

- a. Test results for 2 compressive strength test cylinders of concrete taken within the first third and 2 compressive strength test cylinders of concrete taken within the last third of the concrete discharged from a single batch from the stationary paving mixer. Strength tests and cylinder preparation will be in conformance with the provisions of Section 90-9, "Compressive Strength;"
- b. Calculations demonstrating that the difference in the averages of 2 compressive strengths taken in the first third is no greater than 7.5 percent different than the averages of 2 compressive strengths taken in the last third of the concrete discharged from a single batch from the stationary paving mixer. Strength tests and cylinder preparation will be in conformance with the provisions of Section, "Compressive Strength;" and
- c. The mixer rotation speed and time of mixing prior to discharge that are required to produce a mix that meets the requirements above.

PROPORTIONING

12-5.1 STORAGE OF AGGREGATES. Aggregates shall be stored or stockpiled in such a manner that separation of coarse and fine particles of each size shall be avoided and also that the various sizes shall not become intermixed before proportioning.

Aggregates shall be stored or stockpiled and handled in a manner that shall prevent contamination by foreign materials. In addition, storage of aggregates at batching or mixing facilities that are erected subsequent to the award of the contract and that furnish concrete to the project shall conform to the following:

- a. Intermingling of the different sizes of aggregates shall be positively prevented. The CONTRACTOR shall take the necessary measures to prevent intermingling. The preventive measures may include, but are not necessarily limited to, physical separation of stockpiles or construction of bulkheads of adequate length and height; and
- b. Contamination of aggregates by contact with the ground shall be positively prevented. The CONTRACTOR shall take the necessary measures to prevent contamination. The preventive measures shall include, but are not necessarily limited to, placing aggregates on wooden platforms or on hardened surfaces consisting of Portland cement concrete, asphalt concrete, or cement treated material.

In placing aggregates in storage or in moving the aggregates from storage to the weigh hopper of the batching plant, any method that may cause segregation, degradation, or the combining of materials of different gradings that will result in any size of aggregate at the weigh hopper failing to meet the grading requirements, shall be discontinued. Any method of handling aggregates that results in excessive breakage of particles shall be discontinued. The use of suitable devices to reduce impact of falling aggregates may be required by the ENGINEER.

12-5.2 PROPORTIONING DEVICES. Weighing, measuring, or metering devices used for proportioning materials shall conform to the requirements in Caltrans Specifications Section 90-1.01, "Measurement of Quantities," and this Subsection 12-5.2. In addition, automatic weighing systems shall comply with the requirements for automatic proportioning devices in Subsection 12-5.3A, "Proportioning for Pavement." Devices shall be automatic to the extent that the only manual operation required for proportioning the

aggregates, cement, and mineral admixture for one batch of concrete is a single operation of a switch or starter.

Proportioning devices shall be tested at the expense of the CONTRACTOR as frequently as the ENGINEER may deem necessary to ensure their accuracy.

Weighing equipment shall be insulated against vibration or movement of other operating equipment in the plant. When the plant is in operation, the weight of each batch of material shall not vary from the weight designated by the ENGINEER by more than the tolerances specified herein.

Equipment for cumulative weighing of aggregate shall have a zero tolerance of ± 0.5 -percent of the designated total batch weight of the aggregate. For systems with individual weigh hoppers for the various sizes of aggregate, the zero tolerance shall be ± 0.5 -percent of the individual batch weight designated for each size of aggregate. Equipment for cumulative weighing of cement and mineral admixtures shall have a zero tolerance of ± 0.5 -percent of the designated total batch weight of the cement and mineral admixture. Equipment for weighing cement or mineral admixture separately shall have a zero tolerance of ± 0.5 -percent of their designated individual batch weights. Equipment for measuring water shall have a zero tolerance of ± 0.5 -percent of its designated weight or volume.

The weight indicated for any batch of material shall not vary from the preselected scale setting by more than the following:

- a. Aggregate weighed cumulatively shall be within 1.0 percent of the designated total batch weight of the aggregate. Aggregates weighed individually shall be within 1.5 percent of their respective designated batch weights;
- b. Cement shall be within 1.0 percent of its designated batch weight. When weighed individually, mineral admixture shall be within 1.0 percent of its designated batch weight. When mineral admixture and cement are permitted to be weighed cumulatively, cement shall be weighed first to within 1.0 percent of its designated batch weight, and the total for cement and mineral admixture shall be within 1.0 percent of the sum of their designated batch weights; and
- c. Water shall be within 1.5 percent of its designated weight or volume.

Each scale graduation shall be approximately 0.001 of the total capacity of the scale. The capacity of scales for weighing cement, mineral admixture, or cement plus mineral admixture and aggregates shall not exceed that of commercially available scales having single graduations indicating a weight not exceeding the maximum permissible weight variation above, except that no scale shall be required having a capacity of less than 1,000 pounds, with one-pound graduations.

12-5.3 PROPORTIONING. Proportioning shall consist of dividing the aggregates into the specified sizes, each stored in a separate bin, and combining them with cement, mineral admixture, and water as provided in these specifications. Aggregates shall be proportioned by weight.

At the time of batching aggregates shall have been dried or drained sufficiently to result in a stable moisture content such that no visible separation of water from aggregate will take place during transportation from the proportioning plant to the point of mixing. In no event shall the free moisture content of the fine aggregate at the time of batching exceed 8 percent of its saturated, surface-dry weight.

Should separate supplies of aggregate material of the same size group, but of different moisture content or specific gravity or surface characteristics affecting workability, be available at the proportioning plant, withdrawals shall be made from one supply exclusively and the materials therein completely exhausted before starting upon another.

Bulk cement and mineral admixture may be weighed in separate, individual weigh hoppers or may be weighed in the same weigh hopper and shall be kept separate from the aggregates until the ingredients are released for discharge into the mixer. If the cement and mineral admixture are weighed cumulatively, the cement shall be weighed first.

When cement and mineral admixtures are weighed in separate weigh hoppers, the weigh systems for the proportioning of the aggregate, the cement, and the mineral admixture shall be individual and distinct from all other weigh systems. Each weigh system shall be equipped with a hopper, a lever system, and an indicator to constitute an individual and independent material weighing device. The cement and the mineral admixture shall be discharged into the mixer simultaneously with the aggregate.

The scales and weigh hoppers for bulk weighing cement, mineral admixture, or cement plus mineral admixture shall be separate and distinct from the aggregate weighing equipment.

For batches with a volume of one cubic yard or more, the batching equipment shall conform to one of the following combinations:

- a. Separate boxes and separate scale and indicator for weighing each size of aggregate.
- b. Single box and scale indicator for all aggregates.
- c. Single box or separate boxes and automatic weighing mechanism for all aggregates.

In order to check the accuracy of batch weights, the gross weight and tare weight of batch trucks, truck mixers, truck agitators, and non-agitating hauling equipment shall be determined when ordered by the ENGINEER. The equipment shall be weighed at the CONTRACTOR's expense on scales designated by the ENGINEER.

A. Proportioning for Pavement.

Aggregates and bulk cement, mineral admixture, and cement plus mineral admixture for use in pavement shall be proportioned by weight by means of automatic proportioning devices of approved type conforming to these specifications.

The CONTRACTOR shall install and maintain in operating condition an electronically actuated moisture meter that will indicate, on a readily visible scale, changes in the moisture content of the fine aggregate as it is batched within a sensitivity of 0.5-percent by weight of the fine aggregate.

The batching of cement, mineral admixture, or cement plus mineral admixture and aggregate shall be interlocked so that a new batch cannot be started until all weigh hoppers are empty, the proportioning devices are within zero tolerance, and the discharge gates are closed. The interlock shall permit no part of the batch to be discharged until all aggregate hoppers and the cement and mineral admixture hoppers or the cement plus mineral admixture hopper are charged with weights that are within the tolerances specified in Subsection 12-5.2, "Proportioning Devices."

When interlocks are required for cement and mineral admixture charging mechanisms and cement and mineral admixtures are weighed cumulatively, their charging mechanisms shall be interlocked to prevent the introduction of mineral admixture until the weight of cement in the cement weigh hopper is within the tolerances specified in Subsection 12-5.2, "Proportioning Devices."

The discharge gate on the cement and mineral admixture hoppers or the cement plus mineral admixture hopper shall be designed to permit regulating the flow of cement, mineral admixture, or cement plus mineral admixture into the aggregate as directed by the ENGINEER.

When separate weigh boxes are used for each size of aggregate, the discharge gates shall permit regulating the flow of each size of aggregate as directed by the ENGINEER.

Material discharged from the several bins shall be controlled by gates or by mechanical conveyors. The means of withdrawal from the several bins, and of discharge from the weigh box, shall be interlocked so that not more than one bin can discharge at a time, and so that the weigh box cannot be tripped until the required quantity from each of the several bins has been deposited therein. Should a separate weigh box be used for each size of aggregate, all may be operated and discharged simultaneously.

When the discharge from the several bins is controlled by gates, each gate shall be actuated automatically so that the required weight is discharged into the weigh box, after which the gate shall automatically close and lock.

The automatic weighing system shall be designed so that all proportions required may be set on the weighing controller at the same time.

MIXING AND TRANSPORTING

12-6.1 GENERAL. Concrete shall be mixed in mechanically operated mixers, except that when permitted by the ENGINEER, batches not exceeding a third of a cubic yard may be mixed by hand methods in conformance with the provisions in Subsection 12-6.5, "Hand-Mixing."

Equipment having components made of aluminum or magnesium alloys that would have contact with plastic concrete during mixing, transporting, or pumping of Portland cement concrete shall not be used.

Concrete shall be homogeneous and thoroughly mixed, and there shall be no lumps or evidence of undispersed cement, mineral admixture, or cement plus mineral admixture.

Uniformity of concrete mixtures will be determined by differences in penetration as determined by California Test 533, or slump as determined by ASTM Designation: C 143, and by variations in the proportion of coarse aggregate as determined by California Test 529.

When the mix design specifies a penetration value, the difference in penetration, determined by comparing penetration tests on 2 samples of mixed concrete from the same batch or truck mixer load, shall not exceed 1/2 inch. When the mix design specifies a slump value, the difference in slump, determined by comparing slump tests on 2 samples of mixed concrete from the same batch or truck mixer load, shall not exceed the values given in the table below. Variation in the proportion of coarse aggregate will be determined by comparing the results of tests of 2 samples of mixed concrete from the same batch

or truck mixer load and the difference between the 2 results shall not exceed 170 pounds per cubic yard of concrete.

| Average Slump | Maximum Permissible Difference |
|-----------------------|--------------------------------|
| Less than 4" | 1" |
| 4" to 6" | 1 1/2" |
| Greater than 6" to 9" | 2" |

The CONTRACTOR, at the CONTRACTOR's expense, shall furnish samples of the freshly mixed concrete and provide satisfactory facilities for obtaining the samples.

12-6.2 MACHINE MIXING. Concrete mixers may be of the revolving drum or the revolving blade type, and the mixing drum or blades shall be operated uniformly at the mixing speed recommended by the manufacturer. Mixers and agitators that have an accumulation of hard concrete or mortar shall not be used.

The temperature of mixed concrete, immediately before placing, shall be not less than 50° F or more than 90° F. Aggregates and water shall be heated or cooled as necessary to produce concrete within these temperature limits. Neither aggregates nor mixing water shall be heated to exceed 150° F. If ice is used to cool the concrete, discharge of the mixer will not be permitted until all ice is melted.

The batch shall be so charged into the mixer that some water will enter in advance of cementitious materials and aggregates. All water shall be in the drum by the end of the first fourth of the specified mixing time.

Cementitious materials shall be batched and charged into the mixer by means that will not result either in loss of cementitious materials due to the effect of wind, in accumulation of cementitious materials on surfaces of conveyors or hoppers, or in other conditions that reduce or vary the required quantity of cementitious material in the concrete mixture.

Paving and stationary mixers shall be operated with an automatic timing device. The timing device and discharge mechanism shall be interlocked so that during normal operation no part of the batch will be discharged until the specified mixing time has elapsed.

The total elapsed time between the intermingling of damp aggregates and all cementitious materials and the start of mixing shall not exceed 30 minutes.

The size of batch shall not exceed the manufacturer's guaranteed capacity.

When producing concrete for pavement or base, suitable batch counters shall be installed and maintained in good operating condition at jobsite batching plants and stationary mixers. The batch counters shall indicate the exact number of batches proportioned and mixed.

Concrete shall be mixed and delivered to the jobsite by means of one of the following combinations of operations:

- a. Mixed completely in a stationary mixer and the mixed concrete transported to the point of delivery in truck agitators or in non-agitating hauling equipment (central-mixed concrete).
- b. Mixed partially in a stationary mixer, and the mixing completed in a truck mixer (shrink-mixed concrete).
- c. Mixed completely in a truck mixer (transit-mixed concrete).
- d. Mixed completely in a paving mixer.

Agitators may be truck mixers operating at agitating speed or truck agitators. Each mixer and agitator shall have attached thereto in a prominent place a metal plate or plates on which is plainly marked the various uses for which the equipment is designed, the manufacturer's guaranteed capacity of the drum or container in terms of the volume of mixed concrete and the speed of rotation of the mixing drum or blades.

Truck mixers shall be equipped with electrically or mechanically actuated revolution counters by which the number of revolutions of the drum or blades may readily be verified.

When shrink-mixed concrete is furnished, concrete that has been partially mixed at a central plant shall be transferred to a truck mixer and all requirements for transit-mixed concrete shall apply. No credit in the number of revolutions at mixing speed shall be allowed for partial mixing in a central plant.

12-6.3 TRANSPORTING MIXED CONCRETE. Mixed concrete may be transported to the delivery point in truck agitators or truck mixers operating at the speed designated by the manufacturer of the equipment as agitating speed, or in non-agitating hauling equipment, provided the consistency and workability of the mixed concrete upon discharge at the delivery point is suitable for adequate placement and consolidation in place, and provided the mixed concrete after hauling to the delivery point conforms to the provisions in Subsection 12-6.1, "General."

Truck agitators shall be loaded not to exceed the manufacturer's guaranteed capacity and shall maintain the mixed concrete in a thoroughly mixed and uniform weight during hauling.

Bodies of non-agitating hauling equipment shall be constructed so that leakage of the concrete mix, or any part thereof, will not occur at any time.

Concrete hauled in open-top vehicles shall be protected during hauling against rain or against exposure to the sun for more than 20 minutes when the ambient temperature exceeds 75° F.

No additional mixing water shall be incorporated into the concrete during hauling or after arrival at the delivery point, unless authorized by the ENGINEER. If the ENGINEER authorizes additional water to be incorporated into the concrete, the drum shall be revolved not less than 30 revolutions at mixing speed after the water is added and before discharge is commenced.

The rate of discharge of mixed concrete from truck mixer-agitators shall be controlled by the speed of rotation of the drum in the discharge direction with the discharge gate fully open.

When a truck mixer or agitator is used for transporting concrete to the delivery point, discharge shall be completed within 1.5 hours or before 250 revolutions of the drum or blades, whichever occurs first, after the introduction of the cement to the aggregates. Under conditions contributing to quick stiffening of the concrete, or when the temperature of the concrete is 85° F or above, the time allowed may be less than 1.5 hours.

When non-agitating hauling equipment is used for transporting concrete to the delivery point, discharge shall be completed within one hour after the addition of the cement to the aggregates. Under conditions contributing to quick stiffening of the concrete, or when the temperature of the concrete is 85° F or above, the time between the introduction of cement to the aggregates and discharge shall not exceed 45 minutes.

Each load of concrete delivered at the jobsite shall be accompanied by a weighmaster certificate showing the mix identification number, non-repeating load number, date and time at which the materials were batched, the total amount of water added to the load, and for transit-mixed concrete, the reading of the revolution counter at the time the truck mixer is charged with cement. This weighmaster certificate shall also show the actual scale weights (pounds) for the ingredients batched. Theoretical or target batch weights shall not be used as a substitute for actual scale weights.

Weighmaster certificates shall be provided in printed form, or if approved by the ENGINEER, the data may be submitted in electronic media. Electronic media shall be presented in a tab-delimited format on a 3 1/2-inch diskette with a capacity of at least 1.4 megabytes. Captured data, for the ingredients represented by each batch shall be "line feed, carriage return" (LF CR) and "one line, separate record" with allowances for sufficient fields to satisfy the amount of data required by these specifications.

The CONTRACTOR may furnish a weighmaster certificate accompanied by a separate certificate that lists the actual batch weights or measurements for a load of concrete provided that both certificates are imprinted with the same non-repeating load number that is unique to the contract and delivered to the jobsite with the load.

Weighmaster certificates furnished by the CONTRACTOR shall conform to the provisions in Caltrans Specifications Subsection 90-1.01, "Measurement of Quantities."

12-6.4 TIME OR AMOUNT OF MIXING. Mixing of concrete in paving or stationary mixers shall continue for the required mixing time after all ingredients, except water and admixture, if added with the water, are in the mixing compartment of the mixer before any part of the batch is released. Transfer time in multiple drum mixers shall not be counted as part of the required mixing time.

The required mixing time, in paving or stationary mixers, of concrete used for concrete structures, except minor structures, shall be not less than 90 seconds or more than 5 minutes, except that when directed by the ENGINEER in writing, the requirements of the following paragraph shall apply.

The required mixing time, in paving or stationary mixers, except as provided in the preceding paragraph, shall be not less than 50 seconds or more than 5 minutes.

The minimum required revolutions at the mixing speed for transit-mixed concrete shall not be less than that recommended by the mixer manufacturer, but in no case shall the number of revolutions be less than that required to consistently produce concrete conforming to the provisions for uniformity in Subsection 12-6.1, "General."

12-6.5 HAND-MIXING. Hand-mixed concrete shall be made in batches of not more than one-third cubic yard and shall be mixed on a watertight, level platform. The proper amount of coarse aggregate shall be measured in measuring boxes and spread on the platform and the fine aggregate shall be spread on this layer, the 2 layers being not more than one foot in total depth. On this mixture shall be spread the dry cement and mineral admixture and the whole weight turned no fewer than 2 times dry; then sufficient clean water shall be added, evenly distributed, and the whole weight again turned no fewer than 3 times, not including placing in the carriers or forms.

12-6.6 AMOUNT OF WATER AND PENETRATION. The amount of water used in concrete mixes shall be regulated so that the penetration of the concrete as determined by California Test 533 or the slump of the concrete as determined by ASTM Designation: C 143 is within the "Nominal" values shown in the following table. When the penetration or slump of the concrete is found to exceed the nominal values listed, the mixture of subsequent batches shall be adjusted to reduce the penetration or slump to a value within the nominal range shown. Batches of concrete with a penetration or slump exceeding the maximum values listed shall not be used in the work. When Type F or Type G chemical admixtures are added to the mix, the penetration requirements shall not apply and the slump shall not exceed 9 inches after the chemical admixtures are added.

| Type of Work | Nominal | | Maximum | |
|------------------------------------|--------------------|--------------|--------------------|--------------|
| | Penetration inches | Slump inches | Penetration inches | Slump inches |
| Concrete Pavement | 0 - 1 | — | 1 1/2 | — |
| Non-reinforced concrete facilities | 0 - 1 1/2 | — | 2 | — |
| Reinforced concrete structures | | | | |
| Sections over 12 inches thick | 0 - 1 1/2 | — | 2 1/2 | — |
| Sections 12 inches thick or less | 0 - 2 | — | 3 | — |
| Concrete placed under water | — | 6-8 | — | 9 |
| Cast-in-place concrete piles | 2 1/2 - 3 1/2 | 5-7 | 4 | 8 |

The amount of free water used in concrete shall not exceed 310 pounds per cubic yard, plus 20 pounds for each required 100 pounds of cementitious material in excess of 550 pounds per cubic yard.

The term free water is defined as the total water in the mixture minus the water absorbed by the aggregates in reaching a saturated surface-dry condition.

