SPECIAL NOTICE TO CONTRACTORS

The following provisions take precedence over all bid documents.

1. Bidder's notice of intention to bid must be received at the Contracts Office, Department of Transportation, 869 Punchbowl Street, Honolulu, Hawaii 96813 no later that **4:30 P.M., 5 calendar days** prior to the bid opening date. Fax notice is acceptable provided the Contracts Office receives the faxed notice within the time stated above. The fax number is (808) 587-2132. It is the bidder's responsibility to ensure that the Contracts Office receives the notice of intent on time and in a legible condition.

2. The intent of this contract is to begin the construction work for this project soon after the project is awarded. Therefore, in the best interest of the public the Department expects to award the project on **February 14, 2001**. And, the expected issuance of Notice to Proceed on **February 23, 2001**.

3. The preconstruction meeting and the water pollution and erosion control conference is set for **9:00 A.M., February 16, 2001** at the Office of the District Engineer - Hawaii, 50 Makaala Street, Hilo, Hawaii, 96720.

4. Additional or updated plan sheet information from Federal-Aid Project No. ER-12(1) shall be designated with the symbol of a square on the plans in this Federal-Aid Project No. ER-12(1)R.

5. Additional or updated provisional specification and bid information from Federal-Aid Project No. ER-12(1) shall be designated with a date on the form or sheet after January 11, 2001 in this Federal-Aid Project No. ER-12(1)R.

6. The Awardee shall submit to the Engineer the Comprehensive Bar Chart or the Critical Path Basis Schematic Diagram within 2 calendar days after the date of award according to Subsection 108.03 Progress Schedules.

7. The Contractor shall use the Detour Road and Embankment BMP's and Bridge and Roadway BMP's as provided in the bid documents. The Department is currently working with the U.S. Army Corps and Department of Health in obtaining a 401/404 Permit. The Awardee shall work cooperatively and expeditiously with the Department in obtaining the permits. Any changes by the Contractor from these BMP's will be at no cost to the State and no additional days will be approved.

8. The Awardee shall submit 4 sets of Water Pollution and Erosion Control Submittals as noted in Subsection 209.04 - Water Pollution and Erosion Control Submittals within 2 calendar days at 9:00 A.M. after the Award of Contract to the Engineer. No work within the ordinary high water mark shall

begin until the 401/404 Permit is accepted by the U.S. Army Corps of Engineers and Department of Health, and approved by the Engineer.

If the Awardee delays this submittal, the number of days delayed shall be subtracted from the Completion Time of One-Hundred Eighty (180) Calendar Days from the date indicated in the Notice to Proceed from the Department to complete the work to open the bridge roadway to two-way two lane traffic as specified herein.

9. The Contractor shall submit a completed "Request for Approval of Subcontractor/Joint Contractor" form to the Engineer before any work by the Subcontractor is performed.

10. The Contractor shall complete the work so that the bridge roadway is open to two-way two lane traffic by 180 calendar days of the Notice to Proceed date. Therefore, all work shall be completed by 180 calendar days after the Notice to Proceed date, excluding the removal of the detour road work, embankment stabilization work at and 'mauka' side of the detour road and plant establishment period. The Contractor shall complete all contract work 240 calendar days from the Notice to Proceed date, excluding plant establishment period.

11. The Contractor's attention is directed to Subsection 108.03 - Progress Schedules, Early Contract Completion Incentive Provision. This contract provides an incentive payment not to exceed $300,000 towards the opening of the bridge roadway to two-way two lane traffic by 180 calendar days from the Notice to Proceed date. This incentive excludes the removal of the detour road work, embankment stabilization work at and 'mauka' side of the detour road(limit to be determined by Engineer) and plant establishment period.

12. The Contractor's attention is directed to Subsection 108.08 - Liquidated Damages and Failure to Complete on Time. This contract includes a penalty of $10,000.00 per calendar day.

13. The Contractor shall submit to the Department within 2 calendar days after the Notice to Proceed written evidence that the Contractor ordered the necessary materials specified for this project.

14. This contract also intends to complete the construction of the bridge roadway in an expedient but safe manner. Therefore, the Contractor is allowed to work 24 hours a day, 7 days a week towards the completion of the bridge roadway.

