

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

ADDENDUM NO. 1

FOR

KANEOHE BAY DRIVE IMPROVEMENTS  
VICINITY OF PUOHALA STREET TO KAWA BRIDGE  
FEDERAL AID PROJECT NO. STP-065-1(9)  
DISTRICT OF KOOLAUPOKO  
ISLAND OF OAHU  
2003

Amend the Bid Documents as follows:

**1. SPECIAL PROVISIONS**

- a. Replace Federal Wage Rates dated 1/10/2003 with the attached Federal Wage Rates dated 01/24/2003.
- b. Replace Pages 203-12a through 203-14a dated 8/04/98 with the attached Pages 203-12a through 203-14a dated r2/07/03.
- c. Replace Page 610-1a dated 10/11/98 with the attached Page 610-1a dated r1/14/03.
- d. Replace Page 612-1a dated 01/02/03 with the attached Page 612-1a dated 2/05/03.
- e. Replace Section 693 – Quadguard System Terminal Impact Attenuator, Pages 693-1a and 693-2a, dated 9/10/98 with the attached Section 693 – Quadguard System or Tau-II Terminal Impact Attenuator, Pages 693-1a through 693-3a, dated 1/14/03.

STP-065-1(9)

02/19/2003

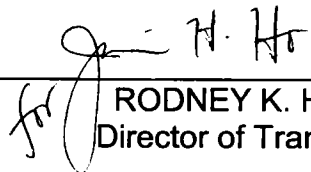
## 2. PROPOSAL

- a. Replace Pages P-8 through P-19 dated 01/21/2003 with the attached Pages P-8 through P-19 dated 02/07/03

## 3. PLANS

- a. Replace Plan Sheet Nos. 11, 14, 18, 27, 29 through 34, 36, 38 through 41, 43, 74, 89, and 113 with the attached Plans Sheet Nos. ADD11, ADD14, ADD18, ADD27, ADD29 through ADD34, ADD36, ADD38 through ADD41, ADD43, ADD74, ADD89, and ADD113.
- b. The attached Plan Sheet Nos. ADD18 S-1 and ADD33 S-1 shall be incorporated and made a part of the Plans.

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

  
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RODNEY K. HARAGA  
Director of Transportation

General Decision Number HI020001

Superseded General Decision No. HI010001

State: Hawaii

Construction Type:

BUILDING  
DREDGING  
HEAVY  
HIGHWAY  
RESIDENTIAL

County(ies):

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	03/01/2002
1	03/08/2002
2	04/19/2002
3	05/03/2002
4	07/05/2002
5	08/02/2002
6	08/16/2002
7	09/06/2002
8	09/27/2002
9	10/04/2002
10	11/08/2002
11	11/15/2002
12	11/22/2002
13	01/03/2003
14	01/10/2003
15	01/24/2003

COUNTY(ies) :  
STATEWIDE

ASBE0132A 08/30/1998

	Rates	Fringes
ASBESTOS WORKERS/INSULATORS 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.	26.50	14.89

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BOIL0204A 10/01/1998

	Rates	Fringes
BOILERMAKERS	26.25	13.76

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BRHI0001A 09/02/2002

	Rates	Fringes
BRICKLAYERS; Caulkers; Cement Block Layers; Cleaners; Pointers; and Stonemasons	25.92	16.72

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BRHI0001B 09/02/2002

	Rates	Fringes
TERRAZZO WORKERS: Terrazzo Workers	26.17	16.72
Terrazzo Base Grinders	24.36	16.72
Terrazzo Floor Grinders and Tenders	22.81	16.72

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BRHI0001C 09/03/2001

	Rates	Fringes
MARBLE MASONS	25.77	15.76

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BRHI0001D 09/03/2001

	Rates	Fringes
TILE LAYERS (CERAMIC)	25.77	15.76
TILE LAYER FINISHERS (CERAMIC)	22.41	15.76

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CARP0745A 03/04/2002

	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	30.90	15.45
Millwrights and Machine Erectors	31.15	15.45
Power Saw Operators (2 H.P. and over)	31.05	15.45

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CARP0745B 03/04/2002

	Rates	Fringes
DRYWALL HANGERS	31.15	15.42
LATHERS	31.15	15.42

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ELEC1186A 08/18/2002

	Rates	Fringes
ELECTRICIANS:		
Electricians	31.70	6.54+30.6%
Technicians	32.65	6.54+30.6%
Cable Splicers	34.87	6.54+30.6%

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ELEC1186B 08/18/2002

	Rates	Fringes
LINE CONSTRUCTION:		
Linemen	31.70	6.54+30.6%
Technicians	32.65	6.54+30.6%
Heavy Equipment Operators	28.53	6.54+30.6%
Cable Splicers	34.87	6.54+30.6%
Groundmen; Truck Drivers	23.78	6.54+30.6%

