

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

**ADDENDUM NO. 3
FOR**

**VOLCANO ROAD
INTERSECTION IMPROVEMENTS AT HUINA ROAD
PROJECT NO. 11M-01-00**

**DISTRICT OF PUNA
ISLAND OF HAWAII**

2002

Amend the TABLE OF CONTENTS, NOTICE TO BIDDERS, SPECIAL PROVISIONS, PROPOSAL, and PLANS as follows

1. TABLE OF CONTENTS

- a. Replace pages 1, 2 and 4 dated 11/27/01 and page 3 dated 2/20/02 with the attached pages 1 thru 4 dated 3/21/02.

2. NOTICE TO BIDDERS

- a. Prospective bidders are hereby notified that receiving of sealed proposals scheduled for March 7, 2002 and postponed until further notice is now scheduled for 2:00 P.M., May 30, 2002. The attached NOTICE TO BIDDERS shall be incorporated and made a part of the NOTICE TO BIDDERS.

3. SPECIAL PROVISIONS

- a. Replace page 108-1a dated 8/15/00 with the attached page 108-1a dated 4/19/02.
- b. Replace pages 206-1a thru 206-6a dated 1/16/02 with the attached pages 206-1a thru 206-7a dated 3/13/02.
- c. Replace page 503-1a dated 11/27/01 with the attached pages 503-1a thru 503-2a dated 3/13/02.
- d. Replace pages 604-1a thru 604-4a dated 10/22/01 with the attached pages 604-1a thru 604-a dated 3/13/02.

- e. Replace page 624-1a dated 11/27/01 with the attached page 624-1a dated 4/19/02.
- f. Replace page 699-1a dated 6/10/00 with the attached page 699-1a dated 4/19/02.

4. PROPOSAL

- a. Replace pages P-12 thru P-16 dated 2/20/02, page P-17 dated 8/10/00 and pages P-18 thru P-21 dated 11/27/01 with the attached pages P-12 thru P-17 dated 4/19/02 and P-18 thru P-22 dated 4/19/02.

5. PLANS

- a. Replace plan sheet number ADD.2 with the attached plan sheet number ADD.2.
- b. Replace plan sheet numbers 7, 10, 13, 14, 15, 16, 18, 20, 21, 23, 34, 43 and 55 with the attached plan sheet numbers ADD.7, ADD.10, ADD.13, ADD.14, ADD.15, ADD.16, ADD.18, ADD.20, ADD.21, ADD.23, ADD.34, ADD.43 and ADD.55.
- c. Add the attached plan sheet numbers ADD.17S-1, ADD.33S-1 and ADD.34S-1.

Please acknowledge receipt of the Addendum No. 3 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

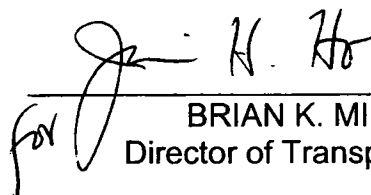

BRIAN K. MINNAI
Director of Transportation

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NOTICE TO BIDDERS

The receiving of sealed proposals for **VOLCANO ROAD, INTERSECTION IMPROVEMENTS AT HUINA ROAD, PROJECT NO. 11M-01-00, DISTRICT OF PUNA, ISLAND OF HAWAII**, at the Contracts Office, Department of Transportation, 869 Punchbowl Street, Honolulu, Hawaii 96813, and the Office of District Engineer – Hawaii, 50 Makaala Street, Hilo, Hawaii 96720, postponed until further notice is now SCHEDULED for 2:00 P.M., May 30, 2002, at which time and places the sealed proposals will be publicly opened and read.


BRIAN K. MINAAI
Director of Transportation

Advertised: Hawaii Star Bulletin
Hawaii Tribune Herald
West Hawaii Today
May 10, 2002

Amend Section 108 - Prosecution and Progress to read as follows:

"SECTION 108 - PROSECUTION AND PROGRESS

108.01 Subletting of Contract. The Contractor shall not sublet, sell, transfer, assign, mortgage, engage or dispose the contract or its right, title, or interest without the written consent of the Department.

After complying with Section 103D-302, HRS, the Contractor may subcontract a portion of the project work according to this section. The Department will hold the Contractor responsible for the work subcontracted. The Department will not permit the Contractor to subcontract project work to suspended subcontractors, nor subcontractors not properly listed in its bid proposal.

(A) Specialty Items. The Contractor may subcontract the 'specialty items'. The Department will deduct the cost of the 'specialty items' so done by subcontract from the total contract cost. After this deduction, the Contractor shall then do more than 50% of the resulting cost with its own organization.

When subcontracting an entire item, the Department will base the value of work subcontracted on the contract item bid price. When subcontracting a portion of an item, the Department will base the value of work subcontracted on the cost as estimated by the Engineer.

