

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS MAUI DISTRICT**

ADDENDUM NO. 1

FOR

**HONOAPIILANI HIGHWAY
GUARDRAIL AND SHOULDER IMPROVEMENTS,
VICINITY OF NORTH KIHEI ROAD TO HONONANA**

FEDERAL-AID PROJECT NO. STP-030-1(058)R

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

A. PRE-BID CONFERENCE

1. Conference Minutes and Attendance Sheet are attached.

B. REQUEST FOR INFORMATION (RFI) AND RESPONSES

1. RFI and RFI Responses are attached.

C. PROPOSAL SCHEDULE PAGES P-1, P-8, AND P-9

1. Replace Proposal page P-1 dated r8.02.22 with the attached revised Proposal page P-1 dated 4/13/23.
2. Replace Proposal page P-8 dated 2/28/23 with the attached revised Proposal page P-8 dated 4/13/23.
3. Replace Proposal page P-9 dated 2/28/23 with the attached revised Proposal page P-9 dated 4/13/23.

D. PLANS

1. Replace Plan Sheet 4 with the attached Plan Sheet ADD.4.
2. Replace Plan Sheet 38 with the attached Plan Sheet ADD.38.
3. Replace Plan Sheet 39 with the attached Plan Sheet ADD.39.

E. FEDERAL WAGE RATES

1. Replace Federal Wage Rates dated 03/10/2023 with the attached Federal Wage Rates dated 03/17/2023.

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

Robin Shishido

ROBIN K. SHISHIDO
Highways Deputy Director

Addendum No. 1
4/13/23

**HONOAPIILANI HIGHWAY
GUARDRAIL AND SHOULDER IMPROVEMENTS,
VICINITY OF NORTH KIHEI ROAD TO HONONANA**

FEDERAL-AID PROJECT NO. STP-030-1(058)R

PRE-BID CONFERENCE MINUTES

The following minutes are from the Hawaii Department of Transportation (HDOT) pre-bid conference with prospective bidders for the Honoapiilani Highway Guardrail and Shoulder Improvements project.

The conference was conducted virtually on March 23, 2023; at 10:00 a.m.

All attendees were notified of the following:

This is a Federal-Aid Project.

The HDOT Project Manager (Larry D. Hail) presented an overview of the Disadvantaged Business Enterprise (DBE) Program, DBE goals, and DBE forms.

An overview of the project and bid alternatives was provided. Attention was directed to the project plans regarding the abandonment of existing guardrail post in place to avoid damage to existing slopes at selected locations. The quantity tables on the plans were provided to ensure prospective bidders based their bids on the same quantities.

Question 1: Is the DBE participation goal for the Base Bid Plus Additive Alternate #1 (P-1 of Proposal Schedule) 1.5 percent or the combined 2.9 percent (1.4 percent plus 1.5 percent)?

State Responded: The DBE Goal for the Base Bid is 1.4 percent and the DBE Goal for the Base Bid Plus Additive Alternate #1 is 1.5 percent (not the combined 2.9 percent).

Question 2: Will night-time work be allowed?

State Responded: Night-time will be allowed with the appropriate approval.

Prospective bidders were reminded any Request for Information (RFI) shall be submitted in writing.

RFIs are due on April 6, 2023; at 2:00 p.m. The State will respond to RFI's by Wednesday April 12, 2023; at 4:00 p.m.

Meeting was adjourned at 10:32 a.m.

All items discussed at the conference are for clarification only. The bid documents shall govern over anything said at the pre-bid conference and discrepancies shall be clarified in addenda.

**HONOAPIILANI HIGHWAY
GUARDRAIL AND SHOULDER IMPROVEMENTS,
VICINITY OF NORTH KIHEI ROAD TO HONONANA**

FEDERAL-AID PROJECT NO. STP-030-1(058)R

**PRE-BID CONFERENCE SIGN-IN SHEET
MARCH 23, 2023; 10:00 A.M.**

No.	Name	Company	Phone No.	Email Address
1	Christopher Della	DOT HWY-M	(808) 873-3376	christopher.p.della@hawaii.gov
2	Larry D. Hail	DOT HWY-M	(808) 873-3567	larry.d.hail@hawaii.gov
3	Emmanuel Minde	Global Specialty Contractors, Inc.	(808) 843-8881	eminde@globalspecialty.net

**Questions for solicitation: B23001928 STP-030-1(058)R Honoapiilani Hwy
Guardrail and Shoulder Improvements**

04/06/2023

RFI 1 - On DBE Goal, Per Spec. Page 167, it shows Base Bid as 1.4% and Base Plus Alternate #1 is 1.5 percent. Is this correct or for base and Alternate #1 is 2.9 percent Please clarify?

