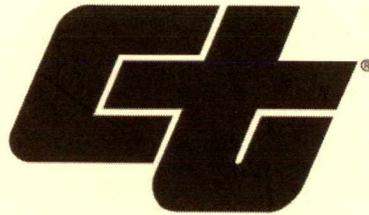


CMY

02 G2



**Caltrans**<sup>®</sup>

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

# BID

FOR CONSTRUCTION ON STATE HIGHWAY IN SISKIYOU COUNTY IN AND NEAR  
YREKA FROM 0.2 MILE NORTH OF JUNIPER DRIVE TO 13TH STREET

In District 02 On Route 3

Under

---

*Notice to Bidders and Special Provisions* dated January 22, 2013

*Standard Specifications* dated 2010

Project plans approved October 29, 2012

*Standard Plans* dated 2010

---

Identified by

Contract No. 02-4F1604

02-Sis-3-R48.3/53.1

Project ID 0212000119

TM

## Electronic Advertising Contract

Bids open Wednesday, February 20, 2013

Dated January 22, 2013  
AADD



C/NV G2

CONTRACT NO. 02-4F1604

NAME OF BIDDER Sierra Nevada Construction, Inc.  
BUSINESS P.O. BOX PO Box 50760  
CITY, STATE, ZIP Sparks, NV 89435  
BUSINESS STREET ADDRESS 2055 E. Greg Street  
(Include even if P.O. Box used)  
CITY, STATE, ZIP Sparks, NV 89431  
TELEPHONE NO: AREA CODE (775) 355-0420  
FAX NO: AREA CODE (775) 355-0535  
CONTRACTOR LICENSE NO. 593393

1. Bidder agrees, if this bid is accepted, to enter into a contract with the Department, in the form included in the Standard Specifications, to perform the work provided in the Contract under the terms of the Contract for the price or prices bid.

For a lump sum or unit price based bid, Bidder additionally agrees to perform the work within the number of working days shown on the *Notice to Bidders*.

For a cost plus time based bid on a contract without a plant establishment period, Bidder additionally agrees to perform the work within the number of working days bid.

For a cost plus time based bid on a contract with a plant establishment period, Bidder additionally agrees to perform the non-plant establishment work within the number of working days bid for non-plant establishment work.

2. For a lump sum based bid, Bidder submits this bid with a total price in the total bid space provided on the Bid Item List. For a unit price or cost plus time based bid, Bidder submits this bid with a unit price and the item total (the product of the unit price and the quantity) for each item and a total price (the sum of the item totals) in the spaces provided on the attached Bid Item List. For a unit price with additive item based bid, Bidder submits this bid with a unit price and an item total for each item and a total base bid (the sum of the item totals) and the additive items in the spaces provided on the attached Bid Item List. Additionally, for a cost plus time based bid, Bidder submits this bid with working days bid for non-plant establishment work, total bid for time, and total bid for bid comparison in the spaces provided on the Bid Item List. Bidder agrees:
  - 2.1. If a discrepancy between the unit price and the item total exists, the unit price prevails except:
    - 2.1.1. If the unit price is illegible, omitted, or the same as the item total, item total prevails and the unit price is the quotient of the item total and the quantity.
    - 2.1.2. If a decimal error is apparent in the product of the unit price and the quantity, the Department will use either the unit price or item total based on the closest by percentage to the unit price or item total in the Department's Final Estimate.
  - 2.2. If the unit price and the item total are illegible or are omitted, the bid may be determined nonresponsive. If a lump sum total price is illegible or is omitted, the bid may be determined nonresponsive.
  - 2.3. Bids on lump sum items are item totals. If a unit price for a lump sum item is entered and it differs from the item total, the item total prevails.
  - 2.4. Entries are to be expressed in dollars or decimal fractions of a dollar. Symbols such as commas and dollar signs are ignored and have no significance in establishing unit price or item total.
  - 2.5. Unit prices and item totals are interpreted by the number of digits and decimal placement. Do not round item totals or the total bid.

- 2.6. For a lump sum based bid, the item total is the bid amount the Department uses for bid comparison.  
For a unit price based bid, the sum of the item totals is the bid amount the Department uses for bid comparison.  
For a cost plus time based bid, the sum of the item totals and the total bid for time is the bid amount the Department uses for bid comparison.

2.7. The Department's decision on the bid amount is final.

3. Bidder has and acknowledges the following addenda:

1, 2

4. Bidder submits this bid with one of the following forms of bidder's security equal to at least 10 percent of the bid:

Cash \$ \_\_\_\_\_, Cashiers Check, Certified Check, Bidder's Bond

5. Bidder's signature is an affirmation of the included certifications. Bidder is cautioned that making a false certification may result in one or more of the following:

- 5.1. Criminal prosecution
- 5.2. Rejection of the bid
- 5.3. Rescission of the award
- 5.4. Termination of the Contract

BY (Authorized Signature)



DATE SIGNED (Do not type)

3/27/13

PRINTED NAME AND TITLE OF PERSON SIGNING

Kevin L. Robertson, President

BID ITEM LIST

92

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070030	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	<del>1,300.00</del> 1,300.00
2	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	<del>8,500.00</del> 8,600.00
3	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	<del>114,865.50</del> 114,865.50
4	128652	PORTABLE CHANGEABLE MESSAGE SIGN (LS)	LS	LUMP SUM	LUMP SUM	<del>2,000.00</del> 2,000.00
5	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	<del>500.00</del> 500.00
6	130200	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	750.00
7	150715	REMOVE THERMOPLASTIC PAVEMENT MARKING	SQFT	1,060	4.15	4,399.00
8	025180	REMOVE PAVEMENT MARKERS	LS	LUMP SUM	LUMP SUM	5,000.00
9	370001	SAND COVER (SEAL)	TON	190	32.00	6,080.00
10	370120	ASPHALT-RUBBER BINDER	TON	250	900.00	225,000.00
11	374004	ASPHALTIC EMULSION (FLUSH COAT)	TON	23	955.00	21,965.00
12	375030	SCREENINGS (HOT-APPLIED)	TON	1,600	30.00	48,000.00
13	390095	REPLACE ASPHALT CONCRETE SURFACING	CY	220	400.00	88,000.00
14	840515	THERMOPLASTIC PAVEMENT MARKING	SQFT	1,690	5.25	8,872.50
15	840560	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)	LF	51,300	0.25	12,825.00
16	025181	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE, 2-COAT)	LF	26,000	0.60	15,600.00
17	850122	PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	EA	1,780	7.50	13,350.00

TOTAL BID:

\$ 577,007.00

TM

# SNC

SIERRA NEVADA CONSTRUCTION, INC.

