



# COUNTY OF EL DORADO DEPARTMENT OF TRANSPORTATION

## FIRST AMENDMENT TO AGREEMENT FOR CONSTRUCTION SERVICES AGREEMENT #205-C1811

**THIS FIRST AMENDMENT** to that Agreement for Construction Services made and entered into by and between the **COUNTY OF EL DORADO**, a political subdivision of the State of California, acting through the governing body or board thereof (hereinafter referred to as "County"), and, **AMERICAN PAVEMENT SYSTEMS, INC.**, a corporation duly qualified to conduct business in the State of California, whose principal place of business is 1012 11<sup>th</sup> Street, Suite 1000, Modesto, California 95354 and whose local office address is 25455 Highway 99, Acampo, California 95220 (hereinafter referred to as "Contractor");

### RECITALS

**WHEREAS**, Contractor has been engaged by County to provide various types of road surface treatments on an as-needed basis for Community Development Services, Department of Transportation, pursuant to Agreement for Services #205-C1811, dated September 19, 2017, incorporated herein and made by reference a part hereof (hereinafter referred to as "Agreement");

**WHEREAS**, the parties hereto desire to replace **Exhibit A, Surface Treatment Specifications**, with **Amended Exhibit A, Amended Surface Treatment Specifications**, to modify specifications based on updated information, amending **ARTICLE 2, The Work**;

**WHEREAS**, the parties hereto desire to amend the Agreement to adjust the hours needed for advance notification of the Work, amending **ARTICLE 4, Project Coordination and Schedule**;

**WHEREAS**, the parties hereto desire to amend the Agreement to increase the not-to-exceed compensation amount of the Agreement by \$1,000,000, amending **ARTICLE 5, Contract Price**;

**NOW, THEREFORE**, in consideration of the foregoing and the mutual promises and covenants hereinafter contained, County and Consultant mutually agree to amend the terms of the Agreement in this First Amendment to the Agreement as follows:

**Section 2, The Work, first paragraph is amended to read as follows:**

Contractor agrees to furnish all tools, equipment, vehicles, apparatus, facilities, labor, materials, supplies, and services to provide various types of road surface treatments, on an as-needed basis, as shown in Amended Exhibit A, marked "Amended Surface Treatment Specifications," incorporated herein and made by reference a part hereof, and all other work as called for, and in the manner designated in, and in strict conformance with the Contract Documents adopted by County as prepared by the Contract Administrator or Project Manager, which includes the terms Engineer and Architect. The Work shall be performed in accordance with all of the terms and conditions of the Contract Documents.

**Section 4, Project Coordination and Schedule, is amended in its entirety to read as follows:**

**4. Project Coordination and Schedule**

Notification of the Work to residents shall be provided by Contractor not less than seventy-two (72) hours in advance and shall consist of door hangers at each of the individual residences and notices posted on barricades.

**Section 5, Contract Price, second paragraph is amended to read as follows:**

The total amount of this Agreement shall not exceed \$3,000,000, inclusive of all Work Orders, costs, and expenses.

Except as herein amended, all other parts and sections of Agreement for Construction Services #205-C1811 shall remain unchanged and in full force and effect.

**Requesting Contract Administrator Concurrence:**

By: \_\_\_\_\_  
Brian Mullens  
Deputy Director  
Maintenance and Operations Division  
Community Development Services  
Department of Transportation

Dated: \_\_\_\_\_

**Requesting Department Concurrence:**

By: \_\_\_\_\_  
Rafael Martinez, Director  
Community Development Services  
Department of Transportation

Dated: \_\_\_\_\_

IN WITNESS WHEREOF, the parties hereto have executed this First Amendment to the Agreement on the dates indicated below.

