STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 2

FOR

MOKULELE HIGHWAY WIDENING
VICINITY OF KEALIA POND DRIVEWAY TO PIILANI HIGHWAY
FEDERAL-AID PROJECT NO. NH-A311(4)
DISTRICT OF WAILUKU
ISLAND OF MAUI

FY 2006

The following amendments shall be made to the Bid Documents:

A. SPECIAL PROVISIONS

1. Replace Table of Contents, Page 3, dated r3/15/06 with the attached Table of Contents, Page 3, dated r5/8/06.

2. The attached "Section 661 – Substrates with Lead - Containing Paint", pages 661-1a thru 661-12a, dated r5/1/06, shall be incorporated and made a part of the Special Provisions.

3. The attached "Section 662 – Asbestos – Containing Material (ACM)", pages 662-1a thru 662-12a, dated r5/1/06, shall be incorporated and made a part of the Special Provisions.

4. Replace the Federal Wage Rate Schedule dated 03/17/2006 with the attached Federal Wage Rate Schedule dated 04/14/2006.

B. PROPOSAL SCHEDULE

1. Replace Pages P-8 thru P-17 dated 7/27/05 with the attached Pages P-8 thru P-17 dated r5/1/06. The revised proposal corrects the description for Item No. 604.0706 to read "Type 61614P Grated Drop Inlet, 5.00 feet to 6.99 feet" and adds "Item No. 661.0100 Substrate with Lead-Containing Paint Removal and Disposal" and "Item No. 662.0100 Asbestos-Containing Material, Testing, Removal, and Disposal"

C. PLANS

1. Replace Plan Sheet Nos. 65, 66, and 67 with the attached Plan Sheet Nos. ADD 65, ADD 66, and ADD 67. The original bid set of plan sheets contained printing errors in which the new highway alignment features are not shown on the Culvert Detail sheets.

Please acknowledge receipt of this Addendum No. 2 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

RODNEY K. HARAGA
Director of Transportation

DIVISION 600 - INCIDENTAL CONSTRUCTION		
Section	**Description**	**Pages**
601	Structural Concrete	601-1a - 601-14a
602	Reinforcing Steel	602-1a - 602-2a
603	Culverts and Storm Drains	603-1a - 603-13a
604	Manholes, Inlets and Catch Basins	604-1a - 604-7a
605	Underdrains	605-1a - 605-2a
606	Guardrail	606-1a - 606-6a
607	Fences	607-1a - 607-6a
608	Concrete Islands	608-1a - 608-3a
609A	Portland Cement Concrete Curb and Gutter	609A-1a - 609A-4a
611	Hand-Laid Riprap	611-1a - 611-3a
612	Grouted Rubble Paving	612-1a
613	Centerline and Reference Survey Monuments	613-1a - 613-3a
614	Standard Street Survey Monuments	614-1a - 614-3a
617	Planting Soil	617-1a - 617-2a
618	Grassed Surfaces	618-1a - 618-4a
619	Planting and Transplanting	619-1a - 619-12a
621A	Traffic Control Guide Signs	621A-1a - 621A-7a
621B	Traffic Control Regulatory, Warning, and Miscellaneous Signs	621B-1a - 621B-3a
621C	Markers	621C-1a - 621C-2a
622	Roadway Lighting and Electrical System	622-1a - 622-9a
623	Traffic Signal System	623-1a - 623-16a
624	Water System	624-1a - 624-2a
629	Pavement Markings	629-1a - 629-11a
636	Field Office and Project Site Laboratory Trailer	636-1a - 636-6a
645	Work Zone Traffic Control Devices	645-1a - 645-17a
648	Field Posted Drawings	648-1a
655	Drilling Holes and Installing Dowel Reinforcing Bars	655-1a
661	Substrate with Lead-Containing Paint Removal and Disposal	661-1a - 661-12a
662	Asbestos-Containing Material, Testing, Removal, and Disposal	662-1a - 662-12a
698	Training	698-1a - 698-4a
699	Mobilization	699-1a - 699-2a

Make the following Section a part of the Standard Specifications:

"SECTION 661 - SUBSTRATES WITH LEAD-CONTAINING PAINT

661.01 Description. This section describes worker protection, air monitoring, demolition debris testing and debris disposal to be employed during demolition of structures with lead-containing paint (LCP).

All paint occurring on concrete at that structure shall be completely removed, collected and tested to determine appropriate disposal prior to demolition. Workers performing demolition shall wear personal protective equipment as specified herein.

Inform employees, Subcontractors and all other persons engaged in the project that lead containing paints (LCP) is present in the existing building(s) and at the job site. Follow the requirements of Title 12 (Department of Labor and Industrial Relations), Subtitle 8 (Division of Occupational Safety and Health), Chapter 148 (Lead Exposure in Construction), Hawaii Administrative Rules.

(A) General Provisions. As specified in Division 100.

661.02 Submittals. Delays due to inadequate submittals shall not constitute a cause for contract time extension or additional payment. Illegible, unsigned, expired or otherwise invalid certificates shall not be submitted; receipt of these may cause the entire submittal to be rejected.

(A) Initial Submittals. The Contractor shall submit the following items to the Engineer a minimum of 10 working days before work under this section begins.

(1) Work Plan.

(2) Waste Management and Renovation Plan.

(3) Manufacturer's Catalog Data for vacuum filters, respirators, chemical paint remover specification sheets and material safety data sheets and ventilation equipment.

(4) Worker and supervisor training, respirator fit test, worker fitness and medical clearance certifications. Submission of expired worker certifications may cause the submittal to be rejected.

(5) Qualifications of the Contractor's Industrial Hygiene Technician (IHT). Submit name, address and telephone number, lead contractor supervisor training certificate and previous lead abatement monitoring experience of the Contractor's IHT selected

to perform responsibilities identified herein.

(6) The name, address and telephone number of the Contractor's testing laboratory selected to perform TCLP-lead and air monitoring sample analysis and reporting. Provide proper documentation that persons performing the analysis have been judged proficient by successful participation within the last year in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing (PAT) Program for lead.

(7) Respiratory Protection Program.

(8) Hazard Communication Program.

(9) Proposed Schedule of Work. Notify the Engineer in writing of the proposed schedule a minimum of ten (10) working days prior to the start of work under this section.

(10) Rental Equipment Notification. If rental equipment is to be used during LCP handling and disposal, notify the rental agency in writing concerning the intended use of the equipment, and furnish a copy of the notification to the Engineer.

(B) Submittal Items During Work. The Contractor's IHT shall submit air sample results to the Engineer within 3 working days, (except for the initial determination results which shall be submitted within 48 hours) signed by the testing laboratory performing the air monitoring, the employee that analyzed the sample and the Contractor's IHT.

(C) Post-Work Submittal Items.

(1) If hazardous waste is generated and disposed of, submit EPA Hazardous Waste Generator Identification numbers, hazardous waste permits, and completed and signed hazardous waste manifest from treatment or disposal facility. Submit written evidence that the hazardous waste treatment, storage, or disposal facility is approved for land disposal by the EPA and state or local regulatory agencies. Submit one copy of the completed manifest, signed and dated by the initial transporter in accordance with 40 CFR 262. The EPA Hazardous Waste Generator Identification numbers shall be obtained by the Contractor.

(2) The Contractor's IHT shall certify to the Engineer in writing that, evidenced by test results, respiratory protection for the employees was adequate, that upon completion of lead disturbance

and cleaning, there were no visible accumulations of lead-contaminated paint and dust on the worksite, and that the Contractor's work procedures were in accordance with the requirements of 29 CFR 1926.62 and this specification.

661.03 References. The following publications and all amendments form a part of this Section to the extent referenced. Reference is by basic designation only.

(A) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), Z88.2 1980, Practices for Respiratory Protection

(B) CODE OF FEDERAL REGULATIONS (CFR)

29 CFR 1926.21	Safety Training and Education
29 CFR 1910.134	Respiratory Protection
29 CFR 1910.1200	Hazard Communication
29 CFR 1926.55	Gases, Vapors, Fumes, Dusts, and Mists
29 CFR 1926.59	Hazard Communication Standard for the Construction Industry
29 CFR 1926.62	Lead Exposure in Construction
40 CFR 178	Shipping Container Specification
40 CFR 260	Hazardous Waste Management Systems: General
40 CFR 261	Identification and Listing of Hazardous Waste
40 CFR 262	Generators of Hazardous Waste
40 CFR 263	Transporters of Hazardous Waste
40 CFR 264	Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 265	Interim Status Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 268	Land Disposal Restrictions
40 CFR 745	Lead; Requirements for Disclosure of Known Lead-Based Paint and/or Lead-Based Paint Hazards in Housing
49 CFR 172	Part 172 Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements

(C) UNDERWRITERS LABORATORIES INC. (UL) 586 1990 High-Efficiency Particulate Air Filter Units

(D) STATE OF HAWAII: HAWAII OCCUPATIONAL SAFETY AND HEALTH (HIOSH) 12-202-33 (Section 8), Health Standards for Occupational Exposure to Lead

(E) EPA METHODS, SW 486, Test Methods for Evaluating Solid Waste - Physical/Chemical Methods

(F) NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH) 7082 NIOSH Manual of Analytical Methods: Lead

661.04 Definitions.

(A) Action Level. Employee exposure, without regard to use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air averaged over an 8-hour period. As used in this section, "action level" refers to an airborne lead concentration of 30 micrograms per cubic meter of air.