2055 east greg street  
sparks, nv 89431  
775-355-0420 phone

nv. lic. #25565 ca. lic. #593393

# Fax

<b>To:</b>	<b>From:</b>
<b>Fax:</b>	<b>Pages:</b> 2
<b>Phone:</b>	<b>Date:</b>
<b>Re:</b> SUBLIST 02-4F1604	<b>CC:</b>

- Urgent   
 For Review   
 Please Comment   
 Please Reply   
 Please Recycle

• **Comments:**

---

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**SUBCONTRACTOR LIST**  
 DES-OE-0102.2 (REV 3/2011)

Bidder Name: Sierra Nevada Construction, Inc.

The bidder must identify each subcontractor performing work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater (Pub Cont Code § 4100 et seq.). Complete columns 1 and 4 and submit with the bid. Complete columns 2 and 3 and submit with the bid or fax to (916) 227-6282 within 24 hours after the bid opening. Failure to provide complete information in columns 1 through 4 within the time specified will result in a nonresponsive bid.

Column 1: Business Name and Location	Column 2: Bid Item Nos.	Column 3: Percentage of Bid Item Subcontracted	Column 4: Description of Contracted Work
American Pavement Systems Modesto, Ca	10	46	Asphalt-Rubber Binder Screening (hot applied)
	12	10	
Wells Sweeping Sacramento, Ca	12	10	Sweeping Sweeping
	13	2	
Trucking & DVBE Construction Company Campbell, CA	12	5	Trucking
Apply-A-Line Anderson, CA	3	1.7	Traffic Control
	7	100	Remove Thermo Marking
	8	100	Remove Pavement Markers
	14	100	Thermo Pavement Markings
	15	100	Sprayable Thermo
	16	100	Sprayable Thermo (2 Coat)
	17	100	Recessed Reflectors
Sambrano Traffic Control Wilton, CA	3	10	Traffic Control
	4	100	Portable CMS
	2	100	Construction Area Signs

**ADA Notice** For individuals with sensory disabilities, this document is available in alternative formats. For information call (916) 654-6410 to TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814

**SUBCONTRACTOR LIST**

DES-OE-0102.2 (REV 3/2011)

Bidder Name: Sierra Nevada Construction Inc.

The bidder must identify each subcontractor performing work in an amount in excess of 1/2 of 1 percent of the total bid or \$10,000, whichever is greater (Pub Cont Code § 4100 et seq.). Complete columns 1 and 4 and submit with the bid. Complete columns 2 and 3 and submit with the bid or fax to (916) 227-6282 within 24 hours after the bid opening. Failure to provide complete information in columns 1 through 4 within the time specified will result in a nonresponsive bid.

Column 1: Business Name and Location	Column 2: Bid Item Nos.	Column 3: Percentage of Bid Item Subcontracted	Column 4: Description of Subcontracted Work
American Pavement Systems Modesto, CA			Asphalt Rubber Binder Screening (Hot Applied)
Wells Sweeping Sacramento, CA			Sweeping
Trucking and Dube Construction Campbell, CA			Trucking
Apply-A-Line Anderson, CA			Traffic Control, remove thermo marking, remove pavement markers, thermo pavement markings, sprayable thermo, sprayable thermo (2 coat), recessed reflectors
Sambrano Traffic Control Wilton, CA			Traffic Control, portable CMS, construction area signs

**ADA Notice** For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

TM

**REQUEST FOR SMALL BUSINESS PREFERENCE OR NON-SMALL BUSINESS PREFERENCE**

DES-OE-0102.7 (REV 02/2010)

CONTRACT NO. 02-4F1604

Complete one of the following:

• **Small Business Preference**

The undersigned requests small business preference and certifies, under penalty of perjury, that the firm meets the requirements of 2 CA Code of Regs § 1896 et seq. and is certified as a small business at the time and day of bid opening or has submitted a complete application to the Department of General Services (DGS) and is subsequently certified. The complete application and any required substantiating documentation must be received by DGS by 5:00 p.m. on bid opening date.

Small Business Certification (Reference) Number: \_\_\_\_\_

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

• **Non-Small Business Preference**

The undersigned requests non-small business preference and notifies the Department on the Certified Small Business Listing for the Non-Small Business Preference form that it commits to subcontract at least 25 percent of its bid amount with one or more firms that meets the requirements of 2 CA Code of Regs § 1896 et seq. and the firms are certified as small businesses at the time and day of bid opening or have submitted a complete application and are subsequently certified by the Department of General Services (DGS). The complete application and any required substantiating documentation must be received by DGS by 5:00 p.m. on bid opening date. List these firms on the Certified Small Business Listing for the Non-Small Business Preference form.

Date: 3/27/13

Signature: [Handwritten Signature]

*NOT SELECTED*

**CALIFORNIA COMPANY PREFERENCE**

DES-OE-0102.9 (REV 11/2008)

**This form must be completed and signed by all bidders. Failure of a non-California company to fill out and sign this form may be cause for rejection of its bid. Eligibility for a reciprocal preference for a California company is waived if the California company fails to complete and sign this form under penalty of perjury.**

**The undersigned certifies that it is a "California company" as defined in Pub Cont Code § 6107 and meets one of the following (check appropriate box and enter requested information):**

I am a California company which has its principal place of business in California.

or

I am a California company which has its principal place of business in a state in which there is no local contractor preference on construction contracts.