The 'Specialty Items' of work for this project are as follows:

Section No.	Description
312	Contract Item No. 312.0100 under Section 312 - Plant Mix Glassphalt Concrete Base Course
401	All Contract Items under Section 401 - Asphalt Concrete Pavement
606	All Contract Items under Section 606 - Guardrail
621	All Contract Items under Section 621 - Traffic Control Signs
622	All Contract Items under Section 622 - Highway Lighting System
629	All Contract Items under Section 629 - Pavement Markings

Amend Section 206 - Excavation and Backfill for Conduits and Structures to read as follows:

**"SECTION 206 - EXCAVATION AND BACKFILL
FOR CONDUITS AND STRUCTURES**

206.01 Description. This section is for:

- (1) excavation to the depth and lines established for the foundations of bridges, and other structures;
- (2) excavation and backfilling trenches for culverts, structural plate culverts, utility pipes (including water and sewer lines), concrete and cement rubble masonry headwalls, grouted rubble paving, hand-laid and dumped riprap;
- (3) other excavation specifically designated in the contract as structure excavation;
- (4) backfilling according to this section and Section 624 - Water System and Section 625 - Sewer System;
- (5) disposal of surplus material from the structure excavation;
- (6) bailing, draining, sheathing and the construction of cofferdams, if found necessary, and the subsequent removal of sheathing and cofferdams;
- (7) work associated with dewatering activities and complying with the conditions of the National Pollutant Discharge Elimination System (NPDES) Permit for Dewatering Activities.

Excavation for structures does not include the excavation:

- (1) of post holes for fences, gates, mailboxes, or similar items;
- (2) necessary to properly set curbs, paved gutters, headers, pavement or base course forms.

206.02 Materials. Materials shall conform to the following:

Filter Material	703.18
Structure Backfill Material	703.20

The Contractor may use Section 313 - Controlled Low Strength Material (CLSM) in place of trench and structure backfill material subject to the Engineer's acceptance. Do not use CLSM as trench backfill when installing aluminum and aluminum coated pipe culverts. When using CLSM, the Engineer will consider CLSM as the required backfill.

206.03 Construction Requirements.

(A) General. Notify the Engineer 10 working days before excavation for structures, so that the Engineer can take cross-sectional elevations and measurements of the undisturbed ground.

Excavate foundations to the elevations according to the particular type of structure to be placed.

Do not disturb the ground below the elevations shown in the contract in structure excavation operations. When disturbing such ground below the required elevations, excavate the disturbed ground until the undisturbed ground is reached. Backfill this area with Class D concrete until the required foundation footing elevation is reached. This work shall be at no cost to the State.

Keep the foundation dry by draining, bailing, pumping, driving sheathings or constructing cofferdams and cribs.

When the material from excavation does not meet the quality requirements specified for the backfill, furnish such suitable material as required.

Use or dispose surplus and suitable material from structure excavation remaining after completing backfilling according to Section 203 - Excavation and Embankment.

(B) Cofferdams. Carry cofferdams for foundation construction well below the bottom of the footings. Brace well and as watertight as practicable. Provide the interior dimensions of cofferdams sufficient clearance for driving piles, constructing forms and, when placing no seal, to permit pumping outside the forms.

When the clearance provided in the contract between the outside line of the footing and piles or interior wall or surface is not sufficient to permit the driving of piles or building of forms, the Contractor may provide such clearance. The Engineer will consider such enlargement over one

foot outside the dimensions of the footing shown in the contract for the sole purpose of expediting the work of the Contractor and is of no value to the State. The Engineer will not include such excavation and backfill for payment.

Correct or enlarge cofferdams that are tilted or moved out of position during the process of sinking. Such work shall be at no cost to the State.

In tidal waters or in streams at a time of probable flood, vent cofferdam walls at low water elevation to insure full hydrostatic head both inside and outside the cofferdam when pouring and setting of seals.

The Engineer will not permit shoring in cofferdams that will induce stress, shock, or vibration in the permanent structure.

When permitted, cross struts or bracing may extend through foundation concrete. The Engineer will permit such struts or bracing below low water to remain in place. Remove struts or bracing above low water. Fill the volume with concrete of the same mix as that specified for the surrounding concrete.

If requested by the Engineer, submit drawings and design calculations showing the proposed method of cofferdam construction and other details left open to its choice or not fully shown on the contract for substructure work. The type and clearance of cofferdams shall be subject to acceptance.

Remove the cofferdams with sheathing and bracing to the level one foot below the streambed at no cost to the State after the completion of the substructure. Remove the cofferdam so as not to disturb or mar the finished concrete or masonry.

(C) Foundation Treatment. Uncover the rock fully when footing concrete or masonry is to rest upon rock. Remove the surface to a depth sufficient to expose sound rock. Level off the rock roughly or cut and roughen to approximate horizontal and vertical steps.

Grout seams in rock under pressure. The Engineer will pay the cost as extra work according to Subsection 104.03 - Extra Work.

Do not disturb the bottom of the excavation when not using piles and footing concrete or masonry is to rest on an excavated surface other than rock. Do not make the final removal of the foundation material to grade until just before placing the concrete or masonry.

Complete the excavation for piers and abutments to the bottom of the footings before driving piles therein. Remove excess materials remaining in the excavation after pile driving to the elevation of the bottom of the footings.

