2. The variance shall be granted from December 1, 2018 until March 20, 2020.

3. The variance shall be granted for the following days/times:

Monday through 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 and Holidays	All day (midnight to midnight).

4. The variance shall be granted with the following restriction:

   The use of the *mounted impact hammer (hoe ram), jackhammer, pneumatic hammer, rivit buster / chipping gun, concrete saw and pavement scarifier* 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. The applicant shall make every effort to minimize noise emanating from the project.

7. The use of reverse signal alarms is prohibited from 8:00 p.m. to 7:00 a.m. Alternative methods such as utilizing a ground guide for signaling shall be employed.

8. Traffic noise from heavy vehicles travelling to and from the project site shall be minimized near residences.

9. 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.

10. Residents and businesses that may be impacted by the activity shall be given sufficient notice regarding the project. The notification for the planned activity will also contain the name and telephone number of the job-site inspector. In addition, a copy of any notifications, as well as progress reports, will also be sent to the Indoor and Radiological Health Branch.

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 March 20, 2020.

DATED: Honolulu, Hawaii, SEP 24 2018.

Lynn M Nakasone

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

PRE-BID MEETING AGENDA

Interstate Route H-1 Safety Improvements
Palailai Interchange to Waiawa Overpass
Federal-Aid Project No. HSIP-H1-1(270)

Island of Oahu

Date/Time: October 22, 2018; 1:00 p.m.

Location: 601 Kamokila Boulevard, Room 611, Kapolei, Hawaii

Items to discuss:

1. 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. Responses to questions posed at this meeting will be provided in writing as part of an addendum.

2. Meeting agenda, minutes and attendance will be included as part of an addendum.

3. Some items to be aware of:
   a. The bid documents can be downloaded at the following website http://hidot.hawaii.gov/administration/con/
      Please contact Contract office directly if you have trouble opening the documents.
   b. The proposed temporary lane shifts shown in the plans represent the best available information based upon as-builts. The Contractor should account for limited available work area in these areas.
   c. The Contractor shall coordinate with the current Interstate Route H-1 Addition and Modification of Freeway Access (Kapolei Interchange Complex), Phase 2 project (Federal Aid Project No. IM-H1-1(261).
   d. On P-12 of the Proposal dated 09/14/18, we directed bidder's attention to Section 696 – Field Office and Project Site Laboratory, but we do not intend for this project to have a Field Office and Project Site Laboratory, we will correct this in Addendum No.1.
   e. For Section 205 Excavation and Backfill for Bridge and Retaining Structures, there are only 4 pages in this section which does not match the Table of Content. We will revise the Table of Content to say 205-1a to 205-4a in Addendum No. 1.
   f. The DBE goal for this project is 16.7%. If the Contractor can't meet the goal, the Contractor must demonstrate good faith effort as stated in the DBE requirements in the specification.
   g. The anticipated construction Notice to Proceed date is by March 6, 2019.
   h. On Notice to Bidder page NB-2, all requests for information (RFI) shall be received in writing (email is preferred) no less than 14 calendar days before bid opening. Verbal requests will not receive a response.

4. Contractor shall comply with the terms and conditions from environmental process and approved permits and responsible to renew the permits as necessary:
    a. An NPDES permit has not been obtained for this project, estimated area of disturbance is currently 0.5 acres excluding the Contractor's staging areas. If the total area of disturbance including Contractor's staging area is over 1 acre, it is Contractor's responsibility to apply for NPDES permit.
    b. Community Noise Permit O-18-239 (from Palailai Interchange to Waiawa Interchange) is obtained and is valid until May 29, 2020.
    c. Noise Variance, Docket No. 18-NR-VN-24, V-1036 (from Palailai Interchange to Waiawa Interchange) limits use of impact devices within 500 feet of residences after midnight and the use of backup alarms after 8pm. The variance is valid until March 20, 2020.
    d. Night time work shall be avoided during the Hawaii seabird fledgling period from September 15 through December 15. However, if night time work does occur, lights shall be shielded and directed toward the ground.
    e. Contractor shall be responsible to obtain all required City & County permits including but not limited to the Grading Permit if needed.

5. Questions
   Please give us your written questions.

6. Thank you for attending the Pre-Bid meeting.

PRE-BID MEETING MINUTE

Interstate Route H-1 Safety Improvements
Palailai Interchange to Waiawa Overpass
Federal-Aid Project No. HSIP-H1-1(270)

Island of Oahu

Date/Time: October 22, 2018; 1:05 -1:20p.m.

Location: 601 Kamokila Boulevard, Room 611, Kapolei, Hawaii

Attendees:

Trent Cabar	Apply-A-Line
Cole Millane	Grace Pacific
Moon Yum	Nan, Inc
Gerald Andrade	WSP
Mung Fa Chung	HDOT
George Hiitei	HPCP
Karen chun	HDOT
Bryan Toda	HDOT

Mung Fa Chung recited the following items:

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    e. Contractor shall be responsible to obtain all required City & County permits including but not limited to the Grading Permit if needed.

5. Questions
    Requested the attendees to submit questions in writing.
    Questions received are enclosed in this minutes.

Sign In Sheet

Subject: Pre-Bid Meeting
Project: Interstate Route H-1 Safety Improvements Palailai Interchange to Waiawa Overpass
Project No: HSIP-H1-1(270)
Date: 10/22/2018
Time: 1:00 PM
Location: 601 Kamokila Boulevard, Room 611, Kapolei HI96707

Name	Company	Email
Trent Cabar	Apply-A-Line	trent@applyaline.com
Cole Millare	Grace Pacific	cmillare@gracepacific.com
Moon Yun	Non, Inc	estimating@nanhawaii.com
Gerald Andrade	WSP	Gerald.Andrade@wsp.com
Mung Fa Chung	HDOT	mungfa.chung@hawaii.gov
GEORGE NIITEI	HPCP	GEORGE.NIITEI@HPCPAVING.com
Karen Chun	HDOT	karen.chun@hawaii.gov
Bryan Toda	HDOT	bryan.toda@hawaii.gov

Interstate Route H-1 Safety Improvements
Palailai Interchange to Waiawa Overpass
HSIP-H1-1(270)

Please write down your questions, we will answer your question in the Addendum. Thank you.

Questions:

1) How long will cold planed surfaces allowed to be open to traffic?
2) Will speed limit signs within project limits need to be replaced due lower speed limit due to construction?
3) What is the intent/purpose of cold planing and paving shoulders?

Interstate Route H-1 Safety Improvements
Palailai Interchange to Waiawa Overpass
HSIP-H1-1(270)

Please write down your questions, we will answer your question in the Addendum. Thank you.

Questions:

High Friction Surface Treatment
Can allow hand mixing for this job.
Is this project a replace only contract
for pavement markings
Item 629.1002 & 629.1003 is same
Item 629.1012 what is this for
High Friction Surface Treatment Ramp MB clarify
already has HFST on it
Ramp MA doesn't show striping
Profile stripe needs to be ground flat

Interstate Route H-1 Safety Improvements
Palailai Interchange to Waiawa Overpass
HSIP-H1-1(270)

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Questions:

(1) SURVEY & LAYOUT OF NEW 24" RCP & DRAIN BOXES WILL BE BY STATE?
GEORGE · 834-5993 - HAWAII PACIFIC CONCRETE & PAVING

Interstate Route H-1 Safety Improvements
Palailai Interchange to Waiawa Overpass
HSIP-H1-1(270)

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Questions:

Can the item 421.1000 be Force Account? ~~There is no~~