Name of State: \_\_\_\_\_

or

I am a California company which has its principal place of business in a state in which there is a local contractor preference and my company has paid not less than \$5,000 in sales or use taxes to California for construction related activity for each of the 5 years immediately preceding the submission of the bid.

Name of State: Nevada

California Sales or Use Tax No.: 101131970

or

**The undersigned certifies that it is not a "California company." (Check box and enter requested information.)**

I am not a California company. My principal place of business is in \_\_\_\_\_  
(Enter state or country)

Describe any and all bid preferences provided to your company by the state or country in which your company has its principal place of business. (Attach additional sheets if necessary.)

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date: 3/27/13

Signature of Bidder: 

**ADA Notice** For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

We Sierra Nevada Construction, Inc.

as Principal, and

Liberty Mutual Insurance Company

as Surety are bound unto the State of California, Department of Transportation, hereafter referred to as "Obligee", in the penal sum of ten percent (10%) of the total amount of the bid of the Principal submitted to the Obligee for the work described below, for the payment of which sum we bind ourselves, jointly and severally,

**THE CONDITION OF THIS OBLIGATION IS SUCH, THAT:**

WHEREAS, the Principal is submitting a bid to the Obligee, for construction on State Highway in Siskiyou County in and near  
(Copy here the exact description of work, including location, as it appears on the proposal)  
Yreka from 0.2 mile north of Juniper Drive to 13th Street  
for which bids are to be opened at Sacramento, CA

(Insert place where bids will be opened)  
on March 27, 2013  
(Insert date of bid opening)

NOW, THEREFORE, if the Principal is awarded the contract and, within the time and manner required under the specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files two bonds with the Obligee, one to guarantee faithful performance (if specified in the contract) of the contract and the other to guarantee payment for labor and materials as provided by law, then this obligation shall be null and void; otherwise, it shall remain in full force.

In the event a suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the court.

Dated: March 18, 2013

Correspondence or claims relating to this bond should be sent to the surety at the following address:  
14123 Denver West Parkway  
Golden, CO 80401

Sierra Nevada Construction, Inc.  
Kevin L. Robertson Principal  
Liberty Mutual Insurance Company  
By Lori Jones Surety Attorney-in-Fact

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of ~~California~~ Nevada

County of Washoe

On this 3-18-13 before me, Patricia Owens

Here Insert Name and Title of the Officer

personally appeared Lori Jones

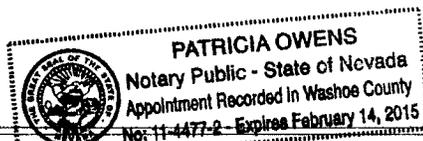
Name(s) of Signer(s)

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.

(SEAL)



Signature Patricia Owens

Signature of Notary Public

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

**THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.**

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

5283914

Certificate No. \_\_\_\_\_

American Fire and Casualty Company  
The Ohio Casualty Insurance Company  
West American Insurance Company

Liberty Mutual Insurance Company  
Peerless Insurance Company

**POWER OF ATTORNEY**

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of Ohio, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, that Peerless Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, **LORI JONES, NICHOLAS D. ROSSI, TERI L. WOOD, PATRICIA OWENS,** .....

all of the city of RENO, state of NEVADA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 30th day of March, 2012.



American Fire and Casualty Company  
The Ohio Casualty Insurance Company  
Liberty Mutual Insurance Company  
Peerless Insurance Company  
West American Insurance Company

By: Gregory W. Davenport  
Gregory W. Davenport, Assistant Secretary

STATE OF WASHINGTON ss  
COUNTY OF KING

On this 30th day of March, 2012, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, Peerless Insurance Company and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Seattle, Washington, on the day and year first above written.



By: KD Riley  
KD Riley, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, West American Insurance Company and Peerless Insurance Company, which resolutions are now in full force and effect reading as follows:

**ARTICLE IV - OFFICERS - Section 12. Power of Attorney.** Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

**ARTICLE XIII - Execution of Contracts - SECTION 5. Surety Bonds and Undertakings.** Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

**Certificate of Designation -** The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Gregory W. Davenport, Assistant Secretary to appoint such attorney-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

**Authorization -** By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, David M. Carey, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, West American Insurance Company and Peerless Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 18th day of March, 2013.



By: David M. Carey  
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

**BIDDER'S BOND**

DES-OE-0102.3 (REV 3/2008)

We \_\_\_\_\_

\_\_\_\_\_ as Principal, and

as Surety are bound unto the State of California, Department of Transportation, hereafter referred to as "Obligee", in the penal sum of ten percent (10%) of the total amount of the bid of the Principal submitted to the Obligee for the work described below, for the payment of which sum we bind ourselves, jointly and severally,

**THE CONDITION OF THIS OBLIGATION IS SUCH, THAT:**

WHEREAS, the Principal is submitting a bid to the Obligee, for \_\_\_\_\_  
*(Copy here the exact description of work, including location, as it appears on the proposal)*

for which bids are to be opened at \_\_\_\_\_  
*(Insert place where bids will be opened)*

on \_\_\_\_\_  
*(Insert date of bid opening)*

NOW, THEREFORE, if the Principal is awarded the contract and, within the time and manner required under the specifications, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the bid, and files two bonds with the Obligee, one to guarantee faithful performance (if specified in the contract) of the contract and the other to guarantee payment for labor and materials as provided by law, then this obligation shall be null and void; otherwise, it shall remain in full force.

In the event a suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such suit, including a reasonable attorney's fee to be fixed by the court.

Dated: \_\_\_\_\_, 20\_\_\_\_.

Correspondence or claims relating to this bond should be sent to the surety at the following address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
Principal  
\_\_\_\_\_  
Surety  
By \_\_\_\_\_  
Attorney-in-Fact

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
County of \_\_\_\_\_

On this \_\_\_\_\_ before me, \_\_\_\_\_  
*Date Here Insert Name and Title of the Officer*

personally appeared \_\_\_\_\_  
*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.