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ELEV0126A 10/04/1999

	Rates	Fringes
ELEVATOR MECHANICS	34.65	6.935+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, Thanksgiving Day, Day after Thanksgiving Day and Christmas Day.
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ENGI0003I 09/01/2002

	Rates	Fringes
POWER EQUIPMENT OPERATORS (Includes All Types of Paving):		
GROUP 1	28.59	16.53
GROUP 2	28.70	16.53
GROUP 3	28.87	16.53

GROUP 4	29.14	16.53
GROUP 5	29.45	16.53
GROUP 6	30.10	16.53
GROUP 7	30.42	16.53
GROUP 8	30.53	16.53
GROUP 9	30.64	16.53
GROUP 9A	30.87	16.53
GROUP 10	30.93	16.53
GROUP 10A	31.08	16.53
GROUP 11	31.25	16.53
GROUP 12	31.58	16.53
GROUP 12A	31.95	16.53

#### WAGE RATES FOR TUNNEL WORK:

GROUP 1	28.89	16.53
GROUP 2	29.00	16.53
GROUP 3	29.17	16.53
GROUP 4	29.44	16.53
GROUP 5	29.75	16.53
GROUP 6	30.40	16.53
GROUP 7	30.72	16.53
GROUP 8	30.83	16.53
GROUP 9	30.94	16.53
GROUP 9A	31.17	16.53
GROUP 10	31.23	16.53
GROUP 10A	31.38	16.53
GROUP 11	31.53	16.53
GROUP 12	31.89	16.53
GROUP 12A	32.25	16.53

#### 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 Loader and Adams Elegrader; Dozer (D-7 or equal); Wheel and/or Ladder Trencher (over 6 feet and 200 to 749 h.p.).

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

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

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

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

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



yds. per hour).

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

HELICOPTER WORK:

Pilot of Helicopter	32.76	16.53
Co-Pilot of Helicopter	32.59	16.53
Airborne Hoist Operator for Helicopter	32.45	16.53

DIVERS (AQUA LUNG) (SCUBA):

Diver (Aqua Lung) (Scuba) (up to a depth of 30 feet)	43.28	16.53
Diver (Aqua Lung) (Scuba) (over a depth of 30 feet)	52.65	16.53
Stand-by Diver (Aqua Lung) (Scuba)	33.90	16.53

DIVERS (OTHER THAN AQUA LUNG):

Diver (Other than Aqua Lung)	52.65	16.53
Stand-By Diver (Other than Aqua Lung)	33.90	16.53
Diver Tender (Other than Aqua Lung)	30.87	16.53

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

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ENGI0003K 09/01/2002

	Rates	Fringes
TRUCK DRIVERS:		
GROUP 1	28.87	16.53+a
GROUP 2	29.14	16.53+a
GROUP 3	29.45	16.53+a
GROUP 4	30.10	16.53+a
GROUP 5	30.42	16.53+a
GROUP 6	30.53	16.53+a

#### TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Utility, flatbed, or similar.  
GROUP 2: Dump, 8 yards, and under (water level); water truck, up to and including 2,000 gallons.  
GROUP 3: Tandem Dump, over 8 yards (water level); water truck (over 2,000 gallons).  
GROUP 4: Semi-trailer, rock cans, or semi-dump.  
GROUP 5: Slip-in or pup.  
GROUP 6: End dumps (unlicensed); tractor trailer (hauling equipment).

a. An employee who has completed 1 but less than 2 years service - 1 week's paid vacation; 2 but less than 10 years service - 2 weeks paid vacation; 10 but less than 15 years service - 3 weeks paid vacation; and 15 or more years service - 4 weeks paid vacation.

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ENGI0003L 09/01/2002

	Rates	Fringes
DREDGING:		
CLAMSHELL OR DIPPER DREDGES:		
GROUP 1	31.59	16.53
GROUP 2	30.93	16.53
GROUP 3	30.53	16.53
GROUP 4	28.87	16.53

#### 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 DREDGES:

GROUP 1	31.23	16.53
GROUP 2	31.08	16.53
GROUP 3	30.93	16.53
GROUP 4	30.87	16.53
GROUP 5	30.53	16.53
GROUP 6	30.42	16.53
GROUP 7	28.87	16.53

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.

DERRICKS:

GROUP 1	31.59	16.53
GROUP 2	30.93	16.53
GROUP 3	30.53	16.53
GROUP 4	28.87	16.53

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.

BOAT OPERATORS:

Master Boat Operator	31.23	16.53
Boat Operator	31.08	16.53
Boat Deckhand	28.87	16.53

IRON0625A 09/02/2002

IRONWORKERS	Rates 27.00+a	Fringes 20.81
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- 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.