15. After the opening of the bridge roadway to two-way two lane traffic the work shall be completed between 'sunrise' and 'sunset' hours. The Contractor shall submit their schedule to the Engineer for approval.

16. The Contractor shall ensure that the existing detour road is open to two-way two lane traffic 24 hours a day until the bridge roadway is open to two-way two lane traffic. The detour road shall remain open to traffic and allow traffic to flow at the posted speed limit during the peak hours and non-working hours.

17. The maintenance of the existing detour road shall be paid under Item No. 645.7110 - Maintenance of Temporary Detour Road. The Engineer will not measure maintenance of the existing detour road. The Engineer will pay for the accepted maintenance of the existing detour road work under item Maintenance of Temporary Detour Road on a force account basis according to Subsection 109.04 - Extra and Force Account Work.

18. The Engineer will permit the Contractor to close only one lane of traffic on the detour road between the hours of 8:30 A.M. to 3:30 P.M. Exceptions to these hours shall require the Engineer's acceptance in writing.

19. The guardrail work between Station 230+00± left and right to Station 240+00± left and right shall begin soon after the NTP. It is the intent of this contract to complete this guardrail section in an expedient but safe manner.

20. Subsection 108.01 Subletting Contract shall be amended by changing the percentage of work from "50 percent" to "30 percent" in the third paragraph.

21. The Contractor shall notify the Engineer of any Value Engineering Proposals within 2 calendar days of the Notice to Proceed date.

22. There is no specific goal set for Disadvantaged Business Enterprise (DBE) Participation. However, Contractor's are still required to state their DBE percentages. Also, the Contractor must still submit the "Monthly Report of DBE Participation" form.

23. The Contractor shall coordinate its work with other Contractors working within the area. The Contractor shall attend weekly meetings with the State and other Contractors to discuss construction coordination issues. The Contractor is advised that the following HDOT, Highways Division construction projects may be under construction.
    A. Mamalahoa Hwy, Ford Crossing at M.P. 49.11
    B. Mamalahoa Hwy, Kaalaala Stream Bridge Replacement
    C. Mamalahoa Hwy, Paauau Stream Bridge Replacement, Improvements at Kamani St and Rehabilitation of Various Bridges

24. The Contractor is advised that in addition to other Contractors working in the same area, various utility companies or their Contractors may be performing work within the project area. The Contractor shall coordinate all work with the

utility companies.

25. The Contractor's attention is directed to Subsection 103.09 - Submission of Insurance Certification. This contract includes IASCO and Mauna Loa Macadamia Nut Corporation as additional insured, besides the State of Hawaii. The additional insured shall be for Comprehensive Personal Injury and Property Damage Liability Insurance and Automobile Bodily Injury and Property Damage Liability Insurance. This additional insurance shall be incidental to the various contract items.

26. The Contractor shall ensure control of petroleum products from spillage.

27. The Contractor shall ensure any slurry spillage from concrete work is vacuumed with a wet/dry vacuum or broomed and removed. Slurry spillage from concrete work shall be removed immediately by the Contractor.

SECTION 504 - PRESTRESSED CONCRETE MEMBERS

Make the following amendments to said Section:

(l) Amend **504.05 Basis of Payment.** The Engineer will pay for the accepted quantities of prestressed concrete members at the contract lump sum price or linear foot shown in the proposal.

The price shall be full compensation for preparation; furnishing the shop drawings; getting an authorized person of the company making the members; welding; fabricating; tensioning; placing concrete; curing; grouting; taking safety measures; handling, storing, and transporting; placing; and furnishing materials, labors, equipment, tools and incidentals necessary to complete the work.

The Engineer will make payment under:

Pay Item	**Pay Unit**
Concrete for Prestressed Planks (____ Linear Foot)	Lump Sum

The Engineer will pay for the prestressed concrete piling as specified in Section 505 - Piling."

END OF SECTION

Amend **Section 601 - Structural Concrete** to read as follows:

"SECTION 601 - STRUCTURAL CONCRETE

601.01 Description. Structural concrete shall consist of portland cement, fine aggregate, coarse aggregate, and water. Proportion and mix the structural concrete according to the contract. Admixtures for entraining air, retarding or accelerating the set, tinting and other purposes as required or permitted may be added.