(SEAL)

Signature \_\_\_\_\_  
*Signature of Notary Public*

**ADA Notice** For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

**CERTIFICATIONS**

**UNDOCUMENTED ALIENS EMPLOYMENT**

Under Pub Cont Code § 6101, the Bidder certifies compliance with state and federal law respecting the employment of undocumented aliens.

**NONCOLLUSION**

**NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID**

Under PCC 7106 and 23 USC 112, the bidder declares as follows:

State of ~~California~~ <sup>Nevada</sup> County of Washoe

Kevin L. Robertson  being first duly sworn, deposes and says that he or she is President of Sierra Nevada Construction Inc the party making the foregoing 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 public body awarding the contract of 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.

**CHILD SUPPORT COMPLIANCE ACT**

Under Pub Cont Code § 7110, the contractor acknowledges that:

1. The contractor recognizes the importance of child and family support obligations and shall fully comply with all applicable state and federal laws relating to child and family support enforcement, including, but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Chapter 8 (commencing with section 5200) of Part 5 of Division 9 of the Family Code; and
2. The contractor to the best of its knowledge is fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the Employment Development Department.

**NATIONAL LABOR RELATIONS BOARD**

Under Pub Cont Code § 10232, the contractor, swears under penalty of perjury, that no more than one final unappealable finding of contempt of court by a federal court has been issued against the contractor within the immediately preceding two year period because of the contractor's failure to comply with an order of a federal court which orders the contractor to comply with an order of the National Labor Relations Board.

**VIOLATION OF LAW OR A SAFETY REGULATION**

Under Pub Cont Code § 10162, the Bidder must complete, under penalty of perjury, the following 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, explain the circumstances in the following space.



### ANTITRUST LAW

Under Pub Con Code § 10285.1, the Bidder declares under penalty of perjury under the laws of the State of California that the Bidder  has  has not been convicted within the preceding three years of any offenses referred to in that section, including any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of, any public works contract, as defined in Pub Cont Code § 1101, with any public entity, as defined in Pub Cont Code § 1100, including the Regents of the University of California or the Trustees of the California State University. The term "Bidder" includes any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof, as referred to in Section 10285.1.

If the Bidder has been convicted of an offense within the past 3 years, provide the conviction details including the date and ultimate resolution of each conviction in the space below.

### PERMITS, LICENSES, AGREEMENTS, CERTIFICATIONS, AND RAILROAD RELATIONS AND INSURANCE REQUIREMENTS

Bidder acknowledges that permits, licenses, agreements, certifications, and the requirements in the document titled "Railroad Relations and Insurance Requirements" are components of the Contract under section 5-1.02 of the *Standard Specifications*.

### BIDDER RESPONSIBILITY QUESTIONNAIRE

Failure to truthfully answer the following questions will result in a finding that the bid is nonresponsive. The Bidder must complete, under penalty of perjury, the following questionnaire:

1. Within the past 10 years, has the Bidder been found to be a nonresponsive bidder by any public entity, including federal, State, local, or regional entities?  
 Yes  No
2. Within the past 10 years, have any of the Bidder's officers or employees with a proprietary interest in the Bidder been determined to be a nonresponsive bidder by a public entity, including federal, State, local or regional entities?  
 Yes  No
3. Is there any officer or employee of the Bidder who now has or has had any proprietary interest in another company that bid or bids on public works projects whose company has been determined to be a nonresponsive bidder by any public entity, including federal, State, local, or regional entities?  
 Yes  No
4. If the answer to any of the 3 preceding questions is yes, disclose all pertinent details of the determination of nonresponsibility, including:
  - 4.1. Date of each nonresponsibility determination
  - 4.2. Name of each public agency issuing the nonresponsibility determination and a contact person at that agency who would have information about the determination
  - 4.3. Contract number for each nonresponsibility determination

### END CERTIFICATIONS

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

1727 30<sup>th</sup> Street MS-43

P.O. BOX 168041

SACRAMENTO, CA 95816-8041

FAX (916) 227-6214

TTY 711

*Flex your power!  
Be energy efficient!*

February 15, 2013

02-Sis-3-R48.3/53.1  
02-4F1604  
Project ID 0212000119

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SISKIYOU COUNTY IN AND NEAR YREKA FROM 0.2 MILE NORTH OF JUNIPER DRIVE TO 13TH STREET.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

This addendum is being issued to postpone the bid opening indefinitely instead of the original date of Wednesday, February 20, 2013.

An addendum will follow advising you of the new bid opening date and other changes.

To Bid book holders:

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum is available for the Contractors' download on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/02/02-4F1604](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/02/02-4F1604)**

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

A handwritten signature in black ink that reads "John Bulinski".

JOHN BULINSKI  
District Director

A handwritten signature in black ink, appearing to be "K. P. [unclear]".

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

1727 30<sup>th</sup> Street MS-43

P.O. BOX 168041

SACRAMENTO, CA 95816-8041

FAX (916) 227-6214

TTY 711

*Flex your power!  
Be energy efficient!*

March 15, 2013

02-Sis-3-R48.3/53.1

02-4F1604

Project ID 0212000119

Addendum No. 2

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN SISKIYOU COUNTY IN AND NEAR YREKA FROM 0.2 MILE NORTH OF JUNIPER DRIVE TO 13TH STREET.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Wednesday, March 27, 2013. The original bid opening date was previously postponed indefinitely under Addendum No. 1 dated February 15, 2013.

This addendum is being issued to set a new bid opening date as shown herein and revise the Project Plans and the Notice to Bidders and Special Provisions.

Project Plan Sheet 1 is revised. A copy of the revised sheet is attached for substitution for the like-numbered sheet.

Project Plan Sheets 6A and 6B are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders and Special Provisions, before the seal sheet add the "SPECIAL NOTICES," as attached.

In the Notice to Bidders and Special Provisions, in the "STANDARD PLANS LIST," the following Standard Plans are deleted:

"T-13 and T-17."