**-- COUNTY OF EL DORADO --**

By: \_\_\_\_\_

Dated: \_\_\_\_\_

Board of Supervisors  
"COUNTY"

Attest:  
James S. Mitrison  
Clerk of the Board of Supervisors

By: \_\_\_\_\_  
Deputy Clerk

Dated: \_\_\_\_\_

**-- AMERICAN PAVEMENT SYSTEMS, INC. --**

By: \_\_\_\_\_  
Mike Marchini  
Slurry Division Manager  
"CONTRACTOR"

Dated: \_\_\_\_\_

By: \_\_\_\_\_  
Ryan Bangle  
Senior Project Manager

Dated: \_\_\_\_\_

# American Pavement Systems, Inc.

## Amended Exhibit A

### Amended Surface Treatment Specifications

#### Rubber Modified Asphalt Chip Seal Specifications

##### 1. General

###### 1.1. Scope

This work consists of constructing a chip seal with rubber modified asphalt binder.

###### 1.2. Definitions

Scrap tire crumb rubber:

Any combination of:

1. Automobile tires
2. Truck tires
3. Tire buffing

###### 1.3. Submittals

Contractor shall comply with all federal, state, and local environmental laws, rules, regulations, and ordinances including, but not limited to, air quality requirements.

At least five (5) days before use, Contractor shall submit to County, the permit issued by the local air district for rubber modified binder application equipment. If an air quality permit is not required by the local air district for applying rubber modified binder, Contractor shall submit verification, from the local air district, that an air quality permit is not required.

At least ten (10) days before starting any rubber modified asphalt chip seal activities, Contractor shall submit to County, the name of an authorized laboratory to perform Quality Control (QC) testing. The authorized laboratory shall comply with the Caltrans Independent Assurance Program or possess current American Association of State Highway and Transportation Officials (AASHTO) Material Reference Laboratory (AMRL) accreditation for all American Society for Testing and Materials (ASTM) and AASHTO tests required in Section 2.

Contractor shall submit a certified volume or weight slip for each delivery of rubber modified asphalt binder.

At least fourteen (14) days before use, Contractor shall submit:

1. Four (4) each one-quart cans of rubber modified rubber modified asphalt binder
2. Safety Data Sheets (SDS) for each hazardous material
3. Rubber modified asphalt binder formulation, including:
  - 3.1. Each source and type of crumb rubber modifier
  - 3.2. Percentage of crumb rubber modifier by total weight of rubber modified asphalt binder

4. Test results

- 4.1. Certificate of Compliance showing the rubber modified asphalt binder is the required Performance Grade (PG)
- 4.2. Certificate of Compliance showing each source of crumb rubber modifier is derived from automobile and/or truck tires
- 4.3. Test results showing the screenings meets the requirements in Tables 1 and 2

**1.4. Quality Control Program**

Contractor shall develop, implement, and maintain a QC program.

Contractor shall prepare and maintain QC records, including:

- 1. Names and qualifications of:
  - 1.1. Samplers
  - 1.2. Testers
  - 1.3. Inspectors
- 2. Testing laboratories
- 3. Testing equipment calibrations and certifications
- 4. Construction inspection reports
- 5. Sampling and testing records organized by date and type of material
- 6. Test results with comparison of quality characteristic requirements
- 7. Test results in relation to action and any suspension limits
- 8. Records of corrective actions and suspensions

Within twenty-four (24) hours, Contractor shall notify County's Contract Administrator of any noncompliance issues identified by the QC program.

Within ten (10) days of beginning the modified binder seal coat operation, Contractor's independent testing laboratory shall conduct the Vialit Test Method for aggregate in Chip Seals French Chip for the retention requirement and submit a signed copy of a test results report to County's Contract Administrator. The report shall not be considered for acceptability testing. The Vialit Test Method can be reviewed at: <http://www.dot.ca.gov/hq/esc/ctms/index.html>

**1.5. Quality Control Manager**

Contractor shall assign a QC manager before the start of the affected work. The QC manager shall receive, review, and approve all correspondence, submittals, and reports relating to the QC of materials before they are submitted to County's Contract Administrator. The QC manager shall be the sole individual responsible for:

- 1. Signing the QC plan
- 2. Implementing the QC plan
- 3. Maintaining the QC records

The QC manager shall be Contractor's employee or shall be hired by a subcontractor providing only QC services. The QC manager shall not be employed or compensated by a subcontractor or by any other persons or entities hired by subcontractors who will provide services or material for the project.