601.02 Materials. Materials shall conform to the following:

Portland Cement	701.01
Fine Aggregate for Concrete	703.01
Coarse Aggregate for Concrete	703.02
Admixtures	711.03
Water	712.01

Coarse aggregates for lightweight concrete shall conform to ASTM C 330 except the contract waives Sections 5, 7, and 9.

601.03 Quality Control. In portland cement concrete production, the Contractor shall be responsible for the quality control of materials during the handling, blending, mixing, curing, and placement operations. The person responsible for concrete production control and sampling and testing for quality control shall be proficient in concrete technology and shall have a sound knowledge of the contract. The person responsible shall be able to adjust concrete mix designs for improving workability and contract compliance.

Sample, test, and inspect the concrete necessary to assure quality control of the component materials and the concrete. Sampling and testing for quality control shall be according to the standard methods prescribed in this contract. Do the quality control tests for slump, air content, temperature, and unit weight during the production of structural concrete other than concrete for incidental construction. Notify the Engineer of the test results.

601.04 Design and Designation of Concrete. The Contractor shall be responsible for the design of concrete mixture for the concrete work specified. When requested by the Engineer, the Contractor shall submit the mix designs using State Highways Division form DOT 4-151. Work shall not start until the Engineer accepts the mix design. The Engineer will accept the concrete mix design using information given in Table 601-I - Design of Concrete and other pertinent

The design of concrete shall be as required in Table 601-I.

TABLE 601-I - DESIGN OF CONCRETE			
Class of Concrete	**28-Day Strength f'_c, psi**	**Minimum Cement Content 100 lbs./c.y. (8.0 Maximum)**	**Maximum Water-Cement Ratio, lb./lb.**
A	3000	5.6	0.55
B	2500	5.0	0.62
C	2000	4.4	0.71
D	1500	4.0	0.80
BD	3750	6.1	0.49
SEAL	3000	6.1	0.55
Desiganted by Strength f'_c or $^*f'_r$	As Specified	6.1	0.49
$^*f'_r$ = Specified Modulus of Rupture			

Proportion the concrete materials according to the requirements for each concrete designated by class, cement content in pounds per cubic yards, or 28-day compressive strength specified in the contract using the absolute volume method. Use the volumetric proportioning methods as outlined in:

(1) the American Concrete Institute (ACI) Standard 211.1-89, "Recommended Practices for Selecting Proportions for Normal and Heavyweight Concrete."

The coarse aggregate size for concrete shall be No. 57 (one inch to No. 4) or No. 67 (3/4 inch to No. 4). For concrete placed in the bottom slab and stems of box girders, use the No. 67 size aggregate. When accepted by the Engineer in writing, the Contractor may use smaller size aggregates where encountering limited spacing between forms and reinforcement.

When called for in the contract, lightweight concrete shall have a minimum compressive strength of 3,000 psi at 28 days. The lightweight concrete shall contain not less than 560 pounds of portland cement per cubic yard. Make, cure, and determine the compressive strength of lightweight concrete cylinders according to AASHTO T 22 and T 23. Lightweight concrete shall have a maximum wet plastic unit weight of 135 pcf and a nominal slump of 3.5 inches.

than one in 20 tests falling below the specified strength for the following conditions:

(1) When past performance records are available, the documented performance records shall include:

(a) a minimum of 15 consecutive 28-day strength tests from projects having the same materials and mix proportions or

(b) two groups totaling 30 or more test results representing similar materials in which the mix proportion strengths are within 20% of the specified strength from within the last one year.

The Engineer will analyze the performance records to establish a standard deviation. The Engineer will resolve the minimum average strength on the computed standard deviation.

(2) When no sufficient past performance records are available, the Engineer will assume the current standard deviation to be 500 psi for compressive strength, f'_c, and 50 psi for flexural strength, f'_r.

Unless sufficient performance records are available from other projects at the DOT Materials Testing and Research Branch, submit test performance records or trial test reports for prequalifications of concrete provided:

(1) such data shall be the most recent tests made on concrete of the proposed mix design and

(2) the Contractor has obtained such data within one year of the proposed use.

The test data and trial batch test reports shall include the following information:

(1) Date of mixing.

(2) Mixing equipment and procedures used.