Where there are adverse or difficult conditions that affect the placing of concrete, the above specified penetration and free water content limitations may be exceeded providing the CONTRACTOR is granted permission by the ENGINEER in writing to increase the cementitious material content per cubic yard of

concrete. The increase in water and cementitious material shall be at a ratio not to exceed 30 pounds of water per added 100 pounds of cementitious material per cubic yard. The cost of additional cementitious material and water added under these conditions shall be at the CONTRACTOR's expense and no additional compensation will be allowed therefor.

The equipment for supplying water to the mixer shall be constructed and arranged so that the amount of water added can be measured accurately. Any method of discharging water into the mixer for a batch shall be accurate within 1.5 percent of the quantity of water required to be added to the mix for any position of the mixer. Tanks used to measure water shall be designed so that water cannot enter while water is being discharged into the mixer and discharge into the mixer shall be made rapidly in one operation without dribbling. All equipment shall be arranged so as to permit checking the amount of water delivered by discharging into measured containers.

CURING CONCRETE

12-7.1 METHODS OF CURING. Newly placed concrete shall be cured by the methods specified in this Section.

A. Water Method. The concrete shall be kept continuously wet by the application of water for a minimum curing period of 7 days after the concrete has been placed.

When a curing medium consisting of cotton mats, rugs, carpets, or earth or sand blankets is to be used to retain the moisture, the entire surface of the concrete shall be kept damp by applying water with a nozzle that so atomizes the flow that a mist and not a spray is formed, until the surface of the concrete is covered with the curing medium. The moisture from the nozzle shall not be applied under pressure directly upon the concrete and shall not be allowed to accumulate on the concrete in a quantity sufficient to cause a flow or wash the surface. At the expiration of the curing period, the concrete surfaces shall be cleared of all curing mediums.

At the option of the CONTRACTOR, a curing medium consisting of white opaque polyethylene sheeting extruded onto burlap may be used to cure concrete structures. The polyethylene sheeting shall have a minimum thickness of 4 mil, and shall be extruded onto 10-ounce burlap.

At the option of the CONTRACTOR, a curing medium consisting of polyethylene sheeting may be used to cure concrete columns. The polyethylene sheeting shall have a minimum thickness of 10 mil achieved in a single layer of material.

If the CONTRACTOR chooses to use polyethylene sheeting or polyethylene sheeting on burlap as a curing medium as specified above, these mediums and any joints therein shall be secured as necessary to provide moisture retention and shall be within 3 inches of the concrete at all points along the surface being cured. When these mediums are used, the temperature of the concrete shall be monitored during curing. If the temperature of the concrete cannot be maintained below 140° F, this method of curing shall be discontinued, and one of the other curing methods allowed for the concrete shall be used.

When concrete bridge decks and flat slabs are to be cured without the use of a curing medium, the entire surface of the bridge deck or slab shall be kept damp by the application of water with an

atomizing nozzle as specified in the preceding paragraph, until the concrete has set, after which the entire surface of the concrete shall be sprinkled continuously with water for a period of not less than 7 days.

- B. Curing Compound Method.** Surfaces of the concrete that are exposed to the air shall be sprayed uniformly with a curing compound.

Curing compounds to be used shall be as follows:

- a. Pigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 2, Class B, except the resin type shall be poly-alpha-methylstyrene.
- b. Pigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 2, Class B.
- c. Pigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 2, Class A.
- d. Non-pigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 1, Class B.
- e. Non-pigmented curing compound conforming to the requirements in ASTM Designation: C 309, Type 1, Class A.
- f. Non-pigmented curing compound with fugitive dye conforming to the requirements in ASTM Designation: C 309, Type 1-D, Class A.

The infrared scan for the dried vehicle from curing compound (A) in the preceding list shall match the infrared scan on file at the Transportation Laboratory.

The loss of water for each type of curing compound, when tested in conformance with the requirements in California Test 534, shall not be more than 0.15-kilograms per meter squared in 24 hours.

The curing compound to be used will be specified elsewhere in these specifications or in the special provisions.

When the use of curing compound is required or permitted elsewhere in these specifications or in the special provisions and no specific kind is specified, any of the curing compounds listed above may be used.

Curing compound shall be applied at a nominal rate of one gallon per 150 square feet, unless otherwise specified.

At any point, the application rate shall be within ± 50 square feet per gallon of the nominal rate specified, and the average application rate shall be within ± 25 square feet per gallon of the nominal rate specified when tested in conformance with the requirements in California Test 535. Runs, sags, thin areas, skips, or holidays in the applied curing compound shall be evidence that the application is not satisfactory.

Curing compounds shall be applied using power operated spray equipment. The power operated spraying equipment shall be equipped with an operational pressure gage and a means of controlling the pressure. Hand spraying of small and irregular areas that are not reasonably accessible to mechanical spraying equipment, in the opinion of the ENGINEER, may be permitted.

The curing compound shall be applied to the concrete following the surface finishing operation, immediately before the moisture sheen disappears from the surface, but before any drying shrinkage or craze cracks begin to appear. In the event of any drying or cracking of the surface, application of water with an atomizing nozzle as specified in Subsection 12-7.1A, "Water Method," shall be started immediately and shall be continued until application of the compound is resumed or started; however, the compound shall not be applied over any resulting freestanding water. Should the film of compound be damaged from any cause before the expiration of 7 days after the concrete is placed in the case of structures and 72 hours in the case of pavement, the damaged portion shall be repaired immediately with additional compound.

At the time of use, compounds containing pigments shall be in a thoroughly mixed condition with the pigment uniformly dispersed throughout the vehicle. A paddle shall be used to loosen all settled pigment from the bottom of the container, and a power driven agitator shall be used to disperse the pigment uniformly throughout the vehicle.

Agitation shall not introduce air or other foreign substance into the curing compound.

The manufacturer shall include in the curing compound the necessary additives for control of sagging, pigment settling, leveling, de-emulsification, or other requisite qualities of a satisfactory working material. Pigmented curing compounds shall be manufactured so that the pigment does not settle badly, does not cake or thicken in the container, and does not become granular or curdled. Settled pigment shall be a thoroughly wetted, soft, mushy mass permitting the complete and easy vertical penetration of a paddle. Settled pigment shall be easily redispersed, with minimum resistance to the sideways manual motion of the paddle across the bottom of the container, to form a smooth uniform product of the proper consistency.

Curing compounds shall remain sprayable at temperatures above 40° F and shall not be diluted or altered after manufacture.

The curing compound shall be packaged in clean 274-gallon totes, 55-gallon barrels, or 5-gallon pails, or shall be supplied from a suitable storage tank located at the jobsite. The containers shall comply with "Title 49, Code of Federal Regulations, Hazardous Materials Regulations." The 274-gallon totes, and the 55-gallon barrels shall have removable lids and airtight fasteners. The 5-gallon pails shall be round and have standard full open head and bail. Lids with bungholes shall not be permitted. Settling or separation of solids in containers, except tanks, must be completely redispersed with low speed mixing prior to use, in conformance with these specifications and the manufacturer's recommendations. Mixing shall be accomplished either manually by use of a paddle or by use of a mixing blade driven by a drill motor, at low speed. Mixing blades shall be the type used for mixing paint. On site storage tanks shall be kept clean and free of contaminants. Each tank shall have a permanent system designed to completely redisperse settled material without introducing air or other foreign substances.

Steel containers and lids shall be lined with a coating that will prevent destructive action by the compound or chemical agents in the air space above the compound. The coating shall not come off the container or lid as skins. Containers shall be filled in a manner that will prevent skinning. Plastic containers shall not react with the compound.

Each container shall be labeled with the manufacturer's name, kind of curing compound, batch number, volume, date of manufacture, and volatile organic compound (VOC) content. The label shall also warn that the curing compound containing pigment shall be well stirred before use. Precautions concerning the handling and the application of curing compound shall be shown on the label of the curing compound containers in conformance with the Construction Safety Orders and General Industry Safety Orders of the State of California.

Containers of curing compound shall be labeled to indicate that the contents fully comply with the rules and regulations concerning air pollution control in the State of California.

When the curing compound is shipped in tanks or tank trucks, a shipping invoice shall accompany each load. The invoice shall contain the same information as that required herein for container labels.

Curing compound will be sampled by the ENGINEER at the source of supply or at the jobsite or at both locations.

Curing compound shall be formulated so as to maintain the specified properties for a minimum of one year. The ENGINEER may require additional testing before use to determine compliance with these specifications if the compound has not been used within one year or whenever the ENGINEER has reason to believe the compound is no longer satisfactory.

Tests will be conducted in conformance with the latest ASTM test methods and methods in use by the Transportation Laboratory.

- C. **Waterproof Membrane Method.** The exposed finished surfaces of concrete shall be sprayed with water, using a nozzle that so atomizes the flow that a mist and not a spray is formed, until the concrete has set, after which the curing membrane shall be placed. The curing membrane shall remain in place for a period of not less than 72 hours.

Sheeting material for curing concrete shall conform to the requirements in AASHTO Designation: M 171 for white reflective materials.

The sheeting material shall be fabricated into sheets of such width as to provide a complete cover for the entire concrete surface. Joints in the sheets shall be securely cemented together in such a manner as to provide a waterproof joint. The joint seams shall have a minimum lap of 0.33-foot. The sheets shall be securely weighted down by placing a bank of earth on the edges of the sheets or by other means satisfactory to the ENGINEER.

Should any portion of the sheets be broken or damaged before the expiration of 72 hours after being placed, the broken or damaged portions shall be immediately repaired with new sheets properly cemented into place.

Sections of membrane that have lost their waterproof qualities or have been damaged to such an extent as to render them unfit for curing the concrete shall not be used.

- D. Forms-in-Place Method.** Formed surfaces of concrete may be cured by retaining the forms in place. The forms shall remain in place for a minimum period of 7 days after the concrete has been placed, except that for members over 20 inches in least dimension the forms shall remain in place for a minimum period of 5 days.

Joints in the forms and the joints between the end of forms and concrete shall be kept moisture tight during the curing period. Cracks in the forms and cracks between the forms and the concrete shall be resealed by methods subject to the approval of the ENGINEER.

12-7.2 CURING PAVEMENT. The entire exposed area of the pavement, including edges, shall be cured by the waterproof membrane method, or curing compound method using curing compound (A) or (B) as the CONTRACTOR may elect. Should the side forms be removed before the expiration of 72 hours following the start of curing, the exposed pavement edges shall also be cured. If the pavement is cured by means of the curing compound method, the sawcut and all portions of the curing compound that have been disturbed by sawing operations shall be restored by spraying with additional curing compound.

Curing shall commence as soon as the finishing process provided in Section 40-1.10, "Final Finishing," has been completed. The method selected shall conform to the provisions in Subsection 12-7.1, "Methods of Curing."

When the curing compound method is used, the compound shall be applied to the entire pavement surface by mechanical sprayers. Spraying equipment shall be of the fully atomizing type equipped with a tank agitator that provides for continual agitation of the curing compound during the time of application. The spray shall be adequately protected against wind, and the nozzles shall be so oriented or moved mechanically transversely as to result in the minimum specified rate of coverage being applied uniformly on exposed faces. Hand spraying of small and irregular areas, and areas inaccessible to mechanical spraying equipment, in the opinion of the ENGINEER, will be permitted. When the ambient air temperature is above 60° F, the CONTRACTOR shall fog the surface of the concrete with a fine spray of water as specified in Subsection 12-7.1A, "Water Method." The surface of the pavement shall be kept moist between the hours of 10:00 a.m. and 4:30 p.m. on the day the concrete is placed. However, the fogging done after the curing compound has been applied shall not begin until the compound has set sufficiently to prevent displacement. Fogging shall be discontinued if ordered in writing by the ENGINEER.

12-7.3 CURING STRUCTURES. Newly placed concrete for cast-in-place structures, other than highway bridge decks, shall be cured by the water method, the forms-in-place method, or, as permitted herein, by the curing compound method, in conformance with the provisions in Section 12-7.1, "Methods of Curing."

The curing compound method using a pigmented curing compound may be used on concrete surfaces of construction joints, surfaces that are to be buried underground, and surfaces where only ordinary surface finish is to be applied and on which a uniform color is not required and that will not be visible from a public traveled way. If the CONTRACTOR elects to use the curing compound method on the bottom slab of box girder spans, the curing compound shall be curing compound (A).

The top surface of highway bridge decks shall be cured by both the curing compound method and the water method. The curing compound shall be curing compound (A).

Concrete surfaces of minor structures, defined as "Minor Structures," shall be cured by the water method, the forms-in-place method or the curing compound method.

When deemed necessary by the ENGINEER during periods of hot weather, water shall be applied to concrete surfaces being cured by the curing compound method or by the forms-in-place method, until the ENGINEER determines that a cooling effect is no longer required. Application of water for this purpose will be paid for as extra work.

12-7.4 CURING PRECAST CONCRETE MEMBERS. Deleted.

12-7.5 CURING PRECAST PRESTRESSED CONCRETE PILES. Deleted.

12-7.6 CURING SLOPE PROTECTION. Concrete slope protection shall be cured in conformance with any of the methods specified in Subsection 12-7.1, "Methods of Curing."

Concreted-rock slope protection shall be cured in conformance with any of the methods specified in Subsection 12-7.1, "Methods of Curing," or with a blanket of earth kept wet for 72 hours, or by sprinkling with a fine spray of water every 2 hours during the daytime for a period of 3 days.

12-7.7 CURING MISCELLANEOUS CONCRETE WORK. Exposed surfaces of curbs shall be cured by pigmented curing compounds as specified in Subsection 12-7.1B, "Curing Compound Method."

Concrete valley gutters, gutter depressions, and other miscellaneous concrete areas shall be cured in conformance with any of the methods specified in Subsection 12-7.1, "Methods of Curing."

Shotcrete shall be cured for at least 72 hours by spraying with water, by a moist earth blanket, or by any of the methods provided in Subsection 12-7.1, "Methods of Curing."

Mortar and grout shall be cured by keeping the surface damp for 3 days.

After placing, the exposed surfaces of sign structure foundations, including pedestal portions, if constructed, shall be cured for at least 72 hours by spraying with water, by a moist earth blanket, or by any of the methods provided in Subsection 12-7.1, "Methods of Curing."

PROTECTING CONCRETE

12-8.1 GENERAL. In addition to the provisions in Division III Section 50, "CONTROL OF WORK," the CONTRACTOR shall protect concrete as provided in this Section.

Concrete shall not be placed on frozen or ice-coated ground or subgrade nor on ice-coated forms, reinforcing steel, structural steel, conduits, precast members, or construction joints.

Under rainy conditions, placing of concrete shall be stopped before the quantity of surface water is sufficient to damage surface mortar or cause a flow or wash of the concrete surface, unless the CONTRACTOR provides adequate protection against damage.

Concrete that has been frozen or damaged by other causes, as determined by the ENGINEER, shall be removed and replaced by the CONTRACTOR at the CONTRACTOR's expense.

12-8.2 PROTECTING CONCRETE STRUCTURES. Structure concrete and shotcrete used as structure concrete shall be maintained at a temperature of not less than 45° F for 72 hours after placing and at not less than 40° F for an additional 4 days. When required by the ENGINEER, the CONTRACTOR shall submit a written outline of the proposed methods for protecting the concrete.

12-8.3 PROTECTING CONCRETE PAVEMENT. Pavement concrete shall be maintained at a temperature of not less than 40° F for 72 hours. When required by the ENGINEER, the CONTRACTOR shall submit a written outline of the proposed methods for protecting the concrete.

The CONTRACTOR shall protect concrete pavement against construction and other activities that abrade, scar, discolor, reduce texture depth, lower coefficient of friction, or otherwise damage the surface. Stockpiling, drifting, or excessive spillage of soil, gravel, petroleum products, and concrete or asphalt mixes on the surface of concrete pavement is prohibited unless otherwise specified in these specifications, the special provisions or permitted by the ENGINEER.

When ordered by the ENGINEER or shown on the PLANS or specified in the special provisions, pavement crossings shall be constructed for the convenience of public traffic. The material and work necessary for the construction of the crossings, and their subsequent removal and disposal, will be paid for at the contract unit prices for the items of work involved and if there are no contract items for the work involved, payment for pavement crossings will be made by extra work as provided in Section 4-1.03D, "Extra Work." Where public traffic will be required to cross over the new pavement, Type III Portland cement may be used in concrete, if permitted in writing by the ENGINEER. The pavement may be opened to traffic as soon as the concrete has developed a modulus of rupture of 550 psi. The modulus of rupture will be determined by California Test 523.

No traffic or CONTRACTOR's equipment, except as hereinafter provided, will be permitted on the pavement before a period of 10 days has elapsed after the concrete has been placed, nor before the concrete has developed a modulus of rupture of at least 550 psi. Concrete that fails to attain a modulus of rupture of 550 psi within 10 days shall not be opened to traffic until directed by the ENGINEER.

Equipment for sawing weakened plane joints will be permitted on the pavement as specified in Caltrans Specifications Section 40-1.08B, "Weakened Plane Joints."

When requested in writing by the CONTRACTOR, the tracks on one side of paving equipment will be permitted on the pavement after a modulus of rupture of 350 psi has been attained, provided that:

- a. Unit pressure exerted on the pavement by the paver shall not exceed 20 psi;
- b. Tracks with cleats, grousers, or similar protuberances shall be modified or shall travel on planks or equivalent protective material, so that the pavement is not damaged; and
- c. No part of the track shall be closer than one foot from the edge of pavement.

In case of visible cracking of, or other damage to the pavement, operation of the paving equipment on the pavement shall be immediately discontinued.

Damage to the pavement resulting from early use of pavement by the CONTRACTOR's equipment as provided above shall be repaired by the CONTRACTOR at the CONTRACTOR's expense.

The State will furnish the molds and machines for testing the concrete for modulus of rupture, and the CONTRACTOR, at the CONTRACTOR's expense, shall furnish the material and whatever labor the ENGINEER may require.

12-8.4 OPENING TO TRAFFIC. The pavement shall not be opened to traffic until test specimens molded and cured in accordance with ASTM C 31 have attained a compressive strength of 3,500 psi when tested in accordance with ASTM C 39. If such tests are not conducted, the pavement shall not be opened to traffic until 14 days after the concrete was placed. Prior to opening the pavement to construction traffic, all joints shall either be sealed or protected from damage to the joint edge and intrusion of foreign materials into the joint. As a minimum, backer rod or tape may be used to protect the joints from foreign matter intrusion. The pavement shall be cleaned before opening for normal operations.

COMPRESSIVE STRENGTH

12-9.1 GENERAL. Concrete compressive strength requirements consist of a minimum strength that shall be attained before various loads or stresses are applied to the concrete and, for concrete designated by strength, a minimum strength at the age of 28 days or at the age otherwise allowed in Subsection 12-1.1, "Description." The various strengths required are specified in these specifications or the special provisions or are shown on the PLANS.

The compressive strength of concrete will be determined from test cylinders that have been fabricated from concrete sampled in conformance with the requirements of California Test 539. Test cylinders will be molded and initially field cured in conformance with California Test 540. Test cylinders will be cured and tested after receipt at the testing laboratory in conformance with the requirements of California Test 521. A strength test shall consist of the average strength of 2 cylinders fabricated from material taken from a single load of concrete, except that, if any cylinder should show evidence of improper sampling, molding, or testing, that cylinder shall be discarded and the strength test shall consist of the strength of the remaining cylinder.

When concrete compressive strength is specified as a prerequisite to applying loads or stresses to a concrete structure or member, test cylinders for other than steam cured concrete will be cured in conformance with Method 1 of California Test 540. The compressive strength of concrete determined for these purposes will be evaluated on the basis of individual tests.