**2. Materials**

**2.1. Rubber Modified Asphalt Binder**

Unless County and Contractor determine a different rubber modified asphalt binder would work better for the road condition, or would better advance the objectives of Streets and Highway Code Section 2030, the Rubber modified asphalt binder shall be PG 64-16 M with a minimum of eighteen percent (18%) scrap tire rubber that meets the requirements in Section 92 of the current Caltrans Standard Specifications. The solubility requirement is waived if the Dynamic Shear Rheometer test on original binder result ( $G^*/\sin(\delta)$ ) at 64° C is less than or equal to 2.00 kPa.

**2.2. Screenings**

Screenings for rubber modified asphalt chip seal shall comply with the screenings gradation requirements shown in Table 1.

**Table 1: Rubber Modified Asphalt Chip Seal Screenings Gradation**

Percentage passing by weight	
Sieve Size	Medium
3/4 inch	100
1/2 inch	95-100
3/8 inch	70-85
No. 4	0-15
No. 8	0-5
No. 16	---
No. 200	0-1

The screenings shall also comply with the requirements shown in Table 2.

**Table 2: Rubber Modified Asphalt Chip Seal Screenings Requirements**

Quality Characteristic	Test Method	Requirement
Cleanness Value (min)	California Test 227	80
Durability (min)	California Test 229	52
Los Angeles Rattler Loss (100 Revolutions, %, max)	ASTM C 131	10
Los Angeles Rattler Loss (500 Revolutions, %, max)		40
Film Stripping (%, max)	California Test 302	25

### 3. Quality Control

#### 3.1. Rubber Modified Asphalt Binder

Contractor shall submit to County, a Certificate of Compliance for each truckload of rubber modified asphalt binder delivered to the jobsite.

#### 3.2. Screenings

Contractor shall sample and test each stockpile of uncoated screenings. Contractor shall make all stockpiles available to County for quality assurance testing and notify County's Contract Administrator a minimum of one (1) full working day prior to pre-coating. Contractor shall maintain discrete stockpiles at the asphalt plant.

Contractor shall test the quality characteristics of screenings under the test methods and frequencies shown in Table 3.

**Table 3: Screenings QC Testing**

Quality Characteristics	Test Method	Frequency
Gradation	ASTM C 136	One (1) per day per stockpile <sup>a</sup>
Cleanness value	California Test 227	
Durability	California Test 229	

<sup>a</sup> Contractor is required to test the stockpiles from which the screenings for that day's work are being taken from.

### 4. Construction

#### 4.1. Equipment

##### 4.1.1. Placing/Finishing Rubber Modified Asphalt Chip Seal

Self-propelled distributor truck for applying rubber modified asphalt binder shall have the following features:

1. Heating unit
2. Internal mixing unit
3. Pumps that spray rubber modified asphalt binder within 0.05 gal/sq yd of the specified rate
4. Fully circulating spray bar that applies rubber modified asphalt binder uniformly
5. Tachometer
6. Pressure gauges
7. Volume measuring devices
8. Thermometer
9. Observation platform on the rear of the truck for an observer on the platform to see the nozzles and unplug them if needed.

Contractor shall use self-propelled power brooms that clean the existing pavement and remove loose screenings without dislodging screenings set in the rubber modified asphalt binder.

Pneumatic tire rollers shall be self-propelled and reversible. Pneumatic tires shall be of equal size, diameter, type, and ply. The roller shall carry at least 1,500 lbs. of load on each wheel, and each tire shall have an air pressure of  $100 \pm 5$  psi. Steel wheel rollers shall be self-propelled and reversible. The roller shall be operated in stated mode at all times and shall not exceed ten (10) tons in weight.