(3) The size of batch in cubic yards and the weight, type, and source of ingredients used.

(4) Slump of concrete.

(5) The air content of the concrete when using an air entraining agent.

(6) The age and strength of concrete cylinders tested.

plant by maintaining a uniform grading of the material. Do not use aggregates that have become segregated or mixed with earth or foreign matter. Stockpile or bin the aggregates at least 12 hours for draining before batching the aggregate when producing or handling the aggregates by hydraulic methods and washing the aggregates for draining. When the aggregates contain a high or non-uniform moisture content, the Engineer will require storage or stockpile over 12 hours.

Proportion the aggregates by weight. The exception is that the aggregates in concrete for minor structures, curbs, and sidewalks may be proportioned by volume or weight. For volume proportioning, use the measuring boxes of known capacity to measure the quantity of each size of aggregate.

Use the batch weight based on dry materials plus the total weight of moisture (both absorbed and surface) contained in the aggregate. The individual aggregates shall be within ± 2% of the required weight. The total mass of the aggregates shall be within ± 1% of the required weight.

(D) Admixtures. Store, proportion, and dispense admixtures according to the following provisions:

(1) Liquid Admixtures. Dispense chemical admixtures, air entraining admixtures, and calcium chloride in liquid form. Dispense such liquid admixture by automatic dispensing equipment. Dispensers for liquid admixtures shall have sufficient capacity to measure the prescribed quantity for each batch of concrete. Each dispenser shall include a graduated measuring unit into which liquid admixtures can be measured to within ± 5% of the prescribed quantity for each batch. Locate and maintain the dispenser where the graduations can be read accurately from the point at which proportioning operations are controlled to permit a visual check of batch accuracy before discharging. Mark each measuring unit clearly for the type and quantity of admixture.

Arrange with the supplier to provide safe and suitable facilities for sampling admixtures.

When using more than one liquid admixture for the concrete mix, provide a separate measuring unit for each liquid admixture. Dispense the liquid admixture by injecting so that the admixture is not mixed at high concentrations and not interfere with the effectiveness of each other.

When using liquid admixtures in concrete, the dispensers shall operate automatically with the batching control equipment. Equip

In determining the maximum amount of free water that may be used in the concrete, consider the mineral admixture to be cement.

(E) Bins and Scales. The batching plant shall include separate and adequate bins for each size of aggregate. When using cement in bulk, include a separate and adequate bin and weighing hopper for the cement.

Attach the cement weighing hopper to a separate scale for individual weighing or to the aggregate scale for cumulative weighing. When weighing the cement cumulatively, weigh the cement before the other ingredients.

Scales for batching shall be of the springless-dial or beam-type. When using beam-type scales, make provisions to show the operator that the required load in the weighing hopper is approaching. The device shall make the indication within the last 200 pounds of load and within 50 pounds of overload.

Scales shall be accurate to 0.5% throughout the range of use. Design poises to lock thus preventing unauthorized change of position. Use scales inspected the State Measurement Standards Branch of the Department of Agriculture to assure their continued accuracy. Provide not less than ten 50 pounds weight for testing scales.

Batching plants may be equipped with automatic weighing devices of accepted types to proportion aggregates and bulk cement.

(F) Batching and Hauling. To check the accuracy of batch mass, resolve the gross and tare mass of batch trucks, truck mixers, and truck agitators when specified by the Engineer. Weigh the equipment on certified scales at no cost to the State.

When mixing is at the work site, transport the aggregates in batch boxes, vehicle bodies, or other containers of adequate capacity and construction. Partitions separating batches shall be adequate and effectively prevent spilling from one compartment to another while in transit or dumping. When using bulk cement, use a suitable method for handling the cement from weighing hopper to transporting container or into the batch itself for transportation to the mixer. Arrange batching and hauling to provide positive assurance of the actual presence in each batch of the entire cement content specified.

Transport bulk cement to the mixer in tight compartments carrying the

shut down and make the proper repairs.

