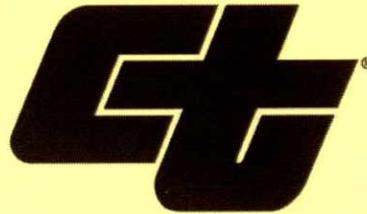


A-4



Caltrans

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

BID

FOR CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY NEAR JAMUL
FROM ROUTE 54 TO 0.2 MILE EAST OF MARRON VALLEY ROAD

In District 11 On Route 94

Under

Notice to Bidders and Special Provisions dated May 20, 2013

Standard Specifications dated 2010

Project plans approved March 11, 2013

Standard Plans dated 2010

Identified by

Contract No. 11-290404

11-SD-94-14.9/30.0

Project ID 1100000360

Federal-Aid Project

ACNH-P094(059)E

Electronic Advertising Contract

Bids open Thursday, June 27, 2013

Dated May 20, 2013
AADD



[Handwritten signature]

A-4

CONTRACT NO. 11 -290404

NAME OF BIDDER Granite Construction Company

BUSINESS P.O. BOX P.O. Box 50085

CITY, STATE, ZIP Watsonville, CA 95077-5085

BUSINESS STREET ADDRESS 585 West Beach Street

(Include even if P.O. Box used)

CITY, STATE, ZIP Watsonville, CA 95076

TELEPHONE NO: AREA CODE (760) 732-0915

FAX NO: AREA CODE (760) 758-1501

CONTRACTOR LICENSE NO. 89

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.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
BID TO THE DEPARTMENT OF TRANSPORTATION
DES-OE-0102.1 (REV. 3/2011)

- 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(one)

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)

Mike Boer

PRINTED NAME AND TITLE OF PERSON SIGNING

Mike Boer, Chief Estimator

DATE SIGNED (Do not type)

6/27/13

BID ITEM LIST

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	2,000 ⁰⁰
2	080050	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	2,000 ⁰⁰
3	090105	TIME-RELATED OVERHEAD (LS)	LS	LUMP SUM	LUMP SUM	600,000⁰⁰ 600,000 ⁰⁰ LV for MB
4	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	6,000 ⁰⁰
5	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	1,123,468 ⁰⁰
6	120199	TRAFFIC PLASTIC DRUM	EA	30	50 ⁰⁰	1,500 ⁰⁰
7	128651	PORTABLE CHANGEABLE MESSAGE SIGN (EA)	EA	8	3,000 ⁰⁰	24,000 ⁰⁰
8	129000	TEMPORARY RAILING (TYPE K)	LF	500	10 ⁰⁰	5,000 ⁰⁰
9	129100	TEMPORARY CRASH CUSHION MODULE	EA	70	125 ⁰⁰	8,750 ⁰⁰
10	130100	JOB SITE MANAGEMENT	LS	LUMP SUM	LUMP SUM	15,000 ⁰⁰
11	130200	PREPARE WATER POLLUTION CONTROL PROGRAM	LS	LUMP SUM	LUMP SUM	1,500 ⁰⁰
12	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	51	200 ⁰⁰	10,200 ⁰⁰
13	130900	TEMPORARY CONCRETE WASHOUT	LS	LUMP SUM	LUMP SUM	500 ⁰⁰
14	141120	TREATED WOOD WASTE	LB	28,700	0 ⁹¹	26,117 ⁰⁰
15	150662	REMOVE METAL BEAM GUARD RAILING	LF	2,200	11 ⁰⁰	24,200 ⁰⁰
16	150711	REMOVE PAINTED TRAFFIC STRIPE	LF	3,060	1 ⁰⁰	3,060 ⁰⁰
17	150742	REMOVE ROADSIDE SIGN	EA	1	50 ⁰⁰	50 ⁰⁰
18	150771	REMOVE ASPHALT CONCRETE DIKE	LF	52,800	0 ²⁵	13,200 ⁰⁰
19	152500	ADJUST METAL BEAM GUARD RAILING	LF	2,530	12 ⁰⁰	30,360 ⁰⁰
20	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	330,000	2 ⁵⁰	85,000⁰⁰ 85,000 ⁰⁰ LV for MB