(B) Area Monitoring. Sampling of airborne lead concentrations within the lead control area and inside the physical boundaries which is representative of the airborne lead concentrations which may reach the breathing zone of persons potentially exposed to lead.

(C) Contractor. The Contractor refers to the Subcontractor, including any Sub-subcontractors, performing this portion of the Work and disposal of lead-containing paint components on the existing structures. Subcontractor and Sub-subcontractor are as defined in the General Conditions. The Contractor shall comply with all federal, state, and local regulations and requirements of this Section.

(D) Background Air Testing. Background air testing shall be performed using a minimum of two samples within the work area and one outside of the work area. Background samples shall be collected before work disturbing lead-containing paint begins.

(E) Eight-Hour Time Weighted Average (TWA). Airborne concentration of lead averaged over an 8-hour workday to which an employee is exposed.

(F) High Efficiency Particulate Air (HEPA) Filter Equipment. HEPA filtered vacuuming equipment with a UL 586 filter system capable of collecting and retaining lead-contaminated paint dust. A high efficiency particulate filter means 99.97 percent efficiency against 0.3 micron size particles.

(G) Industrial Hygiene Technician (IHT). An individual or firm qualified to conduct lead abatement project monitoring, including air testing and wipe testing. The IHT shall have completed the equivalent of EPA's training curricula for "Lead Paint Abatement for Supervisors and Contractors". The IHT shall not be an employee, relative, spouse, nor

have any monetary interest in the Contractor's company nor in the Engineer's. The IHT shall be available on Maui during the work.

(H) Lead. Metallic lead, inorganic lead compounds, and organic lead soaps. Excluded from this definition are other organic lead compounds.

(I) Lead Control Area. A demarcated area around existing structures or building components, which have lead-containing painted surfaces, to inhibit the spread of debris of lead paint during renovation and disposal of the existing lead painted items, including required warning signs at the demarcation boundary.

(J) Lead Permissible Exposure Limit (PEL). Fifty micrograms per cubic meter of air as an 8-hour time weighted average as determined by 29 CFR 1926.62 and State of Hawaii (HIOSH) Health Standards for Lead, 12-202-33. If an employee is exposed for more than 8 hours in a work day, the PEL shall be determined by the following formula: PEL (micrograms/cubic meter of air) = 400/No. hrs worked per day.

(K) Personal Monitoring. Sampling of lead concentrations within the breathing zone of employees to determine the 8-hour time weighted average concentration in accordance with 29 CFR 1926.62 and State of Hawaii Occupational (HIOSH) Health Standards for Lead, 12-202-33. Samples shall be representative of the employee's work tasks. The breathing zone shall be considered a volume within a hemisphere, forward of the shoulders, with a radius of 6 to 9 inches and the center at the nose or mouth of an employee.

661.05 Quality Assurance.

(A) Industrial Hygienist Responsibilities. The Contractor shall retain and pay for the services of a IHT whose responsibilities on this project shall include:

(1) Review worker training certificates to be submitted to the Engineer, to determine if the training is appropriate and current for the type of work to be performed on this project.

(2) Review and approve the Contractor's Waste Management and Work Plans, for conformance to all applicable standards.

(3) Certify that the Contractor has cleaned each demolition site of visible lead-containing paint debris at the completion of demolition.

(4) Performance of personal air monitoring as required by

OSHA and as specified herein.

(B) Personnel Training. All personnel performing work involving lead-containing paint shall be trained in renovation, disposal, and air sampling operations prior to the time of initial job assignment, in accordance with 29 CFR 1926.62, State of Hawaii Occupational Safety and Health (HIOSH) 12-202-33, 29 CFR 1926.59 and 29 CFR 1926.21. The Contractor shall submit worker training certificates to the Engineer, signed and dated by the training provider and by each employee stating that the employee has received training. Copies of worker training records shall be available on site, and workers for whom valid, current training records are not available onsite shall not be permitted to enter the work area.

(C) Respiratory Protection Program. The Contractor shall establish and implement a respiratory protection program as required by ANSI Z88.2, 29 CFR 1910.134, 29 CFR 1926.62, and 29 CFR 1926.55, and shall conduct a respirator fit test on each employee required to wear a negative pressure respirator or other appropriate type, at the time of initial fitting and at least every six months thereafter as required by 29 CFR 1926.62.

(D) Hazard Communication Program. The Contractor shall establish and implement a Hazard Communication Program as required by 29 CFR 1910.1200 and 1926.59.

(E) Waste Classification and Management. Concentrated LCP wastes generated by demolition operations (scrapings, chips, etc.) shall be separately collected and TCLP tested for lead to determine the appropriate method of disposal.

(1) The Contractor shall develop a written program to establish and implement practices and procedures for handling, transport and disposal of hazardous wastes generated by the project. The program shall effectively and clearly communicate the means for complying with this classification and EPA regulations and procedures for the classifying, handling, and disposal of solid and liquid waste. Generic statements or a generic plan shall not be used. Specific methods, procedures, and details are required. The waste management plan shall also comply with applicable requirements of other federal, state and local waste/hazardous waste regulations and address:

(a) The estimated quantities of hazardous waste to be generated and disposed of.

(b) Names and qualifications of each Subcontractor and Sub-subcontractor that will be transporting, storing, treating, or disposing of hazardous wastes. Include the facility location and 24-hour point of contact. If applicable, furnish two copies of EPA hazardous waste permits and EPA Identification numbers.

(c) Names and qualifications (experience and training) of personnel who will be working on-site with lead waste material, if applicable.

(d) List of waste handling equipment to be used in performing the work to include cleaning, volume reduction, and transport equipment.

(e) Spill prevention, containment, and cleanup contingency measures to be implemented, if applicable.

(f) Elimination of runoff of water used to minimize dust from the work.

(g) Work plan and schedule for waste containment, removal and disposal. Wastes shall be cleaned up and containerized daily.

(h) Unit costs for hazardous waste disposal according to the plan.

(F) Safety and Health Compliance. In addition to the detailed requirements of this specification, comply with laws, ordinances, rules and regulations of federal, state and local authorities regarding removing, handling, storing, transporting and disposing of lead waste materials. Comply with the applicable requirements of the current issue of 29 CFR 1926.62 and State of Hawaii Occupational Safety and Health (HIOSH) 12-202-33. Where requirements of this Section and the referenced documents vary, the most stringent requirement shall apply.

661.06 Materials.

(A) Personal Protective Equipment (PPE). Furnish the Engineer with two complete sets of PPE daily, consisting of disposable whole body covering, including appropriate foot, head and hand protection, for entry into and inspection of the work within the lead control area. Furnish personnel who will be exposed to lead-contaminated dust with similar PPE. PPE shall include fitted respirators approved by NIOSH,

Department of Health and Human Services, for use in atmosphere containing lead dust. Respirators shall comply with the requirements of 29 CFR 1926.62. All PPE shall remain the property of the Contractor and shall not be taken home.

(B) Vacuum Filters. Use UL 586 labeled HEPA filters.

(C) Rental Equipment. If rental equipment is to be used during lead-containing paint handling and disposal, notify the rental agency in writing concerning the intended use of the equipment.

(D) Paint Strippers. Strippers containing methylene chloride shall not be used.

(E) Power Tools. Power tools which have the potential to generate dust shall be fitted with HEPA-filtered vacuum exhaust.

661.07 Construction Requirements.

(A) Notification. Notify the Engineer in writing 10 days prior to the start of work.

(B) Demarcated Control Area. Establish a lead control area accordance with the approved work plan, by physically demarcating an area around the structures and components to be demolished, to prevent entry of unauthorized personnel. Warning signs shall be placed at the boundary and approaches to lead control areas, located at such a distance that personnel may read the sign and take necessary precautions before entering the area. Signs shall comply with the requirements of 29 CFR 1926.62.

(C) Restrictions on Activities. Eating, drinking and smoking shall be permitted only in areas designated by the Contractor, and which are free of dust or airborne debris generated by the work. No eating, smoking or drinking is permitted within the lead control area.

(D) Use of PPE. Personnel within the demarcated work area shall wear respirators and use protective clothing and equipment as specified herein. No one will be permitted in the lead control area unless they have been given appropriate training, protective equipment and medical examinations. If the Contractor's personnel monitoring results covering a period of at least two days show lead dust concentrations to be below the action level, the requirements for respirators, protective clothing and equipment will be at the discretion of Contractor's IHT.

(E) Excessive Airborne Lead. If airborne lead levels are at or exceed the action level, the Contractor's IHT shall immediately notify the

Engineer and stop all work in the lead control area. Work shall not resume until the work practices which cause the elevated lead levels have been identified and modified so that airborne lead levels remain below the action level for the remainder of the work.

661.08 Work Procedures.

(A) Cleanliness. The Contractor shall maintain all surfaces within the lead control area free of accumulations of paint chips and dust.

(B) Visible Emissions. The Contractor shall control lead dust emissions from the project site so that no visible lead dust emissions leave the project work areas during the work. Wet methods or other engineering controls shall be used to control the emission of dust and/or debris from the work site in accordance with all applicable federal, state, and local regulations. Visible emissions shall be cause for immediate shut down of the project until corrective measures are implemented.