The Engineer will permit excavating a sufficient distance below the bottom of the footing as shown on the contract at no cost to the State when using piles. When the ground has risen above plan grade after driving the piles, remove the surplus material at no cost to the State. When the surface of the ground is below plan grade after driving the piles, backfill and compact to the plan grade with acceptable material at no cost to the State.

(D) Inspection. When the Engineer needs to determine the character of the foundation material, dig test pits and make test borings and foundation bearing tests. The Engineer will pay the cost according to Subsection 104.03 - Extra Work.

Notify the Engineer for inspecting and accepting the elevation and character of the foundation before placing concrete or masonry in the footing whenever completing the structure excavation to the foundation grade of a footing.

(E) Structure and Trench Backfill. Do not deposit material in fills until the test samples imply that the concrete has developed a strength required in Subsection 503.03(E) - Loading against the back of:

- (1) concrete abutments,
- (2) piers,
- (3) concrete retaining walls, or
- (4) the outside walls of concrete box culverts

Cure the test samples under conditions similar to those affecting the structure. Continue backfilling so that excessive unbalanced loads are not introduced against the structure.

Place backfill material in uniform horizontal layers not exceeding 8 inches in loose thickness before compaction. Moisten and compact each layer of backfill until obtaining a relative compaction of not less than 95%. The Engineer may reduce compaction requirement of 95% in situations where such compaction is not feasible such as in footings located in running streams or in swampy areas. The Engineer will be

the sole judge of the degree of reduction. Backfill the footings with rockfill instead of the 95% compaction requirement in stream beds subject to appreciable scour.

When the Engineer cannot use the field density test, compact each layer of backfill with vibratory or suitable equipment on granular backfill material. Test methods to decide maximum densities and relative compaction according to Subsection 106.09 - Special Test Methods.

Do not use water containing an excessive quantity of salt or other deleterious substances for compaction of structure and trench backfill for metal pipes.

The Engineer will not permit compaction of backfill material by ponding or jetting.

When required, make sufficient fill at culverts and bridges ahead of other grading operations to permit public traffic to cross. Compact structure backfill at the following areas to a relative compaction of not less than 90%:

- (1) Oversized drains not beneath surfacing;
- (2) Footing for slope protection, slope paving, and aprons;
- (3) Headwalls, endwalls, and culvert wingwalls;
- (4) Retaining walls except portions under surfacing and crib wall;
- (5) Inlets in median areas or in traffic interchange loops;
- (6) Footings not beneath surfacing;
- (7) Other locations where the plans show 90% relative compaction for structure backfill.

(F) Filter Material. Place filter material for backfill at bridge abutments, and retaining walls according to the contract.

Make the subgrade as impervious as possible by pneumatic tamping where the material is placed. Compact the filter material thoroughly in layers with the backfill.

(G) Dewatering Activities. If excavation or backfilling operations requires dewatering, and the Contractor elects to discharge dewatering effluent into Waters of the United States or existing drainage systems, the Contractor shall obtain a National Pollutant Discharge Elimination System (NPDES) Activity Dewatering Permit from the Department of Health, Clean Water Branch (DOH-CWB). Do not begin dewatering activities until the DOH-CWB has issued a Notice of General Permit Coverage (NGPC). Dewatering operations shall be according to the conditions in the NGPC. Submit a copy of the NPDES Activity Dewatering Application and Permit to the Engineer.

206.04 Method of Measurement.

The Engineer will not measure structure excavation and structural backfill for payment.

206.05 Basis of Payment. The Engineer will not pay for structure excavation and structure backfill separately. The Engineer will consider the cost for structure excavation and structure backfill for the trenches and foundation of the culverts, utility pipes, retaining walls, traffic signal and roadway lighting conduits and standards as included in the contract price of the various culvert, utility pipe, retaining walls, traffic signal and roadway lighting contract items.

The price includes full compensation for excavating for structures and culvert trenches; keeping the foundation dry, placing and compacting surplus structure excavation in roadway embankments or disposing of the material along the roadway, providing cofferdams, notifying the Engineer for inspecting and accepting the elevation and character of the foundation; backfilling culvert trenches except for structural plate culverts; backfilling culvert trenches with CLSM except for structural plate culverts; furnishing and applying water for the compaction of structure backfill; testing the samples; placing backfill material in uniform horizontal layers; moistening and compacting each layer of backfill; and furnishing labor, materials, tools, equipment, and incidentals necessary to complete the work.

If required, the price includes preparing an NPDES Dewatering Activities Permit application; obtaining a NPDES Permit Application (CWB-NOI Form G) from the Department of Health, Clean Water Branch; installing, operating, monitoring, and maintaining the dewatering activities; removing all equipment and facilities from the site; restoring the site to its original condition; and furnishing materials, equipment, tools, labor and other incidentals necessary to complete the work.

The Engineer will deduct the cost from the progress payment for citations received by the Department of Health for non-compliance with the NGPC.

The Engineer will not make additional lump sum payment due to overruns or underruns in comparison with the estimated quantity shown in the pay item description. The Engineer will make additional lump sum payment only if the Engineer specifies an alteration in the work."

END OF SECTION

SECTION 503 - CONCRETE STRUCTURES

Make the following amendments to said Section:

(I) Amend **503.04 Method of Measurement** to read as follows:

"503.04 Method of Measurement. The Engineer will measure the concrete per cubic yard.