82,500⁰⁰ LV for MB
825,000⁰⁰

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	153121	REMOVE CONCRETE (CY)	CY	50	300 ⁰⁰	15,000 ⁰⁰
22	198010	IMPORTED BORROW (CY)	CY	170	300 ⁰⁰	51,000 ⁰⁰
23	370120	ASPHALT-RUBBER BINDER	TON	830	900 ⁰⁰	747,000 ⁰⁰
24	374002	ASPHALTIC EMULSION (FOG SEAL COAT)	TON	13	500 ⁰⁰	6,500 ⁰⁰
25	374207	CRACK TREATMENT	LNMI	31	150 ⁰⁰	4,650 ⁰⁰
26	375030	SCREENINGS (HOT-APPLIED)	TON	5,270	215 ⁰⁰	1,133,050 ⁰⁰
27	025788	HIGH FRICTION SURFACE TREATMENT	SQYD	15,100	26 ⁰⁰	392,600 ⁰⁰
28	390132	HOT MIX ASPHALT (TYPE A)	TON	9,740	85 ⁰⁰	827,900 ⁰⁰
29	390136	MINOR HOT MIX ASPHALT	TON	1,380	90 ⁰⁰	124,200 ⁰⁰
30	390140	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TON	45,000	90 ⁰⁰	4,050,000 ⁰⁰
31	394050	RUMBLE STRIP	STA	550	27 ⁰⁰	14,850 ⁰⁰
32	025789	RUMBLE STRIP (CENTERLINE)	STA	570	27 ⁰⁰	15,390 ⁰⁰
33	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	3,000 ⁰⁰
34	394073	PLACE HOT MIX ASPHALT DIKE (TYPE A)	LF	5,730	0 ⁸⁵	4,870 ⁵⁰
35	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	340	0 ⁸⁵	289 ⁰⁰
36	394075	PLACE HOT MIX ASPHALT DIKE (TYPE D)	LF	390	0 ⁸⁵	331 ⁵⁰
37	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	45,100	0 ⁸⁵	38,335 ⁰⁰
38	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	1,280	0 ⁸⁵	1,088 ⁰⁰
39	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	30	75 ⁰⁰	2,250 ⁰⁰
40	397005	TACK COAT	TON	83	500 ⁰⁰	41,500 ⁰⁰

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	3.5	10,000 ⁰⁰	35,000 ⁰⁰
42	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	SQFT	40	16 ⁰⁰	640 ⁰⁰
43	566011	ROADSIDE SIGN - ONE POST	EA	1	325 ⁰⁰	325 ⁰⁰
44	568001	INSTALL SIGN (STRAP AND SADDLE BRACKET METHOD)	EA	8	95 ⁰⁰	760 ⁰⁰
45	731627	MINOR CONCRETE (CURB, SIDEWALK AND CURB RAMP)	CY	64	1,000 ⁰⁰	64,000 ⁰⁰
46	820118	GUARD RAILING DELINEATOR	EA	130	25 ⁰⁰	3,250 ⁰⁰
47	832002	METAL BEAM GUARD RAILING (STEEL POST)	LF	1,410	27 ⁵⁰	38,775 ⁰⁰
48	839541	TRANSITION RAILING (TYPE WB)	EA	9	3,350 ⁰⁰	30,150 ⁰⁰
49	025790	TERMINAL SYSTEM (TYPE X-TENSION)	EA	2	5,950 ⁰⁰	11,900 ⁰⁰
50	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	1	850 ⁰⁰	850 ⁰⁰
51	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	7	3,750 ⁰⁰	26,250 ⁰⁰
52	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	11	2,850 ⁰⁰	31,350 ⁰⁰
53	840516	THERMOPLASTIC PAVEMENT MARKING (ENHANCED WET NIGHT VISIBILITY)	SQFT	5,700	3 ⁰⁰	17,100 ⁰⁰
54	840655	PAINT TRAFFIC STRIPE (1-COAT)	LF	83,800	0 ²⁰	16,760 ⁰⁰
55	846001	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	155,000	0 ⁴⁰	62,000 ⁰⁰
56	846005	4" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 36-12)	LF	22,600	0 ³⁰	6,780 ⁰⁰
57	846007	6" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	156,000	0 ⁶⁰	93,600 ⁰⁰
58	846009	8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY)	LF	4,180	1 ⁵⁰	6,270 ⁰⁰
59	846010	8" THERMOPLASTIC TRAFFIC STRIPE (ENHANCED WET NIGHT VISIBILITY) (BROKEN 12-3)	LF	910	1 ⁰⁰	910 ⁰⁰
60	850111	PAVEMENT MARKER (RETROREFLECTIVE)	EA	6,750	2 ⁰⁰	13,500 ⁰⁰