LABO0368A 09/03/2001

	Rates	Fringes
LABORERS:		
GROUP 1	22.85	11.20
GROUP 2	21.25	11.20
GROUP 3	23.85	11.20
GROUP 4	23.35	11.20
GROUP 5	22.35	11.20
GROUP 6	15.25	6.95
MASON TENDERS	23.10	11.20

#### 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 tremie work over water on caissons, pilings, abutments, etc.; Concrete: Mixing, handling, conveying, pouring, vibrating, otherwise placing of concrete or aggregates or by any other process; Concrete: Operation of motorized wheelbarrows or buggies or machines of similar character, whether run by gas, diesel, or electric power; Concrete 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); Felling, 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); 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, establishing 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: sweeping, 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 stockpile 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 precast concrete slabs, walls, or sections: all loading, unloading, stockpiling, hooking on of such slabs, walls or sections; Quarry Laborers; Railroad, Streetcar, and Rail Transit Maintenance and Repair; 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 thereof, preparation for

foundation or mudsills, maintenance; Scraping of floors; Screeds: Handling of all screeds to be reused; handling, dismantling and conveyance of screeds; Setting, leveling and securing or bracing of metal or other road forms and expansion joints; Sheet 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; Stripper (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 and 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.

LABO0368B 09/30/2002

	Rates	Fringes
LANDSCAPE AND IRRIGATION LABORERS:		
Group 1	17.66	5.47
Group 2	18.16	5.47
Group 3	14.51	5.47

#### LABORERS CLASSIFICATIONS

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



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

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

GROUP 3: Maintenance of trees, shrubs, ground covers, lawns and

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

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LABO0368C 09/04/2000

	Rates	Fringes
UNDERGROUND LABORERS:		
GROUP 1	21.45	10.74
GROUP 2	22.95	10.74
GROUP 3	23.45	10.74
GROUP 4	24.45	10.74
GROUP 5	24.80	10.74
GROUP 6	25.05	10.74
GROUP 7	25.50	10.74
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)

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PAIN1791A 07/01/2002

	Rates	Fringes
PAINTERS:		
Brush	26.55	19.35
Sandblaster; Spray	27.05	19.35

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PAIN1889A 01/01/2001

	Rates	Fringes
GLAZIERS	23.07	17.30

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PAIN1926B 02/25/2001

	Rates	Fringes
SOFT FLOOR LAYERS	22.90	15.50

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PAIN1944A 01/01/2003

	Rates	Fringes
TAPERS	32.75	13.05

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PLAS0630A 09/02/2002

	Rates	Fringes
PLASTERERS	26.71	16.72

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PLAS0630B 09/02/2002

	Rates	Fringes
CEMENT MASONS:		
Cement Masons	25.87	16.72
Trowel Machine Operators	26.02	16.72

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\* PLUM0675A 01/05/2003

	Rates	Fringes
PLUMBERS, PIPEFITTERS, STEAMFITTERS & SPRINKLER FITTERS	30.30	16.70

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ROOF0221A 04/28/2002

	Rates	Fringes
ROOFERS	28.10	12.83

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SHEE0293A 09/01/2002

	Rates	Fringes
SHEET METAL WORKERS	33.47	14.12

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SUHI1001A 09/15/1997

DRAPERY INSTALLERS	Rates 13.60	Fringes 1.20
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SUHI2001A 09/15/1997

FENCE ERECTORS (Chain Link)	Rates 9.33	Fringes 1.65
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RIGGERS; WELDERS - Receive rate prescribed for craft performing operation to which rigging or welding is incidental.

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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)).

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In the listing above, the "SU" designation means that rates listed under that 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, D. C. 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, D. C. 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, D. C. 20210

4.) All decisions by the Administrative Review Board are final.  
END OF GENERAL DECISION

percentage points, the Engineer will apply a suitable correction to the measured quantities taken from the pit when calculating pay quantities.

**(C) Overhaul.** The Engineer will measure overhaul according to Section 205 - Overhaul.

**(D) Embankment.** The Engineer will not measure embankment for payment.

#### **203.05 Basis of Payment.**

**(A) Roadway Excavation.** The Engineer will pay for the accepted roadway excavation at the contract unit price per cubic yard.

The price includes full compensation for obliterating old roadways and raised island; preparing the subgrade; placing selected material in final position; disposing surplus excavation material; rounding of slopes; using water for compaction; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

The Engineer will not pay for stockpiling selected material or subsequently placing it in final position. The Engineer will consider payment for this work to be included in the contract unit price for roadway excavation.

The Engineer will pay for removing and disposing of slide material as roadway excavation:

- (1)** that slides from outside the planned roadway slopes and into the planned roadway prism, and
- (2)** the removal and disposal of unstable material in natural position outside the planned roadway slopes.

The Engineer will consider full compensation to be included in the contract price for roadway excavation within the authorized lines and elevations for removing and disposing of material that may come into excavations for structures and drainage facilities.