The Engineer will not make deductions for the volume occupied by the reinforcing steel, weepholes, timber bumpers, pipes less than 6 inches, conduits, or expansion joint materials.

The Engineer will not measure concrete blocks for fire hydrants separately.

The Engineer will measure reinforcing steel according to Section 602 - Reinforcing Steel."

(II) Amend **503.05 Basis of Payment** to read as follows:

"503.05 Basis of Payment. The Engineer will pay for the accepted concrete at the contract unit price per cubic yard complete in place.

The price includes full compensation for the concrete; for placing, curing and finishing; for furnishing materials including admixtures and cement; for furnishing and installing drains, scuppers, premolded joint fillers, joint seals, waterproofing at construction joints, waterstops, pipes, and conduits; for furnishing and installing metal rockers, anchor bolts, structural shapes for expansion joints and other similar items; for timber bumpers, forms, form lining and falsework or centering, bearing pads, structural steel bearing plates; and for equipments, tools, labor, materials, and incidentals necessary to complete the work.

The Engineer will not pay for concrete blocks for fire hydrants separately. The Engineer will consider them incidental to fire hydrants.

The Engineer will make payment under:

Pay Item	Pay Unit
Retaining Wall, Type _____	Cubic Yard
Concrete for Water System Relocation (Class B)	Cubic Yard

11M-01-00
503-1a

03/13/02

The Engineer will pay for reinforcing steel according to Section 602 - Reinforcing Steel."

END OF SECTION

Amend **Section 604 - Manholes, Inlets and Catch Basins** to read as follows:

"SECTION 604 - MANHOLES, INLETS AND CATCH BASINS

604.01 Description. This work includes constructing and/or adjusting manholes, inlets, drywells, drywell covers, and/or standard valve boxes according to the contract.

604.02 Materials. Concrete for structures shall be of the class specified. Concrete shall conform to Section 601 - Structural Concrete.

Brick for water valve manhole shall be concrete brick. Brick for water valve manhole shall conform to Subsection 704.02 - Concrete Brick.

Other materials shall conform to the following:

Asphalt Filler	702.07
Structural Backfill Material	703.20
Trench Backfill Material	703.21
Asphalt (Filler) Type C Asphalt	705.06(C)
Clay or Shale Brick	704.01
Mortar for Manholes	705.08
Reinforcing Steel	709.01
Precast Concrete Units	712.06
Frames, Grates, Covers and Ladder Rungs	712.07
Pipe Collar for Valve Box	712.22
Cullet Materials for Utility Structures	717.03
Cullet Materials for Drainage Systems	717.04

When the location of manufacturing plants allows, the Engineer may inspect the plants periodically for compliance with specified manufacturing methods. The Engineer may get material samples to verify compliance with the contract. This may be the basis for acceptance of manufacturing lots regarding quality.

The condition of materials will be subject to inspection for acceptance before or during incorporation of materials into the work.

604.03 Construction Requirements.

(A) General. Concrete construction shall conform to Section 503 - Concrete Structures.

Reinforcing steel work shall conform to Section 602 - Reinforcing Steel.

A certified welder shall do the shop and field welding according to Section 501 - Steel Structures.

Dip or soak the brick in water before laying the bricks. Joints shall be full mortar joints. Joints shall not be more than 0.5-inch wide. Joints in the brick work on the inside portion of the brick manhole shall be neatly struck.

The Contractor may furnish and install storm drain manholes, inlets, and catch basins as precast units or combined precast and cast-in-place units. Units completed in place shall conform to cast-in-place construction specified in the contract. If the Contractor uses precast units or combination of precast and cast-in-place units, the Contractor shall submit shop drawings to the Engineer for acceptance before construction.

(B) Manholes, Inlets, and Drywell Covers. Construct the concrete base according to the contract. Allow the concrete to set for at least 24 hours before constructing additional material on this base. Do not remove the forms for at least 24 hours after placing the concrete. Finish the concrete while the concrete is still fresh.

(1) Storm Drain Manholes and Inlets. The contract requires rungs at 12 inches on centers when the height of the structure is greater than 4.5 feet. Measure the height of the structure from the invert to the top of the structure.

Install one rung 16 inches from the bottom or as specified by the Engineer if the height of the structure is 4.5 feet or less. Install additional rungs when specified by the Engineer.

Construct precast concrete storm drain manhole and inlet sections according to the contract and ASTM C 478.

Place reinforcing steel for precast sections according to ASTM C 478.

(2) **Drywell covers.** The Contractor shall install drywell frame and cover complete in place according to the contract.

(C) **Setting Frames.** Place the frames in the concrete according to the contract. Carefully tamp the concrete around the frame.

Set the frame in full mortar beds. Bring the mortar up around the bottom of the frame.

(D) **Excavation and Backfill.** Excavate and backfill according to Section 206 - Excavation and Backfill for Conduits and Structures.