RFI 1 Response - The DBE Goal for the Base Bid is 1.4 percent and the DBE Goal for the Base Bid Plus Additive Alternate #1 is 1.5 percent(not the combined 2.9 percent).

RFI 2 - Are Advisory Signs Required?

RFI 2 Response - Yes, please refer to Standard Specification 645.03(G). Two (2) advisory signs will be required for each separate project area (Base Bid area around the Pali and Additive Alternate #1 area north of Kapalua).

RFI 3 - Can message boards be used in lieu of advisory Signs? if yes how long will the message boards be required to be on the project?

RFI 3 Response - The use of changeable message signs (boards) will be up to the bidder. Advertisement signs or CMS for a project need to remain in place until completion.

RFI 4 - Can used sign and post material be used for Advisory Sign and Work Zone Signs on sheet 40?

RFI 4 Response - The advisory signs are project specific, and therefore, will be new. The work zone signs may be used if they comply with the current FHWA sign retroreflectivity requirements. Used post may be used if they are in good condition, which will be determined by the Engineer.

RFI 5 - For note #3 on sheet 3, The installation of new terminal end treatments with rubrail shall include the guardrail rubrail beyond (up to 75-feet) the end treatment average limit of payment and be considered incidental to the end treatment pay item. Can you please provide the quantity and lengths? If not, can this be paid via force account?

RFI 5 Response - The “Mash Type A Flare” and “Modified Type A-1 Flare” end treatments include rubrail, as shown on the end treatment details (Sheets 14–19). The details also show the rubrail extending beyond the end treatment flare and indicates the distance varies to fit field conditions. For bidding purposes, the bidder should assume the “Mash Type A Flare” and “Modified Type A-1 Flare” end treatments include 75’ of rubrail, which should be included in the end treatment unit price. Refer to the quantity tables on Sheets 38 and 39 for the specific number of end type of end treatment.

RFI 6 - for Note #4 on sheet 3, The resetting of existing traffic signs, highway milepost markers and object markers to accommodate new guardrail and end terminal treatments shall be considered

incidental to various contract items. Can you please provide the quantity of signs and types of posts? If not, can this be paid via force account?

RFI 6 Response - Item (631.2000) for the resetting of existing signs has been added to the Proposal Schedule for the Base Bid (P-8) and Additive Alternate #1 (P-9). The updated P-8 and P-9 pages of the Proposal Schedule are included in Addendum No. 1.

RFI 7 - Working hours in Note #10 on sheet 3 do not match with Note 3 on sheet 4, can you please provide clarification?

RFI 7 Response - The contractor shall comply with Note #10 on Sheet 3, all lanes shall be open to traffic during the morning peak hours from 6:00 a.m. to 8:00 a.m. and afternoon peak hours from 4:00 p.m. to 6:00 p.m. of work hours. Only one lane of highway shall be closed at any other time.

RFI 8 - For RM-5 installation, should the RM-5 be installed on the rail splice as drawn on sheet 9 or mid span away from the splice?

RFI 8 Response - Note 10 on Sheet 9 states reflective markers (RM-5) mounted on guardrails shall be spaced every 25'. The details on Sheets 9 and 13 show the RM-5 installed at the splice, but the notes do not state they shall be installed on the splice. Therefore, as long as the RM-5 spacing is 25' it will be acceptable to install on the guardrail mid-span.

RFI 9 - Can plastic Thrie Beam spacer block be used in lieu of metal spacer block on sheet 13?

RFI 9 Response - Note 4 on Sheet 9 states the offset block (or blockout) shall be approved by the State. The State standard details on Sheet 13 indicate the spacer blocks are M14x17.2 (light beam structural steel).

RFI 10 - Can plastic spacer block be used in lieu of MGS Timber Blockout for Trailing end anchor on sheet 20?

RFI 10 Response - No, the State standard detail on Sheet 20 indicates the spacer blocks are item PDB10a (MGS timber blockout).

RFI 11 - Can Softstop be used in lieu of MSKT?

RFI 11 Response - No, the Softstop end treatments are primarily for guardrail systems along a tangent, which are not appropriate for the project.

RFI 12 - Can you please provide a drawing for both left and right asymmetrical transition from Thrie Beam to W-Beam?