The Engineer will not include slide material quantities that slide across the roadway prism in the roadway excavation quantities unless the Contractor rehandles and reuses the material. The Engineer will only pay for the quantities rehandled.

When choosing to remove the rocks and lumps or break up hardened material and the contract specifies the source of the selected material, such work shall be at no cost to the State. When the contract does not specify the source of the selected material, the Engineer will pay this work as extra work as specified in Subsection 104.03 - Extra Work.

When specified, the Engineer will pay for:

- (1) removing of the unsuitable material below the subgrade and
- (2) backfilling and compacting to the finished grade with acceptable material.

The Engineer will pay the following excavation for unlined gutters as roadway excavation:

- (1) within the median area of a divided highway; and
- (2) between the roadbed shoulder and an adjacent cut slope.

**(B) Borrow Excavation.** The Engineer will pay for the accepted borrow excavation at the contract unit price per cubic yard complete in place.

The price includes full compensation for staking out and cross sectioning the site; establishing the borrow area; providing, replacing, and maintaining temporary and permanent fencing; confining livestock; watering; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

The Engineer will not pay for selected material from ditch and channel or structure excavations, when used, instead of borrow.

**(C) Overhaul.** The Engineer will pay for overhaul according to Section 205 - Overhaul.

**(D) Embankment.** The Engineer will not pay for embankments separately. The Engineer will consider the cost for constructing embankments included in the contract price for roadway excavation or borrow excavation.

The price includes full compensation for drying embankment material; constructing earth dikes for roadway protection within or outside the highway right-of-way; placing and compacting acceptable material within the roadway area where the Contractor removed unsuitable fill foundation material; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

The Engineer will make payment under:

<b>Pay Item</b>	<b>Pay Unit</b>
Roadway Excavation	Cubic Yard
Roadway Excavation for Temporary Pavement	Cubic Yard
Borrow Excavation	Cubic Yard"

**END OF SECTION**



## SECTION 610 - REINFORCED CONCRETE DRIVEWAYS

Make the following amendments to said Section:

(I) Amend 610.04 **Method of Measurement** to read as follows:

**"610.04 Method of Measurement.** The Engineer will measure reinforced concrete driveways per square yard complete in place."

(II) Amend 610.05 **Basis of Payment** to read as follows:

**"610.05 Basis of Payment.** The Engineer will pay for the accepted reinforced concrete driveways at the contract unit price per square yard.

The price includes full compensation for removing unsuitable material; installing wire mesh; excavating and backfilling; furnishing, placing and compacting bed course material ;furnishing and placing reinforced concrete driveway and driveway curbs as specified in the contract or by the Engineer; and furnishing labor, materials, equipment, tools, and other incidentals necessary to complete the work.

The Engineer will make payment under:

Pay Item	Pay Unit
_____ - Inch Reinforced Concrete Driveway	Square Yard

The Engineer will not pay for the accepted excavation and backfill. These items of work shall be considered incidental to the various contract items.

END OF SECTION

## SECTION 612 - GROUTED RUBBLE PAVING

Make the following amendments to said Section:

(I) Amend **612.04 Method of Measurement** to read as follows:

**"612.04 Method of Measurement.** The Engineer will measure grouted rubble paving for Type "1" and Type "2" Outlet Structures per cubic yard.

The Engineer will not measure grouted rubble paving for driveway culverts."

(II) Amend **612.05 Basis of Payment** to read as follows:

**"612.05 Basis of Payment.** The Engineer will pay for the accepted grouted rubble paving for Type "1" and Type "2" Outlet Structures at the contract unit price per cubic yard.

The price includes full compensation for excavating, laying stones, grouting, backfilling, furnishing labor, materials, equipment, tools, and other incidentals necessary to complete the work.

The Engineer will not pay for grouted rubble paving for driveway culverts. The cost of installing the grouted rubble paving at the inlet and outlet sections of the driveway culverts shall be considered incidental to the Driveway Culverts."

The Engineer will make payment under:

<b>Pay Item</b>	<b>Pay Unit</b>
Grouted Rubble Paving for Outlet Structures	Cubic Yard"

**END OF SECTION**

Make the following Section a part of the Standard Specifications:

**"SECTION 693 - QUADGUARD SYSTEM OR TAU-II  
TERMINAL IMPACT ATTENUATOR**

**693.01 Description.** This section is for furnishing and installing a Quadguard System or TAU-II terminal impact attenuators at the prepared sites according to the contract.

**693.02 Materials.** Materials shall conform to the following:

Concrete Structures 503.02

Reinforcing Steel 602.02

The Quadguard System terminal impact attenuator shall consist of crushable cartridge assemblies surrounded by a framework of steel Quad-beam guardrail which can telescope rearward during head-on impacts. The Quadguard System shall have a center monorail which resists lateral movement during side angle impacts. The nose shall consist of a formed plastic nose wrap.