The screenings haul trucks shall have tailgates that discharge screenings and devices to allow locking onto the rear screenings spreader hitch. The dump beds shall not push down on the spreader when fully raised. Dump beds shall not spill screenings on the roadway when transferred to the spreader hopper. All haul trucks shall have tarpaulins to cover precoated screenings.

The self-propelled screenings spreader shall have a screenings hopper in the rear, belt conveyors that carry the screenings to the front, and a spreading hopper capable of providing a uniform screening spread rate over the entire width of the traffic lane in one (1) application.

#### **4.2. Surface Preparation**

Contractor shall furnish, place, maintain, and remove temporary pavement delineation in accordance with provisions in Section 12 of the current Caltrans Standard Specifications and Special Provisions. Nothing in the Special Provisions shall be construed as to reduce the minimum standards specified in the "Manual of Uniform Traffic Control Devices" and the California Supplement or as relieving Contractor from its responsibility, as provided in Section 7-1.04, "Public Safety," of the Caltrans Standard Specifications.

Contractor shall remove any existing traffic stripes, markings, crosswalks, stop bars, legends, and raised pavement markers in areas to receive rubber modified asphalt chip seal as required by the plans or project specifications. Removal shall be done by grinding and disposing of by Contractor. Grinding operations shall be conducted to keep all removed pavement material from entering the storm drain system.

Existing pavement striping, markings, or markers which are outside the work area and not to be removed, shall be protected by Contractor. Any striping, markings, or markers damaged or rendered useless by Contractor's operations shall be restored by Contractor to County's satisfaction and at Contractor's expense.

Before applying rubber modified asphalt binder, Contractor shall cover manholes, valve and monument covers, grates, or other exposed facilities located within the area of application with plastic or oil-resistant construction paper secured by tape or adhesive to the facility being covered. Contractor shall reference the covered facilities with enough control points to locate the facilities after the application of the rubber modified asphalt



chip seal. Contractor shall remove coverings promptly to return the facilities to service prior to the end of the same shift the seal coat is placed.

Immediately before applying the rubber modified asphalt binder, Contractor shall clean and completely dry the pavement surface. Contractor shall perform sweeping, flushing, or other means necessary to remove all loose particles of paving, all dirt, and all extraneous material. Contractor shall clean all streets from face of curb to face of curb in the project area as necessary to ensure the pavement surface is sufficiently cleaned to provide for a bond between the existing pavement surface and seal coat. Any cleaning of the pavement surface immediately before placing rubber modified asphalt chip seal shall be performed without water. The application of rubber modified asphalt binder on any street shall not proceed until County has approved the street cleaning.

In the event that a scheduled street should become wet due to fog, rain, or any other reason, the placement of rubber modified asphalt chip seal shall be suspended until the surface has completely dried, as determined by County.

Contractor shall remove all vegetation material growing in the street or on the interface of the asphalt surface with the lip of concrete gutter prior to placing rubber modified asphalt binder.

The removal of all existing pavement markings and traffic stripes shall occur no sooner than two (2) calendar days prior to the day that the rubber modified chip seal is to be placed.

If Contractor uses sweeping equipment to clean the streets, Contractor shall perform a minimum of two (2) complete passes over all pavement surfaces. In the event County determines that two (2) passes are not adequate, Contractor shall re-sweep designated areas as necessary to achieve the appropriate level of pavement cleaning. Completion of sweeping shall be evidence by the absence of all loose particles of paving, all dirt, sand, gravel, leaves, and all other extraneous material. Street sweeping equipment shall be a vacuum sweeper, or approved equal, in a sufficiently maintained condition to accomplish the sweeping goals of the project. Pavement surfaces missed by or inaccessible to broom sweepers shall be swept clean by other methods that are approved by County. Contractor shall provide flushing, compressed air, or other cleaning methods necessary to remove all dirt, vegetation, and loose material from the pavement.

Prior to the application of the rubber modified asphalt chip seal, Contractor shall completely remove all grease and oil spots deposited by parked cars in the area of work. Grease build up greater than 1/32 of an inch shall be removed by scrapping or other mechanical methods. The application of rubber modified asphalt binder on any street shall not proceed until County has approved the removal of all grease and oil spots.