When concrete is designated by 28-day compressive strength rather than by cementitious material content, the concrete strength to be used as a basis for acceptance of other than steam cured concrete will be determined from cylinders cured in conformance with Method 1 of California Test 540. If the result of a single compressive strength test at the maximum age specified or allowed is below the specified strength but is 95 percent or more of the specified strength, the CONTRACTOR shall, at the CONTRACTOR's expense, make corrective changes, subject to approval of the ENGINEER, in the mix proportions or in the concrete fabrication procedures, before placing additional concrete, and shall pay to

the State \$10 for each in-place cubic yard of concrete represented by the deficient test. If the result of a single compressive strength test at the maximum age specified or allowed is below 95 percent of the specified strength, but is 85 percent or more of the specified strength, the CONTRACTOR shall make the corrective changes specified above, and shall pay to the State \$15 for each in-place cubic yard of concrete represented by the deficient test. In addition, such corrective changes shall be made when the compressive strength of concrete tested at 7 days indicates, in the judgment of the ENGINEER, that the concrete will not attain the required compressive strength at the maximum age specified or allowed. Concrete represented by a single test that indicates a compressive strength of less than 85 percent of the specified 28-day compressive strength will be rejected.

If the test result indicates that the compressive strength at the maximum curing age specified or allowed is below the specified strength, but is 85 percent or more of the specified strength, payments to the State as required above shall be made, unless the CONTRACTOR, at the CONTRACTOR's expense, obtains and submits evidence acceptable to the ENGINEER that the strength of the concrete placed in the work meets or exceeds the specified 28-day compressive strength. If the test result indicates a compressive strength at the maximum curing age specified or allowed below 85 percent, the concrete represented by that test will be rejected, unless the CONTRACTOR, at the CONTRACTOR's expense, obtains and submits evidence acceptable to the ENGINEER that the strength and quality of the concrete placed in the work are acceptable. If the evidence consists of tests made on cores taken from the work, the cores shall be obtained and tested in conformance with the requirements in ASTM Designation: C 42.

No single compressive strength test shall represent more than 320 cubic yards.

When a precast concrete member is steam cured, the compressive strength of the concrete will be determined from test cylinders that have been handled and stored in conformance with Method 3 of California Test 540. The compressive strength of steam cured concrete will be evaluated on the basis of individual tests representing specific portions of production. When the concrete is designated by 28-day compressive strength rather than by cementitious material content, the concrete shall be considered to be acceptable whenever its compressive strength reaches the specified 28-day compressive strength provided that strength is reached in not more than the maximum number of days specified or allowed after the member is cast.

When concrete is specified by compressive strength, prequalification of materials, mix proportions, mixing equipment, and procedures proposed for use will be required prior to placement of the concrete. Prequalification shall be accomplished by the submission of acceptable certified test data or trial batch reports by the CONTRACTOR. Prequalification data shall be based on the use of materials, mix proportions, mixing equipment, procedures, and size of batch proposed for use in the work.

Certified test data, in order to be acceptable, shall indicate that not less than 90 percent of at least 20 consecutive tests exceed the specified strength at the maximum number of cure days specified or allowed, and none of those tests are less than 95 percent of specified strength. Strength tests included in the data shall be the most recent tests made on concrete of the proposed mix design and all shall have been made within one year of the proposed use of the concrete.

Trial batch test reports, in order to be acceptable, shall indicate that the average compressive strength of 5 consecutive concrete cylinders, taken from a single batch, at not more than 28 days (or the maximum age allowed) after molding shall be at least 580 psi greater than the specified 28-day compressive

strength, and no individual cylinder shall have a strength less than the specified strength at the maximum age specified or allowed. Data contained in the report shall be from trial batches that were produced within one year of the proposed use of specified strength concrete in the project. Whenever air-entrainment is required, the air content of trial batches shall be equal to or greater than the air content specified for the concrete without reduction due to tolerances.

Tests shall be performed in conformance with either the appropriate California Test methods or the comparable ASTM test methods. Equipment employed in testing shall be in good condition and shall be properly calibrated. If the tests are performed during the life of the contract, the ENGINEER shall be notified sufficiently in advance of performing the tests in order to witness the test procedures.

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

- a. Date of mixing.
- b. Mixing equipment and procedures used.
- c. The size of batch in cubic yards and the weight, type, and source of all ingredients used.
- d. Penetration of the concrete.
- e. The air content of the concrete if an air-entraining admixture is used.
- f. The age at time of testing and strength of all concrete cylinders tested.

Certified test data and trial batch test reports shall be signed by an official of the firm that performed the tests.

When approved by the ENGINEER, concrete from trial batches may be used in the work at locations where concrete of a lower quality is required and the concrete will be paid for as the type or class of concrete required at that location.

After materials, mix proportions, mixing equipment, and procedures for concrete have been prequalified for use, additional prequalification by testing of trial batches will be required prior to making changes that, in the judgment of the ENGINEER, could result in a strength of concrete below that specified.

The CONTRACTOR's attention is directed to the time required to test trial batches and the CONTRACTOR shall be responsible for production of trial batches at a sufficiently early date so that the progress of the work is not delayed.

When precast concrete members are manufactured at the plant of an established manufacturer of precast concrete members, the mix proportions of the concrete shall be determined by the CONTRACTOR, and a trial batch and prequalification of the materials, mix proportions, mixing equipment, and procedures will not be required.

MINOR CONCRETE

12-10.1 GENERAL. Concrete for minor structures, valley gutters, and other concrete work, when designated as minor concrete on the PLANS, in the specifications, or in the contract item, shall conform to the provisions specified herein.

The ENGINEER, at the ENGINEER's discretion, will inspect and test the facilities, materials and methods for producing the concrete to ensure that minor concrete of the quality suitable for use in the work is obtained.

12-10.2 MATERIALS. Minor concrete shall conform to the following requirements:

- A. **Cementitious Material.** Cementitious material shall conform to the provisions in Subsection 12-1.1, "Description."
- B. **Aggregate.** Aggregate shall be clean and free from deleterious coatings, clay balls, roots, and other extraneous materials.

The CONTRACTOR shall submit to the ENGINEER for approval, a grading of the combined aggregate proposed for use in the minor concrete. After acceptance of the grading, aggregate furnished for minor concrete shall conform to that grading, unless a change is authorized in writing by the ENGINEER.

The ENGINEER may require the CONTRACTOR to furnish periodic test reports of the aggregate grading furnished. The maximum size of aggregate used shall be at the option of the CONTRACTOR, but in no case shall the maximum size be larger than 1 1/2 inch or smaller than 3/4 inch.

The ENGINEER may waive, in writing, the gradation requirements in this Subsection 12-10.2B if, in the ENGINEER's opinion, the furnishing of the gradation is not necessary for the type or amount of concrete work to be constructed.

- C. **Water.** Water used for washing, mixing, and curing shall be free from oil, salts, and other impurities that would discolor or etch the surface or have an adverse affect on the quality of the concrete.
- D. **Admixtures.** The use of admixtures shall conform to the provisions in Caltrans Specifications Section 90-4, "Admixtures."

12-10.3 PRODUCTION. Cementitious material, water, aggregate, and admixtures shall be stored, proportioned, mixed, transported, and discharged in conformance with recognized standards of good practice that will result in concrete that is thoroughly and uniformly mixed, that is suitable for the use intended, and that conforms to requirements specified herein. Recognized standards of good practice are outlined in various industry publications such as are issued by American Concrete Institute, AASHTO, or the Department.

The cementitious material content of minor concrete shall conform to the provisions in Subsection 12-1.1, "Description."

The amount of water used shall result in a consistency of concrete conforming to the provisions in Subsection 12-6.6, "Amount of Water and Penetration." Additional mixing water shall not be incorporated into the concrete during hauling or after arrival at the delivery point, unless authorized by the ENGINEER.

Discharge of ready-mixed concrete from the transporting vehicle shall be made while the concrete is still plastic and before stiffening occurs. An elapsed time of 1.5 hours (one hour in non-agitating hauling equipment), or more than 250 revolutions of the drum or blades, after the introduction of the cementitious material to the aggregates, or a temperature of concrete of more than 90° F will be considered conditions contributing to the quick stiffening of concrete. The CONTRACTOR shall take whatever action is necessary to eliminate quick stiffening, except that the addition of water will not be permitted.

The required mixing time in stationary mixers shall be not less than 50 seconds or more than 5 minutes.

The minimum required revolutions at mixing speed for transit-mixed concrete shall be not less than that recommended by the mixer manufacturer, and shall be increased, if necessary, to produce thoroughly and uniformly mixed concrete.

Each load of ready-mixed concrete shall be accompanied by a weighmaster certificate that shall be delivered to the ENGINEER at the discharge location of the concrete, unless otherwise directed by the ENGINEER. The weighmaster certificate shall be clearly marked with the date and time of day when the load left the batching plant and, if hauled in truck mixers or agitators, the time the mixing cycle started.

A Certificate of Compliance conforming to the provisions in Section 6-1.07, "Certificates of Compliance," shall be furnished to the ENGINEER, prior to placing minor concrete from a source not previously used on the contract, stating that minor concrete to be furnished meets contract requirements, including minimum cementitious material content specified.

12-10.4 CURING MINOR CONCRETE. Curing minor concrete shall conform to the provisions in Section 12-7.1 METHODS OF CURING.

12-10.5 PROTECTING MINOR CONCRETE. Protecting minor concrete shall conform to the provisions in Section 12-8.1 PROTECTING CONCRETE, except the concrete shall be maintained at a temperature of not less than 40° F for 72 hours after placing.

METHOD OF MEASUREMENT

12-11.1 MEASUREMENT. Minor concrete will be measured and paid for in conformance with the provisions specified in the various sections of these specifications covering concrete construction when minor concrete is specified in the specifications, shown on the PLANS, or indicated by contract item in the ENGINEER's Estimate. No measurement or other allowance shall be made for forms, falsework, coffer dams, pumping, bracing, expansion joints, or finishing of the concrete.

12-11.2 Valley Gutter will be considered Minor Concrete and measured by the square yard in place by the ENGINEER for 6-Inch and 10-Inch thickness separately.

12-11.3 6-Inch PCC Apron Pavement will be measured by the square yard as measured in place by the ENGINEER.

BASIS OF PAYMENT

12-12.1 PAYMENT. Portland cement concrete will be paid for in conformance with the provisions specified in the various sections of these specifications covering construction requiring concrete.

Full compensation for furnishing and incorporating admixtures required by these specifications or the special provisions will be considered as included in the contract prices paid for the concrete involved and no additional compensation will be allowed therefore.

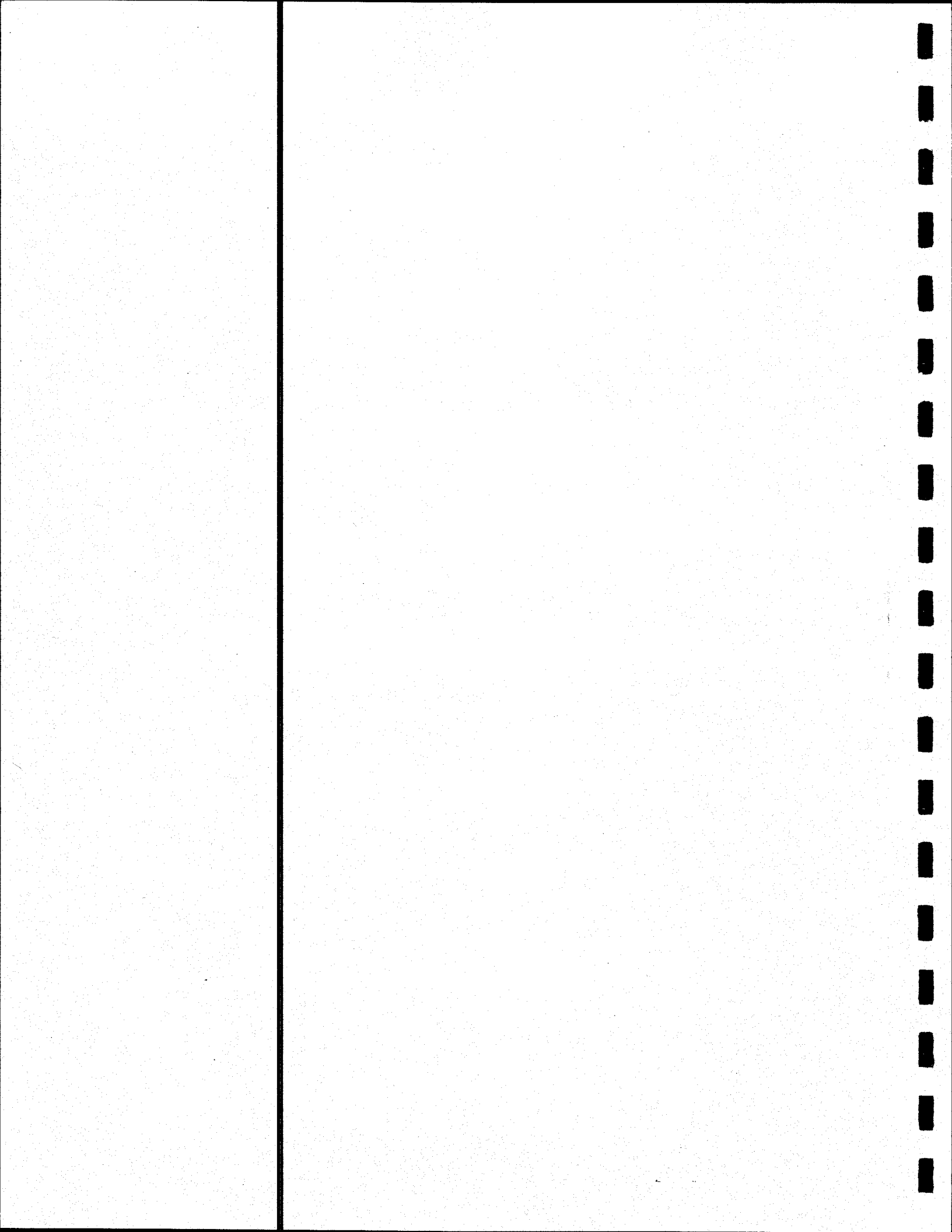
Should the ENGINEER order the CONTRACTOR to incorporate any admixtures in the concrete when their use is not required by these specifications or the special provisions, furnishing the admixtures and adding them to the concrete will be paid for as extra work.

Should the CONTRACTOR use admixtures in conformance with the provisions in Subsection 12-4.5, "Optional Use of Chemical Admixtures," or Subsection 12-4.7, "Optional Use of Air-entraining Admixtures," or should the CONTRACTOR request and obtain permission to use other admixtures for the CONTRACTOR's benefit, the CONTRACTOR shall furnish those admixtures and incorporate them into the concrete at the CONTRACTOR's expense and no additional compensation will be allowed therefor.

12-12.2 Payment will be made at the respective CONTRACT price per square yard for 6-Inch Valley Gutter and per square yard for 10-Inch Valley Gutter. This price shall be full compensation for furnishing all materials and for all preparation, delivery, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

12-12.3 Payment will be made at the respective CONTRACT price per square yard for 6-Inch PCC Apron Pavement. This price shall be full compensation for furnishing all materials and for all preparation, delivery, and installation of these materials, and for all labor, equipment, tools, and incidentals necessary to complete the item.

END OF SECTION



DIVISION V
SECTION 13
ITEM P-620
PAVEMENT MARKING

DESCRIPTION

13-1.1 This item shall consist of the painting of numbers, markings, and stripes on the surface of taxiways and aprons, in accordance with these SPECIFICATIONS and at the locations shown on the PLANS, or as directed by the ENGINEER.

MATERIALS

13-2.1 MATERIALS ACCEPTANCE. The CONTRACTOR shall furnish manufacturer's certified test reports for materials shipped to the project. The certified test reports shall include a statement that the materials meet the SPECIFICATION requirements. The reports can be used for material acceptance or the ENGINEER may perform verification testing. The reports shall not be interpreted as a basis for payment. The CONTRACTOR shall notify the ENGINEER upon arrival of a shipment of materials to the site.

13-2.2 PAINT. Paint shall be *Waterborne or Solvent Base* in accordance with the requirements of paragraph 13-2.2A. and 13-2.2B Paint shall be furnished in White - 37925, Yellow - 33538 or 33655 and Blue - per Caltrans in accordance with Federal Standard No 595.

A. Waterborne. Paint shall meet the requirements of Federal Specification TT-P-1952E, Type II.

B. Solvent Base. Paint shall meet the requirements of Federal Specification AA-28868.

13-2.3 REFLECTIVE MEDIA. Glass beads shall meet the requirements for Federal Specification TT-B-1325D, Type III. Glass beads shall be treated with all compatible coupling agents recommended by the manufacturers of the paint and reflective media to ensure adhesion and embedment.

CONSTRUCTION METHODS

13-3.1 WEATHER LIMITATIONS. The painting shall be performed only when the surface is dry and when the surface temperature is at least 45°F and rising and the pavement surface temperature is at least 5°F above the dew point. Markings shall not be applied when the pavement temperature is greater than 120°F.

13-3.2 EQUIPMENT. Equipment shall include the apparatus necessary to properly clean the existing surface, a mechanical marking machine, a bead dispensing machine, and such auxiliary hand-painting equipment as may be necessary to satisfactorily complete the job.

The mechanical marker shall be an atomizing spray-type marking machine suitable for application of traffic paint. It shall produce an even and uniform film thickness at the required coverage and shall apply markings of uniform cross sections and clear-cut edges without running or spattering and without over spray.

13-3.3 PREPARATION OF SURFACE. Immediately before application of the paint, the surface shall be dry and free from dirt, grease, oil, laitance, or other foreign material that would reduce the bond between the paint and the pavement. The area to be painted shall be cleaned by sweeping and blowing or by other methods as required to remove all dirt, laitance, and loose materials without damage to the pavement surface. Use of any chemicals or impact abrasives during surface preparation shall be approved in advance by the ENGINEER. Paint shall not be applied to Portland cement concrete pavement until the areas to be painted are clean of curing material. Sandblasting or high-pressure water shall be used to remove curing materials.

13-3.4 LAYOUT OF MARKINGS. The proposed markings shall be laid out in advance of the paint application. The locations of markings to receive glass beads shall be shown on the PLANS.

13-3.5 APPLICATION. Paint shall be applied at the locations and to the dimensions and spacing shown on the PLANS. Paint shall not be applied until the layout and condition of the surface has been approved by the ENGINEER. The edges of the markings shall not vary from a straight line more than 1/2-inch in 50 feet and marking dimensions and spacings shall be within the following tolerances:

| Dimension and Spacing | Tolerance |
|----------------------------------|------------|
| 36 inches or less | ±1/2 inch |
| greater than 36 inches to 6 feet | ± 1 inch |
| greater than 6 feet to 60 feet | ± 2 inches |
| greater than 60 feet | ± 3 inches |

The paint shall be mixed in accordance with the manufacturer's instructions and applied to the pavement with a marking machine at the rate(s) shown in Table 1. The addition of thinner will not be permitted. A period of 24 hours shall elapse between placement of a bituminous surface course or seal coat and first application of the paint with glass beads.

TABLE 1. APPLICATION RATES FOR PAINT AND GLASS BEADS

| Paint Type | Paint Square feet per gallon, ft ² /gal | Glass Beads, Type III Pounds per gallon of paint—lb./gal. |
|--------------|--|---|
| Waterborne | 115 ft ² /gal. maximum | 10 lb./gal. Minimum |
| Solvent Base | 115 ft ² /gal. maximum | 10 lb./gal. Minimum |

Glass beads shall be distributed upon the marked areas at the locations shown on the PLANS to receive glass beads immediately after application of the paint. A dispenser shall be furnished which is properly designed for attachment to the marking machine and suitable for dispensing glass beads. Glass beads shall be applied at the rate(s) shown in Table 1. Glass beads shall not be applied to black paint. Glass beads shall adhere to the cured paint or all marking operations shall cease until corrections are made.

All emptied containers shall be returned to the paint storage area for checking by the ENGINEER. The containers shall not be removed from the airport or destroyed until authorized by the ENGINEER.