(C) Control of Airborne Lead Levels. The Contractor shall control the lead level outside of the work boundary to less than the action level at all times. The Engineer shall conduct area monitoring at the work area boundaries to ensure that at all times, unprotected personnel are not exposed to lead at concentrations above the action level. If the outside boundary lead levels are at or exceed the action level, the Engineer will notify the Contractor who shall immediately identify and correct the condition(s) causing the increased levels.

(D) Dust Control. Water may be used to control airborne emissions of dust, but only in sufficient quantity to adequately control dust. All water used for dust control, and that which may be contaminated with LCP paint, shall not be allowed to run off from the lead control area, but shall be collected, filtered through a 5 micron filter and tested to determine proper disposal. Copies of the test results shall be provided to the Engineer. Filtrate containing LCP shall be disposed of as hazardous waste.

(E) Limit Contamination. If adjacent areas are contaminated, the Contractor shall clean and visually inspect the contaminated areas. The Contractor's IHT shall certify that affected areas have been cleaned of lead contamination.

(F) Work Area Exit. Whenever personnel exit the lead control area, they shall perform the following procedures and shall not leave the work place wearing any clothing or other equipment worn during the work day:

(1) Vacuum themselves off with HEPA-filtered vacuum equipment.

(2) Remove disposable protective clothing and place it in an approved impermeable disposal bag for disposal as hazardous waste.

(3) Clean work boots, clothing or equipment to ensure that dust and/or debris from the work area is not carried on into areas beyond the lead control area.

661.09 Air Monitoring. The Contractor shall monitor airborne lead levels in accordance with 29 CFR 1926.62 and as specified herein. Personnel air monitoring shall be performed and paid for by the Contractor's IHT under his direction. Area air monitoring, testing and reporting may be performed by the Engineer.

(A) Initial Monitoring. The Contractor's IHT shall conduct initial monitoring of air in the breathing zone of employees anticipated to have the greatest risk of exposure to airborne lead. Personnel monitoring shall be accomplished by full shift monitoring for a period of two (2) days, on at least 25 percent of the work crew or a minimum of two employees, whichever is greater, during each work shift. During initial determination monitoring, all workers shall be provided with a minimum of half-mask air-purifying respirators and disposable protective clothing.

(B) Air Sample Analysis. At the end of the period of initial determination, personnel air samples shall be analyzed by NIOSH Method 7082 or equivalent and a recommendation provided by the Contractor's IHT as to levels of protection required by similar work.

(C) Field Sampling Log. The Contractor shall maintain a field sampling log which shall include: all sample identification numbers, date and time sampled, sample locations, sampler's initials, date sent to the analytical laboratory, and date results reported.

(D) Excessive Airborne Lead. If airborne lead levels exceed the action level at or around the project site, the Contractor shall perform the following actions at no additional cost to the Engineer:

(1) Terminate all work until the area is cleaned.

(2) Vacuum contaminated areas using HEPA-filtered equipment.

(3) Pay for additional testing of those areas requiring cleaning to verify that the appropriate lead level is attained.

(E) Work Practice Revisions. Whenever work practices are changed or modified, initial monitoring of worker breathing zone air, analysis and submission of results to Engineer shall be repeated.

(F) Engineer's Review. The Engineer shall review the sampling data collected for ANY day on which the lead air work area boundary levels exceeded the action level to determine if condition(s) require any further change in work methods. Work shall continue when approval is given by the Engineer.

(G) Cooperation with Engineer. The Contractor shall cooperate and provide access for the Engineer to conduct air monitoring daily during each shift in which work is performed which disturbs LCP, in areas immediately adjacent to the lead control area.

661.10 Cleanup and Disposal.

(A) IHT Certification. Upon completion of demolition of each building, the Contractor's IHT shall certify in writing that:

(1) the respiratory protection for the employees was adequate,

(2) work procedures were performed in accordance with 29 CFR 1926.62 and this specification,

(3) no visible accumulations of lead-contaminated paint and dust remain at the worksite.

(B) Demarcated Area. Do not remove the lead control area boundary or warning signs prior to the Engineer's receipt of the Contractor's certification. Reclean areas showing dust or residual paint chips.

(C) Waste Containerization. The Contractor shall collect and containerize all lead-contaminated waste, scrap, debris, bags, containers, equipment, and lead-contaminated clothing which may produce airborne concentrations of lead particles. Demolition debris containing wood from the structures shall be packed, labeled, and marked and placarded (if required) in accordance with EPA regulations contained in 40 CFR 262.30-33 and DOT regulations contained in 49 CFR 172.

661.11 Waste Transportation and Disposal.

(A) Hazardous Waste Transportation and Disposal. Wastes designated herein or found to be hazardous shall be handled, stored, transported, and disposed of in accordance with 40 CFR Parts 260

through 265, at an EPA-approved hazardous waste treatment, storage, or disposal facility. Comply with land disposal restriction notification requirements as required by 40 CFR 268. The Contractor shall comply with all applicable federal, state, and local regulations regarding the transportation and disposal of solid and liquid waste determined to be hazardous by other testing procedures, as necessary.

(B) Non-hazardous Waste Transportation and Disposal. The Contractor shall comply with all applicable federal, state and local regulations concerning the transportation and disposal of non-hazardous waste. Wastes determined to be non-hazardous shall be disposed of as general construction debris.

661.12 Method of Measurement. The Engineer will measure substrate with lead-containing paint removal and disposal on a force account basis in accordance with Subsection 109.04 - Payment for Additional and Force Account Work and as ordered by the Engineer.

661.13 Basis of Payment. The Engineer will pay for the accepted pay items listed below on a force account basis. Payment will be full compensation for the work prescribed in this section and the contract documents.

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

Pay Item	**Pay Unit**
Substrate with Lead-Containing Paint Removal and Disposal	Force Account

An estimated amount for the force account may be allocated in the proposal schedule under 'Substrate with Lead-Containing Paint Removal and Disposal," but the actual amount to be paid will be the sum shown on the accepted force account records, whether this sum be more or less than the estimate allocated in the proposal schedule."

END OF SECTION 661

Make the following Section a part of the Standard Specifications:

"SECTION 662 – ASBESTOS – CONTAINING MATERIAL (ACM)

662.01 Description. This section describes testing requirements, worker protection, air monitoring, demolition debris testing and debris disposal to be employed during demolition of structures with asbestos – containing material (ACM).

This Section specifies the procedures for removal of existing asbestos – containing materials (ACM) in structures to be demolished and disposal of removed materials.

(A) General Provisions. As specified in Division 100.

662.02 Submittals. Delays due to inadequate submittals shall not constitute a cause for contract time extension or additional payment. Illegible, unsigned, expired or otherwise invalid certificates shall not be submitted; receipt of these may cause the entire submittal to be rejected.

(A) Initial Submittals. The Contractor shall submit the following items to the Engineer a minimum of 10 working days before work under this section begins.

(1) Work Plan. Before work begins, prepare a detailed work plan. The work plan shall include, but not be limited to, work procedures, types of equipment, crew size, and emergency procedures for fire and medical emergencies and for failure of containment barriers.

(2) Waste Management and Renovation Plan.

(3) Manufacturer's Catalog Data for vacuum filters, respirators, and material safety data sheets and ventilation equipment.

(4) Worker and supervisor current certification, respirator fit test, worker fitness and medical clearance certifications. Submission of expired worker certifications may cause the submittal to be rejected.

(5) Qualifications of the Contractor's Industrial Hygiene Technician (IHT). Submit name, address and telephone number, training certificates and previous asbestos abatement monitoring experience of the Contractor's IHT selected to perform responsibilities identified herein.

(6) The name, address and telephone number of the Contractor's testing laboratory selected to perform ACM and air monitoring sample analysis and reporting. Provide proper documentation that persons performing the analysis have been judged proficient by successful participation within the last year in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing (PAT) Program for asbestos.

(7) Respiratory Protection Program.

(8) Hazard Communication Program.

(9) Proposed Schedule of Work. Notify the Engineer in writing of the proposed schedule a minimum of ten (10) working days prior to the start of work under this section.

(10) Rental Equipment Notification. If rental equipment is to be used during ACM handling and disposal, notify the rental agency in writing concerning the intended use of the equipment, and furnish a copy of the notification to the Engineer.

(B) Submittal Items During Work. The Contractor's IHT shall submit air sample results to the Engineer within 3 working days, (except for the initial determination results which shall be submitted within 48 hours) signed by the testing laboratory performing the air monitoring, the employee that analyzed the sample and the Contractor's IHT.

(C) Post-Work Submittal Items.

(1) If hazardous waste is generated and disposed of, submit EPA Hazardous Waste Generator Identification numbers, hazardous waste permits, and completed and signed hazardous waste manifest from treatment or disposal facility. Submit written evidence that the hazardous waste treatment, storage, or disposal facility is approved for land disposal by the EPA and state or local regulatory agencies. Submit one copy of the completed manifest, signed and dated by the initial transporter in accordance with 40 CFR 262. The EPA Hazardous Waste Generator Identification numbers shall be obtained by the Contractor.