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	1,000 ⁰⁰
62	861497	MODIFY SIGNAL AND LIGHTING (LOCATION 1)	LS	LUMP SUM	LUMP SUM	3,500 ⁰⁰
63	861498	MODIFY SIGNAL AND LIGHTING (LOCATION 2)	LS	LUMP SUM	LUMP SUM	35,000 ⁰⁰
64	861499	MODIFY SIGNAL AND LIGHTING (LOCATION 3)	LS	LUMP SUM	LUMP SUM	30,000 ⁰⁰
65	861500	MODIFY SIGNAL AND LIGHTING (LOCATION 4)	LS	LUMP SUM	LUMP SUM	40,000 ⁰⁰
66	861505	MODIFY SIGNAL AND LIGHTING (LOCATION 5)	LS	LUMP SUM	LUMP SUM	60,000 ⁰⁰
67	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	1,200,000 ⁰⁰

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TOTAL BID

FOR BID ITEMS:

\$ 12,025,379⁰⁰

TOTAL BID

FOR TIME:

55
WORKING DAYS BID
(Not to exceed 100 Days)

X

\$13,300.00
COST PER DAY

= \$ 731,500⁰⁰

TOTAL BID FOR COMPARISON (COST PLUS TIME):

\$ 12,756,879⁰⁰

NB

GRANITE

FAX COVER SHEET

June 27, 2013

Department of Transportation
MSC 43 Attn: Office Engineer
1727 30th Street
Sacramento, CA 95816-7005
Fax#: 916-227-6282

SUBJECT: 11-290404 – Bid Opening: 6/27/2013
SUBS LISTING

Ladies and Gentlemen:

Please find following the confirmation of the subcontractor list for subject project.

If you have any questions concerning this submittal, please do not hesitate to call.

Respectfully,

GRANITE CONSTRUCTION COMPANY



Hassan Bitar
Project Manager
760-732-0931

TOTAL PAGES: 2 (Two)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

SUBCONTRACTOR LIST

DES-OE-0102.2 (REV 3/2011)

Bidder Name: Granite Construction Company

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
Select Electric, Inc. Poway, CA	61-66	100.0%	Electrical
AC Dike Lincoln, CA	34-39	98.0%	Place HMA Dike and Misc Areas
IRM Corp Oklahoma City, OK	27	99.0%	High Friction Surface Treatment
ACE Fence Company La Puente, CA	14, 15, 19, 46-52	98.0% 98.0%	Guard Railing ↓
Cal-Stripe Inc. Colton, CA	16, 53-60 67	100.0% 1.2%	Striping, Markings, Markers ↓
Intermountain Slurry Seal Sacramento, CA	23 26	11.1% 51.0%	Asphalt Rubber SAMI ↓
Lindy's Cold Planing La Habra, CA	20	80.8%	Cold Plane AC

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.