In the Special Provisions, Section 12-4.02A, the following paragraph is added before the first paragraph:

"The full width of the traveled way must be open to traffic on Fridays after 3:00 p.m., Saturdays, Sundays, Designated Holidays, Special Days, and when construction activities are not actively in progress."

In the Special Provisions, Section 12-4.02D, is deleted.

In the Special Provisions, Section 12-4.04, is added as attached.

In the Special Provisions, Section 37, is replaced as attached.

A handwritten signature in black ink, appearing to be "K. R. B.", located at the bottom right of the page.

Addendum No. 2  
Page 2  
March 15, 2013

02-Sis-3-R48.3/53.1  
02-4F1604  
Project ID 0212000119

To Bid book holders:

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum and attachments are available for the Contractors' download on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/02/02-4F1604](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/02/02-4F1604)**

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



JOHN BULINSKI  
District Director

Attachments

\*\*\*\*\*

# SPECIAL NOTICES

\*\*\*\*\*

- Funding for this project depends on passage of the 2013-2014 FY Budget Act. See section 8-1.04G for special requirements.

CONTRACT NO. 02-4F1604  
ADDED PER ADDENDUM NO. 2 DATED MARCH 15, 2013

Replace "Reserved" in section 12-4.04 with:

Lane Closure Restriction for Designated Holidays and Special Days										
Thu	Fri	Sat	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun
x	H xx	xx	xx							
	SD xx									
x	xx	H xx	xx							
		SD xx								
	x	xx	H xx	xx						
			SD xx							
	x	xx	xx	H xx						
				SD xx						
				x	H xx					
					SD xx					
					x	H xx				
						SD xx				
						x	H xx	xx	xx	xx
							SD xx			

Legend:	
x	The full width of the traveled way must be open for use by traffic after 3:00 p.m.
xx	The full width of the traveled way must be open for use by traffic.
H	Designated holiday
SD	Special day

CONTRACT NO. 02-4F1604  
 ADDED PER ADDENDUM NO. 2 DATED MARCH 15, 2013

**Add to section 37-2.01A:**

Asphalt rubber seal coat includes applying heated asphalt rubber binder, followed by heated screenings precoated with asphalt binder, followed by a flush coat.

**Replace "Reserved" in section 37-2.01B with:**

**37-2.01B Definitions**

**crumb rubber modifier:** Ground or granulated high natural crumb rubber or scrap tire crumb rubber.

**descending viscosity reading:** subsequent viscosity reading that must be at least 5 percent lower than the previous viscosity reading.

**high natural crumb rubber:** Material containing 40 to 48 percent natural rubber.

**scrap tire crumb rubber:** Any combination of:

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

**Replace section 37-2.01C(5) with:**

**37-2.01C(5) Asphalt Rubber Seal Coat**

For each delivery of asphalt rubber binder ingredients and asphalt rubber binder to the job site, submit a certificate of compliance and a copy of the specified test results.

Submit MSDS for each asphalt rubber binder ingredient and the asphalt rubber binder.

At least 15 days before use, submit:

1. Four 1-quart cans of mixed asphalt rubber binder
2. Samples of each asphalt rubber binder ingredient
3. Asphalt rubber binder formulation and data as follows:
  - 3.1. For asphalt binder and asphalt modifier submit:
    - 3.1.1. Source and grade of asphalt binder
    - 3.1.2. Source and type of asphalt modifier
    - 3.1.3. Percentage of asphalt modifier by weight of asphalt binder
    - 3.1.4. Percentage of combined asphalt binder and asphalt modifier by weight of asphalt rubber binder
    - 3.1.5. Test results for the specified quality characteristics
  - 3.2. For crumb rubber modifier submit:
    - 3.2.1. Each source and type of scrap tire crumb rubber and high natural rubber
    - 3.2.2. Percentage of scrap tire crumb rubber and high natural rubber by total weight of asphalt rubber binder
    - 3.2.3. Test results for the specified quality characteristics
  - 3.3. For asphalt rubber binder submit:
    - 3.3.1. Test results for the specified quality characteristics
    - 3.3.2. Minimum reaction time and temperature

At least 5 business days before use, submit the permit issued by the local air quality agency for asphalt rubber binder:

1. Field blending equipment
2. Application equipment

If an air quality permit is not required by the local air quality agency for producing asphalt rubber binder or spray applying asphalt rubber binder, submit verification from the local air quality agency that an air quality permit is not required for this Contract.

Submit a certified volume or weight slip for each delivery of asphalt rubber binder ingredients and asphalt rubber binder.

Submit a certificate of compliance and accuracy verification of test results for viscometers.

When determined by the Engineer, submit notification 15 minutes before each viscosity test or submit a schedule of testing times.

Submit the log of asphalt rubber binder viscosity test results each day of asphalt rubber seal coat work.

**Replace "Reserved" in section 37-2.01D(1) with:**

Equipment used in producing asphalt rubber binder must be permitted for use by the local air quality agency. Equipment used in spreading asphalt rubber binder must be permitted for use by the local air quality agency.

**Replace section 37-2.01D(4) with:**

**37-2.01D(4) Asphalt Rubber Seal Coat**

Each asphalt rubber binder ingredient must be sampled and tested for compliance with the specifications by the manufacturer.

Test and submit results at least once per project or the following, whichever frequency is greater:

1. For crumb rubber modifier except for grading, at least once per 250 tons. Samples of scrap tire crumb rubber and high natural crumb rubber must be sampled and tested separately. Test each delivery of crumb rubber modifier for grading.
2. For asphalt binder, test and submit at least once per 200 tons of asphalt binder production.
3. For asphalt modifier, test and submit at least once per 25 tons of asphalt modifier production.

Scrap tire crumb rubber and high natural crumb rubber must be delivered to the asphalt rubber production site in separate bags.