(2) The Contractor's IHT shall certify to the Engineer in writing that, evidenced by test results, respiratory protection for the employees was adequate, that upon completion of asbestos disturbance and cleaning, there were no visible accumulations of asbestos-containing material and dust on the worksite, and that the

Contractor's work procedures were in accordance with the requirements of 29 CFR 1926.1101 and this specification.

662.03 References. The following publications form a part of this Section to the extent referenced. Reference is by basic designation only.

(A) AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), Z88.2 1980, Practices for Respiratory Protection

(B) CODE OF FEDERAL REGULATIONS (CFR)

29 CFR 1926.21	Safety Training and Education
29 CFR 1910.134	Respiratory Protection
29 CFR 1910.1200	Hazard Communication
29 CFR 1926.1101	Asbestos Regulations
29 CFR 1926.55	Gases, Vapors, Fumes, Dusts, and Mists
29 CFR 1926.59	Hazard Communication Standard for the Construction Industry
40 CFR 178	Shipping Container Specification
40 CFR 260	Hazardous Waste Management Systems: General
40 CFR 261	Identification and Listing of Hazardous Waste
40 CFR 262	Generators of Hazardous Waste
40 CFR 263	Transporters of Hazardous Waste
40 CFR 264	Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 265	Interim Status Standard for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 268	Land Disposal Restrictions
49 CFR 172	Part 172 Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements

(C) UNDERWRITERS LABORATORIES INC. (UL) 586 1990 High-Efficiency Particulate Air Filter Units

(D) STATE OF HAWAII: HAWAII OCCUPATIONAL SAFETY AND HEALTH (HIOSH) 12-145, 12-145.1 Asbestos

(E) HAR, Title 12, Department of Labor and Industrial Relations, Subtitle 8, Division of Occupational Safety and Health, Part 3, Construction Standards, Chapter 145.1 Asbestos.

(F) EPA METHODS, SW 486, Test Methods for Evaluating Solid Waste - Physical/Chemical Methods

(G) EPA: National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revisions; Final Rule.

(H) EPA: Asbestos Emergency Response Act (AHERA) (40 CFR Part 763, Subpart E).

(I) NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH) 7082 NIOSH Manual of Analytical Methods.

662.04 Definitions. In addition to the definitions listed below refer to 29 CFR 1926.1101(b) Definitions.

(A) Action Level. Employee exposure, without regard to use of respirators, to an airborne concentration of asbestos in excess of 0.1 fiber per cubic centimeter of air averaged over an 8-hour period. As used in this section, "action level" refers to an airborne asbestos concentration of 0.1 fiber per cubic centimeter of air.

(B) Area Monitoring. Sampling of airborne asbestos concentrations within the asbestos control area and inside the physical boundaries which is representative of the airborne asbestos concentrations which may reach the breathing zone of persons potentially exposed to asbestos.

(C) Contractor. The Contractor refers to the Subcontractor, including any Sub-subcontractors, performing this portion of the Work and disposal of asbestos-containing material on the existing structures. Subcontractor and Sub-subcontractor are as defined in the General Conditions. The Contractor shall comply with all federal, state, and local regulations and requirements of this Section.

(D) Background Air Testing. Background air testing shall be performed using a minimum of two samples within the work area and one outside of the work area. Background samples shall be collected before work disturbing asbestos-containing material begins.

(E) Eight-Hour Time Weighted Average (TWA). Airborne concentration of asbestos averaged over an 8-hour workday to which an employee is exposed.

(F) High Efficiency Particulate Air (HEPA) Filter Equipment. HEPA filtered vacuuming equipment with a UL 586 filter system capable of collecting and retaining asbestos dust. A high efficiency particulate filter means 99.97 percent efficiency against 0.3 micron size particles.

(G) Industrial Hygiene Technician (IHT). An individual or firm qualified to conduct asbestos abatement project monitoring, including air

testing and wipe testing. The IHT shall have completed the equivalent of EPA's training curricula for "Asbestos Abatement for Supervisors and Contractors". The IHT shall not be an employee, relative, spouse, nor have any monetary interest in the Contractor's company nor in the Engineer's. The IHT shall be available on Maui during the work.

(H) Asbestos. Includes chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, actimolite asbestos, and any of these.

(I) Asbestos-Containing Material (ACM). Any material containing more than one percent asbestos.

(J) Permissible Exposure Limit (PELS).

(1) Time-weighted average limit (TWA). The employer shall ensure that no employee is exposed to an airborne concentration of asbestos in excess of 0.1 fiber per cubic centimeter of air as an eight (8) hour time-weighted average (TWA).

(2) Excursion limit. The employer shall ensure that no employee is exposed to an airborne concentration of asbestos in excess of 1.0 fiber per cubic centimeter of air (1ft/cc) as averaged over a sampling period of thirty (30) minutes.

(K) Exposure Assessment and Monitoring. Sampling of asbestos concentrations within the breathing zone of employees to determine the 8-hour time weighted average concentration in accordance with 29 CFR 1926.1101 and State of Hawaii Occupational (HIOSH) Health Standards for Asbestos, 12-145.1.

662.05 Quality Assurance.

(A) Industrial Hygienist Responsibilities. The Contractor shall retain and pay for the services of a IHT whose responsibilities on this project shall include:

(1) Review worker training certificates to be submitted to the Engineer, to determine if the training is appropriate and current for the type of work to be performed on this project.

(2) Review and approve the Contractor's Waste Management and Work Plans, for conformance to all applicable standards.

(3) Certify that the Contractor has cleaned each demolition site of visible asbestos-containing material prior to the start of demolition work.

(4) Performance of personal air monitoring as required by OSHA.

(B) Personnel Training. All personnel performing work involving asbestos-containing material shall be trained in renovation, disposal, and air sampling operations prior to the time of initial job assignment, in accordance with 29 CFR 1926.1101, State of Hawaii Occupational Safety and Health (HIOSH) 12-145.1, 29 CFR 1926.59 and 29 CFR 1926.21. The Contractor shall submit worker training certificates to the Engineer, signed and dated by the training provider and by each employee stating that the employee has received training. Copies of worker training records shall be available on site, and workers for whom valid, current training records are not available onsite shall not be permitted to enter the work area.

No person shall engage in an abatement project as a worker, contractor/supervisor, inspector, project monitor or training provider without a valid and current certification from the director of the Department of Health, State of Hawaii.

(C) Respiratory Protection Program. The Contractor shall establish and implement a respiratory protection program as required by ANSI Z88.2, 29 CFR 1910.134, 29 CFR 1926.1101, and 29 CFR 1926.55, and shall conduct a respirator fit test on each employee required to wear a negative pressure respirator or other appropriate type, at the time of initial fitting and at least every six months thereafter as required by 29 CFR 1926.1101.

(D) Waste Classification and Management. The Contractor's IHT shall test, classify, and identify all materials suspected of containing asbestos in accordance with 29 CFR 1926.1101 and State of Hawaii Occupational Safety and Health (HIOSH) 12-145, 12-145.1.

The Contractor shall develop a written program to establish and implement practices and procedures for handling, transport and disposal of hazardous wastes generated by the project. The program shall effectively and clearly communicate the means for complying with this classification and EPA regulations and procedures for the classifying, handling, and disposal of solid and liquid waste. Generic statements or a generic plan shall not be used. Specific methods, procedures, and details are required. The waste management plan shall also comply with applicable requirements of other federal, state and local waste/hazardous waste regulations and address:

(1) The estimated quantities of hazardous waste to be generated and disposed of.

(2) Names and qualifications of each Subcontractor and Sub subcontractor that will be transporting, storing, treating, or disposing of hazardous wastes. Include the facility location and 24-hour point of contact. If applicable, furnish two copies of EPA hazardous waste permits and EPA Identification numbers.

(3) Names and qualifications (experience and training) of personnel who will be working on-site with lead waste material, if applicable.

(4) List of waste handling equipment to be used in performing the work to include cleaning, volume reduction, and transport equipment.

(5) Spill prevention, containment, and cleanup contingency measures to be implemented, if applicable.

(6) Elimination of runoff of water used to minimize dust from the work.

(7) Work plan and schedule for waste containment, removal and disposal. Wastes shall be cleaned up and containerized daily.

(8) Unit costs for hazardous waste disposal according to the plan.

(E) Safety and Health Compliance. In addition to the detailed requirements of this specification, comply with laws, ordinances, rules and regulations of federal, state and local authorities regarding removing, handling, storing, transporting and disposing of asbestos-containing material. Comply with the applicable requirements of the current issue of 29 CFR 1926.1101 and State of Hawaii Occupational Safety and Health (HIOSH) 12-145.1. Where requirements of this Section and the referenced documents vary, the most stringent requirement shall apply.

662.06 Materials.

(A) Personal Protective Equipment (PPE). Furnish the Engineer with two complete sets of PPE daily, consisting of disposable whole body covering, including appropriate foot, head and hand protection, for entry into and inspection of the work within the asbestos control area. Furnish personnel who will be exposed to asbestos dust with similar PPE. PPE shall include fitted respirators approved by NIOSH, Department of Health

and Human Services, for use in atmosphere containing asbestos dust. Respirators shall comply with the requirements of 29 CFR 1926.1101. All PPE shall remain the property of the Contractor and shall not be taken home.

(B) Vacuum Filters. Use UL 586 labeled HEPA filters.