#### **4.3. Precoating Screenings**

Precoating of screenings is required. Precoating of screenings shall be performed at a central mixing plant.

Contractor shall not recombine fine materials collected in dust control systems except from primary dust collection devices such as cyclone collectors or knock-out boxes with any other aggregate used in the production of screenings.

For rubber modified asphalt chip seal, screenings shall be preheated from 260 to 325 degrees Fahrenheit (F). Contractor shall coat with any of the asphalts specified in the table titled, "Performance Graded Asphalt Binder," in Section 92 of the current Caltrans Standard Specifications. The asphalt shall be one (1.0) percent by weight of dry screenings.

Do not stockpile preheated and/or precoated screenings.

#### **4.4. Rubber Modified Asphalt Binder Application**

The rubber modified asphalt binder may only be applied if:

1. The pavement temperature is above 55 degrees F.
2. The ambient temperature is from 60 to 105 degrees F.
3. The pavement is clean and dry.
4. Wind conditions are such that uniform rubber modified asphalt binder coverage can be achieved.
5. Rain is not imminent.

Contractor shall apply the rubber modified asphalt binder when the temperature of the preheated rubber modified asphalt binder is between 330 and 375 degrees F, or in accordance with the spray temperature curve provided by binder supplier.

Contractor shall prevent vehicles from driving on rubber modified asphalt binder before spreading screenings.

Contractor shall not apply rubber modified asphalt binder during high wind conditions. If authorized, Contractor may adjust the distributor bar height and distribution speed and use shielding equipment during high wind conditions. However, if the weather conditions do not allow for uniform placement of the rubber modified asphalt binder, County may decide to suspend construction activities by Contractor at no cost to County. Contractor may not resume construction activities until receiving approval from County.

In the course of construction where the rubber modified asphalt binder distributor truck creates a joint by stopping at some point along the length of the roadway, the screenings spreader shall stop short of this joint, leaving a small strip of uncovered rubber modified asphalt binder. This is to prevent an overlapping double thickness joint from being created once work resumes. Transverse joints of this type shall be constructed by spraying the rubber modified asphalt binder on the uncovered rubber modified asphalt binder from the area before the work stopped and proceed along the roadway. All reasonable precautions shall be taken to avoid skips and overlaps at joints. Any defects

shall be corrected at Contractor's expense by use of a shovel and/or broom prior to continuing operations. Contractor shall plan its operations to minimize transverse joints.

The longitudinal joint between adjacent applications of screenings shall coincide with the line between designated traffic lanes. Contractor shall overlap longitudinal joints. The overlap shall be from two (2) to four (4) inches. At longitudinal joints with screenings, Contractor shall broom back and blend the edge to eliminate the differences in elevation. The joints shall be free from ridges and depressions and shall have a uniform appearance consistent with the adjacent sealed surface. Defects shall be corrected at Contractor's expense.

Joints between areas of rubber modified binder without screenings shall be made by Contractor overlapping the rubber modified binder distributions. Contractor shall disperse the excess material by spreading it with a squeegee or rake over a larger area of freshly applied rubber modified binder.

If the rubber modified asphalt chip seal will be applied in a cul-de-sac, Contractor shall submit plans for the construction methods in these areas. Contractor shall submit plans that include, but are not limited to, diagrams showing how the distributor truck and screenings spreader shall move through the work area. Contractor shall submit plans at least five (5) days before any rubber modified asphalt chip seal may be placed in cul-de-sac areas in order to minimize overlapping of the binder. When placing rubber modified asphalt chip seals in the cul-de-sac, Contractor shall cover rubber modified asphalt in screenings within five (5) minutes of application and initial rolling of the screenings shall begin within three (3) minutes after spreading.

The application of rubber modified binder to areas not accessible with the distributor bar on the distributor truck shall be accomplished by Contractor using handheld squeegees or other means approved by County. If Contractor uses County-approved methods, Contractor shall apply the rubber modified asphalt binder at a comparable rate and uniformly as the distributor truck allows in these areas. Contractor shall take care to apply screenings while the binder is still hot enough to allow proper embedment.