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

Bidder Name: Granite Construction Company

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Column 1: Business Name and Location	Column 2: Bid Item Nos.	Column 3: Percentage of Bid Item Subcontracted	Column 4: Description of Subcontracted Work
Select Electric Inc Poway, CA			Electrical
AC Dike Lincoln, CA			Place HMA Dike and Misc. Areas
IRM Corp Oklahoma City, OK			High Friction Surface Treatment
Ace Fence Co. La Puente, CA			Guard Railing

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page 1 of 2

NB

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
Cal-Stripe Inc. Colton, CA			Striping, Markings, Markers
InterMountain Sherry Seal Sacramento, CA			Asphalt Rubber SAMI.
Lindy's Cold Planing La Habra, CA			Cold Plane AC

BIDDER'S BOND

DES-OE-0102.3 (REV 3/2008)

Bond No. N/A

We Granite Construction Company

as Principal, and

Federal 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 San Diego County near
(Copy here the exact description of work, including location, as it appears on the proposal)
Jamul from Route 54 to 0.2 mile East of Marron Valley Road
for which bids are to be opened at Irvine, CA

on 06/27/13
(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: June 20, 2013

Correspondence or claims relating to this bond should be sent to the surety at the following address:
Federal Insurance Company
15 Mountain View Road
Warren, NJ 07059

By Mike Boer
Mike Boer, Chief Estimator
Granite Construction Company
Principal
Federal Insurance Company
Surety
By Ashley Stinson
Attorney-in-Fact

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

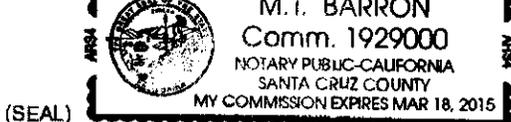
County of Santa Cruz

On this 06/20/13 before me, M.I. Barron, Notary Public
Date Here insert Name and Title of the Officer

personally appeared Ashley Stinson
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 law of the State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.

Signature M.I. Barron
M.I. Barron *Signature of Notary Public*

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**Chubb
Surety**

**POWER
OF
ATTORNEY**

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

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

Know All by These Presents, That FEDERAL INSURANCE COMPANY, an Indiana corporation, VIGILANT INSURANCE COMPANY, a New York corporation, and PACIFIC INDEMNITY COMPANY, a Wisconsin corporation, do each hereby constitute and appoint Jigisha Desai, John D. Gilliland, Catherine Gustavson, Cynthia P. Johnson, Kathleen Schreckengost, Ashley Stinson and Lillian Tse of Watsonville, California

each as their true and lawful Attorney- in- Fact to execute under such designation in their names and to affix their corporate seals to and deliver for and on their behalf as surety thereon or otherwise, bonds and undertakings and other writings obligatory in the nature thereof (other than bail bonds) given or executed in the course of business on behalf of Granite Construction Incorporated and all Subsidiaries alone or in joint venture in connection with bids, proposals or contracts to or with the United States of America, any State or political subdivision thereof or any person, firm or corporation. And the execution of such bond or obligation by such Attorney- in- Fact in the Company's name and on its behalf as surety thereon or otherwise, under its corporate seal, in pursuance of the authority hereby conferred shall, upon delivery thereof, be valid and binding upon the Company.

In Witness Whereof, said FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY have each executed and attested these presents and affixed their corporate seals on this 10th day of April, 2013.

Dawn M. Chloros
Dawn M. Chloros, Assistant Secretary

David B. Norris, Jr.
David B. Norris, Jr., Vice President

STATE OF NEW JERSEY

ss.

County of Somerset

On this 10th day of April, 2013 before me, a Notary Public of New Jersey, personally came Dawn M. Chloros, to me known to be Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY, the companies which executed the foregoing Power of Attorney, and the said Dawn M. Chloros, being by me duly sworn, did depose and say that he is Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY and knows the corporate seals thereof, that the seals affixed to the foregoing Power of Attorney are such corporate seals and were thereto affixed by authority of the By- Laws of said Companies; and that he signed said Power of Attorney as Assistant Secretary of said Companies by like authority; and that he is acquainted with David B. Norris, Jr., and knows him to be Vice President of said Companies; and that the signature of David B. Norris, Jr., subscribed to said Power of Attorney is in the genuine handwriting of David B. Norris, Jr., and was thereto subscribed by authority of said By- Laws and in deponent's presence.