RFI 12 Response - The State standard applies to both left and right asymmetrical transitions from Thrie Beam to W-Beam.

RFI 13 - Can you please provide a pay item for the Asymmetrical transition sections from Thrie Beam to W-beam?

RFI 13 Response - Remarks in the quantity table (Sheet 38) indicate the Thrie-Beam length includes the transitions. There are only 4 of these transitions on the project, and therefore, a separate pay item is not provided.

RFI 14 - Due to large contingency (10%) of Guardrail Material added to the project without call outs will the State purchase the left-over guardrail materials from the contractor at the end of the project? This is a large cost that the contractor will need to absorb if not used on the project.

RFI 14 Response - The guardrail material contingency is removed from the documents.

RFI 15 - Due to base bid & alternate #1, does the contractor submit two different DBE amounts on sheet P-4 of the **proposal? If so, can a new proposal sheet P-4 be provided?**

RFI 15 Response - **The DBE Goal for the Base Bid is 1.4 percent and the DBE Goal for the Base Bid Plus the Additive Alternative #1 is 1.5 percent(not the combined 2.9 percent). Yes, the bidder shall provide a DBE goal participation for both** bid scenarios (% for Base Bid and % for Base Bid Plus Additive Alternate #1). The bidder can use the space provided on P-4 to write in both DBE goal percentages. The following is an example for providing the DBE goal participation for both bid scenarios on P-4 of the Proposal Schedule: xx% & yy% = Base Bid % & Base Bid Plus Additive Alternate #1 %

RFI 16 - Can the completion time be increased from 180 working days - just the MASH A and Mod A anchors will take 180 days not to mention the over 24,000 LF of GR and almost 900 LF of Thrie Beam and 31 Ends and Transitions.

RFI 16 Response - Based on the scope of the project, the “completion time” on P-1 will be increased from 180 working days to “240 working days from the Start of Work Date from the Department.” The updated P-1 page of the Proposal Schedule is included in Addendum No. 1.

END OF RFI RESPONSES

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

PROJECT: HONOAPIILANI HIGHWAY
GUARDRAIL AND SHOULDER IMPROVEMENTS
VICINITY OF NORTH KIHEI ROAD TO HONONANA

**FEDERAL-AID
PROJECT NO.:** STP-030-1(058)R

COMPLETION TIME: 240 Working days from the Start Work Date
from the Department.

DBE PROJECT GOAL: Base Bid 1.4 percent
Base Bid Plus Additive Alternate #1 1.5 percent

DESIGN PROJECT MANAGER:

NAME: Larry D. Hail
ADDRESS: 650 Palapala Drive, Kahului, HI 96732
PHONE NO.: (808) 873-3535
EMAIL: larry.d.hail@hawaii.gov
FAX NO. 808-873-3544

**BASE BID
PROPOSAL SCHEDULE**

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.1000	Installation, Maintenance, Monitoring, and Removal of BMP	LS	LS	LS	\$ _____
209.2000	Additional Water Pollution, Dust, and Erosion Control	FA	FA	FA	\$ 25,000.00
401.0200	Hot Mix Asphalt (HMA) Pavement, Mix No. V at Guardrail Front, Under, Behind, and Beyond Terminals	530	Ton	\$ _____	\$ _____
606.1000	Guardrail Type MGS W-Beam and Spacer Blocks	13,212.5	LF	\$ _____	\$ _____
606.1500	Guardrail Type MGS W-Beam and Spacer Blocks with 8.0-Foot Post	450.0	LF	\$ _____	\$ _____
606.2000	Strong Post Thrie-Beam Guardrail	700.0	LF	\$ _____	\$ _____
606.2100	Strong Post Thrie-Beam Guardrail with 8.0-Foot Post	50.0	LF	\$ _____	\$ _____
606.3000	Type MGS Transition Section	3	EA	\$ _____	\$ _____
606.4000	MASH Type A End Treatment with Rubrail	22	EA	\$ _____	\$ _____
606.5000	Modified Type A-1 End Treatment with Rubrail	59	EA	\$ _____	\$ _____
606.6000	MFLT (TL-3) End Treatment	5	EA	\$ _____	\$ _____
606.7000	MSKT-SP-MGS8 (TL-3) End Treatment	3	EA	\$ _____	\$ _____
606.8000	Trailing End-Anchorage System	4	EA	\$ _____	\$ _____
606.9000	Slope Stabilization	FA	FA	FA	\$ 75,000.00
631.2000	Resetting Existing Signs and Mile Post Markers	FA	FA	FA	\$ 50,000.00
631.3000	Construction Sign With Post	40	EA	\$ _____	\$ _____
636.1000	E-Construction	FA	FA	FA	\$ 10,000.00
643.1000	Maintenance of Existing Landscape Areas	FA	FA	FA	\$ 25,000.00
645.0200	Traffic Control	LS	LS	LS	\$ _____
645.0210	Additional Police Officers, Additional Traffic Control Devices, And Advertisement	FA	FA	FA	\$ 50,000.00
648.0100	Field-Posted Drawing	LS	LS	LS	\$ _____
699.1000	Mobilization (Not to exceed 6% of the Sum of all items excluding bid price of this item).	LS	LS	LS	\$ _____