(E) **Reconstructing Manholes.** Reconstruct the existing manholes to the required elevations according to the contract and as ordered by the Engineer. Adjust the manhole frame to the required grade using the same type of material used in its original construction. Carefully remove, clean, and paint the existing frame and cover with accepted asphaltum paint before reinstallation.

(F) **Constructing and/or Adjusting Valve Boxes.** Construct or adjust the valve boxes to the required elevations according to the contract and as ordered by the Engineer.

Set and center the 8-inch pipe collar plumb over the valve stem. Ends of the pipe collar shall have smooth, machined edges. Backfill around the gate valve and pipe collar with trench backfill by hand. Backfill 8 inches below the surface of the ground.

Upon completion of installation, clean and paint the valve box frames and covers with one coat of accepted asphaltum paint.

Adjust the existing valve boxes to the required grade using the same type of material used in its original construction. Carefully remove, clean, and paint the existing cast iron frame and cover with accepted asphaltum paint. Cut the existing pipe collar or install a new pipe collar. Reinstall the frame and cover and pour the four inch thick concrete.

(G) The Contractor shall install drywells complete in place according to the contract. The depth and size shall be as shown on the construction plans. The Contractor shall properly grade drainage toward the drywell and shall insure that the drywell inlet is constructed lower than the surrounding finish grade. The Contractor shall obtain the required Underground Injection Control Permit from the State Department of Health and shall perform any required testing and shall submit all required reports. Construction of drywell shall not commence until a U.I.C. permit to construct injection well is received from the Department of Health, State of Hawaii.

604.04 Method of Measurement. The Engineer will measure manholes, inlets, and drywells, at the contract unit price per each.

The Engineer will measure manhole and valve box adjustments and drywell frame and cover per each complete in place.

The depth measurement for new structures shall be the vertical measurement from the invert elevation to the top of the grating.

For reconstructed structures, the depth measurement shall be the vertical measurement from the beginning of reconstruction shown in the contract to the top of the deck slab, grating, or manhole cover.

604.05 Basis of Payment. The Engineer will pay for the accepted manholes, inlets, drywells, drywell frame and cover, and valve boxes at the contract unit price per each complete in place.

The price includes paid full compensation for furnishing and installing frames and grates, frames and covers, and rungs; adjusting or demolishing; excavating and backfilling; placing concrete; furnishing and installing reinforcing steel, brick, precast concrete, precast reinforced concrete walls, including the cone or tapered sections and cast-in-place walls vertically; furnishing materials, equipment, tools, labor and other incidentals necessary to complete the work. For drywells, the price also includes the Underground Injection Permit, testing and reports.

The Engineer will make payment under:

Pay Item	Pay Unit
Water Valve Box	Each
Type ____ Manhole (h= ____ feet to ____ feet)	Each
Type ____ Inlet (h= ____ feet to ____ feet)	Each
Adjust _____	Each
Drywell (h= ____ feet)	Each
Drywell Frame and Cover _____	Each
61614 Grated Drain Inlet (h= ____ feet to ____ feet)	Each"

END OF SECTION

SECTION 624 - WATER SYSTEM

Make the following amendment to said Section:

- (I) Amend **624.04(B)** **Pipe and Appurtenances** by adding sub-section as follows:

“(17) Relocate Water Meter Box. The Engineer will measure Relocate Water Meter Box by the actual number per each.”

- (II) Amend **624.05(B)(6)** **Service Laterals And Service Connections** by revising the second paragraph to read as follows:

"The price includes full compensation for excavation, backfilling, removal of existing service lateral, cut and plug existing service lateral, furnishing and installing new service lateral as per the most recent County Water Works System Standard Details, service connections, corporation stops; and furnishing labor, materials, equipment, tools, and incidentals necessary to complete the work."

- (III) Amend **624.05(B)** **Pipe and Appurtenances** by adding sub-section as follows:

“(25) Relocate Water Meter Box. The Engineer will pay for the accepted quantities for relocation the various types of meter boxes, including excavation and backfill at the contract unit price per each, complete in place.”

- (IV) Amend **624.05** **Pay Item** by adding the following:

“Relocate Water Meter Box	Each
_____ Ductile Iron Pipe (_____)	Linear Foot
_____ Air Relief Valve Unit	Each
Ductile Iron Fittings	Pound”

END OF SECTION

Amend **Section 699 Mobilization** to read as follows:

"SECTION 699 - MOBILIZATION

699.01 Description. Mobilization includes preparatory work and operations necessary for the :

- (1) movement of personnel, equipment, and supplies to the project site;
- (2) acquisition of falsework materials;
- (3) establishment of offices, buildings and other facilities excluding field office and project site laboratories, necessary for work on the project; and
- (4) costs incurred on operations that must be performed before starting work on the various items on the project site.

699.02 Material. None specified.

699.03 Applicability. The maximum bid allowed for this item is an amount not to exceed 10% of the sum of all items excluding the bid price of this item, field office and force account items.

The Engineer will reduce the indicated amount to the allowable maximum if the proposal shows an amount over the allowable maximum. The Engineer will adjust the "Sum Of Contract Items" to reflect such reduction. The Engineer will use the "Sum Of Contract Items" adjusted as if the bidder submitted its proposal in the amounts as reduced and adjusted.