Notarial Seal



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

Katherine J. Adelaar
Notary Public

CERTIFICATION

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

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

I, Dawn M. Chloros, Assistant Secretary of FEDERAL INSURANCE COMPANY, VIGILANT INSURANCE COMPANY, and PACIFIC INDEMNITY COMPANY (the "Companies") do hereby certify that

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

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

June 20, 2013



Dawn M. Chloros
Dawn M. Chloros, Assistant Secretary

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

OPT OUT OF PAYMENT ADJUSTMENTS FOR PRICE INDEX FLUCTUATIONS

DES-OE-0102.12A (REV. 8/2012)

To opt out of payment adjustments for price index fluctuations as specified, complete this form.

Bidder's Name: Granite Construction Company Contract No. 11 -290404

I opt out of the payment adjustments for price index fluctuations.

Date: _____

Signature: N/A

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.

CONTRACT NO. 11 -290404

Are you certified as a "Small Business" by the Office of Small Business and DVBE Services of the Department of General Services of the State of California? Check one:

Yes: Certification number? _____ No

Note: This small business questionnaire is included for statistical reporting only.

CERTIFICATIONS

FEDERAL-AID PROJECTS DISCLOSURE OF LOBBYING ACTIVITIES CERTIFICATION

Bidder certifies, to the best of his or her knowledge and belief:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure of Lobbying Activities," in conformance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 USC § 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Bidder also agrees by submitting a bid that it must require the language of this certification be included in subcontracts over \$100,000 and these subcontractors shall certify and disclose.

**INSTRUCTIONS FOR COMPLETION OF SF-LLL,
DISCLOSURE OF LOBBYING ACTIVITIES**

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence, the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last, previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitments for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.
(b) Enter the full names of the individual(s) performing services and include full address if different from 10(a). Enter Last Name, First Name, and Middle Initial (MI).
11. The certifying official shall sign and date the form, print his/her name title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, DC 20503.

N/A

DISCLOSURE OF LOBBYING ACTIVITIES

Approved by OMB

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

0348-0048

1. Type of Federal Action: <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	3. Report Type: <input type="checkbox"/> a. Initial <input type="checkbox"/> b. material change For Material Change Only: year _____ quarter _____ date of last report _____
4. Name and Address of Reporting Entity: <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, <i>if known</i> Congressional District, <i>if known:</i>	5. If Reporting Entity in No. 4 is Subawardee Enter Name and Address of Prime: Congressional District, <i>if known:</i>	
6. Federal Department/Agency:	7. Federal Program Name/Description: CFDA Number, if applicable _____	
8. Federal Action Number, if known:	9. Award Amount, if known: \$ _____	
10 a. Name and Address of Lobby Registrant <i>(If individual, last name, first name, MI):</i>	b. Individuals Performing Services (including address if different from No. 10a) <i>(last name, first name, MI):</i>	
11. Information requested through this form is authorized by Title 31 U.S.C. Section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature: <u>N/A</u> Print Name: _____ Title: _____ Telephone No.: _____ Date: _____	
Federal Use Only		Authorized for Local Reproduction Standard Form - LLL (Rev. 7-97)

EQUAL EMPLOYMENT OPPORTUNITY REGULATION CERTIFICATION

*Granite Construction Company

Bidder _____, proposed subcontractor _____, certifies that he has has not participated in a previous contract or subcontract subject to the equal opportunity clauses, as required by Executive Orders 10925, 11114, or 11246, and that, if required, he has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance, a Federal Government contracting or administering agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the filing requirements.