Take viscosity readings of asphalt rubber binder under ASTM D7741 during asphalt rubber binder production. Begin taking viscosity readings of samples taken from the reaction vessel at least 45 minutes after adding crumb rubber modifier and continue taking viscosity readings every 30 minutes until two consecutive descending viscosity readings have been obtained and the final viscosity meets the specification requirement. After meeting the two descending viscosity readings requirement, continue to take viscosity readings hourly and within 15 minutes before use. Log the test results, including time of testing and temperature of the asphalt rubber binder.

**Replace section 37-2.02G with:**

**37-2.02G Asphalt Rubber Binder**

**37-2.02G(1) General**

Asphalt rubber binder must be a combination of:

1. Asphalt binder
2. Asphalt modifier
3. Crumb rubber modifier

The blending equipment must allow the determination of weight percentages of each asphalt rubber binder ingredient.

Asphalt rubber binder must be  $79 \pm 1$  percent by weight asphalt binder and  $21 \pm 1$  percent by weight of crumb rubber modifier. The minimum percentage of crumb rubber modifier must be 20.0 percent and lower values may not be rounded up.

Crumb rubber modifier must be  $76 \pm 2$  percent by weight scrap tire crumb rubber and  $24 \pm 2$  percent by weight high natural rubber.

The blend of asphalt binder and asphalt modifier must be combined with crumb rubber modifier at the asphalt rubber binder production site. The asphalt binder and asphalt modifier blend must be from 375 to 440 degrees F when crumb rubber modifier is added. Combined ingredients must be allowed to react at least 45 minutes at temperatures from 375 to 425 degrees F except the temperature must be at least 10 degrees F below the flash point of the asphalt rubber binder.

After reacting, the asphalt rubber binder must have the values for the quality characteristics shown in the following table:

**Blended Asphalt Rubber Binder**

Quality characteristic	Test method	Value	
		Min	Max
Cone penetration @ 25 °C, 1/10 mm	ASTM D 217	25	60
Resilience @ 25 °C, percent rebound	ASTM D 5329	18	50
Field softening point, °C	ASTM D 36	55	88
Viscosity @ 190 °C, Pa • s ( $\times 10^{-3}$ )	ASTM D 7741	1500	2500

Maintain asphalt rubber binder at a temperature from 375 to 415 degrees F.

Stop heating unused asphalt rubber binder 4 hours after the 45-minute reaction period. Reheating asphalt rubber binder that cools below 375 degrees F is a reheat cycle. Do not exceed 2 reheat cycles. If reheating, asphalt rubber binder must be from 375 to 415 degrees F before use.

During reheating, you may add scrap tire crumb rubber. Scrap tire crumb rubber must not exceed 10 percent by weight of the asphalt rubber binder. Allow added scrap tire crumb rubber to react for at least 45 minutes. Reheated asphalt rubber binder must comply with the specifications for asphalt rubber binder.

**37-2.02G(2) Asphalt Binder**

Asphalt binder for asphalt rubber binder seal coat must be Grade PG 64-16.

Asphalt binder must comply with the specifications for asphalt binder. Do not modify asphalt binder with polymer.

**37-2.02G(3) Asphalt Modifier**

Asphalt modifier must be a resinous, high flash point, and aromatic hydrocarbon. Asphalt modifier must have the values for the quality characteristics shown in the following table:

**Asphalt Modifier for Asphalt Rubber Binder**

Quality characteristic	Test method	Value
Viscosity, m <sup>2</sup> /s (x 10 <sup>-6</sup> ) at 100 °C	ASTM D 445	X ± 3 <sup>a</sup>
Flash point, C.L.O.C., °C	ASTM D 92	207 min
<b>Molecular analysis</b>		
Asphaltenes, percent by mass	ASTM D 2007	0.1 max
Aromatics, percent by mass	ASTM D 2007	55 min

<sup>a</sup> "X" denotes the proposed asphalt modifier viscosity from 19 to 36. A change in "X" requires a new asphalt rubber binder submittal.

Asphalt modifier and asphalt binder must be blended at the production site. Asphalt modifier must be from 2.5 to 6.0 percent by weight of the asphalt binder in the asphalt rubber binder. The asphalt rubber binder supplier determines the exact percentage.

If blended, the asphalt binder must be from 375 to 440 degrees F when asphalt modifier is added and the mixture must circulate for at least 20 minutes. Asphalt binder, asphalt modifier, and crumb rubber modifier may be proportioned and combined simultaneously.

**37-2.02G(4) Crumb Rubber Modifier**

Crumb rubber modifier must be ground or granulated at ambient temperature.

Scrap tire crumb rubber and high natural crumb rubber must be delivered to the asphalt rubber binder production site in separate bags.

Steel and fiber must be separated. If steel and fiber are cryogenically separated, it must occur before grinding and granulating. Cryogenically-produced crumb rubber modifier particles must be large enough to be ground or granulated.

Wire must not be more than 0.01 percent by weight of crumb rubber modifier. Crumb rubber modifier must be free of contaminants except fabric, which must not exceed 0.05 percent by weight of crumb rubber modifier. Method for determining the percent weight of wire and fabric is available under Laboratory Procedure 10 at the following METS Web site:

<http://www.dot.ca.gov/hq/esc/Translab/ofpm/fpmlab.htm>

The length of an individual crumb rubber modifier particle must not exceed 3/16 inch.

Crumb rubber modifier must be dry, free-flowing particles that do not stick together. A maximum of 3 percent calcium carbonate or talc by weight of crumb rubber modifier may be added. Crumb rubber modifier must not cause foaming when combined with the asphalt binder and asphalt modifier.

Specific gravity of crumb rubber modifier must be from 1.1 to 1.2 determined under California Test 208.