(C) Rental Equipment. If rental equipment is to be used during asbestos-containing material handling and disposal, notify the rental agency in writing concerning the intended use of the equipment.

(D) Power Tools. Power tools which have the potential to generate dust shall be fitted with HEPA-filtered vacuum exhaust.

662.07 Construction Requirements.

(A) Notification. Notify the Engineer in writing 10 days prior to the start of work.

(B) Demarcated Control Area. Establish a asbestos control area in accordance with the approved work plan, by physically demarcating an area around the structures and components to be demolished, to prevent entry of unauthorized personnel. Warning signs shall be placed at the boundary and approaches to asbestos control areas, located at such a distance that personnel may read the sign and take necessary precautions before entering the area. Signs shall comply with the requirements of 29 CFR 1926.1101.

(C) Restrictions on Activities. Eating, drinking and smoking shall be permitted only in areas designated by the Contractor, and which are free of dust or airborne debris generated by the work. No eating, smoking or drinking is permitted within the asbestos control area.

(D) Use of PPE. Personnel within the demarcated work area shall wear respirators and use protective clothing and equipment as specified herein. No one will be permitted in the asbestos control area unless they have been given appropriate training, protective equipment and medical examinations. If the Contractor's personnel monitoring results covering a period of at least two days show asbestos dust concentrations to be below the action level, the requirements for respirators, protective clothing and equipment will be at the discretion of Contractor's IHT.

(E) Excessive Airborne Asbestos. If airborne asbestos levels are at or exceed the action level, the Contractor's IHT shall immediately notify the Engineer and stop all work in the asbestos control area. Work shall not resume until the work practices which cause the elevated asbestos

levels have been identified and modified so that airborne asbestos levels remain below the action level for the remainder of the work.

662.08 Work Procedures.

(A) Cleanliness. The Contractor shall maintain all surfaces within the asbestos control area free of accumulations of asbestos-containing material and dust.

(B) Visible Emissions. The Contractor shall control asbestos dust emissions from the project site so that no visible asbestos dust emissions leave the project work areas during the work. Wet methods or other engineering controls shall be used to control the emission of dust and/or debris from the work site in accordance with all applicable federal, state, and local regulations. Visible emissions shall be cause for immediate shut down of the project until corrective measures are implemented.

(C) Control of Airborne Asbestos Levels. The Contractor shall control the asbestos level outside of the work boundary to less than the action level at all times. The Engineer shall conduct area monitoring at the work area boundaries to ensure that at all times, unprotected personnel are not exposed to asbestos at concentrations above the action level. If the outside boundary asbestos levels are at or exceed the action level, the Engineer will notify the Contractor who shall immediately identify and correct the condition(s) causing the increased levels.

(D) Dust Control. Water may be used to control airborne emissions of dust, but only in sufficient quantity to adequately control dust. All water used for dust control, and that which may be contaminated with asbestos-containing material, shall not be allowed to run off from the asbestos control area, but shall be collected, and properly disposed of.

(E) Limit Contamination. If adjacent areas are contaminated, the Contractor shall clean and visually inspect the contaminated areas. The Contractor's IHT shall certify that affected areas have been cleaned of asbestos contamination.

(F) Work Area Exit. Whenever personnel exit the asbestos control area, they shall perform the following procedures and shall not leave the work place wearing any clothing or other equipment worn during the work day:

(1) Vacuum themselves off with HEPA-filtered vacuum equipment.

(2) Remove disposable protective clothing and place it in an approved impermeable disposal bag for disposal as hazardous waste.

(3) Clean work boots, clothing or equipment to ensure that dust and/or debris from the work area is not carried on into areas beyond the asbestos control area.

662.09 Air Monitoring. The Contractor shall monitor airborne asbestos levels in accordance with 29 CFR 1926.1101 and as specified herein. Personnel air monitoring shall be performed and paid for by the Contractor's IHT under his direction. Area air monitoring, testing and reporting may be performed by the Engineer.

(A) Initial Monitoring. The Contractor's IHT shall conduct initial monitoring of air in the breathing zone of employees anticipated to have the greatest risk of exposure to airborne asbestos. Personnel monitoring shall be accomplished by full shift monitoring for a period of two (2) days, on at least 25 percent of the work crew or a minimum of two employees, whichever is greater, during each work shift. During initial determination monitoring, all workers shall be provided with a minimum of half-mask air-purifying respirators and disposable protective clothing.

(B) Air Sample Analysis. At the end of the period of initial determination, personnel air samples shall be analyzed by NIOSH Method 7082 or equivalent and a recommendation provided by the Contractor's IHT as to levels of protection required by similar work.

(C) Field Sampling Log. The Contractor shall maintain a field sampling log which shall include: all sample identification numbers, date and time sampled, sample locations, sampler's initials, date sent to the analytical laboratory, and date results reported.

(D) Excessive Airborne Asbestos. If airborne asbestos levels exceed the action level at or around the project site, the Contractor shall perform the following actions at no additional cost to the Engineer:

(1) Terminate all work until the area is cleaned.

(2) Vacuum contaminated areas using HEPA-filtered equipment.

(3) Pay for additional testing of those areas requiring cleaning to verify that the appropriate asbestos level is attained.

(E) Work Practice Revisions. Whenever work practices are changed or modified, initial monitoring of worker breathing zone air, analysis and submission of results to Engineer shall be repeated.

(F) Engineer's Review. The Engineer shall review the sampling data collected for ANY day on which the asbestos air work area boundary levels exceeded the action level to determine if condition(s) require any further change in work methods. Work shall continue when approval is given by the Engineer.

(G) Cooperation with Engineer. The Contractor shall cooperate and provide access for the Engineer to conduct air monitoring daily during each shift in which work is performed which disturbs ACM, in areas immediately adjacent to the asbestos control area.

662.10 Cleanup and Disposal.

(A) IHT Certification. Upon completion of demolition of each building, the Contractor's IHT shall certify in writing that:

(1) the respiratory protection for the employees was adequate,

(2) work procedures were performed in accordance with 29 CFR 1926.1101 and this specification,

(3) no visible accumulations of asbestos-containing material and dust remain at the worksite.

(B) Demarcated Area. Do not remove the asbestos control area boundary or warning signs prior to the Engineer's receipt of the Contractor's certification. Reclean areas showing dust or asbestos-containing material.

(C) Waste Containerization. The Contractor shall collect and containerize all asbestos-containing material, scrap, debris, bags, containers, equipment, and asbestos-contaminated clothing which may produce airborne concentrations of asbestos particles.

662.11 Waste Transportation and Disposal.

(A) Hazardous Waste Transportation and Disposal. Wastes designated herein or found to be hazardous shall be handled, stored, transported, and disposed of in accordance with 40 CFR Parts 260 through 265, at an EPA-approved hazardous waste treatment, storage, or disposal facility. Comply with land disposal restriction notification requirements as required by 40 CFR 268. The Contractor shall comply

with all applicable federal, state, and local regulations regarding the transportation and disposal of solid and liquid waste determined to be hazardous by other testing procedures, as necessary.

(B) Non-hazardous Waste Transportation and Disposal. The Contractor shall comply with all applicable federal, state and local regulations concerning the transportation and disposal of non-hazardous waste. Wastes determined to be non-hazardous shall be disposed of as general construction debris.

662.12 Method of Measurement. The Engineer will measure substrate with asbestos-containing material removal and disposal on a force account basis in accordance with Subsection 109.04 - Payment for Additional and Force Account Work and as ordered by the Engineer.

662.13 Basis of Payment. The Engineer will pay for the accepted pay items listed below on a force account basis. Payment will be full compensation for the work prescribed in this section and the contract documents.

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

Pay Item	**Pay Unit**
Asbestos-Containing Material Testing, Removal, and Disposal	Force Account

An estimated amount for the force account may be allocated in the proposal schedule under "Asbestos-Containing Material Removal and Disposal," but the actual amount to be paid will be the sum shown on the accepted force account records, whether this sum be more or less than the estimated allocated in the proposal schedule."