Contractor shall apply the rubber modified asphalt binder at the following rates:

For Medium Screenings, from 0.55-0.65 gallons per square yard.

The exact rate shall be determined by the inspector. Contractor shall apply binder to within ten (10) percent of the determined application rate.

All areas of the existing pavement surface that have patching shall be tack coated with conventional emulsion or paving-grade asphalt binder prior to the full application of the rubber modified asphalt chip seal. These areas will be identified by County and Contractor shall tack coat the areas with rubber modified asphalt binder one (1) hour before full application of the rubber modified asphalt chip seal begins.

#### **4.5. Screenings Application**

During transit, Contractor shall cover precoated screenings for rubber modified binder chip seal with tarpaulins, which are fully secured, at all times.

Contractor shall prevent vehicles from driving on rubber modified asphalt binder before spreading screenings.

At the time of application, precoated screenings for rubber modified binder chip seal shall be preheated from 225 to 325 degrees F.

Contractor shall spread screenings at a uniform rate over the full lane width in one (1) application. Contractor shall operate the spreader at speeds slow enough to prevent screenings from rolling over after dropping. If the spreader is not moving, screenings shall not drop. If the spreader stops and screenings drop, Contractor shall remove the excess screenings before resuming activities.

The screenings spreader shall be at an appropriate distance behind the rubber modified asphalt binder distribution truck such that screenings are applied to the rubber modified asphalt binder within one (1) minute. The screenings spreader shall be within a maximum of two hundred (200) feet from the distribution truck at all times.

Spread screenings at the following rates:

For Medium Screenings, from twenty-eight (28) to thirty-two (32) per square yard.

The exact rate shall be determined by the inspector. Contractor shall spread screenings to within ten (10) percent of the determined application rate. The application of the finished rubber modified binder chip seal shall be uniform in appearance and free of defects.

#### **4.6. Rolling and Sweeping**

Contractor shall perform initial rolling within ninety (90) seconds of spreading screenings. Contractor shall not spread screenings more than a maximum of two hundred (200) feet ahead of the initial rolling.

Coverage shall consist of the number of passes a roller needs to cover the width. A pass shall be one (1) roller movement parallel to the rubber modified binder chip seal application in either direction. Overlapping passes are part of the coverage being made and are not part of a subsequent coverage. Contractor shall not start a coverage until completing the previous coverage.

Initial rolling of the rubber modified binder chip seal shall consist of a minimum of one (1) coverage with pneumatic tire rollers. After the initial rolling, a minimum of three (3) coverages with pneumatic tire rollers, shall be made by Contractor on the rubber modified binder chip seal.

After completion of rolling with pneumatic tire rollers, only one (1) coverage shall be performed by Contractor with a steel-wheeled roller, not to exceed ten (10) tons in weight. Contractor's use of steel-wheeled roller shall be immediately discontinued if it fractures the aggregate screenings.

Sweeping shall be a multi-step operation following final rolling of the screenings. Contractor shall perform initial sweepings and remove loose screenings without dislodging the screenings set in the rubber modified binder, prior to acceptance.

Three (3) additional sweepings shall be performed. One (1) calendar day after placement of the rubber modified binder chip seal, Contractor shall perform the first sweeping. The second sweeping shall be performed two (2) calendar days after placement of the rubber modified binder chip seal, and the final sweeping shall occur from five (5) to seven (7) calendar days after placement of the rubber modified binder chip seal. The second and third sweeping will be performed by County.

Contractor shall remove all loose chips from the street surface by sweeping the chips off of the roadway. Contractor shall remove excess screenings before uncontrolled traffic is permitted on the completed rubber modified seal coat. If a broom sweeper is not able to remove excess chips in areas where chips cannot be swept off the roadway, such as a cul-de-sac and areas with curb and gutter, Contractor shall be responsible for removing these chips through the use of a vacuum sweeper or other acceptable means as approved by County.