Sum of All Base Bid Items \$ _____

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

**ADDITIVE ALTERNATE #1
PROPOSAL SCHEDULE**

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
209.1000	Installation, Maintenance, Monitoring, and Removal of BMP	LS	LS	LS	\$ _____
209.2000	Additional Water Pollution, Dust, and Erosion Control	FA	FA	FA	\$ 15,000.00
401.0200	Hot Mix Asphalt (HMA) Pavement, Mix No. V at Guardrail Front, Under, Behind, and Beyond Terminals	230	Ton	\$ _____	\$ _____
606.1000	Guardrail Type MGS W-Beam and Spacer Blocks	7,925.0	LF	\$ _____	\$ _____
606.3000	Type MGS Transition Section	1	EA	\$ _____	\$ _____
606.6000	MFLT (TL-3) End Treatment	5	EA	\$ _____	\$ _____
606.7000	MSKT-SP-MGS8 (TL-3) End Treatment	2	EA	\$ _____	\$ _____
606.8000	Trailing End-Anchorage System	6	EA	\$ _____	\$ _____
606.9000	Slope Stabilization	FA	FA	FA	\$ 50,000.00
631.2000	Resetting Existing Signs and Mile Post Markers	FA	FA	FA	\$ 5,000.00
631.3000	Construction Sign With Post	20	EA	\$ _____	\$ _____
643.1000	Maintenance of Existing Landscape Areas	FA	FA	FA	\$ 15,000.00
645.0200	Traffic Control	LS	LS	LS	\$ _____
645.0210	Additional Police Officers, Additional Traffic Control Devices, And Advertisement	FA	FA	FA	\$ 25,000.00
648.0100	Field-Posted Drawing	LS	LS	LS	\$ _____
699.1000	Mobilization (Not to exceed 6% of the Sum of all items excluding bid price of this item).	LS	LS	LS	\$ _____

Sum of All Bid Additive Alternate #1 Items \$ _____

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

"General Decision Number: HI20230001 03/17/2023

Superseded General Decision Number: HI20220001

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: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

<p>If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<ul style="list-style-type: none"> . Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$16.20 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 2023.
<p>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<ul style="list-style-type: none"> . Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/06/2023
1	01/13/2023
2	01/27/2023
3	02/17/2023
4	02/24/2023
5	03/10/2023
6	03/17/2023

ASBE0132-001 06/05/2022

	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.....	\$ 42.80	25.85

BOIL0627-005 01/01/2021

	Rates	Fringes
BOILERMAKER.....	\$ 37.25	31.25

BRHI0001-001 09/05/2022

	Rates	Fringes
BRICKLAYER Bricklayers and Stonemasons.	\$ 47.24	31.33
Pointers, Caulkers and Weatherproofers.....	\$ 47.49	31.33

BRHI0001-002 09/05/2022

	Rates	Fringes
Tile, Marble & Terrazzo Worker Terrazzo Base Grinders.....	\$ 43.79	33.10
Terrazzo Floor Grinders and Tenders.....	\$ 42.24	33.10
Tile, Marble and Terrazzo Workers.....	\$ 45.60	33.10

CARP0745-001 10/01/2021

	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.....	\$ 51.25	24.84
Millwrights and Machine Erectors.....	\$ 51.50	24.84
Power Saw Operators (2 h.p. and over).....	\$ 51.40	24.84

CARP0745-002 10/01/2021

	Rates	Fringes
Drywall and Acoustical Workers and Lathers.....	\$ 51.50	24.84

ELEC1186-001 08/22/2022

	Rates	Fringes
Electricians:		
Cable Splicers.....	\$ 60.51	30.90
Electricians.....	\$ 53.55	30.69
Telecommunication worker....	\$ 34.94	13.69

ELEC1186-002 08/22/2022

	Rates	Fringes
Line Construction:		
Cable Splicers.....	\$ 60.51	30.90
Groundmen/Truck Drivers.....	\$ 40.16	25.34
Heavy Equipment Operators...	\$ 48.20	28.43
Linemen.....	\$ 53.55	30.69
Telecommunication worker....	\$ 34.94	13.69

ELEV0126-001 01/01/2023

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 68.08	37.335+a+b

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 Loader and 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, Liebherr, 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 09/01/2022

	Rates	Fringes
Ironworkers:.....	\$ 45.00	39.00
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.		