END OF SECTION 662

GENERAL DECISION: **HI20030001** 04/14/2006 HI1

Date: April 14, 2006
General Decision Number: **HI20030001** 04/14/2006

Superseded General Decision Number: HI020001

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

Modification Number	Publication Date
0	06/13/2003
1	01/02/2004
2	01/23/2004
3	03/05/2004
4	03/12/2004
5	03/26/2004
6	07/16/2004
7	09/03/2004
8	09/10/2004
9	10/08/2004
10	10/15/2004
11	01/21/2005
12	02/18/2005
13	02/25/2005
14	03/11/2005
15	05/06/2005
16	05/27/2005
17	07/01/2005
18	07/08/2005
19	09/09/2005
20	09/16/2005
21	11/04/2005
22	11/11/2005
23	12/23/2005
24	01/06/2006
25	02/03/2006
26	02/10/2006
27	03/03/2006
28	03/17/2006
29	04/14/2006

ASBE0132-001 09/04/2005

	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	$ 31.65	18.29

BOIL0204-001 10/01/1998

	Rates	Fringes
Boilermaker	$ 26.25	13.76

BRHI0001-001 08/29/2005

	Rates	Fringes
Bricklayer		
Bricklayers and Stonemasons	$ 31.50	15.12
Pointers, Caulkers and Weatherproofers	$ 31.50	15.12

BRHI0001-002 08/29/2005

	Rates	Fringes
Terrazzo Worker		
Terrazzo Base Grinders	$ 29.94	15.12
Terrazzo Floor Grinders and Tenders	$ 28.39	15.12
Tile. Marble and Terrazzo Workers	$ 31.75	15.12

CARP0745-001 08/29/2005

	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	$ 32.70	17.55
Millwrights and Machine Erectors	$ 32.95	17.55
Power Saw Operators (2 h.p. and over)	$ 32.85	17.55

CARP0745-002 08/29/2005

	Rates	Fringes
Drywall and Acoustical Workers and Lathers	$ 32.95	17.50

ELEC1186-001 02/26/2006

	Rates	Fringes
Electricians:		
Cable Splicer	$ 38.45	8.45+30.6%
Cable Splicers	$ 38.45	8.45+30.6%
Electricians	$ 34.95	8.45+30.6%
Technician	$ 36.00	8.45+30.6%
Technicians	$ 36.00	8.45+30.6%

ELEC1186-002 02/26/2006

	Rates	Fringes
Line Construction:		
Cable Splicers	$ 38.45	8.45+30.6%
Groundmen; Truck Drivers	$ 26.21	8.45+30.6%
Heavy Equipment Operators	$ 31.46	8.45+30.6%
Linemen	$ 34.95	8.45+30.6%
Technicians	$ 36.00	8.45+30.6%

ELEV0126-001 01/01/2005

	Rates	Fringes
Elevator Mechanic.....	$ 40.95	12.015+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 08/29/2005

	Rates	Fringes
Diver (Aqua Lung) (Scuba)		
Diver (Aqua Lung) (Scuba) (over a depth of 30 feet)	$ 53.60	19.53
Diver (Aqua Lung) (Scuba) (up to a depth of 30 feet)	$ 44.23	19.53
Stand-by Diver (Aqua Lung) (Scuba)	$ 34.85	19.53
Diver (Other than Aqua Lung)		
Diver (Other than Aqua Lung)	$ 53.60	19.53
Diver Tender (Other than Aqua Lung)	$ 31.82	19.53
Stand-by Diver (Other than Aqua Lung)	$ 34.85	19.53
Helicopter Work		
Airborne Hoist Operator for Helicopter	$ 33.40	19.53
Co-Pilot of Helicopter	$ 33.54	19.53
Pilot of Helicopter	$ 33.71	19.53
Power equipment operators:		
(Includes All Types of Paving)		
GROUP 1	$ 29.54	19.53
GROUP 2	$ 29.65	19.53
GROUP 3	$ 29.82	19.53
GROUP 4	$ 30.09	19.53
GROUP 5	$ 30.40	19.53
GROUP 6	$ 31.05	19.53
GROUP 7	$ 31.37	19.53
GROUP 8	$ 31.48	19.53
GROUP 9	$ 31.59	19.53
GROUP 9A	$ 31.82	19.53
GROUP 10	$ 31.88	19.53
GROUP 10A	$ 32.03	19.53
GROUP 11	$ 32.18	19.53
GROUP 12	$ 32.54	19.53
GROUP 12A	$ 32.90	19.53
GROUP 13	$ 29.82	19.53
GROUP 13A	$ 30.09	19.53
GROUP 13B	$ 30.40	19.53
GROUP 13C	$ 31.05	19.53
GROUP 13D	$ 31.37	19.53
GROUP 13E	$ 31.48	19.53
Wage Rates for Tunnel Work:		
GROUP 1	$ 29.84	19.53
GROUP 2	$ 29.95	19.53
GROUP 3	$ 30.12	19.53
GROUP 4	$ 30.39	19.53
GROUP 5	$ 30.70	19.53
GROUP 6	$ 31.35	19.53
GROUP 7	$ 31.67	19.53
GROUP 8	$ 31.78	19.53
GROUP 9	$ 31.89	19.53
GROUP 9A	$ 32.12	19.53

GROUP 10	$ 32.18	19.53
GROUP 10A	$ 32.33	19.53
GROUP 11	$ 32.48	19.53
GROUP 12	$ 32.84	19.53
GROUP 12A	$ 33.20	19.53

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 08/29/2005

	Rates	Fringes
Dredging: (Boat Operators)		
Boat Deckhand	$ 29.82	19.53
Boat Operator	$ 32.03	19.53
Master Boat Operator	$ 32.18	19.53
Dredging: (Clamshell or Dipper Dredging)		
GROUP 1	$ 32.54	19.53
GROUP 2	$ 31.88	19.53
GROUP 3	$ 31.48	19.53
GROUP 4	$ 29.82	19.53
Dredging: (Derricks)		
GROUP 1	$ 32.54	19.53
GROUP 2	$ 31.88	19.53
GROUP 3	$ 31.48	19.53
GROUP 4	$ 29.82	19.53
Dredging: (Hydraulic Suction Dredges)		
GROUP 1	$ 32.18	19.53
GROUP 2	$ 32.03	19.53
GROUP 3	$ 31.88	19.53
GROUP 4	$ 31.82	19.53
GROUP 5	$ 31.48	19.53
GROUP 6	$ 31.37	19.53
GROUP 7	$ 29.82	19.53

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.

IRON0625-001 09/01/2003

	Rates	Fringes
Ironworker	$ 28.00	21.36

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 08/29/2005

	Rates	Fringes
Laborer		
GROUP 1	$ 24.65	13.00
GROUP 2	$ 22.25	13.00
GROUP 3	$ 25.65	13.00
GROUP 4	$ 25.15	13.00
GROUP 5	$ 24.15	13.00
GROUP 6	$ 16.25	8.85

LABORERS CLASSIFICATIONS

GROUP 1: Asbestos Removal Worker (EPA certified workers); Asphalt 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, Welding, Signalling, Choke Setting, and Rigging in connection with Laborers' work (except demolition); Chainsaw, Faller, Logloader, and Bucker; Compactors (Jackson 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 Curer (impervious membrane and form oiler); 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 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; Curbing, Concreting, and Asphalt; Curing of Concrete, 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; Driller (Track, Diamond Core, and Wagon); Driller (Joydrill Model TWM-2A, Gardner Denver DH-143 and similar type drills); Driller

(Mechanical) (not covered elsewhere) (including multiple unit); (Ingersoll-Rand DM45E/DM50E/LM-100/LM-600C, Gardner-Denver SCH2500/SCH3500BV, Furukawa HCR-C300, Tamrock Drilltech CHA800/DHH 850 Tamrock Commando) (similar and replacement equipment thereof); Drilling for blasting; Operation of all rock and concrete drills and Jack Hammers, including handling, carrying, laying out of hose; (Ingersoll-Rand DM45E/DM50E/LM-100/LM-600C), Gardner-Denver SCH2500/SCH3500 BV, Furukawa HCR-C300, Tamrock Drilltech CHA 800/DHH 850/Tamrock Commando) (similar and replacement equipment thereof); Drilling (Mechanical) on the site or along the right-of-way as well as access roads, reservoirs, including areas adjacent or pertinent to construction sites); Falling, bucking, yarding, loading or burning of all trees or timber on construction site; Fence and/or Guardrail Erector; Forklift (9 ft. and under); 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, or heat welding for sewer 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); Installation of Gilsulate 500XR; 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); Mason Tender,Mortar Man; Mortar Mixer (Block, Brick, Masonry, and Plastering); Nozzleman (Sandblasting and/or Water Blasting); 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, 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 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); 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; 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; Sandblaster (Nozzleman) handling, placing and operation of nozzle; Scaffold Erector; 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.

GROUP 2: Air Blasting; Appliance Handling (job site) (after delivery and unloading in storage area); Asphalt Laborer; Asphalt Plant Laborer; Backfill work connected with the installation of Gilsulate 500XR; Backfilling, Grading and all other labor connected therewith; Boring Machine; Bridge Laborer; Burning of all debris (crates, boxes, packaging waste materials); Cemetary Laborers; Chainman, Rodmen, and Grade Markers; Cleaning and Clearing of all debris; 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; Cleanup of Grounds and Buildings (other than "Light Clean-Up") (Janitorial Laborer); Clean-up of right-of-way; Clearing and slashing of brush or trees by hand or mechanical cutting; 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); Cribbers, Shorer, Lagging, Sheeting, and Trench Jacking and Bracing, Hand-Guided Lagging Hammer Whaling Bracing; 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, burning or cutting, breaking away, cleaning and removal of all masonry, wood or metal fixtures for salvage or scrap, 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, Chuck Tender, Outside Nipper; Dry-packing of concrete (plugging and filling of she-bolt holes); Excavation, Preparation of street ways and bridges; 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; Garbage and Debris Handlers and Cleaners; Gas, Pneumatic, and Electric Tools, not listed Group 1 (except Rototiller); General Clean-up: sweeeping, cleaning, washdown, wiping of construction facility, and equipment (other than "Light Clean-up" [Janitorial] Laborer); General Excavation and Grading (all 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; General Laborer; Gunite Operator; Junk Yard Laborers (same as Salvage Yard); Landscape Nursery Laborers; 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 stockkpile to point of installation; hooking and signalling from truck, conveyance or stockpile; Material Yard Laborers; Parks and Sports arenas and all recreational center employees; Pipelayer Tender; Pipewrapper, Caulker, Bander, Kettlemen, and men applying asphalt, Laykold, Creosote, and similar-type materials (pipe under 6 inches); Plasterer Laborer (including Hod Carrier); Preparation, construction and maintenance of roadbeds and sub-grade for all paving, including excavation, dumping, and spreading of sub-grade material; Prestressed or prescast 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; Removal of surplus material; 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; 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 therof, 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; 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); Tagging and Signaling of all building materials into high-rise units; 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.