699.04 Method of Measurement. The Engineer will not measure mobilization for payment.

699.05 Basis of Payment. The Engineer will pay for mobilization on a lump sum basis.

The Engineer will make payment under:

Pay Item	Pay Unit
Mobilization (Not to exceed 10% of the sum of all items excluding the bid price of this item, field office and force account items)	Lump Sum

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
202.0100	Remove Driveway (1 Each)	L.S.	L.S.	L.S.	\$ _____
202.0200	Remove CRM Wall (27 LF)	L.S.	L.S.	L.S.	\$ _____
202.0300	Remove CRM Wall Header (3 Each)	L.S.	L.S.	L.S.	\$ _____
202.0400	Remove Subdrain and GRP (3 Each)	L.S.	L.S.	L.S.	\$ _____
202.0500	Remove Electrical Utility Wall (1 Each)	L.S.	L.S.	L.S.	\$ _____
202.0600	Remove Reflector Marker with Post (30 Each)	L.S.	L.S.	L.S.	\$ _____
202.0800	Remove Fire Hydrant and Appurtenances (2 Each)	L.S.	L.S.	L.S.	\$ _____
203.0100	Roadway Excavation	1,540	C.Y.	\$ _____	\$ _____
203.0200	Borrow Excavation	550	C.Y.	\$ _____	\$ _____
209.0100	Water Pollution and Erosion Control	F.A.	F.A.	F.A.	\$ <u>25,000.00</u>
312.0100	Plant Mix Glassphalt Concrete Base Course	2,840	Ton	\$ _____	\$ _____
401.0100	Asphalt Concrete Pavement, Mix No. IV	1,332	Ton	\$ _____	\$ _____
503.0100	Retaining Wall, Type 1	150	C.Y.	\$ _____	\$ _____
503.0200	Retaining Wall, Type 2	60	C.Y.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
503.0300	Retaining Wall, Type 3	18	C.Y.	\$ _____	\$ _____
503.0400	Concrete for Water System Relocation (Class B)	10	C.Y.	\$ _____	\$ _____
603.0100	24-Inch Reinforced Concrete Pipe, Class III, or 24-Inch High Density Polyethylene Pipe, Type S	750	L.F.	\$ _____	\$ _____
603.0200	Bed Course Material for Culvert	300	C.Y.	\$ _____	\$ _____
604.0100	Drywell (h=30 Feet)	6	Each	\$ _____	\$ _____
604.0101	Drywell Frame and Cover	2	Each	\$ _____	\$ _____
604.0102	Drywell Frame and Cover with Pipe Connection	4	Each	\$ _____	\$ _____
604.0103	61614 Grated Drain Inlet (h = 5 Feet to 5.99 Feet)	8	Each	\$ _____	\$ _____
604.0104	Type E Storm Drain Manhole (h = 7 Feet to 7.99 Feet)	1	Each	\$ _____	\$ _____
604.0201	Adjust Water Valve Frame and Cover	5	Each	\$ _____	\$ _____
604.0202	Adjust Water Meter Box	5	Each	\$ _____	\$ _____
604.0203	Water Valve Box	3	Each	\$ _____	\$ _____
604.0300	Adjust ARV Manhole and Cover	2	Each	\$ _____	\$ _____
606.0100	Strong Post W-Beam Guardrail Type 3	320	L.F.	\$ _____	\$ _____
606.0200	Terminal Section Type Fleet 350	4	Each	\$ _____	\$ _____
607.0100	6 Ft. Chain Link Fence with Top Rail	530	L.F.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
607.0101	Relocate Hog Wire Fence	90	L.F.	\$ _____	\$ _____
609.0100	Bituminous Curb, Type 6, Painted	440	L.F.	\$ _____	\$ _____
612.0100	Grouted Rubble Paving	270	C.Y.	\$ _____	\$ _____
617.0100	4-Inch Thick Planting Soil	157	C.Y.	\$ _____	\$ _____
618.0100	Grassed Surfaces (12,700 S.F.)	L.S.	L.S.	L.S.	\$ _____
619.0100	Transplant Tree	4	Each	\$ _____	\$ _____
621.0100	Relocation of Existing Sign	13	Each	\$ _____	\$ _____
621.0101	Relocation of Existing Sign and Post(s)	16	Each	\$ _____	\$ _____
621.0102	Regulatory and Warning Sign (10 Square Feet or Less) with Post	11	Each	\$ _____	\$ _____
621.0103	Regulatory and Warning Sign (Construction) with Post	3	Each	\$ _____	\$ _____
621.0104	Regulatory and Warning Sign (Construction) without Post	3	Each	\$ _____	\$ _____
621.0105	Regulatory and Warning Sign (Construction) with two Posts	8	Each	\$ _____	\$ _____
621.0106	Construction Sign with Two Posts	3	Each	\$ _____	\$ _____
621.0200	Bi-Directional Reflector Marker, RM-3	23	Each	\$ _____	\$ _____
621.0201	Bi-Directional Reflector Marker, RM-3, with Flexible Delineator Post	15	Each	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
621.0300	Relocation of Mailbox, Post and Footings	1	Each	\$ _____	\$ _____
622.7000	Highway Lighting Wood Pole with Single Bracket 15 ft. Arm and 90 Watt Luminaire	11	Each	\$ _____	\$ _____
622.7005	Highway Lighting Single Bracket 15 ft. Arm and 90 Watt Luminaire, Mounted on Utility Pole	1	Each	\$ _____	\$ _____
622.7010	Highway Light I.D. Tag, Wood Pole Mounted	12	Each	\$ _____	\$ _____
622.7015	Down Guy for Highway Light Wood Pole	3	Each	\$ _____	\$ _____
622.7020	Highway Lighting Aerial Cable, 2#8 with Copper Clad Steel Neutral Messenger	2,000	L.F.	\$ _____	\$ _____
624.0100	Relocate Water Meter Box	11	Each	\$ _____	\$ _____
624.0201	New (4-Feet) Height Fire Hydrant, Type B	1	Each	\$ _____	\$ _____
624.0202	New (6-Feet) Height Fire Hydrant, Type B	1	Each	\$ _____	\$ _____
624.0203	8-Inch Ductile Iron Pipe (Class 52)	44	L.F.	\$ _____	\$ _____
624.0204	12-Inch Ductile Iron Pipe (Class 52)	47	L.F.	\$ _____	\$ _____
624.0205	1-Inch Air Relief Valve Unit	2	Each	\$ _____	\$ _____
624.0206	Ductile Iron Fittings	1,960	Lb.	\$ _____	\$ _____
629.0100	Single 4-Inch Pavement Striping (Thermoplastic Extrusion)	3,940	L.F.	\$ _____	\$ _____
629.0101	Single 4-Inch Guideline (Thermoplastic Extrusion)	450	L.F.	\$ _____	\$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.0102	Single 8-Inch Pavement Striping (Thermoplastic Extrusion)	100	L.F.	\$ _____	\$ _____
629.0103	Single 12-Inch Pavement Striping (Thermoplastic Extrusion)	310	L.F.	\$ _____	\$ _____
629.0104	Single 12-Inch Pavement Striping (Thermoplastic Extrusion) (For Stop Bar)	80	L.F.	\$ _____	\$ _____
629.0200	Double 4-Inch Pavement Striping (Yellow) (Thermoplastic Extrusion)	2,530	L.F.	\$ _____	\$ _____
629.0300	Pavement Arrow (Thermoplastic Extrusion)	7	Each	\$ _____	\$ _____
629.0301	Pavement Word (Thermoplastic Extrusion)	5	Each	\$ _____	\$ _____
629.0302	Crosswalk Marking (Thermoplastic Extrusion)	1	Each	\$ _____	\$ _____
629.0400	Type A Pavement Marker	20	Each	\$ _____	\$ _____
629.0401	Type C Pavement Marker	120	Each	\$ _____	\$ _____
629.0402	Type D Pavement Marker	28	Each	\$ _____	\$ _____
629.0403	Type H Pavement Marker	106	Each	\$ _____	\$ _____
636.0100	Field Office (Not to Exceed \$32,000.00)	L.S.	L.S.	L.S.	\$ _____
645.0100	Additional Traffic Control Devices	F.A.	F.A.	F.A.	\$ <u>40,000.00</u>
646.0001	Underground Telephone Infrastructure Reconnection and Relocation (1 - 2' x 4' Telephone Pullbox, 6 LF 2" Concrete Jacketed Conduit and Pole Riser)	L.S.	L.S.	L.S.	\$ _____