The TAU-II terminal impact attenuator shall consist of independent collapsible energy absorbing cartridges guided and supported by high strength galvanized steel cables. The TAU-II cable system shall resist lateral movement during side angle impacts. The nose shall consist of a formed plastic nose wrap.

Concrete shall conform to Section 601 - Structural Concrete. Compressive strength shall be 4000 psi at 28 days.

**693.03 Construction Requirements.**

(A) **Equipment List and Drawings.** Within 10 working days following the Award of Contract, submit to the Engineer for acceptance 6 copies of a list of materials and equipment to be incorporated in the work. The list shall include the name of the manufacturer, dimensions and catalog number of the unit, detailed scale drawings of special equipment, shop drawings for fabrication and proposed deviations.

(B) **Site Preparation.** Before installing the Quadguard System or TAU-II terminal impact attenuator, prepare the site as shown in the contract or specified by the Engineer. Excavate and backfill according to the Section 206 - Excavation and Backfill for Conduits and Structures. Exercise extreme care so as not to damage underground facilities. Repair damages by the Contractor immediately at no cost to the State.

The placing and curing of the concrete shall conform to Section 503 - Concrete Structures.

The placing of reinforcing steel shall conform to Section 602 - Reinforcing Steel and the manufacturer's recommendations.

**(C) Quadguard System or TAU-II Terminal Impact Attenuator.** Install Quadguard System or TAU-II terminal impact attenuator according to the recommendations of the manufacturer. Provide training for the installation of the system in the field for a period not to exceed three hours. Also provide a minimum of 8 hours of training at the District Office for the installation and maintenance of the system. Furnish five copies of specially prepared manual on the installation and maintenance of the system.

**(D) Replacement Cartridge Cells.** Furnish and deliver one set of replacement cartridge cells for each installation to locations designated by the Engineer and stored as specified.

**(E) Replacement Nose Section Cover and Cartridge Cells.** Furnish and deliver one set of replacement nose section cover and cartridge cell for each installation to locations designated by the Engineer and stored as ordered.

**693.04 Method of Measurement.** The Engineer will measure Quadguard System or TAU-II terminal impact attenuator per each.

The Engineer will measure unassembled replacement cartridge cells per cell as specified in the proposal.

The Engineer will measure unassembled replacement nose section cover and cartridge cell per each.

**693.05 Basis of Payment.** The Engineer will pay for the accepted Quadguard or TAU-II terminal impact attenuator at the contract unit price per each. The price includes full compensation for doing work necessary for installing the Quadguard system or TAU-II terminal impact attenuator complete in place including site preparation, excavation, backfill, reinforced concrete foundation, and services for training and furnishing labor, materials, tools, and equipment, and incidentals necessary to complete the work.

The Engineer will pay for the accepted unassembled replacement cells at the contract unit price per cell. The price includes full compensation for furnishing and delivering the unassembled replacement cells and furnishing labor, materials, tools, and equipment, and incidentals necessary to complete the work.

The Engineer will pay for the accepted unassembled replacement nose section cover and cartridge cells at the contract unit price per each. The price includes full compensation for furnishing and delivering unassembled replacement nose section cover and cartridge cells and furnishing labor, materials, tools, and equipment, and incidentals necessary to complete the work.

The Engineer will make payment under:

<b>Pay Item</b>	<b>Pay Unit</b>
Terminal Impact Attenuator	Each
Replacement Cartridge Cell (Unassembled)	Cell
Replacement Nose Section Cover and Replacement Cartridge Cell (Unassembled)	Each"

**END OF SECTION**

## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
203.0010	Roadway Excavation for Temporary Pavement	230	Cu. Yd.	\$ _____	\$ _____
203.0100	Roadway Excavation	4,100	Cu. Yd.	\$ _____	\$ _____
203.0110	Borrow Excavation	1,010	Cu. Yd.	\$ _____	\$ _____
206.2020	Structure Excavation for Drainage Systems	2,369	Cu.Yd.	\$ _____	\$ _____
206.7001	Structural Excavation for Retaining Walls	2,146	Cu.Yd.	\$ _____	\$ _____
206.7002	Structural Backfill for Retaining Walls	1,629	Cu. Yd.	\$ _____	\$ _____
206.7003	Filter Material for Retaining Walls	98	Cu. Yd.	\$ _____	\$ _____
209.1000	Water Pollution and Erosion Control	F.A.	F.A.	F.A.	\$50,000.00
305.1000	Aggregate Subbase for Temporary Pavement	115	Cu. Yd.	\$ _____	\$ _____
305.1110	Aggregate Subbase	1,640	Cu. Yd.	\$ _____	\$ _____
306.1000	Untreated Permeable Base Course	690	Cu. Yd.	\$ _____	\$ _____
312.0001	Plant Mix Glassphalt Concrete Base Course for Temporary Pavement	160	Tons	\$ _____	\$ _____
312.1000	Plant Mix Glassphalt Concrete Base Course	2,950	Tons	\$ _____	\$ _____