GROUP 3: Licensed Powdermen.

GROUP 4: Gunnite Operator; High Scaler (working suspended), Pipelaying.

GROUP 5: Window Washer (Outside) (Working from bosun's chair and/or cable-suspended scaffold or work platform).

GROUP 6: Light Clean-Up.

LABO0368-002 10/01/2005

	Rates	Fringes
Landscape & Irrigation Laborers		
Group 1	$ 18.86	6.22
Group 2	$ 15.56	6.22

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).: 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 2: 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 08/29/2005

	Rates	Fringes
Underground Laborer		
GROUP 1	$ 25.25	13.00
GROUP 2	$ 26.75	13.00
GROUP 3	$ 27.25	13.00
GROUP 4	$ 28.25	13.00
GROUP 5	$ 28.50	13.00
GROUP 6	$ 28.60	13.00
GROUP 7	$ 28.85	13.00

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); 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); Sandblater-Potman (combination work assignment interchangeable); Tugger
GROUP 5: Shaft Work & Raise (below actual or excavated ground level); Diamond Driller; Gunite or Shotcrete Nozzleman
GROUP 6: Shifter
GROUP 7: Shifter (Shaft Work & Raiser)

PAIN1791-001 07/01/2005

	Rates	Fringes
Painters:		
Brush	$ 26.55	22.60
Sandblaster; Spray	$ 27.05	22.60

PAIN1889-001 07/01/2005

	Rates	Fringes
Glazier	$ 25.73	20.62

PAIN1926-001 02/27/2006

	Rates	Fringes
Soft Floor Layer	$ 24.15	18.05

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* PAIN1944-001 01/01/2006

	Rates	Fringes
Taper	$ 35.00	14.80

PLAS0630-002 08/30/2004

	Rates	Fringes
Cement Masons:		
Cement Masons	$ 27.25	18.22
Trowel Machine Operators	$ 27.40	18.22

PLUM0675-001 01/01/2006

	Rates	Fringes
Plumber, Pipefitter, Steamfitter & Sprinkler Fitter	$ 32.05	18.45

ROOF0221-001 05/01/2005

	Rates	Fringes
Roofer (including Built Up, Composition and Single Ply)	$ 29.60	13.23

* SHEE0293-001 02/26/2006

	Rates	Fringes
Sheet metal worker	$ 29.55	15.56

SUHI1997-002 09/15/1997

	Rates	Fringes
Drapery Installer	$ 13.60	1.20
Fence Erector-Chain Link Fence	$ 9.33	1.65

RIGGERS; WELDERS - Receive rate prescribed for craft performing operation to which rigging or welding is incidental.

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 (29 CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

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	QUANTITY	UNIT	UNIT PRICE	AMOUNT
201.1000	Clearing and Grubbing	L.S.	L.S.	L.S.	$_____
202.0430	Removal of A.C. Pavement	L.S.	L.S.	L.S.	$_____
202.0441	Removal of Signs and Posts	L.S.	L.S.	L.S.	$_____
202.0442	Removal of Existing Concrete Headwalls	L.S.	L.S.	L.S.	$_____
202.0443	Removal of Concrete Bridge Slab at Sta. 513+60±	L.S.	L.S.	L.S.	$_____
202.0444	Removal of Guardrail and Posts	L.S.	L.S.	L.S.	$_____
202.0445	Removal of Concrete Structures and Slabs	L.S.	L.S.	L.S.	$_____
202.0446	Removal of Existing Wire Fence	L.S.	L.S.	L.S.	$_____
202.0447	Removal and Relocation of Existing Propane Tank at Sta. 336+53±	L.S.	L.S.	L.S.	$_____
203.0100	Roadway Excavation	12,800	C.Y.	$_____	$_____
203.0230	Borrow Excavated Material	118,000	C.Y.	$_____	$_____
206A.1000	Trench Excavation for Water System	L.S.	L.S.	L.S.	$_____
206B.4000	Structure Excavation for Box Culvert at Station 336+90	L.S.	L.S.	L.S.	$_____

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
206B.5000	Structure Excavation for Box Culvert Wingwalls and Retaining Walls	L.S.	L.S.	L.S.	$_____
206B.6100	Structure Excavation for Waiakoa-Uka (Mauka) Bridge Abutments, Wingwalls and Approach Slabs	L.S.	L.S.	L.S.	$_____
206B.7250	Structure Backfill for Box Culvert Wingwalls and Retaining Walls	L.S.	L.S.	L.S.	$_____
206B.8250	Structure Backfill for Waiakoa-Uka (Mauka) Bridge Abutments, Wingwalls and Approach Slabs	L.S.	L.S.	L.S.	$_____
206C.2025	Excavation for Drainage Pipe Culverts Including Headwalls	L.S.	L.S.	L.S.	$_____
207.1000	Ditch and Channel Excavation	L.S.	L.S.	L.S.	$_____
209.1000	Installation, Maintenance, Monitoring, and Removal of BMP	L.S.	L.S.	L.S.	$_____
209.2000	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	$50,000.00
304.1110	Aggregate Base	L.S.	L.S.	L.S.	$_____
305.1110	Aggregate Subbase	L.S.	L.S.	L.S.	$_____
306.1001	Untreated Permeable Base Course	L.S.	L.S.	L.S.	$_____
312.0100	Plant Mix Glassphalt Concrete Base Course	L.S.	L.S.	L.S.	$_____
401.0400	Asphalt Concrete Pavement, Mix No. IV	L.S.	L.S.	L.S.	$_____
401.0600	Pavement Smoothness Incentive	Allowance	Allow.	Allowance	$50,000.00

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.0000	Concrete for Stream Lining at Waiakoa-Uka (Mauka) Bridge	L.S.	L.S.	L.S.	$_____
503.0022	Concrete Headwall for 24-Inch Drainline	L.S.	L.S.	L.S.	$_____
503.0023	Concrete Inlet Structure for 48-Inch Drainline	L.S.	L.S.	L.S.	$_____
503.1030	Concrete for Cast-In-Place Portions of Box Culvert at Station 336+90, Including Cut-off Walls, Headwalls, Wingwalls and Retaining Walls	L.S.	L.S.	L.S.	$_____
503.1090	Concrete for Waiakoa-Uka (Mauka) Bridge, Including Abutments, Piers, Deck Slab, Diaphragm Beams, Wingwalls, Skirts and Approach Slabs	L.S.	L.S.	L.S.	$_____
504.3200	AASHTO Type III Prestressed Concrete Girders	L.S.	L.S.	L.S.	$_____
507.1000	Metal Pedestrian Railing (1-Rail on Concrete Traffic Railing)	L.S.	L.S.	L.S.	$_____
507.1500	Metal Bicycle Railing (2-Rail on Concrete Traffic Railing, Concrete Headwall, Wingwall and Skirt)	L.S.	L.S.	L.S.	$_____
507.7000	Concrete Traffic Railing	L.S.	L.S.	L.S.	$_____
507.7600	Retrofitted Concrete (Traffic) Railing for Existing Waiakoa-Uka Bridge	L.S.	L.S.	L.S.	$_____
509.1000	Precast Concrete Box Culverts (12 feet x 8 feet)	L.S.	L.S.	L.S.	$_____
511.0000	Furnishing Drilled Shaft Drilling Equipment	L.S.	L.S.	L.S.	$_____
511.1000	Drilled Shaft Load Test	1	EA.	$_____	$_____

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
511.2000	Drilled Shafts	660	L.F.	$_____	$_____
511.3000	Coring for Integrity Testing in Acceptable Drilled Shafts	150	L.F.	$_____	$_____
602.0030	Reinforcing Steel for C.I.P.Concrete Portions of Box Culvert at Station 336+90, Including Cut-off Walls, Headwalls, Wingwalls and Retaining Walls	L.S.	L.S.	L.S.	$_____
602.0090	Reinforcing Steel for Waiakoa-Uka (Mauka) Bridge, Including Abutments, Piers, Deck Slab, Diaphragm Beams, Wingwalls, Skirts and Approach Slabs	L.S.	L.S.	L.S.	$_____
602.1002	Reinforcing Steel for Stream Lining at Waiakoa-Uka (Mauka) Bridge	L.S.	L.S.	L.S.	$_____
603.0010	Bed Course Material for Culvert	L.S.	L.S.	L.S.	$_____
603.6552	24-inch Reinforced Concrete Pipe, Class III or 24-inch High Density Polyethylene Pipe, Type S	L.S.	L.S.	L.S.	$_____
603.6553	48-inch Reinforced Concrete Pipe, Class III or 48-inch High Density Polyethylene Pipe, Type S	L.S.	L.S.	L.S.	$_____
603.6554	Concrete Lining for 48-inch Corrugated Metal Pipe	L.S.	L.S.	L.S.	$_____
604.0706	Type 61614P Grated Drop Inlet, 5.00 feet to 6.99 feet	2	EA.	$_____	$_____
604.0800	Type Special Drain Manhole, 6.00 feet to 6.99 feet	1	EA.	$_____	$_____
605.0006	6-inch Perforated Underdrain Pipe	L.S.	L.S.	L.S.	$_____
605.0106	6-inch Nonperforated Underdrain Pipe	L.S.	L.S.	L.S.	$_____