PROPOSAL SCHEDULE

699.0100	Mobilization (Not to exceed 10% of the sum of all items excluding the bid price of this item, field office and force account items)	L.S.	L.S.	L.S.	\$ _____
Sum of All Items					\$ _____
<p>Note: Bidder must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.</p>					

PROPOSAL SCHEDULE

The bidder is directed to Subsection 108.01 - Subletting of Contract.

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

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

The bidder is directed to Subsections 106.12 - Recycling of Waste Glass and 106.13 - Ordering of Certain Material.

SUPPLEMENT TO PROPOSAL SCHEDULE

The Department recognizes that certain items of material to be incorporated into the project and/or consumed in the prosecution of the project are temporarily in short supply and beyond the control and without the fault of the Contractor. The effect of such shortages has, among other things, resulted in periodic fluctuations in the posted prices of such short supply materials, thereby making the proposal difficult for the Contractor to bid with confidence.

For this project, the only materials considered to be in short supply and Sections involved herewith are tabulated below (See Proposal Schedule in regards to the Contract Items involved):

Section	Description	Short Supply Material
301	Plant Mix Asphalt Concrete Base Course	Asphalt Cement
302	Recycled Plant Mix Asphalt Concrete Base	Asphalt Cement
312	Plant Mix Glassphalt Concrete Base Course	Asphalt Cement
401	Asphalt Concrete Pavement	Asphalt Cement
407	Bituminous Tack Coat	Asphalt Cement
503	Concrete Structures	Portland Cement
602	Reinforcing Steel	Reinforcing Steel
603	Culverts and Storm Drains	Portland Cement Reinforcing Steel
604	Manholes, Inlets and Catch Basins	Portland Cement Reinforcing Steel
609	Curb	Asphalt Cement

Each bidder shall submit with the proposal a written statement from the supplier of each short supply material indicating the supplier's current posted price, effective date of that price and the location of the material at that posted price (by island).