13-3.6 PROTECTION AND CLEANUP. After application of the paint, all markings shall be protected from damage until the paint is dry. All surfaces shall be protected from excess moisture and/or rain and from disfiguration by spatter, splashes, spillage, or drippings of paint. The CONTRACTOR shall remove from the site all debris, waste, loose or unadhered reflective media, and by-products generated by the surface preparation and application operations to the satisfaction of the ENGINEER. The CONTRACTOR shall dispose of these wastes in strict compliance with all applicable state, local, and Federal environmental statutes and regulations.

METHOD OF MEASUREMENT

13-4.1 The quantity of apron, roadway, and taxiway markings to be paid for shall be the number of square feet of painting in accordance with the SPECIFICATIONS and accepted by the ENGINEER.

BASIS OF PAYMENT

13-5.1 Payment shall be made at the respective CONTRACT price per square foot for *airside pavement markings and roadway pavement markings*. This price shall be full compensation for furnishing all materials and for all labor, equipment, tools, and incidentals necessary to complete the item. *Glass beads shall be incidental to the cost of painting.*

TESTING REQUIREMENTS

| | |
|----------------------|---|
| ASTM C 136 | Sieve Analysis of Fine and Coarse Aggregates |
| ASTM C 146 | Chemical Analysis of Glass Sand |
| ASTM C 371 | Wire-Cloth Sieve Analysis of Nonplastic Ceramic Powders |
| ASTM D 92 | Test Method for Flash and Fire Points by Cleveland Open Cup |
| ASTM D 711 | No-Pick-Up Time of Traffic Paint |
| ASTM D 968 | Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive |
| ASTM D 1213-54(1975) | Test Method for Crushing Resistance of Glass Spheres |

| | |
|--|---|
| ASTM D 1652 | Test Method for Epoxy Content of Epoxy Resins |
| ASTM D 2074 | Test Method for Total Primary, Secondary, and Tertiary Amine Values of Fatty Amines by Alternative Indicator Method |
| ASTM D 2240 | Test Method for Rubber Products-Durometer Hardness |
| ASTM G 15453 | Operating Light and Water-Exposure Apparatus (Fluorescent Light Apparatus UV-Condensation Type) for Exposure of Non-metallic Materials. |
| Federal Test Method, Standard No. 141D/GEN | Paint, Varnish, Lacquer and Related Materials; Methods of Inspection, Sampling and Testing |

MATERIAL REQUIREMENTS

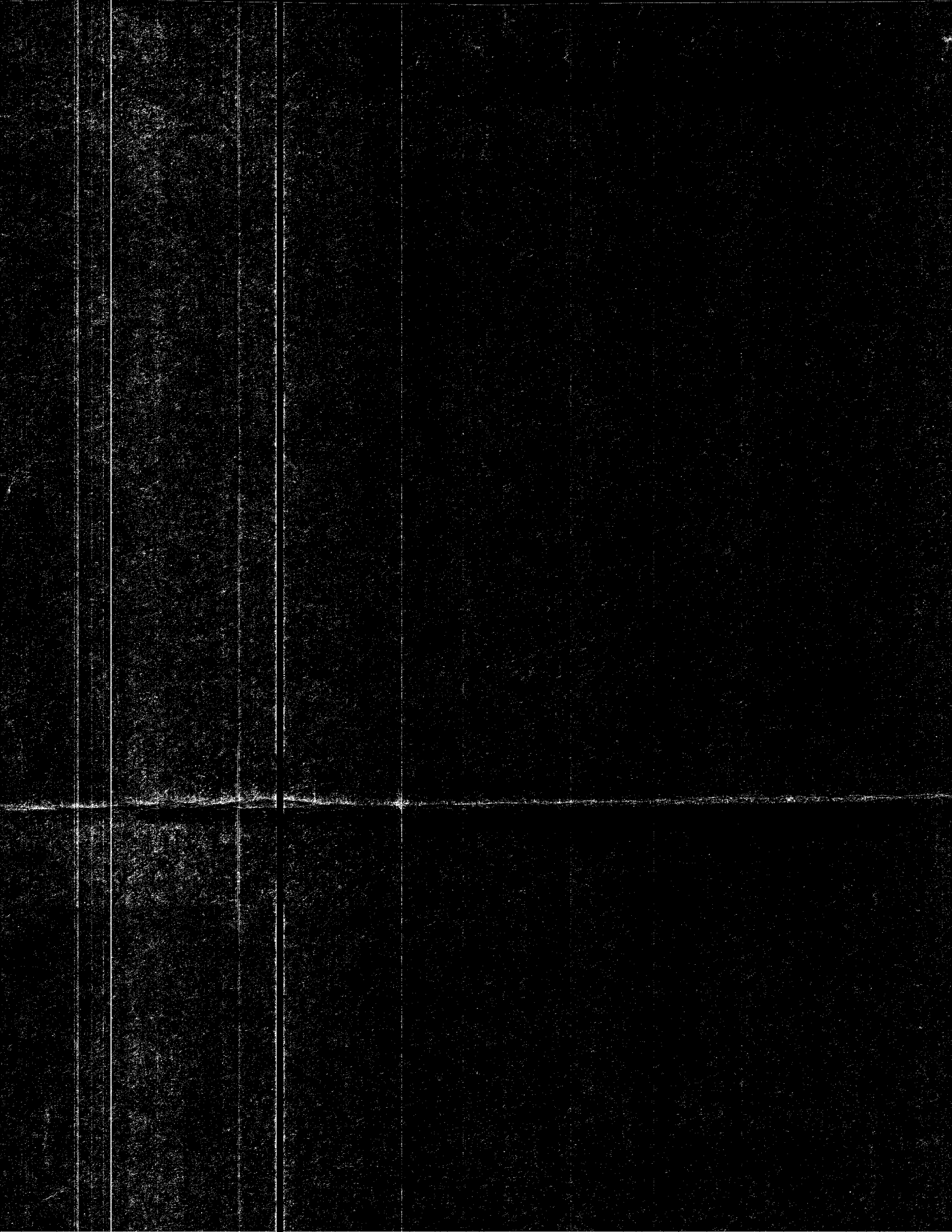
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| ASTM D 476 | Specifications for Dry Pigmentary Titanium Dioxide Pigments Products |
| Code of Federal Regulations | 40 CFR Part 60, Appendix A – Definition of Traverse Point Number and Location |
| Code of Federal Regulations | 29 CFR Part 1910.1200 – Hazard Communications |
| FED SPEC TT-B-1325D | Beads (Glass Spheres) Retroreflective |
| AASHTO M 247 | Glass Beads Used in Traffic Paints |
| FED SPEC TT-P-1952E | Paint, Traffic and Airfield Marking, Waterborne |
| Commercial Item Description (CID) A-A-2836B | Paint, Traffic, Solvent Based |
| FED STD 595 | Colors used in Government Procurement |

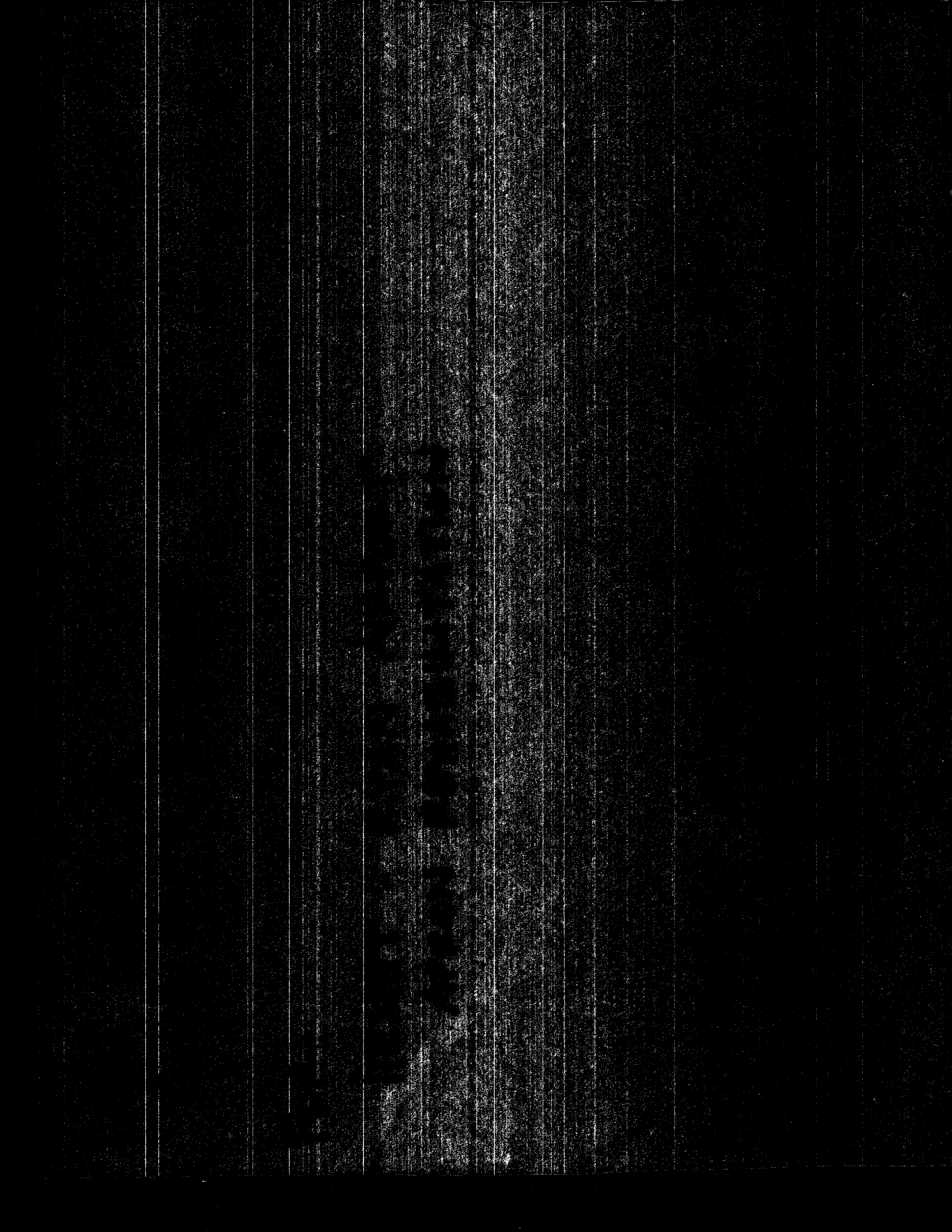
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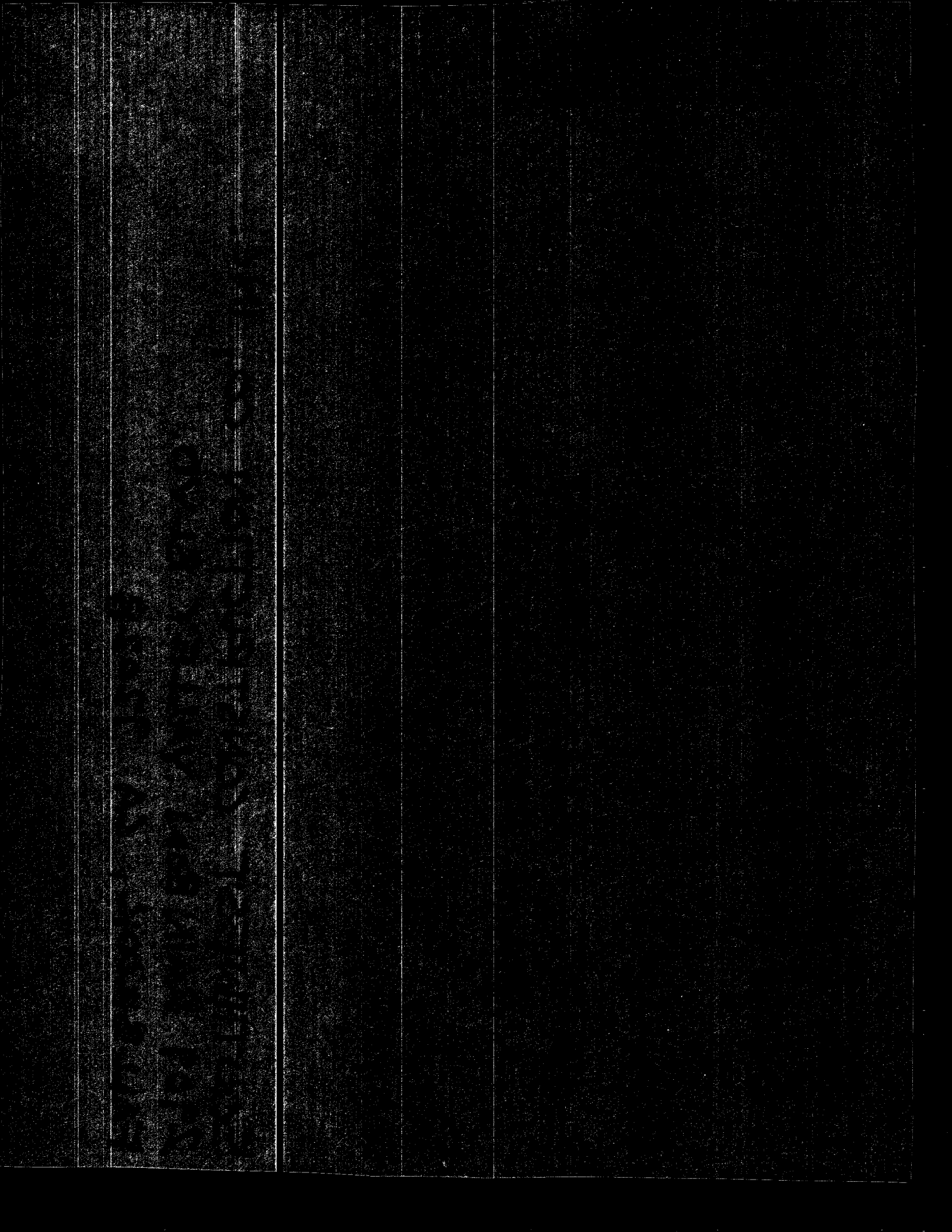
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| COMPANY/ CONTACT: | TYPE: | CONTACTED VIA: | DATE: | TIME: | NOTES: | INV. SENT: |
|---------------------------------------|-------|------------------|-------|-------|---|------------|
| PAYCO SPECIALTIES INC ATTN: | DBE | FAX | 11-2 | 3:17 | 619-427-1620 *USE BELOW | ✓ |
| REBECCA LLENELLYN PAYEMENT MARKING | | E-MAIL | 11-2 | 2:53 | llenellyn426@msn.com | ✓ |
| | | PH: 619-422-9204 | 11-8 | 10:52 | BILL@payco.biz | |
| | | *FAX: | | | PROBABLY WILL | |
| | | 619-422-1404 | 11-8 | 11:55 | BID, RE-SEND INV. BID LIST, PLANS, SPECS | ✓ |
| SUPER SEAL & STRIPE | DBE | FAX | 11-2 | 3:13 | FAX: 805-524-7428 | ✓ |
| ATTN: BRENDA HAMPTON- | | E-MAIL | 11-2 | 2:54 | brenda@supersealandstripe.com | ✓ |
| SEAL COAT | | PH: 805-524-7345 | 11-8 | 11:12 | SHARRON: EST. | |
| | | | 11-8 | 11:58 | SEND BID INV' BID LIST, PLANS, SPECS | ✓ |
| AVIATION STRIPING | MBE | | 11-5 | | TALKED TO AVIATION | HAS |
| SAM NICOLE | DBE | PH: | | | "WILL BID" | BID |
| | SBE | 951-303-9914 | | | | DOCS. |
| Po Box 890-847 | | FX: | 11-9 | | "SAM IS IN THE | |
| TEMECULA, 92587 | | 951-541-2802 | | | BAY AREA, WILL | |
| | | | | | SEND BID." | |
| | | | | | | |
| | | | | | | |

Mike Young

From: The Weekly Bid Flash [support@theweeklybidflash.com]
Sent: Tuesday, November 02, 2010 7:07 AM
To: Mike Young
Subject: Weekly Bid Flash DBE Ad Affidavit - Hemet-Ryan Airport, Apron Rehabilitation Project AIP Project No. 3-06-0104-011-2010

Proof of Publishing Affidavit

To Whom It May Concern:

Be it known that this is a sworn affidavit that **Southwest Construction Co., Inc.** did place an advertisement we published on **11/3/2010** in our nationwide publications, Construction Star, Inc. and The Weekly Bid Flash, seeking Certified Disadvantaged subcontractors and/or material suppliers for the project **Hemet-Ryan Airport, Apron Rehabilitation Project AIP Project No. 3-06-0104-011-2010**.

A copy of the advertisement is below:

Date Of Advertisement Placement: 11/2/2010 7:07:20 AM

Southwest Construction Co., Inc.
An Equal Opportunity Employer,
is requesting quotations from all qualified

DBE

sub-contractors and material suppliers for the following project:

Hemet-Ryan Airport, Apron Rehabilitation Project AIP Project No. 3-06-0104-011-2010

City/Location: **Hemet**
County: **Riverside**

Owner: **County of Riverside**

Bid Date: Tuesday 11/9/2010 at 2:00 PM

We are requesting bids for the following trades and/or supplies:
Asphalt, pavement markings, slurry seal

Bid documents can be viewed at or obtained from:
Plans can be seen at our office

Southwest Construction Co., Inc.
2909 Rainbow Valley Blvd
Fallbrook, CA 92028
Phone: (760) 728-4460 **Fax:** (760) 728-8649
Mike Young
mike@southwestconst.com

Published on 11/3/2010 8:00:00 AM
by The Weekly Bid Flash and The Construction Star
Trade and Focus Publications
located at www.theweeklybidflash.com and www.constar1.com
Phone: 1.800.479.5314 Fax: 1.619.688.0585

This solicitation Ad will run until the bid date

Our publication is a listed approved source by the State of CA , Dept. of General Services, Office of Small Business

11/2/2010

Mike Young

From: The Weekly Bid Flash [support@theweeklybidflash.com]
Sent: Tuesday, November 02, 2010 7:07 AM
To: Mike Young
Subject: Copy of your DBE Ad - Hemet-Ryan Airport, Apron Rehabilitation Project AIP Project No. 3-06-0104-011-2010

Date Of Advertisement Placement: 11/2/2010 7:07:20 AM

Southwest Construction Co., Inc.
An Equal Opportunity Employer,
is requesting quotations from all qualified

DBE

sub-contractors and material suppliers for the following project:

Hemet-Ryan Airport, Apron Rehabilitation Project AIP Project No. 3-06-0104-011-2010

City/Location: **Hemet**

County: **Riverside**

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Bid Date: Tuesday 11/9/2010 at 2:00 PM

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Asphalt, pavement markings, slurry seal

Bid documents can be viewed at or obtained from:
Plans can be seen at our office

Southwest Construction Co., Inc.
2909 Rainbow Valley Blvd
Fallbrook, CA 92028
Phone: (760) 728-4460 **Fax:** (760) 728-8649
Mike Young
mike@southwestconst.com

Published on 11/3/2010 8:00:00 AM
by The Weekly Bid Flash and The Construction Star
Trade and Focus Publications
located at www.theweeklybidflash.com and www.constar1.com
Phone: 1.800.479.5314 Fax: 1.619.688.0585

This solicitation Ad will run until the bid date

Mike Young

From: The Weekly Bid Flash [support@theweeklybidflash.com]
Sent: Tuesday, November 02, 2010 7:07 AM
To: Mike Young
Subject: Weekly Bid Flash DBE Ad Subscription Invoice - Hemet-Ryan Airport, Apron Rehabilitation Project
 AIP Project No. 3-06-0104-011-2010

Dear Mike Young,

Thank you for placing your advertisement at Construction Star, Inc. and The Weekly Bid Flash!

Please SAVE this email so you can **Click HERE to Edit your Ad** at any time in the future!