LAB00368-001 09/05/2022

	Rates	Fringes
Laborers:		
Driller.....	\$ 41.00	24.25
Final Clean Up.....	\$ 30.45	19.57
Gunite/Shotcrete Operator and High Scaler.....	\$ 40.50	24.25
Laborer I.....	\$ 40.00	24.25
Laborer II.....	\$ 37.40	24.25
Mason Tender/Hod Carrier....	\$ 40.50	24.25
Powderman.....	\$ 41.00	24.25
Window Washer (bosun chair).\$	39.50	24.25

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 tremie 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 unloading 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; Stripper (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.

 LAB00368-002 09/05/2022

	Rates	Fringes
Landscape & Irrigation Laborers		
GROUP 1.....	\$ 27.25	15.80
GROUP 2.....	\$ 28.25	15.80
GROUP 3.....	\$ 22.15	15.80

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 of landscaping 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 performance of other types of gardening, yardman, and horticultural-related work.

LAB00368-003 09/05/2022

	Rates	Fringes
Underground Laborer		
GROUP 1.....	\$ 40.60	24.25
GROUP 2.....	\$ 42.10	24.25
GROUP 3.....	\$ 42.60	24.25
GROUP 4.....	\$ 43.60	24.25
GROUP 5.....	\$ 43.95	24.25
GROUP 6.....	\$ 44.20	24.25
GROUP 7.....	\$ 44.65	24.25

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 Cabetenders; 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 01/01/2023

	Rates	Fringes
Painters:		
Brush.....	\$ 40.50	30.84
Sandblaster; Spray.....	\$ 40.50	30.84

PAIN1889-001 07/01/2022

	Rates	Fringes
Glaziers.....	\$ 41.50	38.37

* PAIN1926-001 03/05/2023

	Rates	Fringes
Soft Floor Layers.....	\$ 39.77	33.80

 PAIN1944-001 01/01/2023

	Rates	Fringes
Taper.....	\$ 44.60	33.65

 PLAS0630-001 09/05/2022

	Rates	Fringes
PLASTERER.....	\$ 45.00	33.58

 PLAS0630-002 08/31/2020

	Rates	Fringes
Cement Masons:		
Cement Masons.....	\$ 42.65	32.29
Trowel Machine Operators....	\$ 42.80	32.29

 PLUM0675-001 01/01/2023

	Rates	Fringes
Plumber, Pipefitter, Steamfitter & Sprinkler Fitter...	\$ 50.98	29.30

 ROOF0221-001 11/06/2022

	Rates	Fringes
Roofers (Including Built Up, Composition and Single Ply).....	\$ 43.15	21.21

 SHEE0293-001 03/05/2023

	Rates	Fringes
Sheet metal worker.....	\$ 47.37	31.71

 * SUHI1997-002 09/15/1997

	Rates	Fringes
Drapery Installer.....	\$ 13.60 **	1.20

	Rates	Fringes
FENCE ERECTOR (Chain Link Fence).....	\$ 9.33 **	1.65

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

=====

** Workers in this classification may be entitled to a higher
 minimum wage under Executive Order 14026 (\$16.20) or 13658
 (\$12.15). Please see the Note at the top of the wage
 determination for more information.

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 E0, 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 E0 is available at <https://www.dol.gov/agencies/whd/government-contracts>.