Notes:

- The above certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor (41 CFR 60-1.7(b) (1)), and must be submitted by bidders and proposed subcontractors only in connection with contracts and subcontracts which are subject to the equal opportunity clause. Contracts and subcontracts which are exempt from the equal opportunity clause are set forth in 41 CFR 60-1.5. (Generally only contracts or subcontracts of \$10,000 or under are exempt.)
- Currently, Standard Form 100 (EEO-1) is the only report required by the Executive Orders or their implementing regulations.
- Prime contractors and subcontractors who have participated in a previous contract or subcontract subject to the Executive Orders and have not filed the required reports should note 41 CFR 60-1.7(b) (1) prevents the award of contracts and subcontracts unless the Contractor submits a report covering the delinquent period or such other period specified by the Federal Highway Administration or by the Director, Office of Federal Contract Compliance, U.S. Department of Labor.

TITLE 49, CODE OF FEDERAL REGULATIONS, PART 29, DEBARMENT AND SUSPENSION CERTIFICATION

Bidder, under penalty of perjury, certifies that, except as noted below, it or any other person associated therewith in the capacity of owner, partner, director, officer, manager:

- is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any federal agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past 3 years;
- does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgement rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

- No exceptions

Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted above, indicate below to whom it applies, initiating agency, and dates of action.

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 County of San Diego

Mike Boer, being first duly sworn, deposes and says that he or she is

Chief Estimator of Granite Construction Company 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

GRANITE CONSTRUCTION COMPANY

CERTIFICATE OF SECRETARY

RESOLVED, that, effective April 1, 2013 through December 31, 2013, the individuals named on the attached Exhibit 1 are authorized to negotiate, execute and attest electronic and paper documents necessary for the conduct of the Company's affairs with respect to the submission and execution of construction project bids, bid proposals, bid addenda and all other bid-related documents prepared and submitted on behalf of the Company not to exceed \$25 million, relating to any and all domestic construction projects arising out of the Company's operations.

RESOLVED, that, effective April 1, 2013 through December 31, 2013, the individuals named on the attached Exhibit 2 are authorized to negotiate, execute and attest electronic and paper documents necessary for the conduct of the Company's affairs with respect to the submission and execution of construction project bids, bid proposals, bid addenda and all other bid-related documents prepared and submitted on behalf of the Company not to exceed \$75 million, relating to any and all domestic construction projects arising out of the Company's operations.

I, Richard A. Watts, do hereby certify that I am duly qualified as Secretary of GRANITE CONSTRUCTION COMPANY, a California corporation (the "Company"); that the foregoing is a true and correct copy of resolutions duly adopted effective April 1, 2013 by unanimous written consent of the Executive Committee of the Board of Directors, held without a meeting in accordance with the provisions of Article III, Section 9 of the Bylaws of the Company; that the Directors acting were duly and regularly elected; and that the resolution adopted has not been modified or repealed and is still in full force and effect.

Dated: May 29, 2013


Richard A. Watts

EXHIBIT 1

AUTHORIZED SIGNERS **Granite Construction Company** **Southern California Region** **Indio/San Diego Areas**

DESIGNATED SIGNERS

Jerry Lusich, Regional Chief Estimator
Patrick C. Kelly, Chief Estimator
Mike Boer, Chief Estimator
Joseph P. Richardson, Senior Estimator
Brad J. Williams, Large Project Executive
Matt Beiswenger, Construction Manager
Jeff J. Mercer, Construction Manager
Mark A. Chalfa, Construction Manager
Pike Riegert, Construction Manager
Daniel Rodriguez, Regional Business Manager
Lon Dillman, Regional Office Manager

ATTESTORS

Jerry Lusich, Regional Chief Estimator
Patrick C. Kelly, Chief Estimator
Mike Boer, Chief Estimator
Joseph P. Richardson, Senior Estimator
Brad J. Williams, Large Project Executive
Matt Beiswenger, Construction Manager
Jeff J. Mercer, Construction Manager
Mark A. Chalfa, Construction Manager
Pike Riegert, Construction Manager
Daniel Rodriguez, Regional Business Manager
Lon Dillman, Regional Office Manager
Susan Corkill, Senior Administrative Assistant
Tamara Speer, Project Pursuit Coordinator
Nelly Menjivar, Estimating Assistant
Carolyn Maness, Estimating Assistant