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
605.2000	Cleanout	L.S.	L.S.	L.S.	$_____
605.3000	Underdrain Outlet	L.S.	L.S.	L.S.	$_____
606.0100	Guardrail Type 3 Strong Post W-Beam	L.S.	L.S.	L.S.	$_____
606.7000	Guardrail Type 3 Thrie Beam	L.S.	L.S.	L.S.	$_____
606.7200	Terminal Section Type ET-2000 Plus, or SKT-350, or approved equal	L.S.	L.S.	L.S.	$_____
607.9000	4-Feet, Chain Link Fence	L.S.	L.S.	L.S.	$_____
607.9100	Standard Wire Fence with Metal Posts	L.S.	L.S.	L.S.	$_____
608.1300	Reinforced Concrete Island	L.S.	L.S.	L.S.	$_____
611.0100	Hand-Laid Riprap	L.S.	L.S.	L.S.	$_____
612.0100	Grouted Rubble Paving at Pipe Culverts	L.S.	L.S.	L.S.	$_____
612.0200	Grouted Rubble Paving at Box Culverts	L.S.	L.S.	L.S.	$_____
612.0300	Grouted Rubble Paving at Waterline	L.S.	L.S.	L.S.	$_____
613.0100	Centerline and Reference Survey Monuments	L.S.	L.S.	L.S.	$_____
614.0100	Standard Street Survey Monuments	L.S.	L.S.	L.S.	$_____
617.0100	Imported Planting Soil	L.S.	L.S.	L.S.	$_____

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
618.0100	Grassed Surfaces	L.S.	L.S.	L.S.	$_____
619.0200	Planting Palm, (Cocos nicifera) 15 to 20 Foot Brown Trunk Height, Field Stock.	L.S.	L.S.	L.S.	$_____
619.0300	Planting Tree, (Pandanus tectorius) 8 Foot Height., 4 Foot Spread, 2-1/2 Inch Caliper	L.S.	L.S.	L.S.	$_____
619.0400	Planting Tree, (Hibiscus tiliaceus) 6 Foot Height., 3 Foot Spread, 1-1/2 Inch Caliper	L.S.	L.S.	L.S.	$_____
619.0500	Planting Tree, (Rauvofia sandwicensis) 6 Foot Height, 3 Foot Spread, 1-1/2 Inch Caliper	L.S.	L.S.	L.S.	$_____
619.0600	Planting Tree, (Cordia subcordata) 6 Foot Height, 3 Foot Spread, 1-1/2 Inch Caliper	L.S.	L.S.	L.S.	$_____
619.0700	Planting Palm, (Pritchardia arecina) 3 Foot Brown Trunk Height, 6 Foot Spread	L.S.	L.S.	L.S.	$_____
619.0800	Planting Shrub, (Dodonaea viscosa) 18 Inch Height, 8 Inch Spread	L.S.	L.S.	L.S.	$_____
619.0900	Planting Shrub, (Psydrax odoratum) 18 Inch Height, 8 Inch Spread	L.S.	L.S.	L.S.	$_____
619.1000	6 Inch PVC Sleeve	L.S.	L.S.	L.S.	$_____
619.1100	Soil Amendments	L.S.	L.S.	L.S.	$_____
619.1200	Mulch	L.S.	L.S.	L.S.	$_____
621A.0200	Panel for Destination Sign	L.S.	L.S.	L.S.	$_____

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
621A.0300	Street Name Sign	L.S.	L.S.	L.S.	$_____
621A.0400	Street Name Sign on Traffic Signal Mast Arm	L.S.	L.S.	L.S.	$_____
621A.1410	4.00 lbs/lf Flanged Channel Post for Destination Sign	L.S.	L.S.	L.S.	$_____
621A.1500	Relocation of State Route Markers	L.S.	L.S.	L.S.	$_____
621A.7500	State Route Marker Type A with Post	L.S.	L.S.	L.S.	$_____
621A.7600	State Route Marker Type B with Post	L.S.	L.S.	L.S.	$_____
621B.5000	Regulatory Sign (10 Square Feet or less) with Post	L.S.	L.S.	L.S.	$_____
621B.5100	Warning Sign (10 Square Feet or less) with Post	L.S.	L.S.	L.S.	$_____
621B.6000	Regulatory and Warning Sign (More than 10 Square Feet) with Post	L.S.	L.S.	L.S.	$_____
621B.7000	Regulatory Sign on Mast Arm	L.S.	L.S.	L.S.	$_____
621B.8200	Relocation of Existing Regulatory or Warning Signs	L.S.	L.S.	L.S.	$_____
621C.1000	Reflector Marker RM-4 with Post	L.S.	L.S.	L.S.	$_____
622.0000	Lighting and Electrical System	L.S.	L.S.	L.S.	$_____
622.1000	Installation of Underground Electrical Line Extensions	F.A.	F.A.	F.A.	$100,000.00
622.2000	Installation of Underground Telephone Line Extensions	F.A.	F.A.	F.A.	$100,000.00

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
623.5001	Traffic Signal System	L.S.	L.S.	L.S.	$_____
624.1010	12-inch Ductile Iron Pipe (Class 52)	L.S.	L.S.	L.S.	$_____
624.1012	18-inch Ductile Iron Pipe (Class 52)	L.S.	L.S.	L.S.	$_____
624.1266	12-inch Gate Valve (Class 150), Including Sliding Valve Box	L.S.	L.S.	L.S.	$_____
624.1267	18-inch Resilient Wedge Gate Valve (Class 250), Including Sliding Valve Box	L.S.	L.S.	L.S.	$_____
624.1272	3/4-inch Air Relief Valve Assembly (Class 150), Including Type "F" Manhole	L.S.	L.S.	L.S.	$_____
624.1274	1-inch Air Relief Valve Assembly (Class 250), Including Type "F" Manhole	L.S.	L.S.	L.S.	$_____
624.1640	Cast Iron Fittings	L.S.	L.S.	L.S.	$_____
624.1700	Reinforced Concrete Jacket for 18-inch Waterline	L.S.	L.S.	L.S.	$_____
624.1801	Concrete Block for 12-inch Bends	L.S.	L.S.	L.S.	$_____
624.1802	Concrete Thrust Block for 12-inch Top Vertical Bends	L.S.	L.S.	L.S.	$_____
624.1803	Concrete Block for 18-inch Bends	L.S.	L.S.	L.S.	$_____
624.1804	Concrete Thrust Block for 18-inch Top Vertical Bends	L.S.	L.S.	L.S.	$_____
624.1871	Type "A" Service Lateral	L.S.	L.S.	L.S.	$_____

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
624.1872	Type "C" Service Lateral	L.S.	L.S.	L.S.	$_____
624.1873	Type "D" Service Lateral	L.S.	L.S.	L.S.	$_____
629.1012	4-Inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1014	Double 4-Inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1015	8-Inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1017	12-Inch Pavement Striping (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1018	Crosswalk Marking (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1030	Pavement Arrows (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1040	Pavement Words (Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.2011	Type "A" Pavement Marker	L.S.	L.S.	L.S	$_____
629.2031	Type "C" Pavement Marker	L.S.	L.S.	L.S.	$_____
629.2041	Type "D" Pavement Marker	L.S.	L.S.	L.S.	$_____
629.2071	Type "H" Pavement Marker	L.S.	L.S.	L.S	$_____
636.0100	Field Office Trailer (Not to Exceed $32,000.00)	L.S.	L.S.	L.S.	$_____
636.0200	Project Site Laboratory Trailer (Not to Exceed $22,000.00)	L.S.	L.S.	L.S.	$_____
636.0300	Maintenance of Trailers	F.A.	F.A.	F.A.	$18,000.00

ITEM NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	AMOUNT
645.1000	Traffic Control	L.S.	L.S.	L.S	$_____
645.2000	Additional Police Officers and/or Additional Traffic Control Devices	F.A.	F.A.	F.A.	$100,000.00
661.0100	Substrate with Lead-Containing Paint Removal and Disposal	F.A.	F.A.	F.A.	$30,000.00
662.0100	Asbestos-Containing Material, Testing, Removal, and Disposal	F.A.	F.A.	F.A.	$30,000.00
698.1000	Trainee (2 Trainees)	2,000	HOURS	$0.80	$1,600.00
699.1000	Mobilization (Not to Exceed 10% of the Sum of All Items Excluding this Item, All Items in Section 636, Allowances, and All Force Account Items)	L.S.	L.S.	L.S.	$_____

a. Sum of All Items $_____

b. Either Furnish Foreign Steel Not To
Exceed Minimal Amount (Insert "O") or
Furnish Foreign Steel in Excess of Minimal Amount (Insert 25% x a) * $_____

c. Amount for Comparison of Bids (a+b) * $_____

* All bidders must fill in b and complete c
NOTE: Bidders must complete all unit prices. Failure to do so may be grounds for rejection of bid.