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## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
401.1000	Asphalt Concrete Pavement, Mix No. IV for Temporary Pavement	80	Tons	\$ _____	\$ _____
402.0001	Superpave Asphalt Concrete Pavement	1,840	Tons	\$ _____	\$ _____
402.0600	Pavement Smoothness Incentive	allowance	allowance	allowance	\$12,000.00
411.1212	13-Inch Reinforced Concrete Pavement for bus bay	58	Cu. Yd.	\$ _____	\$ _____
503.0001	Reinforced Concrete Jacket for 8 inch waterline	452	Lin. Ft.	\$ _____	\$ _____
503.1200	Driveway Culverts	156	Lin. Ft.	\$ _____	\$ _____
503.1210	Reinforced Concrete Jacket for culvert	173	Lin. Ft.	\$ _____	\$ _____
503.1310	Concrete in Footings in CMU Wall (38 Cu. Yd.)	L.S.	L.S.	L.S.	\$ _____
503.2010	Concrete in Retaining Walls (554 Cu. Yd.)	L.S.	L.S.	L.S.	\$ _____
513.4000	Type "L2" CMU Wall	150	Sq. Yd.	\$ _____	\$ _____
513.5000	Type "L1" CMU Wall	96	Sq. Yd.	\$ _____	\$ _____
602.1002	Reinforcing Steel in Retaining Walls (136,023 Lbs.)	L.S.	L.S.	L.S.	\$ _____
602.1003	Reinforcing Steel in CMU Wall Concrete Footings (12,573 Lbs.)	L.S.	L.S.	L.S.	\$ _____

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## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
603.0010	Bed Course Material for Culverts	468	Cu. Yd.	\$ _____	\$ _____
603.1008	18-Inch Reinforced Concrete Pipe, Class III or 18-Inch High Density Polyethylene Pipe (Type S), or 18-Inch Aluminum Spiral Rib Pipe, thickness = 0.105"	73	Lin. Ft.	\$ _____	\$ _____
603.1010	24-Inch Reinforced Concrete Pipe, Class III or 24-Inch High Density Polyethylene Pipe (Type S), or 24-Inch Aluminum Spiral Rib Pipe, thickness = 0.105"	2,048	Lin. Ft.	\$ _____	\$ _____
604.1000	Adjusting Water Valve Box Frame and Cover	1	Each	\$ _____	\$ _____
604.1010	Relocation of Water Meter, Water Meter Box Frame and Cover	3	Each	\$ _____	\$ _____
604.2000	Adjusting Water Valve Manhole Frame and Cover	13	Each	\$ _____	\$ _____
604.5104	Type "A" Storm Drain Manhole 4.00 to 4.99 Feet	5	Each	\$ _____	\$ _____
604.5105	Type "A" Storm Drain Manhole 5.00 to 5.99 Feet	3	Each	\$ _____	\$ _____
604.5125	Type "B-1" Catch Basin, 6.00 to 6.99 Feet	1	Each	\$ _____	\$ _____
604.5126	Type "C" Catch Basin, 4.00 to 4.99 Feet	1	Each	\$ _____	\$ _____
604.5254	Type "A-9P" Grated Drop Inlet, 4.00 to 4.99 Feet	8	Each	\$ _____	\$ _____

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# PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
604.5255	Type "A-9P" Grated Drop Inlet, 5.00 to 5.99 Feet	2	Each	\$ _____	\$ _____
604.5262	Type "61614P" Grated Drop Inlet, 2.00 to 2.99 Feet	2	Each	\$ _____	\$ _____
604.5274	Type "2A-9P" Grated Drop Inlet, 4.00 to 4.99 Feet	1	Each	\$ _____	\$ _____
604.5284	Special Type "A-9P" Grated Drop Inlet, 4.00 to 4.99 Feet	3	Each	\$ _____	\$ _____
605.1000	Perforated Underdrain Pipe	1,117	Lin. Ft.	\$ _____	\$ _____
605.2000	Non-Perforated Underdrain Pipe	60	Lin. Ft.	\$ _____	\$ _____
606.1000	Guardrail Type 3 Single w/Steel Post	327	Lin. Ft.	\$ _____	\$ _____
606.1001	Triton Barrier	150	Each	\$ _____	\$ _____
607.1001	4.0 Feet Chain Link Fence Without Top Rail	391	Lin. Ft.	\$ _____	\$ _____
608.1200	4-Inch Reinforced Concrete Sidewalk	1,620	Sq. Yd.	\$ _____	\$ _____
608.1300	4-Inch Reinforced Concrete Walkway	30	Sq. Yd.	\$ _____	\$ _____
608.1400	4-Inch Modified Reinforced Concrete Sidewalk	38	Sq. Yd.	\$ _____	\$ _____
609.2020	Curb, Type 2D	1,200	Lin. Ft.	\$ _____	\$ _____
609.2720	Curb and Gutter, Type 2DG	1,740	Lin. Ft.	\$ _____	\$ _____