If the price of such short supply material is increased or decreased by more than 5% by the supplier prior to the completion of that contract item requiring the short supply material, the Contractor shall submit to the Department a written

statement from the supplier indicating the effective date and changed price the Contractor will thereafter be charged for such short supply material. The Contractor shall also obtain whenever possible, quotations for furnishing the material from other available local suppliers. The quotations shall be obtained sufficiently in advance of the need for the material to allow review by the Department so as not to delay the work. The Contractor's request to the Department for adjusted compensation due to such changed prices will be computed only with prices in effect at the time of delivery. Only the lowest quotation obtained will be accepted by the Department. Transportation, handling, loading, processing and other similar costs will not be subject to adjusted compensation.

No adjustment to the unit bid prices will be made when the increase or decrease in the price of the short material is less than 5% of the original posted price.

If the adjustment to the unit bid price is decreased in the price of the short supply material by more than 5% of the original posted price, the State will be credited.

If an increase in the price of any short supply material exceeds or is scheduled to exceed 35% of the original posted price, the Contractor must notify the State within five working days before using the short supply material. Upon receipt of such notification from the Contractor, the State will direct the Contractor to either (1) authorize work to proceed as usual with the assurance that the indicated incremental price increase above the 35% will be compensable, (2) issue such change orders as the State may deem necessary to reduce further requirements of the short supply material which is to be paid at the increased price, or (3) if the material is considered to have priced itself beyond reason or beyond what the State can pay, the State may order cessation of further use of such short supply material on the project. Such notification by the Contractor will be required at each instance of incremental price increase above the 35% limit. If the Contractor fails to notify the State of any such incremental price increase within five working days before using the short supply material and continues to utilize the short supply material on the project, the State will not be responsible for payment for the incremental cost increase of which the State was not forewarned.

Computation for the adjusted compensation will be as follows:

(A) Portland Cement

If X = Adjustment per cubic yard of concrete,

P = Portland cement content of the approved mix design
expressed in hundredweight per cubic yard of concrete,

Q = Increase or decrease in the price of portland cement in

dollars per hundredweight,

Then $X = QP$

Example: Posted price of portland cement increases from \$1.40 to \$1.70 per cwt. and the hundredweight (cwt) of concrete is 5.6 cwt per c.y., then the adjustment shall be:

$$\begin{aligned} \$1.70 - \$1.40 &= \$0.30 \\ (\$1.40)(5\%) &= \$0.07 \\ \$0.30 - \$0.07 &= \$0.23 \\ X &= (\$0.23)(5.6) = \$1.29 \text{ per c.y. of concrete} \end{aligned}$$

(B) Asphalt Cement

If $X =$ adjustment per ton of mix,

$P =$ asphalt cement content, expressed in percent of dry weight of the aggregates, as determined and accepted by the Department for each of the design plant mixes,

$Q =$ increase or decrease in the price of asphalt cement, in dollars per ton,

$$\text{Then } X = \frac{Q(P)}{100+P}$$

Example: Posted price of asphalt cement increases from \$70 to \$80 per ton and the asphalt content of the A.C. mix was accepted at 6.0%, then the adjustment shall be:

$$\begin{aligned} \$80.00 - \$70.00 &= \$10.00 \\ (\$70.00)(5\%) &= \$3.50 \\ \$10.00 - \$3.50 &= \$6.50 \\ X &= \$6.50 \left(\frac{6}{100+6} \right) = \$0.37 \text{ per ton A.C. mix} \end{aligned}$$

(C) Reinforcing Steel

If $X =$ Adjustment for reinforcing steel,

$P =$ Weight of reinforcing steel, expressed in hundredweight

$Q =$ Increase or decrease in the price of reinforcing steel in dollars per hundred weight,

Then $X = QP$

Example: Posted price of grade 40 reinforcing steel increases from \$14.00 to \$15.00 per cwt and the weight of the grade 40 reinforcing steel is 80,000 pounds, then the adjustment shall be:

$$\$15.00 - \$14.00 = \$1.00$$

$$(\$14.00)(5\%) = \$0.70$$

$$\$1.00 - \$0.70 = \$0.30$$

$$X = (\$0.30)(800) = \$240 \text{ for grade 40 reinforcing steel}$$

The Contractor shall submit to the Department original receipted bills covering the short supply material used on the project as soon as practicable after shipments are completed. The bills shall be accompanied by a tabulation on which the bills are listed in chronological order showing for each bill the quantity, the date shipped from the supplier's terminal and the price per unit at the place indicated in the posted price (reflecting any deduction for quantity shipments). These bills shall be subject to audit verification.

The Department reserves the right to alter the quantities of material to be furnished in accordance with the provisions of Subsection 104.02.

The Department also reserves the right, during construction, to decrease or increase the scope of work, because of limitations of funds, with no adjustment in unit prices other than that specified hereinabove.