Your advertisement will be processed as soon as we confirm the payment has been received.
If your ad needs to be advertised immediately please call 559-325-7055 or email bkinabrew@ebidboard.com to take care of this by credit card.

To assist in your good faith effort, we will be sending you additional emails that will include your affidavit of publication and a copy of your advertisement. Visit www.ebidboard.com to learn more about the most effective and efficient tool ever designed to get Certified Disadvantage firms to bid your projects.

Contact Information:

Southwest Construction Co., Inc.
 Mike Young
 2909 Rainbow Valley Blvd
 Fallbrook, CA 92028
 (760) 728-4460
 Fax: (760) 728-8649
 Cell: (760) 275-4879
mike@southwestconst.com

Bill To:

Mike Young
 2909 Rainbow Valley Blvd
 Fallbrook, CA 92028

P.O. Number:

n/a

Sales Code: Company

| DBE Ad Displayed On | Price | Total |
|--|-------|-------|
| Construction Star, Inc. and The Weekly Bid Flash | \$45 | \$45 |
| Discount: | | \$0 |
| Sales Tax: | | \$0 |
| Grand Total: | | \$45 |
| checks should be made payable to CBI | | |

If you have questions about your advertisement, send an e-mail to info@theweeklybidflash.com or call 800-479-5314. In your e-mail, please include your advertisement reference number.

Thank you again!

The Weekly Bid Flash
 4420 Hotel Circle Court
 Suite 215
 San Diego, CA 92108
www.theweeklybidflash.com
 800-479-5314

Southwest

Invitation to

Bid

Construction Co., Inc.

2909 Rainbow Valley Blvd. Fallbrook Ca. 92028 (760) 728-4460 Fax (760) 728-8649 Lic # 465118

Project: Hemet- Ryan Airport; Apron Rehabilitation Project

Bid Date: November 9, 2010 @ 02:00 PM

Company: Super Seal & Stripe

Attn: ~~Brenda Hampton-Ortiz~~ SHARON

Description: New Construction of airport improvements at Hemet Ryan Airport "Apron Rehabilitation Project"

Work Includes: Pavement Rehabilitation by Seal Coat Application; Minor and Major Crack Repair; Full Depth Pavement Removal and Replacement; PCC Valley Gutter Repairs; Paint Striping

Estimated cost; Base Bid: \$ 650,000.00
Bid Alt: \$ 75,810.00

Trades: Pavement Seal Coat; Paint Striping

Project Duration: 65 Working Days

Estimator: Mike Young mike@southwestconst.com

Plans and specifications are also available for review at Southwest Construction's office located at 2909 Rainbow Valley Blvd, Fallbrook, CA 92028

YES, WE WILL PROVIDE A BID [] NO, WE WILL NOT BE BIDDING []

Name:

Company:

Email:

****This is a prevailing wage job. DBE Participation is Encouraged****

FAXED
11-2

Southwest

Invitation to

Bid

Construction Co., Inc.

2909 Rainbow Valley Blvd. Fallbrook Ca. 92028 (760) 728-4460 Fax (760) 728-8649 Lic # 465118

Project: Hemet- Ryan Airport; Apron Rehabilitation Project

Bid Date: November 9, 2010 @ 02:00 PM

Company: Payco Specialties, Inc.

Attn: ~~Rebecca Llewellyn~~ BILL

Description: New Construction of airport improvements at Hemet Ryan Airport "Apron Rehabilitation Project"

Work Includes: Pavement Rehabilitation by Seal Coat Application; Minor and Major Crack Repair; Full Depth Pavement Removal and Replacement; PCC Valley Gutter Repairs; Paint Striping

Estimated cost; Base Bid: \$ 650,000.00
Bid Alt: \$ 75,810.00

Trades: Pavement Seal Coat; Paint Striping

Project Duration: 65 Working Days

Estimator: Mike Young mike@southwestconst.com

Plans and specifications are also available for review at Southwest Construction's office located at 2909 Rainbow Valley Blvd, Fallbrook, CA 92028

YES, WE WILL PROVIDE A BID [] NO, WE WILL NOT BE BIDDING []

Name:

Company:

Email:

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FAXED
11-2

Southwest

Invitation to

Bid

Construction Co., Inc.

2909 Rainbow Valley Blvd. Fallbrook Ca. 92028 (760) 728-4460 Fax (760) 728-8649 Lic # 465118

Project: Hemet- Ryan Airport; Apron Rehabilitation Project

Bid Date: November 9, 2010 @ 02:00 PM

Company: JVD, INC.

Attn: Maria Penuna

Description: New Construction of airport improvements at Hemet Ryan Airport "Apron Rehabilitation Project"

Work Includes: Pavement Rehabilitation by Seal Coat Application; Minor and Major Crack Repair; Full Depth Pavement Removal and Replacement; PCC Valley Gutter Repairs; Paint Striping

Estimated cost: Base Bid: \$ 650,000.00
Bid Alt: \$ 75,810.00

Trades: Pavement Seal Coat; Paint Striping

Project Duration: 65 Working Days

Estimator: Mike Young mike@southwestconst.com

Plans and specifications are also available for review at Southwest Construction's office located at 2909 Rainbow Valley Blvd, Fallbrook, CA 92028

YES, WE WILL PROVIDE A BID [] NO, WE WILL NOT BE BIDDING []

Name:

Company:

Email:

****This is a prevailing wage job. DBE Participation is Encouraged****

FAXED
11-2

Southwest

Invitation to

Bid

Construction Co., Inc.

2909 Rainbow Valley Blvd. Fallbrook Ca. 92028 (760) 728-4460 Fax (760) 728-8649 Lic # 465118

Project: Hemet- Ryan Airport; Apron Rehabilitation Project

Bid Date: November 9, 2010 @ 02:00 PM

Company: Black Stone Asphalt

Attn: Norman Galanski

Description: New Construction of airport improvements at Hemet Ryan Airport "Apron Rehabilitation Project"

Work Includes: Pavement Rehabilitation by Seal Coat Application; Minor and Major Crack Repair; Full Depth Pavement Removal and Replacement; PCC Valley Gutter Repairs; Paint Striping

Estimated cost; Base Bid: \$ 650,000.00
Bid Alt: \$ 75,810.00

Trades: Pavement Seal Coat; Paint Striping

Project Duration: 65 Working Days

Estimator: Mike Young mike@southwestconst.com

Plans and specifications are also available for review at Southwest Construction's office located at 2909 Rainbow Valley Blvd, Fallbrook, CA 92028

YES, WE WILL PROVIDE A BID [] NO, WE WILL NOT BE BIDDING []

Name:

Company:

Email:

****This is a prevailing wage job. DBE Participation is Encouraged****

FAXED
11-2

Southwest

Invitation to

Bid

Construction Co., Inc.

2909 Rainbow Valley Blvd. Fallbrook Ca. 92028 (760) 728-4460 Fax (760) 728-8649 Lic # 465118

Project: Hemet- Ryan Airport; Apron Rehabilitation Project

Bid Date: November 9, 2010 @ 02:00 PM

Company: R&C Construction

Attn: Richard Garcia

Description: New Construction of airport improvements at Hemet Ryan Airport "Apron Rehabilitation Project"

Work Includes: Pavement Rehabilitation by Seal Coat Application; Minor and Major Crack Repair; Full Depth Pavement Removal and Replacement; PCC Valley Gutter Repairs; Paint Striping

Estimated cost: Base Bid: \$ 650,000.00
Bid Alt: \$ 75,810.00

Trades: Pavement Seal Coat; Paint Striping

Project Duration: 65 Working Days

Estimator: Mike Young mike@southwestconst.com

Plans and specifications are also available for review at Southwest Construction's office located at 2909 Rainbow Valley Blvd, Fallbrook, CA 92028

YES, WE WILL PROVIDE A BID [] NO, WE WILL NOT BE BIDDING []

Name:

Company:

Email:

****This is a prevailing wage job. DBE Participation is Encouraged****

FAXED
11-2

Southwest

Invitation to

Bid

Construction Co., Inc.

2909 Rainbow Valley Blvd. Fallbrook Ca. 92028 (760) 728-4460 Fax (760) 728-8649 Lic # 465118

Project: Hemet- Ryan Airport; Apron Rehabilitation Project

Bid Date: November 9, 2010 @ 02:00 PM

Company: Big Valley Asphalt

Attn: Donna Watson

Description: New Construction of airport improvements at Hemet Ryan Airport "Apron Rehabilitation Project"

Work Includes: Pavement Rehabilitation by Seal Coat Application; Minor and Major Crack Repair; Full Depth Pavement Removal and Replacement; PCC Valley Gutter Repairs; Paint Striping

Estimated cost; Base Bid: \$ 650,000.00
Bid Alt: \$ 75,810.00

Trades: Pavement Seal Coat; Paint Striping

Project Duration: 65 Working Days

Estimator: Mike Young mike@southwestconst.com

Plans and specifications are also available for review at Southwest Construction's office located at 2909 Rainbow Valley Blvd, Fallbrook, CA 92028

YES, WE WILL PROVIDE A BID [] NO, WE WILL NOT BE BIDDING []

Name:

Company:

Email:

****This is a prevailing wage job. DBE Participation is Encouraged****

FAXED
11-2

Southwest

Invitation to

Bid

Construction Co., Inc.

2909 Rainbow Valley Blvd. Fallbrook Ca. 92028 (760) 728-4460 Fax (760) 728-8649 Lic # 465118

Project: Hemet- Ryan Airport; Apron Rehabilitation Project

Bid Date: November 9, 2010 @ 02:00 PM

Company: Advanced Asphalt

Attn: Clarajo Sterner

Description: New Construction of airport improvements at Hemet Ryan Airport "Apron Rehabilitation Project"

Work Includes: Pavement Rehabilitation by Seal Coat Application; Minor and Major Crack Repair; Full Depth Pavement Removal and Replacement; PCC Valley Gutter Repairs; Paint Striping

Estimated cost; Base Bid: \$ 650,000.00
Bid Alt: \$ 75,810.00

Trades: Pavement Seal Coat; Paint Striping

Project Duration: 65 Working Days

Estimator: Mike Young mike@southwestconst.com

Plans and specifications are also available for review at Southwest Construction's office located at 2909 Rainbow Valley Blvd, Fallbrook, CA 92028

YES, WE WILL PROVIDE A BID []

NO, WE WILL NOT BE BIDDING []

Name:

Company:

Email:

****This is a prevailing wage job. DBE Participation is Encouraged****

FAXED
11-2

Southwest

Invitation to

Bid

Construction Co., Inc.

2909 Rainbow Valley Blvd. Fallbrook Ca. 92028 (760) 728-4460 Fax (760) 728-8649 Lic # 465118

Project: Hemet- Ryan Airport; Apron Rehabilitation Project

Bid Date: November 9, 2010 @ 02:00 PM

Company:

Attn:

Description: New Construction of airport improvements at Hemet Ryan Airport "Apron Rehabilitation Project"

Work Includes: Pavement Rehabilitation by Seal Coat Application; Minor and Major Crack Repair; Full Depth Pavement Removal and Replacement; PCC Valley Gutter Repairs; Paint Striping

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YES, WE WILL PROVIDE A BID [] NO, WE WILL NOT BE BIDDING []

Name:

Company:

Email:

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 *** ACTIVITY REPORT ***

| ST. TIME | DESTINATION TEL/ID | NO. | MODE | PGS. | RESULT |
|--------------|--------------------|------|--------------|------|----------|
| *10/28 16:49 | 801 399 1480 | 6601 | AUTO RX ECM | 1 | OK 00'37 |
| *10/28 22:04 | 714 575 5030 | 6602 | AUTO RX ECM | 1 | OK 00'51 |
| *10/29 12:23 | 866 908 6988 | 6603 | AUTO RX ECM | 2 | OK 00'25 |
| *10/29 12:30 | 19516995297 | 3084 | TRANSMIT ECM | 2 | OK 01'15 |
| *10/29 12:31 | 17146904985 | 3085 | TRANSMIT ECM | 2 | OK 00'26 |
| 10/29 12:32 | 15929286750 | 3083 | TRANSMIT | 0 | NG 00'38 |
| | | | | 0 | #0018 |
| 10/29 12:34 | 18009066070 | 3086 | TRANSMIT G3 | 2 | OK 01'15 |
| 10/29 12:35 | 17604320598 | 3087 | TRANSMIT ECM | 2 | OK 00'25 |
| 10/29 12:36 | 17607477094 | 3088 | TRANSMIT ECM | 2 | OK 00'24 |
| 10/29 12:41 | 15629286750 | 3089 | TRANSMIT ECM | 2 | OK 00'28 |
| 10/29 12:48 | 7607477094 | 6604 | AUTO RX ECM | 1 | OK 00'22 |
| 10/29 13:29 | 7604320127 | 6605 | AUTO RX ECM | 2 | OK 00'28 |
| 10/29 14:24 | 562 928 6750 | 6606 | AUTO RX ECM | 2 | OK 00'33 |
| 10/29 14:59 | 8009066070 | 6607 | AUTO RX G3 | 3 | OK 01'50 |
| 10/29 15:01 | | 6608 | AUTO RX G3 | 3 | OK 04'00 |
| 10/29 15:16 | | 6609 | AUTO RX ECM | 1 | OK 00'27 |
| 10/29 16:40 | 760 731 9640 | 6610 | AUTO RX ECM | 1 | OK 00'24 |
| 10/29 16:41 | | 6611 | AUTO RX ECM | 1 | OK 00'37 |
| 10/30 00:57 | | 6612 | AUTO RX G3 | 1 | OK 01'18 |
| 11/01 07:04 | | 6613 | AUTO RX G3 | 1 | OK 01'05 |
| 11/01 07:29 | | 6614 | AUTO RX ECM | 1 | OK 00'37 |
| 11/01 10:48 | | 6615 | AUTO RX ECM | 1 | OK 00'23 |
| 11/01 11:03 | 760 744 9064 | 6616 | AUTO RX ECM | 2 | OK 04'49 |
| 11/01 11:08 | 760 744 9064 | 6617 | AUTO RX ECM | 2 | OK 01'13 |
| 11/01 14:38 | 408 291 8888 | 6618 | AUTO RX ECM | 4 | OK 00'47 |
| 11/01 19:14 | 619 542 0306 | 6619 | AUTO RX G3 | 1 | OK 01'22 |
| 11/02 07:46 | 17607449064 | 3090 | TRANSMIT ECM | 1 | OK 00'16 |
| 11/02 09:31 | 7604716178 | 6620 | AUTO RX ECM | 2 | OK 00'41 |
| 11/02 09:42 | | 6621 | AUTO RX ECM | 1 | OK 00'37 |
| 11/02 11:57 | 909 484 3439 | 6622 | AUTO RX ECM | 2 | OK 01'22 |
| 11/02 13:55 | | 6623 | AUTO RX G3 | 1 | OK 01'34 |
| 11/02 14:38 | 818 308 7886 | 6624 | AUTO RX ECM | 1 | OK 00'19 |
| 11/02 15:13 | 18055247428 | 3091 | TRANSMIT ECM | 1 | OK 00'15 |
| 11/02 15:14 | 15594864761 | 3092 | TRANSMIT ECM | 1 | OK 00'15 |
| 11/02 15:15 | 16612828803 | 3093 | TRANSMIT ECM | 1 | OK 00'15 |
| 11/02 15:15 | 15592555600 | 3094 | TRANSMIT ECM | 1 | OK 00'16 |
| 11/02 15:16 | 16613268562 | 3095 | TRANSMIT ECM | 1 | OK 00'28 |
| 11/02 15:17 | 16194271620 | 3096 | TRANSMIT ECM | 1 | OK 00'15 |
| 11/02 15:22 | 16615895245 | 3097 | TRANSMIT | 0 | NG 00'35 |
| | | | | 0 | #0018 |
| 11/02 15:23 | 18664772515 | 3098 | TRANSMIT ECM | 3 | OK 00'31 |

From: Sam Simon [sam@southwestconst.com]
Sent: Tuesday, November 02, 2010 2:54 PM
To: 'brenda@supersealandstripe.com'
Subject: Bid Invitation

Attachments: Superseal.doc
Please see attached bid invitation for:

Ryan Airport - Hemet

Bid Date: 11-9-10 @ 2:00pm

Thank you,

Sam Simon
Project Manager
Southwest Construction Company
2909 Rainbow Valley Blvd
Fallbrook, CA 92028
(760) 728-4460 Telephone
(760) 728-8649 Fax
sam@southwestconst.com

From: Sam Simon [sam@southwestconst.com]
Sent: Tuesday, November 02, 2010 2:56 PM
To: 'NORM@BLACKSTONEASPHALT.COM'
Subject: Bid Invitation

Attachments: blackstone.doc
Please see attached bid invitation for:

Ryan Airport - Hemet

Bid Date: 11-9-10 @ 2:00pm

Thank you,

Sam Simon
Project Manager
Southwest Construction Company
2909 Rainbow Valley Blvd
Fallbrook, CA 92028
(760) 728-4460 Telephone
(760) 728-8649 Fax
sam@southwestconst.com

From: Sam Simon [sam@southwestconst.com]
Sent: Tuesday, November 02, 2010 2:53 PM
To: 'llewellyn4436@msn.com'
Subject: Bid Invitation

Attachments: payco.doc
Please see attached bid invitation for:

Ryan Airport - Hemet

Bid Date: 11-9-10 @ 2:00pm

Thank you,

Sam Simon
Project Manager
Southwest Construction Company
2909 Rainbow Valley Blvd
Fallbrook, CA 92028
(760) 728-4460 Telephone
(760) 728-8649 Fax
sam@southwestconst.com

From: Sam Simon [sam@southwestconst.com]
Sent: Tuesday, November 02, 2010 3:04 PM
To: 'donnawatson52@yahoo.com'
Subject: Bid Invitation

Attachments: big.doc
Please see attached bid invitation for:

Ryan Airport - Hemet

Bid Date: 11-9-10 @ 2:00pm

Thank you,

Sam Simon
Project Manager
Southwest Construction Company
2909 Rainbow Valley Blvd
Fallbrook, CA 92028
(760) 728-4460 Telephone
(760) 728-8649 Fax
sam@southwestconst.com

From: Sam Simon [sam@southwestconst.com]
Sent: Tuesday, November 02, 2010 2:58 PM
To: 'JVD_INC@yahoo.com'
Subject: Bid Invitation

Attachments: jvd.doc
Please see attached bid invitation for:

Ryan Airport - Hemet

Bid Date: 11-9-10 @ 2:00pm

Thank you,

Sam Simon
Project Manager
Southwest Construction Company
2909 Rainbow Valley Blvd
Fallbrook, CA 92028
(760) 728-4460 Telephone
(760) 728-8649 Fax
sam@southwestconst.com

From: Sam Simon [sam@southwestconst.com]
Sent: Tuesday, November 02, 2010 2:55 PM
To: 'randcconstruction@sbcglobal.net'
Subject: Bid Invitation

Attachments: randc.doc
Please see attached bid invitation for:

Ryan Airport - Hemet

Bid Date: 11-9-10 @ 2:00pm

Thank you,

Sam Simon
Project Manager
Southwest Construction Company
2909 Rainbow Valley Blvd
Fallbrook, CA 92028
(760) 728-4460 Telephone
(760) 728-8649 Fax
sam@southwestconst.com

| To | Subject | Sent | Size |
|------------------------------|---|--------------------|--------|
| Date: Last Week | | | |
| 'andrea' | | Fri 11/5/2010 2... | 24 KB |
| 'andrea' | | Fri 11/5/2010 2... | 11 KB |
| 'Rick Vasquez' | RE: revision c drawings | Fri 11/5/2010 1... | 8 KB |
| 'Jon Dupes'; 'A... | CCR's a bitch | Wed 11/3/2010... | 4 KB |
| 'Andy Johnson' | | Wed 11/3/2010... | 233 KB |
| 'Carla Covarrubi... | | Tue 11/2/2010 ... | 34 KB |
| 'donnawatson5... | Bid Invitation | Tue 11/2/2010 ... | 40 KB |
| 'JVD_INC@yah... | Bid Invitation | Tue 11/2/2010 ... | 40 KB |
| 'NORM@BLACK... | Bid Invitation | Tue 11/2/2010 ... | 40 KB |
| 'randconstructi... | Bid Invitation | Tue 11/2/2010 ... | 40 KB |
| 'brenda@super... | Bid Invitation | Tue 11/2/2010 ... | 40 KB |
| 'llewellyn4436... | Bid Invitation | Tue 11/2/2010 ... | 40 KB |
| 'Carla Covarrubi... | | Tue 11/2/2010 ... | 337 KB |
| 'mike@southwe... | | Tue 11/2/2010 ... | 40 KB |
| 'mike@southwe... | | Tue 11/2/2010 ... | 40 KB |
| Date: Two Weeks Ago | | | |
| 'mike@southwe... | | Wed 10/27/201... | 41 KB |
| 'andrea'; carla; ... | Please note the date change to 'Caltrans Reststops' | Wed 10/27/201... | 9 KB |
| 'andrea'; carla; ... | CURRENT JOBS BIDDING | Wed 10/27/201... | 9 KB |
| 'Rancho ' | RE: Murrieta Barrier | Wed 10/27/201... | 18 KB |
| 'Rancho Reprog... | Murrieta Barrier | Tue 10/26/201... | 4 KB |
| 'Povieng, Donal... | RE: Change Order Request | Mon 10/25/201... | 23 KB |
| 'dean@pacificpl... | Invitation to Bid: Caltrans Reststop Buildings | Mon 10/25/201... | 41 KB |
| Date: Three Weeks Ago | | | |
| 'fernando@del... | Rancho Jurupa Sports Park | Fri 10/22/2010 ... | 21 KB |
| 'stephen@glow... | Inv to Bid: Pacific Electric Inland Empire Trail | Fri 10/22/2010 ... | 43 KB |
| 'Rick Vasquez' | RE: closing cost & punch list line items 5% each | Thu 10/21/201... | 36 KB |
| 'Rick Vasquez' | RE: closing cost & punch list line items 5% each | Thu 10/21/201... | 29 KB |
| 'Ryan Pearson' | Rancho Jurupa Regional Sports Complex | Wed 10/20/201... | 5 KB |
| 'dpovieng@kbh... | FW: Change Order Request | Wed 10/20/201... | 17 KB |
| 'Rick Vasquez' | RE: closing cost & punch list line items 5% each | Mon 10/18/201... | 19 KB |
| Date: Last Month | | | |
| 'Rick Vasquez' | RE: closing cost & punch list line items 5% each | Thu 10/14/201... | 116 KB |
| 'ab1887@aol.co... | Inv to Bid - Pacific Electric Trail | Thu 10/14/201... | 66 KB |
| aviation@roadr... | Invitation to Bid - Pacific Electric Trail | Thu 10/14/201... | 47 KB |
| 'satwell@kbho... | Avelino, Carlsbad | Thu 10/14/201... | 513 KB |
| 'Peter Kogler' | RE: | Wed 10/13/201... | 27 KB |
| 'WRogers@haz... | FW: Warner Springs Fire Station Plan Sheets | Mon 10/11/201... | 20 KB |
| 'scottkellyconcr... | Colton Middle School | Mon 10/11/201... | 4 KB |
| 'bwilde@hazard... | FedEx Sitework | Mon 10/11/201... | 155 KB |
| 'Carla Covarrubi... | RE: | Thu 10/7/2010 ... | 6 KB |
| 'Ryan Pearson' | Quote request | Tue 10/5/2010 ... | 4 KB |
| 'ron@southwes... | FW: New Bid Alert! | Tue 10/5/2010 ... | 5 KB |
| Date: Older | | | |
| 'Rick Vasquez' | RE: C02 & revised SOV | Wed 9/29/2010... | 46 KB |
| 'Nick Geraldo' | RE: P742 BEQ Coronado | Wed 9/29/2010... | 9 KB |
| 'andrea'; carla; ... | Current Bid list | Wed 9/29/2010... | 9 KB |
| 'KHe1144783@... | Cathedral Canyon Improvements Addm 1 | Wed 9/29/2010... | 167 KB |
| 'allisonragan@e... | Cathedral Canyon Improvements Addm 1 | Wed 9/29/2010... | 167 KB |
| 'gscon@cox.net' | Cathedral Canyon Improvements ADDM 1 | Wed 9/29/2010... | 167 KB |

Southwest

Construction Co Inc

November 9, 2010

Division III
Section 20
Proposal Requirements and Conditions

20-2 Prequalification of bidders Southwest Construction has extensive experience with completing projects on Airports and Airfield. Since 1992 Southwest has worked on several Airports to include: March ARB, Mira Mar MCAS, Imperial Beach OLF, San Clemente Island, Plant 42, Mojave Airport, Jacqueline Cochran Airport, Lindberg Field San Diego NAS El Centro, Big Bear Airport and Southern California Logistics Airport Victorville. Our crews are familiar with F.O.D. requirements, Airport Security and Aircraft right of way. The Superintendent for this project will be Ron Keefe; Mr. Keefe has 20 years of experience working on Airfield.

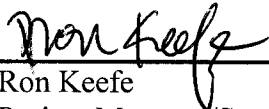
The following is a list of references:

1. East Kern Airport District
Kevin Wojtkiewicz
661-345-5016
2. VSA Airport
Roger Sheraton
760-318-0200
3. Mead & Hunt
Bob Casagrande
707-526-5010

Southwest Construction will have a vacuum sweeper on site for the duration of this project. Attached is a copy of our 2008-2009 reviewed financial statement and June 2010 for your review.

We look forward to working with the County of Riverside again on this project

Thank You.



Ron Keefe
Project Manager/Superintendent

PROPOSAL FORM

CONSTRUCTION OF AIRPORT IMPROVEMENTS
HEMET-RYAN AIRPORT
AIP PROJECT NO. 3-06-0104-011-2010
RIVERSIDE COUNTY, CALIFORNIA

FROM: ASR CONSTRUCTORS, INC.

NAME OF BIDDER: ASR CONSTRUCTORS INC.

BUSINESS ADDRESS: 5230 WILSON STREET RIVERSIDE, CA 92509

BUSINESS TELEPHONE: 951.779.0580 AFTER-HOURS TELEPHONE: 951 779 6580

CONTRACTOR LICENSE NUMBER: 015395

TO: County of Riverside
Economic Development Agency
Aviation Division
3403 10th Street, Suite 500
Riverside, California 92501

Ladies and Gentlemen:

The undersigned, as bidder, *under penalty of perjury*, declares that the only persons or parties interested in this proposal as principals are those named herein: that this proposal is made without collusion with any other person, firm or corporation; that he has carefully examined the location of the proposed work, the proposed form of contract, the PLANS and SPECIFICATIONS herein referred to; and he proposes, and agrees if this proposal is accepted, that he will contract with the County of Riverside, in the form of the CONTRACT annexed hereto, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the CONTRACT, in the manner and time therein prescribed, and according to the requirements of the ENGINEER as therein set forth, and that he will take in full payment therefore the following item prices, to wit:

BID SCHEDULE
HEMET-RYAN AIRPORT
APRON REHABILITATION PROJECT
AIP NO. 3-06-0104-011-2010

BASE BID SCHEDULE

| Item | Description | Units | Approx. Quantity | Unit Price (In Figures) | Total Cost (In Figures) |
|------|--|-------|------------------|--------------------------|--------------------------|
| 1 | Mobilization | LS | 1 | \$136,882. ⁸⁵ | \$136,882. ⁸⁵ |
| 2 | Airfield Safety and Traffic Control | LS | 1 | \$8000 | \$8000 |
| 3 | Surface Preparation (Rejuvenating Seal) | SY | 95,665 | \$.44 | \$42092.60 |
| 4 | Surface Preparation (Fuel-Resistant Seal) | SY | 9,500 | \$.32 | \$3040 |
| 5 | Pavement Pulverization | SY | 2,900 | \$3.60 | \$10440 |
| 6 | Earthwork and Site Preparation | LS | 1 | \$25000 | \$25000 |
| 7 | Subgrade Stabilization Rock | CY | 95 | \$64 | \$6080 |
| 8 | Subgrade Stabilization Geogrid | SY | 285 | \$13 | \$3705 |
| 9 | Pavement Demolition | SY | 280 | \$11 | \$3080 |
| 10 | Controlled Low Strength Material (CLSM), P-153 | CY | 20 | \$64 | \$1280 |
| 11 | Joint Seal | LF | 16,000 | \$2 | \$32000 |
| 12 | Asphalt Rejuvenating Seal | SY | 95,665 | \$.77 | \$73662.05 |
| 13 | Fuel-Resistant Seal | SY | 9,500 | \$1.75 | \$16625 |
| 14 | Minor Crack Repair | LF | 1,500 | \$3.35 | \$5025 |
| 15 | Major Crack (Greater than 1-Inch) Repair | LF | 200 | \$13 | \$2600 |
| 16 | Recycled AC/AB | CY | 475 | \$35 | \$16625 |
| 17 | Aggregate Base | CY | 300 | \$40 | \$12000 |
| 18 | Asphalt Concrete - Modified Caltrans Type A | TON | 120 | \$100 | \$12000 |
| 19 | 6-Inch PCC Apron (Caltrans PCC) | SY | 2,500 | \$18 | \$45000 |
| 20 | 6-Inch Valley Gutter (Caltrans PCC) | SY | 60 | \$25 | \$1500 |
| 21 | 10-Inch Valley Gutter, (Caltrans PCC) | SY | 435 | \$30 | \$13050 |
| 22 | Pavement Marking, P-620 | SF | 13,850 | \$1.25 | \$17312.50 |

Total Base Bid Schedule (Items 1 through 22). Please indicate in figures: \$ 487,000.-

Total Base Bid Schedule (Items 1 through 22). Please indicate in writing:

four hundred eighty seven thousand dollars


BID ALTERNATE A

| Item | Description | Unit | Est. Qty. | Unit Cost | Amount |
|---|---|------|-----------|----------------------------|----------|
| A-1 | Construction Safety and Traffic Control | LS | 1 | \$ 50.95 | \$ 50.95 |
| A-2 | Surface Preparation (Rejuvenating Seal) | SY | 13,900 | \$.55 | \$ 7645 |
| A-3 | Pavement Demolition | SY | 40 | \$ 20 | \$ 800 |
| A-4 | Joint Seal | LF | 3,200 | \$ 3.80 | \$ 12160 |
| A-5 | Asphalt Rejuvenating Seal | SY | 14,000 | \$ 1.50 | \$ 21000 |
| A-6 | Minor Crack Seal | LF | 200 | \$ 4 | \$ 800 |
| A-7 | Pavement Markings | SF | 10,000 | \$ 1.35 | \$ 13500 |
| Total Bid Alternate A (Items A1 – A7). Please indicate in figures: | | | | \$ 61,000 | |
| Total Bid Alternate A (Items A1 –A7). Please indicate in writing: | | | | Sixty one thousand dollars | |

The COUNTY reserves the right to reject any single bid, all bids or any individual bid schedule. The award, if made, will be to the lowest responsive Base Bid or Base Bid Schedule plus Bid Alternate A depending on the availability of funds.

Acknowledgment of Addenda

Addendum No. Initial
#1 Received 10/18/10 AR
#2 Received 11/5/2010 AR


Signature/Title
Alan Regotti - President / Patricia Berry - Secretary
ASR CONSTRUCTORS, INC.
Company
W15395 / 9-31-2011
Contractor's License Number/Expiration Date

NOTE: Contractor License Number and Expiration Date stated herein are made under penalty of perjury.

DESIGNATION OF SUBCONTRACTORS

Each bidder shall set forth below: (a) The name and the location of the place of business of each subcontractor who will perform work or labor or render service to the CONTRACTOR in or about the construction of the work in an amount in excess of one-half (1/2) of one percent (1%) of THE CONTRACTOR's total bid; and (b) The portion of the work which will be done by each subcontractor.

If the CONTRACTOR fails to specify a subcontractor for any portion of the work as above stated he agrees to perform that work himself. The CONTRACTOR shall not, without written consent of the OWNER, make any substitution, alterations, or additions to the following list of subcontractors which is made a part of this proposal.

1. NAME: CONTINENTAL WESTERN TRANSPORTATION
ADDRESS: PO BOX 26636 SAN DIEGO CA 92196
CONTRACT ITEMS: #12 AMOUNT: \$ 73,662.05

2. NAME:
ADDRESS:
CONTRACT ITEMS: AMOUNT: \$

3. NAME:
ADDRESS:
CONTRACT ITEMS: AMOUNT: \$

4. NAME:
ADDRESS:
CONTRACT ITEMS: AMOUNT: \$

5. NAME:
ADDRESS:
CONTRACT ITEMS: AMOUNT: \$

6. ATTACH ADDITIONAL SHEET(S) IF MORE THAN 6 SUBCONTRACTORS ARE TO BE USED.

QUESTIONNAIRE

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a Federal, State, or local government project because of a violation of law or a safety regulation?

Yes

No [checked]

If the answer is yes, attach an explanation of the circumstances.

Signed

[Signatures of Alan Regotti and Patricia Berry]
Alan Regotti - President | Patricia Berry - Secretary

DESIGNATION OF SUBCONTRACTORS

Each bidder shall set forth below: (a) The name and the location of the place of business of each subcontractor who will perform work or labor or render service to the CONTRACTOR in or about the construction of the work in an amount in excess of one-half (1/2) of one percent (1%) of THE CONTRACTOR's total bid; and (b) The portion of the work which will be done by each subcontractor.

If the CONTRACTOR fails to specify a subcontractor for any portion of the work as above stated he agrees to perform that work himself. The CONTRACTOR shall not, without written consent of the OWNER, make any substitution, alterations, or additions to the following list of subcontractors which is made a part of this proposal.

1. NAME: _____
ADDRESS: _____
CONTRACT ITEMS: _____ AMOUNT: \$ _____

2. NAME: _____
ADDRESS: _____
CONTRACT ITEMS: _____ AMOUNT: \$ _____

3. NAME: _____
ADDRESS: _____
CONTRACT ITEMS: _____ AMOUNT: \$ _____

4. NAME: _____
ADDRESS: _____
CONTRACT ITEMS: _____ AMOUNT: \$ _____

5. NAME: _____
ADDRESS: _____
CONTRACT ITEMS: _____ AMOUNT: \$ _____

6. ATTACH ADDITIONAL SHEET(S) IF MORE THAN 6 SUBCONTRACTORS ARE TO BE USED.

QUESTIONNAIRE

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bidder, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a Federal, State, or local government project because of a violation of law or a safety regulation?

Yes _____ No

If the answer is yes, attach an explanation of the circumstances.

Signed Alan Regotti | Patricia Berry
Alan Regotti - President | Patricia Berry - Secretary

**BIDDER'S STATEMENT ON
PREVIOUS CONTRACTS
SUBJECT TO EEO CLAUSE**

Each bidder, prospective prime CONTRACTOR, and proposed subcontractor must complete the following form:

The Bidder (Proposer) shall complete the following statement by checking the appropriate boxes.

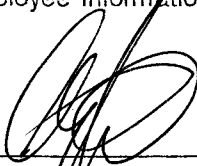
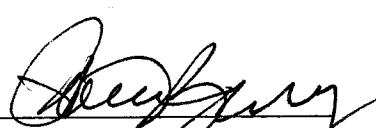
The Bidder (Proposer) has has not participated in a previous contract subject to the equal opportunity clause prescribed by Executive Order 10925, or Executive Order 11114, or Executive Order 11246.

The Bidder (Proposer) has has not submitted all compliance reports in connection with any such contract due under the applicable filing requirements; and that representations indicating submission of required compliance reports signed by proposed subcontractors will be obtained prior to award of subcontracts.

If the Bidder (Proposer) has participated in a previous contract subject to the equal opportunity clause and has not submitted compliance reports due under applicable filing requirements, the Bidder (Proposer) shall submit a compliance report on Standard Form 100, "Employee Information Report EEO -1", prior to the award of CONTRACT.

11/09/2010

Date

 
Signature and Title
Alan Fogotti - President | Patricia Berry - Secretary

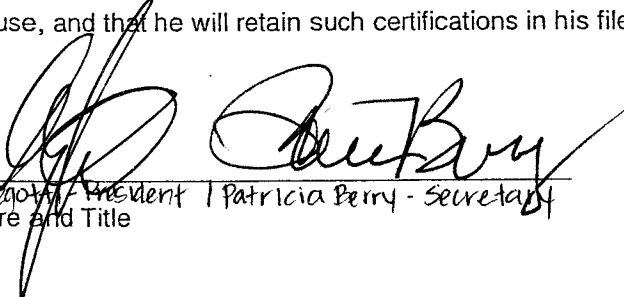
CERTIFICATION TO BE SUBMITTED BY FEDERALLY ASSISTED CONSTRUCTION CONTRACTORS OF APPLICANTS AND THEIR SUBCONTRACTORS (APPLICABLE TO FEDERALLY ASSISTED CONSTRUCTION CONTRACTS AND RELATED SUBCONTRACTS EXCEEDING \$10,000 WHICH ARE NOT EXEMPT FROM THE EQUAL OPPORTUNITY CLAUSE).

CERTIFICATION OF NONSEGREGATED FACILITIES

The Federally-assisted construction CONTRACTOR certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The Federally-assisted construction CONTRACTOR certifies further that they will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The Federally-assisted construction CONTRACTOR agrees that a breach of this certification is a violation of the equal opportunity clause in this CONTRACT. As used in this certification, the term "segregated facilities" means any waiting room, work areas, rest rooms and washrooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex or national origin, because of habit, local custom, or any other reason. The Federally-assisted construction CONTRACTOR agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause, and that he will retain such certifications in his files.

11/09/2010

Date



Alan Keogh - President | Patricia Berry - Secretary
Signature and Title

33-0857249

IRS Employer Identification Number

CERTIFICATION OF BIDDER REGARDING

AFFIRMATIVE ACTION PROGRAM

The bidder hereby certifies that he is in compliance with the Civil Rights Act of 1964, Executive Order No. 11246, Employment Practices Act, and any other applicable Federal and State laws and regulations relating to equal opportunity employment.

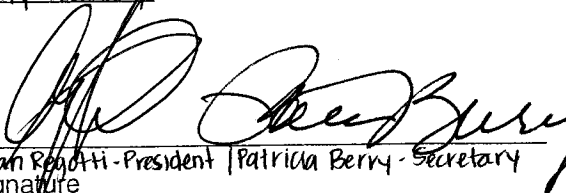
Bidder's Name: ASR CONSTRUCTORS, INC.

Address: 5230 WILSON STREET RIVERSIDE, CA 92509

Name and Title of Signer: Alan Regotti - President / Patricia Berry - Secretary

11/09/2010

Date


Alan Regotti - President / Patricia Berry - Secretary
Signature

NOTE:

The CONTRACTOR to whom the CONTRACT is awarded shall submit a statement each month certifying that he is in conformance with the Affirmative Action Program.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) UTILIZATION

The undersigned bidder/offeror has satisfied the requirements of the Bid SPECIFICATION in the following manner (please check the appropriate space):

The bidder/offeror is committed to a minimum of 3 % DBE utilization on this CONTRACT.

If unable to meet the DBE goal of 12 percent (12%), the bidder/offeror is committed to a minimum of _____ % DBE utilization on this CONTRACT and submits documentation demonstrating good faith efforts.