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## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
609.2740	Thru Gutter	144	Lin. Ft.	\$ _____	\$ _____
610.0300	8-Inch Reinforced Concrete Driveway	110	Sq. Yd.	\$ _____	\$ _____
610.0400	6-Inch Reinforced Concrete Driveway	700	Sq. Yd.	\$ _____	\$ _____
611.1000	Hand Laid Riprap	12	Cu. Yd.	\$ _____	\$ _____
612.6410	Grouted Rubble Paving for Outlet Structures	27	Cu. Yd.	\$ _____	\$ _____
621.5000	Regulatory and Warning Signs (10 Sq. Ft. or Less)	5	Each	\$ _____	\$ _____
621.5100	Regulatory and Warning Signs (10 Sq. Ft. or Less) with Post	25	Each	\$ _____	\$ _____
621.5600	Relocation of Existing Regulatory and Warning Signs (10 Sq. Ft. or Less) with Posts	2	Each	\$ _____	\$ _____
621.7100	Construction Signs with Posts	5	Each	\$ _____	\$ _____
621.8100	Street Name Sign on Mast Arm with New Brackets	2	Each	\$ _____	\$ _____
622.1001	Street Lighting Luminaire	9	Each	\$ _____	\$ _____
622.2001	Street Lighting Luminaire with House Side Shield	7	Each	\$ _____	\$ _____
622.3001	2' x 4' Handhole	2	Each	\$ _____	\$ _____

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## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
622.4001	2 - 3" C Ductline	100	Lin. Ft.	\$ _____	\$ _____
622.5001	4 - 5" C Ductline	125	Lin. Ft.	\$ _____	\$ _____
622.6001	8 - 5" C Ductline	125	Lin. Ft.	\$ _____	\$ _____
622.7001	HECO Service Charges	L.S.	L.S.	L.S.	\$ _____
622.8001	2-5" C Ductline	125	Lin. Ft.	\$ _____	\$ _____
623.2011	Type I Signal Standard	1	Each	\$ _____	\$ _____
623.2021	Type II Signal Standard with 40' - 0" Mast Arm	1	Each	\$ _____	\$ _____
623.2031	Foundation for Type I Signal Standard	1	Each	\$ _____	\$ _____
623.2041	Foundation For Type II Signal Standard with 40' - 0" Mast Arm	1	Each	\$ _____	\$ _____
623.2061	Relocate Existing Solar Power Flashing Beacon with Foundation	1	Each	\$ _____	\$ _____
623.3001	Traffic Signal Assembly (One-way, 12-Inch, 1-3 Section with Slip Fitter Mounting)	1	Each	\$ _____	\$ _____
623.3055	Traffic Signal Assembly (Two-way, 12-Inch, 2-3 Section Vertical with Bracket Mounting)	1	Each	\$ _____	\$ _____

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# PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
623.3060	Traffic Signal Assembly (One-way, 12-Inch, 1-3 Section Vertical with Mast Arm Mounting)	2	Each	\$ _____	\$ _____
623.4040	Pedestrian Push Button with Sign	4	Each	\$ _____	\$ _____
623.5000	Traffic Signal Ductline, One 2-Inch Conduit, Schedule 80 (110 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
623.5010	Traffic Signal Ductline, Two 2-Inch Conduit, Schedule 80 (20 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
623.5050	Traffic Signal Ductline, Four 2-Inch Conduit, Schedule 40 (100 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
623.6000	Type A Pullbox	1	Each	\$ _____	\$ _____
623.6010	Type B Pullbox	3	Each	\$ _____	\$ _____
623.7040	Type 1 Traffic Control Cable (110 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
623.7042	Type 2 Loop Detector Lead-In Cable (505 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
623.7046	Type 6 Power Cable (110 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
623.7051	Loop Detector Sensing Unit (6' x 6') One Loop	12	Each	\$ _____	\$ _____
624.0020	12-Inch waterline relocation at sta 23+11	L.S.	L.S.	L.S.	\$ _____