When tested under ASTM D 297, crumb rubber modifier must comply with the requirements shown in the following table:

<b>Crumb Rubber Modifier</b>				
Quality characteristic	Scrap tire crumb rubber (percent)		High natural rubber (percent)	
	Min	Max	Min	Max
Acetone extract	6.0	16.0	4.0	16.0
Rubber hydrocarbon	42.0	65.0	50.0	--
Natural rubber content	22.0	39.0	40.0	48.0
Carbon black content	28.0	38.0	--	--
Ash content	--	8.0	--	--

Scrap tire crumb rubber must have the gradation shown in the following table:

<b>Scrap Tire Crumb Rubber Gradation</b>			
Percentage passing			
Sieve size	Gradation limit	Operating range	Contract compliance
No. 8	100	100	100
No. 10	98-100	95-100	90-100
No. 16	45-75	35-85	32-88
No. 30	2-20	2-25	1-30
No. 50	0-6	0-10	0-15
No. 100	0-2	0-5	0-10
No. 200	0	0-2	0-5

High natural rubber gradation must have the gradation shown in the following table:

<b>High Natural Crumb Rubber Gradation</b>			
Percentage passing			
Sieve size	Gradation limit	Operating range	Contract compliance
No. 10	100	100	100
No. 16	95-100	92-100	85-100
No. 30	35-85	25-95	20-98
No. 50	10-30	6-35	2-40
No. 100	0-4	0-7	0-10
No. 200	0-1	0-3	0-5

Test the crumb rubber modifier gradation under ASTM C 136 except

1. Split or quarter  $100 \pm 5$  g from the crumb rubber modifier sample and dry to a constant mass at a temperature from 57 to 63 degrees C and record the dry sample mass. Place the crumb rubber modifier sample and 5 g of talc in a 1/2-liter jar. Seal the jar, then shake the jar by hand for at least 1 minute to mix the crumb rubber modifier and the talc. Continue shaking or open the jar and stir until the particle agglomerates and clumps are broken and the talc is uniformly mixed.
2. Place 1 rubber ball on each sieve. Each ball must weigh  $8.5 \pm 0.5$  g, measure  $24.5 \pm 0.5$  mm in diameter, and have a Shore Durometer "A" hardness of  $50 \pm 5$  determined under ASTM D 2240. After sieving the combined material for  $10 \pm 1$  minutes, disassemble the sieves. Brush material adhering to the bottom of a sieve into the next finer sieve. Weigh and record the mass of the material retained on the 2.36-milimeter sieve and leave this material (do not discard) on the scale or balance. Fabric balls must remain on the scale or balance and be placed together on the side to prevent them from being covered or disturbed when the material from finer sieves is placed onto the scale or balance. The material retained on the 2.00-milimeter sieve must be added to the scale or balance. Weigh and record that mass as the accumulative mass retained on the 2.00-milimeter sieve. Continue weighing and recording the accumulated masses retained on the remaining sieves until the accumulated mass retained in the pan has been determined. Before discarding the crumb rubber modifier sample, separately weigh and record the total mass of fabric balls in the sample.
3. Determine the mass of material passing the 75-micrometer sieve by subtracting the accumulated mass retained on the 75-micrometer sieve from the accumulated mass retained in the pan. If the material passing the 75-micrometer sieve has a mass of 5 g or less, cross out the recorded number for the accumulated mass retained in the pan and copy the number recorded for the accumulated mass retained on the 75-micrometer sieve and record that number, next to the crossed out number, as the accumulated mass retained in the pan. If the material passing the 75-micrometer sieve has a mass greater than 5 g, cross out the recorded number for the accumulated mass retained in the pan, subtract 5 g from that number and record the difference next to the crossed out number. The adjustment to the accumulated mass retained in the pan accounts for the 5 g of talc added to the sample. For calculation purposes, the adjusted total sample mass is the same as the adjusted accumulated mass retained in the pan. Determine the percent passing based on the adjusted total sample mass and record to the nearest 0.1 percent.

Replace section 37-2.02H(4) with:

**37-2.02H(4) Asphalt Rubber Seal Coat**

Before precoating with asphalt binder and when tested under California Test 202, screenings for asphalt rubber seal coat must have the gradation shown in the following table:

**Asphalt Rubber Seal Coat Screenings Gradation**

Sieve sizes	Percentage passing by weight		
	Coarse 1/2" max	Medium 1/2" max	Fine 3/8" max
3/4"	100	100	100
1/2"	75-90	85-90	95-100
3/8"	0-20	0-30	70-85
No. 4	0-2	0-5	0-15
No. 8	--	--	0-5
No. 200	0-1	0-1	0-1

Screenings must have the values for the properties shown in the following table:

<b>Seal Coat Screenings</b>		
<b>Properties</b>	<b>Test method</b>	<b>Value</b>
Cleanness value, min	California Test 227	80
Durability, min	California Test 229	52

Screenings for asphalt rubber seal coat must comply with the Fine 3/8" max grading.

**Add item 1.5 to the list in section 37-2.03B(1):**

- 1.5. Tarpaulins to cover precoated screenings when haul distance exceeds 30 minutes or ambient temperature is less than 65 degrees F.

**Replace section 37-2.03B(2) with:**

**37-2.03B(2) Asphalt Rubber Seal Coat**

Equipment for asphalt rubber seal coat must include and comply with the following:

1. Tank to heat and maintain the temperature of blended asphalt binder and asphalt modifier before adding crumb rubber modifier. The tank must have a thermostatic heat control device and a temperature reading device accurate to within 5 degrees F. The heat control device must be the recording type.
2. Mechanical mixer for complete, homogeneous blending of asphalt binder, asphalt modifier, and crumb rubber modifier. Asphalt binder and asphalt modifier must be introduced into the mixer through meters. The blending system must vary the rate of delivery for asphalt binder and asphalt modifier proportionate to crumb rubber modifier delivery. The mixer must not allow the temperature of asphalt binder and asphalt modifier to vary more than 25 degrees F. Each ingredient feed must be equipped with a rate-of-feed indicator for determining the amount delivered during production. The meters used to proportion each liquid ingredient must be equipped with rate-of-flow indicators with resettable totalizers so that the total amount can be determined. Feed liquid and dry ingredients directly into the mixer at a uniform and controlled rate. Reduce the quantity of ingredients in the mixer if dead areas occur. The mixer must have a safe sampling device that delivers completed asphalt rubber binder in the quantity needed for testing.
3. Storage tank for asphalt rubber binder. The storage tank must have a heating system to maintain the temperature and an internal mixing device to prevent separation.
4. Self-propelled distributor truck. The truck must have the following features:
  - 4.1. Heating unit
  - 4.2. Internal mixing unit
  - 4.3. Pumps that spray asphalt rubber binder within 0.05 gal/sq yd of the specified rate
  - 4.4. Fully circulating spray bar that applies asphalt rubber binder uniformly
  - 4.5. Tachometer
  - 4.6. Pressure gages
  - 4.7. Volume measuring devices
  - 4.8. Thermometer
  - 4.9. Observation platform on the rear of the truck for an observer on the platform to see the nozzles and unplug them if needed.