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 National Office because National Office has 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 DECISIO"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(058)R	2023	ADD.4	40

NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY

1. The Contractor shall obtain Permit to Perform Work upon State Highways from the Maui District Engineer, State Highways, at 650 Palapala Drive, prior to commencement of work within the State's highway right-of-way.
2. Removal, construction and restoration of all existing highway facilities within the State's right-of-way, including the legal relations and responsibility to the public, shall be in accordance with the current Hawaii Standard Specifications for Road and Bridge Construction, and the Specifications for Installation of Miscellaneous Improvements within State Highways, of the State Highways Division.
3. ~~Work may not be performed between the peak hours of 6:00 a.m. to 8:30 a.m. and from 3:00 p.m. to 6:00 p.m., Monday through Friday, except State holidays, unless when otherwise approved in writing by the District Engineer.~~ 
4. During work hours, only one lane of traffic shall be closed, unless otherwise approved in writing by the District Engineer. All lane closures must be approved by HDOT fifteen (15) working days in advance. All lane closures and detours shall require advisory signs and an advertisement per section 645.03 of the Standard Specifications.
5. At certain locations, "NO LANE CLOSURE" will be allowed during the "Back To School Jam", Thanksgiving weekend, Christmas/New Year Period and at other times as directed by the Highways Division.
6. The Contractor shall provide, install, and maintain all necessary signs, lights flares, barricades, markers, cones, and other protective facilities, and shall take all necessary precautions for the protection, convenience, and safety of public traffic. All such protective facilities and precautions to be taken shall conform with the "Administrative Rules of Hawaii Governing the Use of Traffic Control Devices at Work Sites on or Adjacent to Public Streets and Highways", adopted by the Director of Transportation, and the "U.S. Federal Highway Administration MUTCD - Manual on Uniform Traffic Control Devices, Part VI - Temporary Traffic Control, 2009 Edition",
7. No material and/or equipment shall be stockpiled or otherwise stored within the highway right-of-way, except at locations designated in writing and approved by the District Engineer.
8. The Contractor shall exercise care to minimize damages to existing highway improvements. All damages shall be repaired by the Contractor, at his expense, to the satisfaction of the District Engineer.
9. All regulatory, guide, and construction signs and barricades shall have a high-intensity Type III or IV retroreflective background.
10. The Contractor shall inform the State Highway's Permit Office (873-3535) by noon Wednesday, one week prior to closing any lanes.
11. Driveways shall be kept open unless the owners of the properties using these rights-of-way are otherwise provided for satisfactorily.
12. Where pedestrian walkways exist they shall be maintained in a safe and passable conditions, or other facilities for pedestrians shall be provided. Passages between walkways at intersections shall likewise be provided. All walkways shall conform to ADA requirements.
13. The Contractor shall exercise care when performing work in or adjacent to the State highway right-of-way. Damages to the existing facilities shall be immediately reported to the respective utility companies, and/or City or State agencies. The repair work shall be done at the Contractor's expense.
14. Highway lights shall be operational during construction. Should work be necessary, the contractor shall notify the State Highways' Highway Lighting Supervisor (873-3535), three (3) working days prior to commencing work.
15. The Permit to Perform Work upon State Highways may be revoked because of default in any of the following, but not limited to, conditions:
 - a. Work performed before of after permitted hours.
 - b. Failure to maintain roadway surfaces in a smooth and safe condition.
 - c. Failure to clean up construction debris generated from project work.
 - d. Failure to provide proper traffic control.
 - e. Failure to replace damaged pavement markings and signs.
 - f. Failure to maintain highway lights and traffic signals systems.
 - g. Failure to address public complaints to the satisfaction of the District Engineer.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	3/23
mei,ay	TRACED BY	
skh/mj/madgn	mei,ay	
	QUANTIFIED BY	
	CHECKED BY	



4-13-23 Delete Notes For Construction Within State Right-Of-Way Note 3.

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GENERAL NOTES
HONOAPIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of North Kihei Road to Hononana
Federal-Aid Project No. STP-030-1(058)R
Date: March, 2023