The required mixing time in stationary mixers shall be between 50 seconds and five minutes. The mixing time shall be as necessary to produce concrete that meets the uniformity criteria when tested according to Section 11.3.3 of ASTM C 94. The Contractor may designate the mixing time between 50 seconds and five minutes to do the uniformity tests. The mixed concrete shall meet the uniformity requirements specified before using concrete for pavements or structures. The Engineer may allow the use of test concrete for appropriate incidental construction. Furnish labor, sampling equipment, and materials required for uniformity tests of the concrete mixture. The Engineer will furnish required testing equipment including scales, cubic measure, and air meter. The Engineer will do the test. The Engineer will not make payment for the labor, equipment, materials, or testing. The Engineer will consider them incidental to the concrete. After establishing operational procedures of batching and mixing, the Engineer will not permit changes in procedure without re-establishing procedures by uniformity tests. Repeat the mixer performance tests whenever the appearance of the concrete or the coarse aggregate content of samples is not according to ASTM C 94. For paving mixers, add four seconds to the specified mixing time when timing starts as soon as the skip reaches its maximum raised position.

Mix the truck mixed concrete at the proportioning plant. The mixer shall operate at agitating speed while in transit. The Contractor may mix the truck mixed concrete at the point of delivery provided the cement, or cement and mixing water, is added at that point. Mixing of truck mixed concrete shall begin immediately after the introduction of the mixing water to the cement and aggregates, or introduction of the cement to the aggregates.

A truck mixer includes a water tight revolving drum suitably mounted and fitted with adequate blades, and equipped with electrically or mechanically actuated revolution counters. Truck mixers shall produce a thoroughly mixed and uniform mass of concrete and shall discharge concrete without segregation.

Attach a metal manufacturer's standard rating place to each truck mixer permanently. The rating plate shall state the truck mixer's maximum volume of mixed concrete for the various uses. Also attach a manufacturer's data plate stating the maximum and minimum mixing speeds and other data needed by the manufacturer to each truck mixer. When using the truck mixers for mixing, concrete in each batch shall not exceed the maximum capacity shown on the metal rating plate. When the equipment does not have a rating plate, an attested copy of the manufacturer's rating shall suffice or the batch volume shall not exceed 63% of the gross interior volume.

Operate truck mixers at the speed of rotation designated by the manufacturer. The mixing speeds for the revolving drum type shall be not less than 6 nor more than 18 revolutions per minute.

Operate truck mixers or truck agitators within the limits of capacity and speed of rotation designated by the manufacturer for agitating. Agitators shall not exceed 80% of gross drum volume. Agitating speed for both the revolving drum mixers and revolving blade type agitators shall be between two and six revolutions per minute of the drum or of the mixing blades. Truck mixers or truck agitators shall have electrically or mechanically actuated counters. Actuate the counters after introducing the cement to aggregates.

Bodies of non-agitating hauling equipment shall be smooth and watertight metal containers equipped with gates that will permit control of discharge of the concrete. Provide accepted covers for protection against weather. When hauling concrete in non-agitating trucks, complete the discharge within 30 minutes after introducing the mixing water to the cement and aggregates.

When using a truck mixer or agitator for transporting concrete to the delivery point, complete the discharge:

(1) within 1.5 hours or

(2) before 250 revolutions of the drum or blades for central mixed concrete, or 300 revolutions of the drum or blades for truck mixed concrete, whichever comes first after introducing the mixing water to the cement and aggregates, or cement to the aggregates.

In hot weather or under conditions contributing to quick stiffening of the concrete, the Engineer will reduce the time.

The manufacturer of truck mixed concrete and of central mixed concrete shall furnish the Engineer a delivery ticket with each truck load of concrete before unloading at the jobsite. The delivery ticket shall have the following information, printed, stamped, or written:

(1) Name of concrete plants,

(2) Serial number of ticket,

(3) Date and truck number,

(4) Name of Contractor,

(5) Specific project, route, or designation of job (name and location),

(6) Specific class or designation of concrete according to the contract,

(7) Quantity of concrete in cubic yards,

601.10 Placing Concrete. Place concrete according to the applicable sections of the contract.

601.11 Finishing Concrete Surfaces. Finish concrete surfaces according to the applicable sections of the contract.

601.12 Curing Concrete. Cure the concrete according to the applicable sections of the contract.

601.13 Method of Measurement. The Engineer will measure concrete according to the applicable sections of the contract.

601.14 Basis of Payment. The Engineer will pay for the accepted concrete according to the applicable sections of the contract."

END OF SECTION