Name of bidder/offeror's firm: _____

State Registration No.: _____

By: Alan Regutti Patricia Berdy Title: President / Secretary

LIST OF DBE SUBCONTRACTORS

CONTRACT AMOUNT

| 1. | Name | Phone | \$ |
|----|---------------|-------|----|
| | | | |
| 2. | <u>T.B.D.</u> | | \$ |
| | | | |
| 3. | | | \$ |
| | | | |
| 4. | | | \$ |
| | | | |
| 5. | | | \$ |
| | | | |
| 6. | | | \$ |
| | | | |
| 7. | | | \$ |
| | | | |
| 8. | | | \$ |
| | | | |

CERTIFICATION REGARDING FOREIGN TRADE RESTRICTIONS

The CONTRACTOR or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

- a. is not owned or controlled by one or more citizens or nationals of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. has not knowingly entered into any contract or subcontract for this PROJECT with a contractor that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
- c. has not procured any product nor subcontracted for the supply of any product for use on the PROJECT that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If the CONTRACTOR knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use on the PROJECT, the Federal Aviation Administration may direct, through the SPONSOR, cancellation of the CONTRACT at no cost to the Government.

Further, the CONTRACTOR agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The CONTRACTOR may rely upon the certification of a prospective subcontractor unless it has knowledge the certification is erroneous.

The CONTRACTOR shall provide immediate written notice to the SPONSOR if the CONTRACTOR learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide immediate written notice to the CONTRACTOR, if at any time it learns that its certification was erroneous by reason of changed circumstances.


This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the CONTRACTOR or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct, through the SPONSOR, cancellation of the CONTRACT or subcontract for default at no cost to the Government.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

11/09/2010

Date


Alan R. Smith - President | Patricia Berry - Secretary
Signature

BUY AMERICAN CERTIFICATE (Jan. 1991)

By submitting a bid/proposal under this solicitation, except for those items listed by the offeror below or on a separate and clearly identified attachment to this bid/proposal, the offeror certifies that steel and each manufactured product, is produced in the United States (as defined in the clause - Buy American Steel and Manufactured Products or Buy American Steel and Manufactured Products For Construction Contracts) and that components of unknown origin are considered to have been produced or manufactured outside the United States.

A list of articles, materials, and supplies excepted from this provision is contained in Division II, Section 1, Paragraph 1-7.

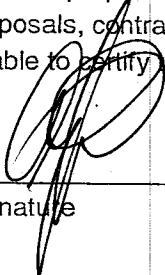
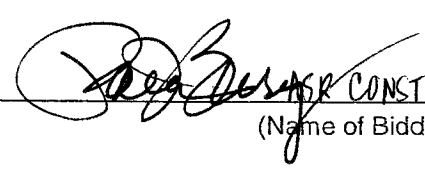
PRODUCT

COUNTRY OF ORIGIN

| | |
|-----|--|
| N/A | |
| | |
| | |
| | |
| | |

SUSPENSION AND DEBARMENT REQUIREMENTS
FOR ALL CONTRACTS OVER \$25,000
49 CFR PART 29

The bidder/offerer certifies, by submission of this proposal or acceptance of this CONTRACT, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. It further agrees by submitting this proposal that it will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where the bidder/offerer/CONTRACTOR or any lower tier participant is unable to certify to this statement, it shall attach an explanation to this solicitation/ proposal.

  CONSTRUCTORS, INC.

Signature (Name of Bidder)

11/09/2010 Alan Regotti - President | Patricia Berry - Secretary

Date (Name & Title of Signing Official)

Business Address 5230 WILSON STREET

RIVERSIDE, CA 92509

AFFIDAVIT FOR INDIVIDUAL CONTRACTORS

N.A.

declares as follows:

That he or she is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the County of Riverside or anyone interested in the proposed CONTRACT; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I declare, under penalty of perjury, that the foregoing is true and correct.

Dated this _____ day of _____, 2010, at _____, California.

Signature of affiant: _____

NOTE: Notarization of signature required

AFFIDAVIT FOR JOINT VENTURE OF COPARTNERSHIP CONTRACTOR

N.A.

declares as follows:

That he or she is a member of the joint venture or copartnership firm designated as

_____ which is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the County of Riverside or anyone interested in the proposed CONTRACT; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository or to any member or agent thereof to effectuate a collusive or sham bid.

That he has been and is duly vested with authority to make and sign instruments for the joint venture or copartnership by _____

who constitute the other members of the joint venture or copartnership.

I declare, under penalty of perjury, that the foregoing is true and correct.

Dated this _____ day of _____, 2010, at _____, California.

Signature of affiant: _____

NOTE: Notarization of signature required

AFFIDAVIT FOR CORPORATE CONTRACTOR

ALAN REGOTTI / PATRICIA BERRY declares as follows:

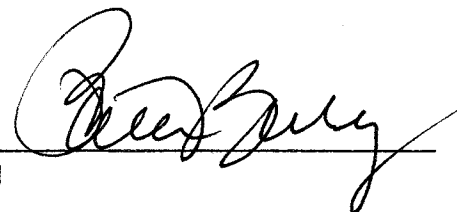
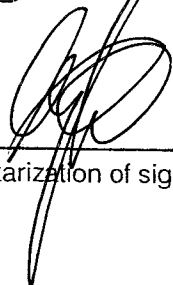
That he or she is PRESIDENT / SECRETARY
of ASR CONSTRUCTORS, INC.

a corporation which is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the County of Riverside or anyone interested in the proposed CONTRACT; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I declare, under penalty of perjury, that the foregoing is true and correct.

Dated this 9th day of NOVEMBER, 2010, at
RIVERSIDE, California.

Signature of affiant: _____



NOTE: Notarization of signature required

* SEE NOTARY ATTACHMENT

BID BOND

Recitals: 1 ASR Constructors, Inc "CONTRACTOR", has submitted his CONTRACTOR's Proposal to County of Riverside, "County", for the construction of public work for Hemet-Ryan Airport Apron Rehabilitation Project in accordance with a Notice Inviting Bids of COUNTY dated Nov. 9, 2010

2. Federal Insurance Company

a Indiana corporation, hereafter called "Surety", is the surety of this Bond.

Agreement: We, CONTRACTOR as principal and Surety as surety, jointly and severally agree and state as follows:

1. The amount of the obligation of this bond is ten percent (10%) of the amount of the CONTRACTOR's Proposal, including all bid alternates, and inures to the benefit of COUNTY.
2. This Bond is exonerated by (1) COUNTY rejecting said Proposal or, in the alternate, (2) if said Proposal is accepted, CONTRACTOR executes the Agreement and furnishes the Bonds as agreed to in its Proposal, otherwise it remains in full force and effect for the recovery of loss, damage and expense of COUNTY resulting from failure of CONTRACTOR to act as agreed to in its Proposal. Some types of possible loss, damage and expense are specified in the CONTRACTOR's Proposal.
3. Surety, for value received, stipulates and agrees that its obligations hereunder shall in no way be impaired or affected by any extension of time within which COUNTY may accept the Proposal and waives notice of any such extension.
4. This Bond is binding on our heirs, executors, administrators, successors, and assigns.

Dated: Nov. 5, 2010
 By *Yvette Aceves*
 Yvette Aceves
 Title: Attorney in Fct
 "Surety"

Dated: Nov. 5, 2010
 By *Alan Reggotti / Patricia Berry*
 Alan Reggotti / Patricia Berry
 Title: President / Secretary
 "Contractors"

STATE OF CALIFORNIA)
) ss. **** Please see notary attachment ****
 COUNTY OF _____)

On _____ before me personally appeared _____ known to me to be the person whose name is subscribed to the within instrument as Attorney in Fact.

Notary Public (Seal)

(NOTE: Affix corporate seals.)



**Chubb
Surety**

**POWER
OF
ATTORNEY**

**Federal Insurance Company
Vigilant Insurance Company
Pacific Indemnity Company**

**Attn: Surety Department
15 Mountain View Road
Warren, NJ 07059**

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Yvette Aceves and Newton Kellam of Irvine, California

each as their true and lawful Attorney-in-Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business, and any instruments amending or altering the same, and consents to the modification or alteration of any instrument referred to in said bonds or obligations.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this **6th** day of **October, 2010**.

Kenneth C. Wendel, Assistant Secretary

David B. Norris, Jr., Vice President

STATE OF NEW JERSEY
County of Somerset ss.

On this **6th** day of **October, 2010** before me, a Notary Public of New Jersey, personally came Kenneth C. Wendel, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Kenneth C. Wendel, being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By-Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Notarial Seal



**KATHERINE J. ADELAAR
NOTARY PUBLIC OF NEW JERSEY
No. 2316685
Commission Expires July 16, 2014**

Notary Public

CERTIFICATION

Extract from the By-Laws of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY:

"All powers of attorney for and on behalf of the Company may and shall be executed in the name and on behalf of the Company, either by the Chairman or the President or a Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations. The signature of such officers may be engraved, printed or lithographed. The signature of each of the following officers: Chairman, President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached."

I, Kenneth C. Wendel, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

- (i) the foregoing extract of the By-Laws of the Companies is true and correct,
- (ii) the Companies are duly licensed and authorized to transact surety business in all 50 of the United States of America and the District of Columbia and are authorized by the U.S. Treasury Department; further, Federal and Vigilant are licensed in Puerto Rico and the U.S. Virgin Islands, and Federal is licensed in American Samoa, Guam, and each of the Provinces of Canada except Prince Edward Island; and
- (iii) the foregoing Power of Attorney is true, correct and in full force and effect.

Given under my hand and seals of said Companies at Warren, NJ this



Kenneth C. Wendel, Assistant Secretary

IN THE EVENT YOU WISH TO NOTIFY US OF A CLAIM, VERIFY THE AUTHENTICITY OF THIS BOND OR NOTIFY US OF ANY OTHER MATTER, PLEASE CONTACT US AT ADDRESS LISTED ABOVE, OR BY Telephone (908) 903- 3493 Fax (908) 903- 3656 e-mail: surety@chubb.com

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Riverside

On Nov. 5, 2010 before me, Minh Quang Tran, A Notary Public
(Here insert name and title of the officer)

personally appeared Yvette Aceves

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

(Notary Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Bid Bond

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

(Additional information)

CAPACITY CLAIMED BY THE SIGNER

- Individual (s)
 Corporate Officer

(Title)

- Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they~~, is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document

B I D A D D E N D U M N O . 1**ASR CONSTRUCTORS**

To: All Plan Holders

From: Bob Casagrande
Mead & Hunt, Inc.

Date: October 18, 2010

Subject: Hemet-Ryan Airport
AIP No. 3-06-0104-011-2010

OCT 18 2010

RECEIVED

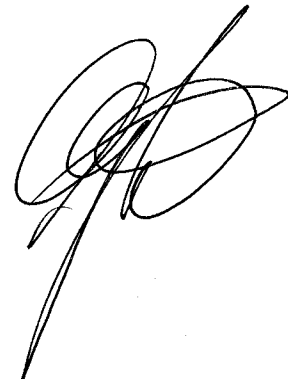
Please call the Mead & Hunt Santa Rosa office at (707) 526-5010 to confirm receipt of this Addendum.

The following modifications are to be made part of the Plans, Contract Documents, and Specifications for the subject project. All bidders must acknowledge receipt of this Addendum in the space provided on the Bid Proposal Form.

Instructions to Bidders

Page 1, Item No. 5, Pre-Bid Meeting – Delete paragraph and replace with the following:

“ A Pre-Bid Meeting has been scheduled for 3:00 p.m. on Monday, November 1, 2010, at the Airport. All bidders are encouraged to visit the site but the meeting is not mandatory.”



B I D A D D E N D U M N O . 2

To: All Plan Holders

From: Bob Casagrande
Mead & Hunt, Inc.

Date: November 5, 2010

Subject: Hemet-Ryan Airport
AIP No. 3-06-0104-011-2010

Please call the Mead & Hunt Santa Rosa office at (707) 526-5010 to confirm receipt of this Addendum.

The following modifications are to be made part of the Plans, Contract Documents, and Specifications for the subject project. All bidders must acknowledge receipt of this Addendum in the space provided on the Bid Proposal Form.

Instructions to Bidders***SPECIFICATIONS***

Page 2 of the Proposal forms, replace bid schedule with the following amended quantities.

Item 3 Surface Preparation (Rejuvenating Seal) - 95,665 SY

Item 5 Pavement Pulverization - 2,900 SY

Item 12 Asphalt Rejuvenating Seal - 95,665 SY

Division V, Section 11-2.7 TEST SECTION - Delete all test section references except the last paragraph.

"Job mix control testing shall be performed by the CONTRACTOR at the start of plant production and in conjunction with the calibration of the plant for the job mix formula. It should be recognized that the aggregates produced by the plant may not satisfy the gradation requirements or produce a mix that exactly meets the job mix formula. In those instances, it will be necessary to re-evaluate and re-design the mix using plant-produced aggregates. Specimens should be prepared, and the optimum bitumen content determined in the same manner as for the original design tests."

DRAWINGS

Sheet C-102 Detail B "Thicken Edge". The dimension for the thicken edge new PCC are incorrect. Change 16" to 9" and 13" to 6" on the detail.

Construction of Airport Improvements

Hemet-Ryan Airport

AIP Project No.

3-04-0104-011-2010

ASR CONSTRUCTORS, INC

5230 Wilson Street

Riverside, CA 92509

SEALED BID RECEIVED
CLERK OF THE BOARD OF SUPERVISORS

RECEIVED RIVERSIDE
CLERK / BOARD OF
2010 NOV - 9

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PROPOSAL FORM

CONSTRUCTION OF AIRPORT IMPROVEMENTS
HEMET-RYAN AIRPORT
AIP PROJECT NO. 3-06-0104-011-2010
RIVERSIDE COUNTY, CALIFORNIA

FROM: Michael Ellefson

NAME OF BIDDER: TEAM WEST CONTRACTING CORP

BUSINESS ADDRESS: 1151 POMONA RD SUBD J, CORONA CA. 92882

BUSINESS TELEPHONE: 951-340-3426 AFTER-HOURS TELEPHONE: 951-5387484

CONTRACTOR LICENSE NUMBER: 934352 A-C-12

TO: County of Riverside
Economic Development Agency
Aviation Division
3403 10th Street, Suite 500
Riverside, California 92501

Ladies and Gentlemen:

The undersigned, as bidder, *under penalty of perjury*, declares that the only persons or parties interested in this proposal as principals are those named herein: that this proposal is made without collusion with any other person, firm or corporation; that he has carefully examined the location of the proposed work, the proposed form of contract, the PLANS and SPECIFICATIONS herein referred to; and he proposes, and agrees if this proposal is accepted, that he will contract with the County of Riverside, in the form of the CONTRACT annexed hereto, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the CONTRACT, in the manner and time therein prescribed, and according to the requirements of the ENGINEER as therein set forth, and that he will take in full payment therefore the following item prices, to wit:

BID SCHEDULE
HEMET-RYAN AIRPORT
APRON REHABILITATION PROJECT
AIP NO. 3-06-0104-011-2010

BASE BID SCHEDULE

| Item | Description | Units | Approx. Quantity | Unit Price (In Figures) | Total Cost (In Figures) |
|------|--|-------|------------------|-------------------------|-------------------------|
| 1 | Mobilization | LS | 1 | \$ - | \$ 14,540.00 |
| 2 | Airfield Safety and Traffic Control | LS | 1 | \$ - | \$ 53,705.00 |
| 3 | Surface Preparation (Rejuvenating Seal) | SY | 95,665 | \$ 0.58 | \$ 55,485.70 |
| 4 | Surface Preparation (Fuel-Resistant Seal) | SY | 9,500 | \$ 0.58 | \$ 5,510.00 |
| 5 | Pavement Pulverization | SY | 2,900 | \$ 8.73 | \$ 26,867.00 |
| 6 | Earthwork and Site Preparation | LS | 1 | \$ - | \$ 26,951.00 |
| 7 | Subgrade Stabilization Rock | CY | 95 | \$ 49.90 | \$ 4,740.50 |
| 8 | Subgrade Stabilization Geogrid | SY | 285 | \$ 6.28 | \$ 1,789.80 |
| 9 | Pavement Demolition | SY | 280 | \$ 9.98 | \$ 2,794.40 |
| 10 | Controlled Low Strength Material (CLSM), P-153 | CY | 20 | \$ 197.10 | \$ 3,942.00 |
| 11 | Joint Seal | LF | 16,000 | \$ 1.99 | \$ 31,840.00 |
| 12 | Asphalt Rejuvenating Seal | SY | 95,665 | \$ 0.43 | \$ 41,135.95 |
| 13 | Fuel-Resistant Seal | SY | 9,500 | \$ 1.88 | \$ 17,860.00 |
| 14 | Minor Crack Repair | LF | 1,500 | \$ 2.00 | \$ 3,000.00 |
| 15 | Major Crack (Greater than 1-Inch) Repair | LF | 200 | \$ 9.98 | \$ 1,996.00 |
| 16 | Recycled AC/AB | CY | 475 | \$ 17.90 | \$ 8,502.50 |
| 17 | Aggregate Base | CY | 300 | \$ 37.42 | \$ 11,226.00 |
| 18 | Asphalt Concrete - Modified Caltrans Type A | TON | 120 | \$ 155.93 | \$ 18,711.60 |
| 19 | 6-Inch PCC Apron (Caltrans PCC) | SY | 2,500 | \$ 53.82 | \$ 134,550.00 |
| 20 | 6-Inch Valley Gutter (Caltrans PCC) | SY | 60 | \$ 184.64 | \$ 11,078.40 |
| 21 | 10-Inch Valley Gutter, (Caltrans PCC) | SY | 435 | \$ 116.00 | \$ 50,460.00 |
| 22 | Pavement Marking, P-620 | SF | 13,850 | \$ 0.80 | \$ 11,080.00 |

Total Base Bid Schedule (Items 1 through 22). Please indicate in figures: \$ 537,765.85

Total Base Bid Schedule (Items 1 through 22). Please indicate in writing:

FIVE HUNDRED THIRTY SEVEN THOUSAND SEVEN HUNDRED SIXTY FIVE ⁸⁵/₁₀₀

| Item | Description | Unit | Est. Qty. | Unit Cost | Amount |
|--|---|------|-----------|-----------|--------------|
| A-1 | Construction Safety and Traffic Control | LS | 1 | \$ — | \$ 9,300 |
| A-2 | Surface Preparation (Rejuvenating Seal) | SY | 13,900 | \$ 0.84 | \$ 11,676.00 |
| A-3 | Pavement Demolition | SY | 40 | \$ 46.78 | \$ 1,871.20 |
| A-4 | Joint Seal | LF | 3,200 | \$ 1.99 | \$ 6,368.00 |
| A-5 | Asphalt Rejuvenating Seal | SY | 14,000 | \$ 0.48 | \$ 6,720.00 |
| A-6 | Minor Crack Seal | LF | 200 | \$ 2.00 | \$ 400.00 |
| A-7 | Pavement Markings | SF | 10,000 | \$ 0.75 | \$ 7,500.00 |
| Total Bid Alternate A (Items A1 – A7). Please indicate in figures: | | | | \$ | 48,835.20 |
| Total Bid Alternate A (Items A1 –A7). Please indicate in writing: | | | | | |
| FOURTY EIGHT THOUSAND EIGHT HUNDRED THIRTY FIVE ²⁰ / ₁₀₀ — | | | | | |

BID ALTERNATE A

The COUNTY reserves the right to reject any single bid, all bids or any individual bid schedule. The award, if made, will be to the lowest responsive Base Bid or Base Bid Schedule plus Bid Alternate A depending on the availability of funds.

Acknowledgment of Addenda

| | |
|--------------|-------------|
| Addendum No. | Initial |
| <u>1</u> | <u>M.E.</u> |
| <u>2</u> | <u>M.E.</u> |
| _____ | _____ |

Marked Elly
Signature/Title CORPORATE SECRETARY
TEAM WEST CONTRACTING CORP.
Company
934352
Contractor's License Number/Expiration Date

NOTE: Contractor License Number and Expiration Date stated herein are made under penalty of perjury.

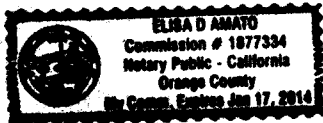
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California }
 }
 County of Orange }

On **November 3, 2010** before me, **Elisa D Amato**, Notary Public

personally appeared **John Kookootsedes**

who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.