Contractor shall discontinue immediately, the use of any sweeper that causes damage to the rubber modified binder chip seal coat. Any voids caused by automobile tires, poor adhesion of chips to rubber modified asphalt binder, or any other cause shall be Contractor's responsibility to patch prior to removing traffic control devices, and at no additional cost to County.

Contractor's failure to provide adequate sweeping shall result in County performing said work at Contractor's sole expense, which shall be deducted from any monies due to Contractor. Sweeping by County forces shall not relieve Contractor of any liability arising from its failure to comply with these specifications.

## **5. County Acceptance**

County reserves the right to refuse to permit the use of material solely on the basis of a Certificate of Compliance. Contractor shall allow County or its designee access to observe any QC testing being performed. Contractor shall inform County or its designee of the time and location that the QC testing shall be performed.

County will use Contractor's QC test results to determine if the materials used for the rubber modified chip seal meet the quality characteristic requirements that are specified herein. Contractor shall deliver samples of materials used to County or permit County or its designee access to obtain samples from any stockpiles or facilities used to store or produce materials

used in the rubber modified chip seal, upon request at any time during construction. County reserves the right to have such materials tested by an independent laboratory for compliance with the requirements in Section 2, for verification and acceptance purposes. Contractor may examine the records and test reports that County performs.

County will accept the completed in-place rubber modified chip seal, if the final product is uniform in appearance, free from all visible defects, bumps, areas of poor chip retention, and has been swept to remove all loose chips.

## **6. Payment**

The payment quantity for rubber modified asphalt chip seal is square yard, and such price shall include full compensation for specified surface preparation, removals, sweeping, and sanding if necessary, and for performing all of the work and providing the materials involved in constructing the rubber modified asphalt chip seal completely in place.

Contractor shall submit CalRecycle Form 739-TRP certifying the use of California tires (<http://www.calrecycle.ca.gov/Funding/Forms/Tires/CalRecycle739TRP.pdf>).

## **SLURRY SEAL SPECIFICATIONS**

### **1. Application**

Application of a Type II / Latex Modified Slurry Seal independent of the other surface applications described herein. All materials and application methods shall be in conformance with current Caltrans Standard Specifications, including any amendments thereto. Traffic Control measures shall be adequate for the application of surfacing materials until surfacing materials have sufficiently cured to allow traffic access to resurfaced areas.

### **2. Surface Preparation**

Contractor shall furnish, place, maintain, and remove temporary pavement delineation in accordance with provisions in Section 12 of the current Caltrans Standard Specifications and Special Provisions. Nothing in the Special Provisions shall be construed as to reduce the minimum standards specified in the "Manual of Uniform Traffic Control Devices" and the California Supplement or as relieving Contractor from its responsibility, as provided in Section 7-1.04, "Public Safety," of the Caltrans Standard Specifications.

Contractor shall remove any existing traffic stripes, markings, crosswalks, stop bars, legends, and raised pavement markers in areas to receive rubber modified asphalt chip seal as required by the plans or project specifications. Removal shall be done by grinding and disposing of by Contractor. Grinding operations shall be conducted to keep all removed pavement material from entering the storm drain system.

Existing pavement striping, markings, or markers which are outside the work area and not to be removed, shall be protected by Contractor. Any striping, markings, or markers damaged or rendered useless by Contractor's operations shall be restored by Contractor to County's satisfaction and at Contractor's expense.

Before applying Type II / Latex Modified Slurry Seal, Contractor shall cover manholes, valve and monument covers, grates, or other exposed facilities located within the area of application with plastic or oil-resistant construction paper secured by tape or adhesive to the facility being covered. Contractor shall reference the covered facilities with enough control points to locate the facilities after the application of the Type II / Latex Modified Slurry Seal and shall remove coverings promptly to return the facilities to service prior to the end of the same shift the seal coat is placed.