5. Under supports for scale bearing points for scale structures where the total load, the live load plus dead load is less than 17 tons, must be constructed as follows:
  - 5.1. Use 4 legs. Total load on any leg may not exceed 14.5 psi.
  - 5.2. Use structural grade steel with a minimum cross sectional dimension of 20 inches and a minimum thickness of 1.5 inches.
  - 5.3. Construct under supports in a way that they do not move or deflect during production operations.
  - 5.4. Install mechanical indicating elements level, plumb, and rigidly mounted on the under supports.
  - 5.5. Prevent saturation of the ground under the scale with adequate drainage and provide support of 14.5 psi at each support.
  - 5.6. Scale structure may be installed using concrete under supports and comply with Section 9.

**Add to section 37-2.03D:**

Before applying seal coat, remove pavement markers and underlying adhesive.

**Replace section 37-2.03E with:**

**37-2.03E Precoating Screenings**

For asphalt rubber seal coat, do not recombine fine materials collected in dust control systems except cyclone collectors or knock-out boxes with any other aggregate utilized in the production of screenings.

For asphalt rubber seal coat, screenings must be preheated from 260 to 325 degrees F. Coat with any of the asphalts specified in the table titled "Performance Graded Asphalt Binder" in section 92. Coat at a central mixing plant. The asphalt must be from 0.5 to 1.0 percent by weight of dry screenings. The Engineer determines the exact rate.

Plant must be authorized under California Test Method 109 and the Department's material plant quality program.

Do not stockpile preheated or precoated screenings.

**Add after "emulsion" at each occurrence in section 37-2.03F(1):**

or binder

**Replace section 37-2.03F(6) with:**

**37-2.03F(6) Asphalt Rubber Binder**

Apply asphalt rubber binder immediately after the reaction period. At the time of application, the temperature of asphalt rubber binder must be from 385 to 415 degrees F.

Apply asphalt rubber binder at a rate from 0.55 to 0.65 gal/sq yd. The Engineer determines the exact rate.

Apply asphalt rubber binder when the atmospheric temperature is from 60 to 105 degrees F and the pavement surface temperature is at least 55 degrees F.

Do not apply asphalt rubber binder unless there are sufficient screenings available to cover the asphalt rubber binder within 2 minutes. Intersections, turn lanes, gore points, and irregular areas must be covered within 15 minutes.

Do not apply asphalt rubber binder when weather or road conditions are unsuitable, including high wind or when the pavement is damp. In windy conditions you may adjust the distributor bar height and distribution speed, and use shielding equipment, if the Engineer authorizes your request.

**Replace the 1st paragraph of section 37-2.03G(1) with:**

Prevent vehicles from driving on asphalt rubber binder before spreading screenings.

**Replace section 37-2.03G(4) with:**

**37-2.03G(4) Asphalt Rubber Seal Coat**

During transit, cover precoated screenings for asphalt rubber seal coat with tarpaulins if the ambient air temperature is below 65 degrees F or the haul time exceeds 30 minutes.

At the time of application, screenings for asphalt rubber seal coat must be from 225 to 325 degrees F.

Spread screenings at a rate from 28 to 40 lb/sq yd. The exact rate is determined by the Engineer. Spread to within 10 percent of the determined rate.

**Replace section 37-2.03H(2) with:**

**37-2.03H(2) Asphalt Rubber Seal Coat**

Perform initial rolling within 90 seconds of spreading screenings. Do not spread screenings more than 200 feet ahead of the initial rolling.

For final rolling, you may request use of a steel-wheeled roller weighing from 8 to 10 tons, static mode only.

Perform a final sweeping before Contract acceptance. The final sweeping must not dislodge screenings.

Dispose of swept screenings at least 150 feet from any waterway.

**Add to section 37-2.04:**

Screenings for asphalt rubber seal coat are measured by coated weight after they are preheated and precoated with asphalt binder. The weight of screenings must be the coated weight.

If recorded batch weights are printed automatically, the bid item for screenings for asphalt-rubber seal coat are measured using the printed batch weights, provided:

1. Total aggregate weight for screenings per batch is printed
2. Total asphalt binder weight per batch is printed
3. Each truckload's zero tolerance weight is printed before weighing the first batch and after weighing the last batch
4. Time, date, mix number, load number and truck identification are correlated with a load slip
5. A copy of the recorded batch weights is certified by a licensed weighmaster and submitted to the Engineer

Screenings for asphalt rubber seal coat is paid for as screenings (hot applied).

Asphalt-rubber binder is measured under the specifications for asphalts.

If test results for gradation tests do not comply with the specifications, deductions are taken.

Each gradation test for scrap tire crumb rubber represents 10,000 lbs or the amount used in that day's production, whichever is less.

Each gradation test for high natural rubber represents 3,400 lbs or the amount used in that day's production, whichever is less.

For each gradation test, the following pay deductions will be taken from the asphalt rubber bid item:

**Gradation Test**

Material	Test result <sup>a</sup>	Deduction
Scrap tire crumb rubber	Operating range < TR < Contract compliance	\$250
Scrap tire crumb rubber	TR > Contract compliance	\$1,100
High natural crumb rubber	Operating range < TR < Contract compliance	\$250
High natural crumb rubber	TR > Contract compliance	\$600

<sup>a</sup> Test Result = TR