SHEET No. 2 OF 2 SHEETS

ADD. 4

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(058)R	2023	ADD.38	40

GUARDRAIL SUMMARY - BASE BID (MAKAI "OCEAN" SIDE)									
Project Guardrail Segment	Guardrail Type MGS (LF) (a)	Strong Post Thrie-Beam (LF) (a)	Type MGS Trans. Section (d)	End Terminal Treatment					Remarks (h)
				MASH Type A (e)	Modified Type 1-A (e)	MFLT (TL-3) (f)	MSKT-SP-MGS8 (TL-3) (e)	Trailing-End Anchorage System (g)	
Sta 65+15± to 72+65± Lt. (b)	662.5			1		1			100' Type MGS with 8-Ft. Posts
Sta 72+85± to 79+85± Lt.	625.0			1				1	
Sta 81+20± to 83+55± Lt. (b)	137.5			1			1		100' Type MGS with 8-Ft. Posts
Sta 85+25± to 93+25± Lt.	712.5			1		1			
Sta 93+60± to 94+85± Lt.	50.0				1			1	
Sta 97+70± to 103+45± Lt.	475.0			1	1				
Sta 105+95± to 108+95± Lt.	200.0			2					
Sta 371+75± to 376+65± Rt.	400.0			1		1			
Sta 365+15± to 371+45± Rt.	562.5				1			1	
Sta 355+95± to 364+05± Rt.	712.5				2				
Sta 346+00± to 352+10± Rt.	200.0	325.0			1	1			Thrie-Beam length includes transitions
Sta 334+40± to 345+00± Rt.	887.5	100.0			1			1	Thrie-Beam length includes transitions
Sta 327+45± to 332+05± Rt.	362.5				2				
Sta 320+70± to 323+55± Rt.	187.5				2				
Sta 316+20± to 318+30± Rt.	112.5				2				
Sta 309+20± to 315+05± Rt. (b)	487.5				2				100' Type MGS with 8-Ft. Posts
Sta 303+70± to 307+05± Rt.	237.5				2				
Sta 297+20± to 300+30± Rt.	212.5				2				
Sta 290+45± to 295+55± Rt.	412.5			1	1				
Sta 286+45± to 290+05± Rt.	262.5			2					
Sta 279+85± to 284+05± Rt.	325.0			1	1				
Sta 270+55± to 277+80± Rt.	625.0				2				
Sta 261+45± to 265+55± Rt.	312.5			1	1				
Sta 251+85± to 255+12± Rt.	237.5		1		1				Exist. trailing end terminal to remain (19')
Sta 244+80± to 247+05± Rt.	125.0				2				
Sta 235+85± to 240+85± Rt.	400.0				2				
Sta 224+70± to 234+05± Rt.	837.5				1		1		
Base Bid (Makai) - Sub-Totals:	10,762.5	425.0	1	13	30	4	2	4	
△ Totals plus 10% Contingency:	11,850.0	475.0	1	14	33	4	2	4	

- (a) Length rounded up to nearest 12.5-Foot increment
- (b) Includes Type MGS with 8-Ft. Posts
- (c) Includes Thrie-Beam with 8 Ft. Posts
- (d) Type MGS transition section (±25 LF, Each)
- (e) Average limit of payment (±50 LF, Each)
- (f) Average limit of payment (±40.0 LF, Each)
- (g) Average limit of payment (±25 LF, Each)
- (h) Length of existing end treatments estimated
- △ (i) Bid Alternative Sub-Totals include 10% Contingency

SURVEY PLOTTED BY _____ DATE 3/23
 DRAWN BY _____
 TRACED BY _____
 NOTE BOOK _____
 QUANTITIES BY _____
 CHECKED BY _____

△	4-13-23	Delete Totals Plus 10% Contingency Quantities
△	4-13-23	Delete Footnote (i)
DATE	REVISION	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
GUARDRAIL SUMMARY
 HONOAPIILANI HIGHWAY
 GUARDRAIL & SHOULDER IMPROVEMENTS
 Vicinity of North Kihei Road to Hononana
 Federal-Aid Project No. STP-030-1(058)R
 Date: March, 2023
 SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(058)R	2023	ADD.39	40