Immediately before applying the Type II / Latex Modified Slurry Seal, Contractor shall clean and completely dry the surface. Cleaning shall be performed by a vacuum sweeper, flushing, or other means necessary to remove all loose particles of paving, all dirt, and all extraneous material. Contractor shall clean all streets from face of curb to face of curb in the project area as necessary to ensure the pavement surface is sufficiently cleaned to provide for a bond between the existing pavement surface and seal coat. Any cleaning of the pavement surface immediately before placing Type II / Latex Modified Slurry Seal shall be performed without water. The application Type II / Latex Modified Slurry Seal on any street shall not proceed until County has approved the street cleaning.

In the event that a scheduled street should become wet due to fog, rain, or any other reason, the placement of Type II / Latex Modified Slurry Seal shall be suspended until the surface has completely dried, as determined by County.

### **3. Testing**

Contractor shall furnish test reports for aggregate and emulsion used in conjunction with the work to County's Contract Administrator at the time the work is completed.

### **4. Spoils**

Spoils shall be disposed of off-site at no additional cost to County.

## **MICRO SEAL SPECIFICATIONS**

### **1. Application**

Application of a Type II or Type III emulsified asphalt slurry seal is independent of the above surface applications. All materials and application methods shall be in conformance with current Caltrans Standard Specifications, including any amendments thereto. Traffic Control measures shall be adequate for the application of surfacing materials until surfacing materials have sufficiently cured to allow traffic access to resurfaced areas.

### **2. Surface Preparation**

Contractor shall furnish, place, maintain, and remove temporary pavement delineation in accordance with provisions in Section 12 of the current Caltrans Standard Specifications and Special Provisions. Nothing in the Special Provisions shall be construed as to reduce the minimum standards specified in the "Manual of Uniform Traffic Control Devices" and the

California Supplement or as relieving Contractor from its responsibility, as provided in Section 7-1.04, "Public Safety," of the Caltrans Standard Specifications.

Contractor shall remove any existing traffic stripes, markings, crosswalks, stop bars, legends, and raised pavement markers in areas to receive rubber modified asphalt chip seal as required by the plans or project specifications. Removal shall be done by grinding and disposing of by Contractor. Grinding operations shall be conducted to keep all removed pavement material from entering the storm drain system.

Existing pavement striping, markings, or markers which are outside the work area and not to be removed, shall be protected by Contractor. Any striping, markings, or markers damaged or rendered useless by Contractor's operations shall be restored by Contractor to County's satisfaction and at Contractor's expense.

Before applying Type II or Type III emulsified asphalt slurry seal, Contractor shall cover manholes, valve and monument covers, grates, or other exposed facilities located within the area of application with plastic or oil-resistant construction paper secured by tape or adhesive to the facility being covered. Contractor shall reference the covered facilities with enough control points to locate the facilities after the application of the Type II or Type III emulsified asphalt slurry seal and shall remove coverings promptly to return the facilities to service prior to the end of the same shift the seal coat is placed.

Immediately before applying the Type II or Type III emulsified asphalt slurry seal, Contractor shall clean and completely dry the surface. Cleaning shall be performed by a vacuum sweeper, flushing, or other means necessary to remove all loose particles of paving, all dirt, and all out extraneous material. Contractor shall clean all streets from face of curb to face of curb in the project area as necessary to ensure the pavement surface is sufficiently cleaned to provide for a bond between the existing pavement surface and seal coat. Any cleaning of the pavement surface immediately before placing Type II or Type III emulsified asphalt slurry seal shall be performed without water. The application of Type II or Type III emulsified asphalt slurry seal on any street shall not proceed until County has approved the street cleaning.

In the event that a scheduled street should become wet due to fog, rain, or any other reason, the placement of Type II or Type III emulsified asphalt slurry seal shall be suspended until the surface has completely dried as determined by County.

### **3. Testing**

Contractor shall furnish test reports for aggregate and emulsion used in conjunction with the work to County's Contract Administrator at the time the work is completed.

### **4. Spoils**

Spoils shall be disposed of off-site at no additional cost to County.