Place Notary Seal Above

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Elisa D Amato*
 Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document

Description of Attached Document

Title or Type of Document: Number of Pages:

Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name:

- Individual
- Corporate Officer – Title(s):
- Partner - Limited General
- Attorney-in-Fact
- Guardian or Conservator
- Other:

RIGHT THUMBPRINT
OF SIGNER

Signer is Representing:

Signer's Name:

- Individual
- Corporate Officer – Title(s):
- Partner - Limited General
- Attorney-in-Fact
- Guardian or Conservator
- Other :

RIGHT THUMBPRINT
OF SIGNER

Signer is Representing:

POWER OF ATTORNEY FOR
DEVELOPERS SURETY AND INDEMNITY COMPANY
INDEMNITY COMPANY OF CALIFORNIA
PO Box 19725, IRVINE, CA 92623 (949) 263-3300

KNOW ALL MEN BY THESE PRESENTS, that as except as expressly limited, DEVELOPERS SURETY AND INDEMNITY COMPANY and INDEMNITY COMPANY OF CALIFORNIA, do each, hereby make, constitute and appoint:

*****John Kookootsedes, Brad L. Settgast, jointly or severally*****

as their true and lawful Attorney(s)-in-Fact, to make, execute, deliver and acknowledge, for and on behalf of said corporations, as sureties, bonds, undertakings and contracts of suretyship giving and granting unto said Attorney(s)-in-Fact full power and authority to do and to perform every act necessary, requisite or proper to be done in connection therewith as each of said corporations could do, but reserving to each of said corporations full power of substitution and revocation, and all of the acts of said Attorney(s)-in-Fact, pursuant to these presents, are hereby ratified and confirmed.

This Power of Attorney is granted and is signed by facsimile under and by authority of the following resolutions adopted by the respective Board of Directors of DEVELOPERS SURETY AND INDEMNITY COMPANY and INDEMNITY COMPANY OF CALIFORNIA, effective as of January 1st, 2008.

RESOLVED, that the chairman of the Board, the President and any Vice President of the corporation be, and that each of them hereby is, authorized to execute Powers of Attorney, qualifying the attorney(s) named in the Powers of Attorney to execute, on behalf of the corporations, bonds, undertakings and contracts of suretyship; and that the Secretary or any Assistant Secretary of the corporations be, and each of them hereby is, authorized to attest the execution of any such Power of Attorney;

RESOLVED, FURTHER, that the signatures of such officers may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures shall be valid and binding upon the corporations when so affixed and in the future with respect to any bond, undertaking or contract of suretyship to which it is attached.

IN WITNESS WHEREOF, DEVELOPERS SURETY AND INDEMNITY COMPANY and INDEMNITY COMPANY OF CALIFORNIA have severally caused these presents to be signed by their respective Vice President and attested by their respective Assistant Secretary this January 1st, 2008.

By: *Stephen T. Pate*
Stephen T. Pate, Senior Vice President

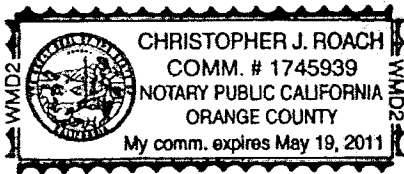
By: *Charles L. Day*
Charles L. Day, Assistant Secretary



State of California
County of Orange

On January 1st, 2008 before me, Christopher J. Roach, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Stephen T. Pate and Charles L. Day
Name(s) of Signer(s)



Place Notary Seal Above

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Christopher J. Roach*
Christopher J. Roach

CERTIFICATE

The undersigned, as Assistant Secretary, of DEVELOPERS SURETY AND INDEMNITY COMPANY and INDEMNITY COMPANY OF CALIFORNIA, does hereby certify that the foregoing Power of Attorney remains in full force and has not been revoked, and furthermore, that the provisions of the resolutions of the respective Boards of Directors of said corporations set forth in the Power of Attorney, are in force as of the date of this Certificate.

This Certificate is executed in the City of Irvine, California, the 3rd day of November, 2010

By: *Albert Hillebrand*
Albert Hillebrand, Assistant Secretary

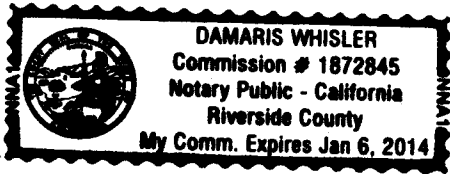
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Riverside }

On November 9, 2010 before me, Damaris Whisler, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Michael Ellefsen
Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Signature]
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Bid Bond

Document Date: November 9, 2010 Number of Pages: (one) 1

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____ Signer's Name: _____

- | | | | |
|---|---|---|---|
| <input type="checkbox"/> Corporate Officer — Title(s): _____ <input type="checkbox"/> Individual <input type="checkbox"/> Partner — <input type="checkbox"/> Limited <input type="checkbox"/> General <input type="checkbox"/> Attorney in Fact <input type="checkbox"/> Trustee <input type="checkbox"/> Guardian or Conservator <input type="checkbox"/> Other: _____ | <p style="text-align: center; margin: 0;">RIGHT THUMBPRINT OF SIGNER</p> <p style="text-align: center; margin: 0; font-size: small;">Top of thumb here</p> | <input type="checkbox"/> Corporate Officer — Title(s): _____ <input type="checkbox"/> Individual <input type="checkbox"/> Partner — <input type="checkbox"/> Limited <input type="checkbox"/> General <input type="checkbox"/> Attorney in Fact <input type="checkbox"/> Trustee <input type="checkbox"/> Guardian or Conservator <input type="checkbox"/> Other: _____ | <p style="text-align: center; margin: 0;">RIGHT THUMBPRINT OF SIGNER</p> <p style="text-align: center; margin: 0; font-size: small;">Top of thumb here</p> |
|---|---|---|---|

Signer Is Representing: _____ Signer Is Representing: _____

DAMARIS WHISLER
Commission # 1872842
Notary Public - California
Riverside County
My Comm Expires Jan 6, 2014



AFFIDAVIT FOR CORPORATE CONTRACTOR

MICHAEL ELLEFSON

declares as follows:

That he or she is CORPORATE SECRETARY
of TEAM WEST CONTRACTING CORP

a corporation which is the party making the foregoing proposal or bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the County of Riverside or anyone interested in the proposed CONTRACT; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I declare, under penalty of perjury, that the foregoing is true and correct.

Dated this 9 day of NOVEMBER, 2010, at
CORONA, California.

Signature of affiant: Michael Ellefson

NOTE: Notarization of signature required

See attached

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

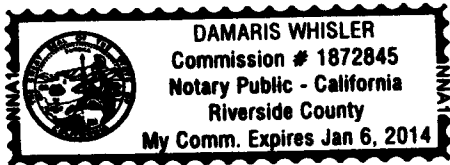
State of California

County of Riverside }

On November 9, 2010 before me, Damaris Whisler, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Michael Ellefson
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Dhuse
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Affidavit for Corporate Contractor

Document Date: November 9, 2010 Number of Pages: (one)

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____ Signer's Name: _____

Corporate Officer — Title(s): _____ Corporate Officer — Title(s): _____

Individual Partner — Limited General Individual Partner — Limited General

Attorney in Fact Attorney in Fact

Trustee Trustee

Guardian or Conservator Guardian or Conservator

Other: _____ Other: _____

Signer Is Representing: _____ Signer Is Representing: _____

My Comm. Expires Jan 6 2014
Riverside County
Notary Public - California
Commission # 1875842
TAMARA WHISLER



DBE LETTER OF INTENT

Name of bidder/offeror's firm: TEAM WEST CONTRACTING COOP

Address: 1151 Panama Rd Ste 5

City: CORONA State: CA Zip: 92882

Name of DBE firm: TEAM WEST CONTRACTING COOP

Address: 1151 Panama Rd Ste 5

City: CORONA State: CA Zip: 92882

Telephone: 951-340-3426

Description of work to be performed by DBE firm:

Project management, Airfield Safety and Traffic Control

The bidder/offeror is committed to utilizing the above-named DBE firm for the work described above. The estimated dollar value of this work is \$ 125,000.

AFFIRMATION

The above-named DBE firm affirms that it will perform the portion of the CONTRACT for the estimated dollar value as stated above.

By Michael Ellerson CORPORATE SECRETARY
(Signature) (Title)

If the bidder/offeror does not receive award of the prime CONTRACT, any and all representations in this Letter of Intent and Affirmation shall be null and void.

(Submit this page for each DBE subcontractor within ten (10) days of request.)

BIDDER'S STATEMENT ON

PREVIOUS CONTRACTS

SUBJECT TO EEO CLAUSE

Each bidder, prospective prime CONTRACTOR, and proposed subcontractor must complete the following form:

The Bidder (Proposer) shall complete the following statement by checking the appropriate boxes.

The Bidder (Proposer) has has not participated in a previous contract subject to the equal opportunity clause prescribed by Executive Order 10925, or Executive Order 11114, or Executive Order 11246.

The Bidder (Proposer) has has not submitted all compliance reports in connection with any such contract due under the applicable filing requirements; and that representations indicating submission of required compliance reports signed by proposed subcontractors will be obtained prior to award of subcontracts.

If the Bidder (Proposer) has participated in a previous contract subject to the equal opportunity clause and has not submitted compliance reports due under applicable filing requirements, the Bidder (Proposer) shall submit a compliance report on Standard Form 100, "Employee Information Report EEO -1", prior to the award of CONTRACT.

NOVEMBER 9, 2010

Date

Michael Ellefson
CORPORATE SECRETARY
Signature and Title

DESIGNATION OF SUBCONTRACTORS

Each bidder shall set forth below: (a) The name and the location of the place of business of each subcontractor who will perform work or labor or render service to the CONTRACTOR in or about the construction of the work in an amount in excess of one-half (1/2) of one percent (1%) of THE CONTRACTOR'S total bid; and (b) The portion of the work which will be done by each subcontractor.

If the CONTRACTOR fails to specify a subcontractor for any portion of the work as above stated he agrees to perform that work himself. The CONTRACTOR shall not, without written consent of the OWNER, make any substitution, alterations, or additions to the following list of subcontractors which is made a part of this proposal.

1. NAME: EXTREME PRESSURE SYSTEM INC
ADDRESS: 539 CALLE SAN PABLO, CAMARILLO CA 93012
CONTRACT ITEMS: 3, 4, 22 and A-2 & A-7 AMOUNT: \$ 58,354

2. NAME: FAR WEST PAVING
ADDRESS: 740 S. VAN BURON, STOC PLACENTIA, CA 92870
CONTRACT ITEMS: 5, 6, 7, 8, 9, 10, 11, 13, 21 A3-A4-A6 AMOUNT: \$ 281,923.25

3. NAME: PRISTIGA STRIPING SERVICES, INC
ADDRESS: 1054 RAILROAD ST CORONA, CA 92882
CONTRACT ITEMS: 22 and A-7 AMOUNT: \$ 10,350.00

4. NAME: WESTERN EMULSION
ADDRESS: 3 MONARCH PLAZA SUITE 210 DANA POINT, CA 92629
CONTRACT ITEMS: 12, A-5 AMOUNT: \$ 33,400

5. NAME: _____
ADDRESS: _____
CONTRACT ITEMS: _____ AMOUNT: \$ _____

6. ATTACH ADDITIONAL SHEET(S) IF MORE THAN 6 SUBCONTRACTORS ARE TO BE USED.

QUESTIONNAIRE

Has the bidder, any officer of the bidder, or any employee of the bidder who has a proprietary interest in the bid-der, ever been disqualified, removed, or otherwise prevented from bidding on, or completing a Federal, State, or local government project because of a violation of law or a safety regulation?

Yes _____ No X

If the answer is yes, attach an explanation of the circumstances.

Signed Michael Ellefson

CERTIFICATION TO BE SUBMITTED BY FEDERALLY ASSISTED CONSTRUCTION CONTRACTORS OF APPLICANTS AND THEIR SUBCONTRACTORS (APPLICABLE TO FEDERALLY ASSISTED CONSTRUCTION CONTRACTS AND RELATED SUBCONTRACTS EXCEEDING \$10,000 WHICH ARE NOT EXEMPT FROM THE EQUAL OPPORTUNITY CLAUSE).

CERTIFICATION OF NONSEGREGATED FACILITIES

The Federally-assisted construction CONTRACTOR certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The Federally-assisted construction CONTRACTOR certifies further that they will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The Federally-assisted construction CONTRACTOR agrees that a breach of this certification is a violation of the equal opportunity clause in this CONTRACT. As used in this certification, the term "segregated facilities" means any waiting room, work areas, rest rooms and washrooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex or national origin, because of habit, local custom, or any other reason. The Federally-assisted construction CONTRACTOR agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause, and that he will retain such certifications in his files.

November 9, 2010

Date

Mickael Ellefson

Signature and Title

CORPORATE SECRETARY

26-4678566

IRS Employer Identification Number

CERTIFICATION OF BIDDER REGARDING

AFFIRMATIVE ACTION PROGRAM

The bidder hereby certifies that he is in compliance with the Civil Rights Act of 1964, Executive Order No. 11246, Employment Practices Act, and any other applicable Federal and State laws and regulations relating to equal opportunity employment.

Bidder's Name: TEAM WEST CONTRACTING CORP.

Address: 1151 POMONA RD STE J, CORONA CA 92882

Name and Title of Signer: MICHAEL ELLEFSON
CORPORATE SECRETARY

NOVEMBER 9, 2010
Date

Michael Ellefson
Signature

NOTE:

The CONTRACTOR to whom the CONTRACT is awarded shall submit a statement each month certifying that he is in conformance with the Affirmative Action Program.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) UTILIZATION

The undersigned bidder/offeror has satisfied the requirements of the Bid SPECIFICATION in the following manner (please check the appropriate space):

_____ The bidder/offeror is committed to a minimum of 21.5 % DBE utilization on this CONTRACT.

_____ If unable to meet the DBE goal of 12 percent (12%), the bidder/offeror is committed to a minimum of _____ % DBE utilization on this CONTRACT and submits documentation demonstrating good faith efforts.

Name of bidder/offeror's firm: TEAM WEST CONTRACTING CORP

State Registration No.: SDUOSB

By: Mickael Ellefson

Title: Corporate Secretary

LIST OF DBE SUBCONTRACTORS

CONTRACT AMOUNT

| LIST OF DBE SUBCONTRACTORS | CONTRACT AMOUNT |
|---|------------------------------|
| 1. <u>TEAM WEST CONTRACTING</u> Name | <u>951-340-3426</u> Phone |
| | <u>\$ 125,000</u> |
| 2. _____ Name | _____ Phone |
| | \$ _____ |
| 3. _____ Name | _____ Phone |
| | \$ _____ |
| 4. _____ Name | _____ Phone |
| | \$ _____ |
| 5. _____ Name | _____ Phone |
| | \$ _____ |
| 6. _____ Name | _____ Phone |
| | \$ _____ |
| 7. _____ Name | _____ Phone |
| | \$ _____ |
| 8. _____ Name | _____ Phone |
| | \$ _____ |

CERTIFICATION REGARDING FOREIGN TRADE RESTRICTIONS

The CONTRACTOR or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

- a. is not owned or controlled by one or more citizens or nationals of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. has not knowingly entered into any contract or subcontract for this PROJECT with a contractor that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
- c. has not procured any product nor subcontracted for the supply of any product for use on the PROJECT that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If the CONTRACTOR knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use on the PROJECT, the Federal Aviation Administration may direct, through the SPONSOR, cancellation of the CONTRACT at no cost to the Government.

Further, the CONTRACTOR agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in each contract and in all lower tier subcontracts. The CONTRACTOR may rely upon the certification of a prospective subcontractor unless it has knowledge the certification is erroneous.

The CONTRACTOR shall provide immediate written notice to the SPONSOR if the CONTRACTOR learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The subcontractor agrees to provide immediate written notice to the CONTRACTOR, if at any time it learns that its certification was erroneous by reason of changed circumstances.

This certification is a material representation of fact upon which reliance was placed when making the award. If it is later determined that the CONTRACTOR or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct, through the SPONSOR, cancellation of the CONTRACT or subcontract for default at no cost to the Government.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

NOVEMBER 9, 2010

Date

Michael Ellefson

Signature

CERTIFICATION REGARDING FOREIGN TRADE RESTRICTIONS

The CONTRACTOR or subcontractor, by submission of an offer and/or execution of a contract, certifies that it:

- a. is not owned or controlled by one or more citizens or nationals of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);
- b. has not knowingly entered into any contract or subcontract for this PROJECT with a contractor that is a citizen or national of a foreign country on said list, or is owned or controlled directly or indirectly by one or more citizens or nationals of a foreign country on said list;
- c. has not procured any product nor subcontracted for the supply of any product for use on the PROJECT that is produced in a foreign country on said list.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to a contractor or subcontractor who is unable to certify to the above. If the CONTRACTOR knowingly procures or subcontracts for the supply of any product or service of a foreign country on said list for use on the PROJECT, the Federal Aviation Administration may direct, through the SPONSOR, cancellation of the CONTRACT at no cost to the Government.

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This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

NOVEMBER 9, 2010

Date

Michael Ellsper

Signature

DISADVANTAGED BUSINESS ENTERPRISE (DBE) UTILIZATION

The undersigned bidder/offeror has satisfied the requirements of the Bid SPECIFICATION in the following manner (please check the appropriate space):

_____ The bidder/offeror is committed to a minimum of _____% DBE utilization on this CONTRACT.

_____ If unable to meet the DBE goal of 12 percent (12%), the bidder/offeror is committed to a minimum of _____% DBE utilization on this CONTRACT and submits documentation demonstrating good faith efforts.

Name of bidder/offeror's firm: _____

State Registration No.: _____

By: _____ Title: _____

| LIST OF DBE SUBCONTRACTORS | | CONTRACT AMOUNT |
|----------------------------|-------------|-----------------|
| 1. _____ Name | _____ Phone | \$ _____ |
| 2. _____ Name | _____ Phone | \$ _____ |
| 3. _____ Name | _____ Phone | \$ _____ |
| 4. _____ Name | _____ Phone | \$ _____ |
| 5. _____ Name | _____ Phone | \$ _____ |
| 6. _____ Name | _____ Phone | \$ _____ |
| 7. _____ Name | _____ Phone | \$ _____ |
| 8. _____ Name | _____ Phone | \$ _____ |

BUY AMERICAN CERTIFICATE (Jan. 1991)

By submitting a bid/proposal under this solicitation, except for those items listed by the offeror below or on a separate and clearly identified attachment to this bid/proposal, the offeror certifies that steel and each manufactured product, is produced in the United States (as defined in the clause - Buy American Steel and Manufactured Products or Buy American Steel and Manufactured Products For Construction Contracts) and that components of unknown origin are considered to have been produced or manufactured outside the United States.

A list of articles, materials, and supplies excepted from this provision is contained in Division II, Section 1, Paragraph 1-7.

PRODUCT

COUNTRY OF ORIGIN

| PRODUCT | COUNTRY OF ORIGIN |
|---------|-------------------|
| | |
| | |
| | |
| | |
| | |

11 POMONA RD. SUITE J.

CORONA, CA 92882

THE CLERK OF THE BOARD OF SUPERVISORS,

COUNTY OF RIVERSIDE

4080 LEMON ST., 1ST FLOOR

RIVERSIDE CALIFORNIA 92501

HEMET-RYAN AIRPORT

AIP PROJECT NO. 3-06-0104-011-2010

APRON REHABILITATION PROJECT

BID OPENING: NOVEMBER 9, 2010, AT 2:00 P.M.

SEALED BID RECEIVED
CLERK OF THE BOARD OF SUPERVISORS

RECEIVED RIVERSIDE COUNTY
CLERK / BOARD OF SUPERVISOR

2010 NOV -9 PM 1:40