GUARDRAIL SUMMARY - BASE BID (MAUKA "MOUNTAIN" SIDE)									
Project Guardrail Segment	Guardrail Type MGS (LF) (a)	Strong Post Thrie-Beam (LF) (a)	Type MGS Trans. Section (d)	End Terminal Treatment					Remarks (h)
				MASH Type A (e)	Modified Type 1-A (e)	MFLT (TL-3) (f)	MSKT-SP-MGS8 (TL-3) (e)	Trailing-End Anchorage System (g)	
Sta 69+55± to 71+30± Rt.	75.0			2					
Sta 75+45± to 77+45± Rt.	100.0			2					
Sta 80+75± to 83+25± Rt. (b)	150.0			2					50.0' Type MGS with 8-Ft. Posts
Sta 98+95± to 103+45± Rt. (b)	350.0			1	1				100.0' Type MGS with 8-Ft. Posts
Sta 371+90± to 375+75± Lt.	300.0			1		1			
Sta 365+95± to 367+55± Lt.	62.5				2				
Sta 363+20± to 364+05± Lt.	0.0				2				
Sta 355+95± to 360+05± Lt.	312.5				2				
Sta 347+50± to 350+75± Lt. (c)	0.0	325.0							50.0' Thrie-Beam with 8-Ft. Posts/New Connectors
Sta 335+95± to 338+05± Lt.	112.5				2				
Sta 327+45± to 329+05± Lt.	62.5			1	1				
Sta 321+20± to 324+30± Lt.	212.5				2				
Sta 309+45± to 314+30± Lt.	387.5				2				
Sta 304+75± to 306+30± Lt.	62.5				2				
Sta 298+45± to 300+05± Lt.	62.5				2				
Sta 286+95± to 289+55± Lt.	162.5				2				
Sta 279+95± to 283+05± Lt.	212.5				2				
Sta 270+95± to 272+45± Lt.	50.0				2				
Sta 262+45± to 263+20± Lt.	0.0				2				
Sta 258+30± to 259+90± Lt.	75.0		1		1				Exist. end terminal to remain (19')
Sta 253+95± to 255+12± Lt.	25.0		1		1				Exist. end terminal to remain (19')
Sta 225+85± to 228+10± Lt.	125.0				1		1		
Base Bid (Mauka) - Sub-Totals:	2,900.0	325.0	2	9	29	1	1	0	
-Totals plus 10% Contingency:	3,200.0	362.5	2	10	32	1	1	0	⚠

GUARDRAIL SUMMARY (ADDITIVE ALTERNATE #1)									
Project Guardrail Segment	Guardrail Type MGS (LF) (a)	Strong Post Thrie-Beam (LF) (a)	Type MGS Trans. Section (d)	End Terminal Treatment					Remarks (h)
				MASH Type A (e)	Modified Type 1-A (e)	MFLT (TL-3) (f)	MSKT-SP-MGS8 (TL-3) (e)	Trailing-End Anchorage System (g)	
Sta 78+00± to 86+60± Lt.	800.0		1			1			Connect new guardrail to exist. guardrail section
Sta 131+60± to 146+40± Lt.	1,412.5						1	1	
Sta 143+75± to 144+85± Rt.	50.0					1		1	
Sta 146+80± to 154+50± Lt.	712.5					1		1	
Sta 156+00± to 169+00± Lt.	1,237.5					1		1	
Sta 176+50± to 181+00± Lt.	375.0						1	1	
Sta 200+50± to 234+50± Lt.	3,337.5					1		1	
Totals:	7,925.0	0	1	0	0	5	2	6	
-Totals plus 10% Contingency:	8,725.0	0	1	0	0	6	2	7	⚠

(a) Length rounded up to nearest 12.5-Foot increment
(b) Includes Type MGS with 8-Ft. Posts
(c) Includes Thrie-Beam with 8 Ft. Posts
(d) Type MGS transition section (±25 LF, Each)
(e) Average limit of payment (±50 LF, Each)
(f) Average limit of payment (±40.0 LF, Each)
(g) Average limit of payment (±25 LF, Each)
(h) Length of existing end treatments estimated
(i) Bid Alternative Sub-Totals include 10% Contingency

GUARDRAIL SUMMARY (TOTAL QUANTITIES) ⚠									
Project Guardrail Segment (i) ⚠	Guardrail Type MGS (LF) (a)	Strong Post Thrie-Beam (LF) (a)	Type MGS Trans. Section (d)	End Terminal Treatment					Remarks (h)
				MASH Type A (e)	Modified Type 1-A (e)	MFLT (TL-3) (f)	MSKT-SP-MGS8 (TL-3) (e)	Trailing-End Anchorage System (g)	
Base Bid Sub-Totals:	13,662.5	750.0	3	22	59	5	3	4	
Additive Alternate #1 Bid Sub-Totals:	7,925.0	0.0	1	0	0	5	2	6	
Totals:	21,587.5	750.0	4	22	59	10	5	10	

⚠	4-13-23	Delete Totals Plus 10% Contingency Quantities
⚠	4-13-23	Delete Footnote (i)
⚠	4-13-23	Revise Quantities In Guardrail Summary (Total Quantities) Table
DATE	REVISION	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL SUMMARY
HONOAPIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of North Kihei Road to Hononana
Federal-Aid Project No. STP-030-1(058)R

Date: March, 2023

SHEET No. 2 OF 2 SHEETS

SURVEY PLOTTED BY: DATE: 9/22
DRAWN BY: JH
CHECKED BY: mel/aj
ORIGINAL PLAN: 10/2021
NOTE BOOK: 10/2021
RESPONSIBLE: 10/2021