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# PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
624.0030	8-Inch waterline relocation at sta 23+23	L.S.	L.S.	L.S.	\$ _____
624.0040	12-Inch waterline relocation at sta 25+09	L.S.	L.S.	L.S.	\$ _____
624.0050	8-Inch waterline relocation at sta 30+20	L.S.	L.S.	L.S.	\$ _____
624.0060	8-Inch waterline relocation at sta 34+36	L.S.	L.S.	L.S.	\$ _____
624.0070	20-Inch waterline relocation at sta 34+36	L.S.	L.S.	L.S.	\$ _____
624.0090	Fire Hydrant Relocation Including All Appurtenances at Station 27+33	1	Each	\$ _____	\$ _____
629.0110	4-Inch Pavement Striping - Tape, Type I or Thermoplastic Extrusion (170 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.0120	8-Inch Pavement Striping - Tape, Type I or Thermoplastic Extrusion (320 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.0130	Double 4-Inch Pavement Striping - Tape, Type I or Thermoplastic Extrusion (420 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.0210	4-Inch Pavement Striping - Tape, Type II or Thermoplastic Extrusion (3080 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.0220	6-Inch Pavement Striping - Tape, Type II or Thermoplastic Extrusion (2400 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____

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## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.0230	8-Inch Pavement Striping - Tape, Type II or Thermoplastic Extrusion (80 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.0240	12-Inch Pavement Striping - Tape, Type II or Thermoplastic Extrusion (120 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.0250	Double 4-Inch Pavement Striping - Tape, Type II or Thermoplastic Extrusion (1500 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.1010	4-Inch Pavement Striping - Tape, Type III or Thermoplastic Extrusion (680 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.1017	12-Inch Pavement Striping - Tape, Type III or Thermoplastic Extrusion (90 Lin. Ft.)	L.S.	L.S.	L.S.	\$ _____
629.1021	Crosswalk Marking - Tape, Type III or Thermoplastic Extrusion	10	Lane	\$ _____	\$ _____
629.1031	Pavement Arrows - Tape, Type III or Thermoplastic Extrusion	12	Each	\$ _____	\$ _____
629.1041	Pavement Words - Tape, Type III or Thermoplastic Extrusion	6	Each	\$ _____	\$ _____
629.1051	Pavement Symbol - Paint	12	Each	\$ _____	\$ _____
629.1061	Detour 4-Inch Pavement Striping - Tape	10,100	Lin. Ft.	\$ _____	\$ _____

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## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.1062	Detour Double 4-Inch Pavement Striping - Tape	5,740	Lin. Ft.	\$ _____	\$ _____
629.2030	Type A Pavement Marker	108	Each	\$ _____	\$ _____
629.2040	Type C Pavement Marker	112	Each	\$ _____	\$ _____
629.2041	Detour Type C Pavement Marker	250	Each	\$ _____	\$ _____
629.2050	Type D Pavement Marker	21	Each	\$ _____	\$ _____
629.2051	Detour Type D Pavement Marker	200	Each	\$ _____	\$ _____
629.2060	Type H Pavement Marker	81	Each	\$ _____	\$ _____
629.2061	Detour Type H Pavement Marker	120	Each	\$ _____	\$ _____
629.2070	Type DB Pavement Marker	1	Each	\$ _____	\$ _____
636.1001	Maintenance of Field Office and Project Site Laboratory	F.A.	F.A.	F.A.	\$24,000.00
638.1000	Cellular phone (Not to exceed \$4,800 for 3 phones)	L.S.	L.S.	L.S.	\$ _____
640.1000	Grass Swale	710	Lin. Ft.	\$ _____	\$ _____
641.0100	Hydro-Mulch Seeding	28,600	Sq. Ft.	\$ _____	\$ _____

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## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
645.0200	Additional Police Officers and/or Additional Traffic Control Devices	F.A.	F.A.	F.A.	\$100,000.00
650.0001	Curb Ramp Type D	10	Each	\$ _____	\$ _____
650.0002	Curb Ramp Type D-1	1	Each	\$ _____	\$ _____
650.0004	Curb Ramp Type C	1	Each	\$ _____	\$ _____
650.0005	Curb Ramp Type B Modified	2	Each	\$ _____	\$ _____
652.0150	2 Inch Cold Planing	4,900	Sq. Yd.	\$ _____	\$ _____
656.1000	Mailbox	14	Each	\$ _____	\$ _____
693.1000	Terminal Impact Attenuator	2	Each	\$ _____	\$ _____
693.1100	Replacement Cartridge Cell (Unassembled)	12	Cell	\$ _____	\$ _____
693.1200	Replacement Nose Section Cover and Replacment Cartridge Cell (Unassembled)	4	Each	\$ _____	\$ _____
699.1000	Mobilization (Not to Exceed 10% of the Sum of All Items Excluding the Bid Price of this Item, cellular phones, allowances, and force account items)	L.S.	L.S.	L.S.	\$ _____

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## PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
A.	SUM OF ALL ITEMS				\$ _____
B.	EITHER FURNISH FOREIGN STEEL NOT TO EXCEED AMOUNT (INSERT "0") 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 AND AMOUNTS. FAILURE TO DO SO MAY BE GROUNDS FOR REJECTION OF BID.				

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