EXHIBIT 2

AUTHORIZED SIGNERS
Granite Construction Company
California Group

DESIGNATED SIGNERS

Jim Radich, VP Northern California Region
Bruce McGowan, VP Central California Region
David A. Donnelly, VP Southern California Region
James William McGowan, VP Large Projects
Jay L. McQuillen, Jr., VP Federal

A-4

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
OFFICE ENGINEER
1727 30th Street MS-43
P.O. BOX 168041
SACRAMENTO, CA 95816-8041
FAX (916) 227-6214
TTY 711



*Flex your power!
Be energy efficient!*

June 14, 2013

11-SD-94-14.9/30.0
11-290404
Project ID 1100000360
ACNH-P094(059)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for **CONSTRUCTION ON STATE HIGHWAY IN SAN DIEGO COUNTY NEAR JAMUL FROM ROUTE 54 TO 0.2 MILE EAST OF MARRON VALLEY ROAD.**

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 Thursday, June 27, 2013.

This addendum is being issued to revise the *Notice to Bidders and Special Provisions, the Information Handout, and the Federal Minimum Wages with Modification Number 7* dated 05/31/2013.

In the Special Provisions, Section 2-1.06B is replaced as attached.

In the Special Provisions, Section 10-1.02 is replaced as attached.

In the Special Provisions, Section 10-1.03 is replaced as attached.

In the Special Provisions, Section 12-4.05F, "Chart no. F5," is added as attached.

In the Special Provisions, Section 12-4.05H is added as attached.

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

The *information Handout* is replaced as attached.

Addendum No. 1
Page 2
June 14, 2013

11-SD-94-14.9/30.0
11-290404
Project ID 1100000360
ACNH-P094(059)E

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.

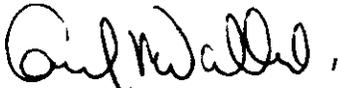
Inform subcontractors and suppliers as necessary.

This addendum, attachments and the modified wage rates are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/11/11-290404

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,



for LAURIE BERMAN
District Director

Attachments

Add to section 2-1.06B:

The Department makes the following supplemental project information available:

Supplemental Project Information

Means	Description
Included in the <i>Information Handout</i>	<ol style="list-style-type: none">1. United States Fish and Wildlife Service, Special Use Application and Permit, Dated June 19, 2012 - with revisions dated June 4, 2013.2. Vestar Property Management, Permit to Enter and Construct, Dated October 2, 20123. YMCA of San Diego County, Permit to Enter and Construct, Dated May 24, 20124. Grossmont Union High School District, Permit to Enter and Construct, Dated May 3, 2012 - revised May 23, 2013.

Add to section 10-1.02:

Do not place the uppermost layer of new pavement until all underlying conduits are installed. Detector loops may be installed after the uppermost layer of new pavement has been placed.

Before starting the traffic signal functional test at any location, all items of work related to signal control must be completed and all roadside signs, pavement delineation, and pavement markings must be in place at that location.

Replace "Reserved" in section 10-1.03 of the RSS for section 10-1 with:

Work at the following locations per Chart no. F5, Chart no. H1 and Chart no.H2 requirements:

1. Curb Ramp Locations #9 and #10

Stagger work at the following locations so that only one driveway will be under construction at a time. Complete work only on Mondays, Tuesdays, Wednesdays and Thursdays. Work must be complete before October 1, 2013:

1. Curb Ramp Locations #3, #4, #5, #6, #7, and #8

**Chart no. F5
Conventional Highway Lane Requirements**

County: SD	Route/Direction: 94/WB	PM: 16.18 – 16.38																								
Closure limits: 0.10 Mi. west of Cougar Canyon Dr. to 0.10 Mi. east of Cougar Canyon Rd.																										
From hour to hour	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Mondays	S	S	S	S	S																					
Fridays																				S	S	S	S	S	S	S
Saturdays	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Sundays	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S

Legend:

S Shoulder closure allowed (right / left)

Work allowed within the highway where shoulder or lane closure is not required

REMARKS

This chart to be used (2) two weekends only

Replace Section 12-4.05H with:

12-4.05H

Chart no. H1 Road / City Street - Lane Requirements																										
County: SD					Route/Direction: NB Cougar Canyon Dr.										PM:											
Closure limits: @ Rte. 94																										
From hour to hour		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays		1	1	1	1	1																				
Fridays																				1	1	1	1	1	1	1
Saturdays		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sundays		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Legend:
 1 Provide at least 1 through traffic lane open in direction of travel
 Work allowed within the highway where shoulder or lane closure is not required

REMARKS:
 This chart to be used for (1) one weekend only

Chart no. H2 Road / City Street - Lane Requirements																										
County: SD					Route/Direction: SB Cougar Canyon Dr.										PM:											
Closure limits: @ Rte. 94																										
From hour to hour		24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mondays		1	1	1	1	1																				
Fridays																				1	1	1	1	1	1	1
Saturdays		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sundays		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Legend:
 1 Provide at least 1 through traffic lane open in direction of travel
 Work allowed within the highway where shoulder or lane closure is not required

REMARKS:
 This chart to be used for (1) one weekend only
 This chart can't be used in conjunction with chart H1

37 BITUMINOUS SEALS

Add to section 37-2.01A:

Asphalt rubber stress absorbing membrane interlayer (SAMI) includes applying heated asphalt rubber binder, followed by heated screenings precoated with asphalt binder.

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

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

descending viscosity reading: Subsequent viscosity reading 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 SAMI

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 SAMI 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 SAMI

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. Start 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 2 consecutive descending viscosity readings have been obtained and the final viscosity meets the specification requirement. After meeting the 2 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 ± 1 percent by weight asphalt binder and 21 ± 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 ± 2 percent by weight scrap tire crumb rubber and 24 ± 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	80
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 SAMI 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 ² /s (x 10 ⁻⁶) at 100 °C	ASTM D 445	X ± 3 ^a
Flash point, C.L.O.C., °C	ASTM D 92	207 min
Molecular analysis		
Asphaltenes, percent by mass	ASTM D 2007	0.1 max
Aromatics, percent by mass	ASTM D 2007	55 min

^a "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:

Crumb Rubber Modifier

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:

Scrap Tire Crumb Rubber Gradation
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 crumb rubber must have the gradation shown in the following table:

High Natural Crumb Rubber Gradation
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 ± 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 ± 0.5 g, measure 24.5 ± 0.5 mm in diameter, and have a Shore Durometer "A" hardness of 50 ± 5 determined under ASTM D 2240. After sieving the combined material for 10 ± 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 SAMI

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

Asphalt Rubber SAMI 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:

Screenings

Properties	Test method	Value
Cleanness value, min	California Test 227	80
Durability, min	California Test 229	52

Screenings for asphalt rubber SAMI 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 SAMI

Equipment for asphalt rubber SAMI 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.

Replace section 37-2.03E with:

37-2.03E Precoating Screenings

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

For asphalt rubber SAMI, 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.

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 SAMI

During transit, cover precoated screenings for asphalt rubber SAMI 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 SAMI 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 SAMI

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 final sweep before overlying the SAMI with HMA.

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

Add to section 37-2.04:

Screenings for asphalt rubber SAMI 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 SAMI 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 SAMI 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 ^a	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

^a Test Result = TR

Add to section 37-5.02:

Crack treatment material must be Type 3

Add to section 37-5.03:

Crack treatment must be hot applied.

Construct the reservoir 3/4 inches wide by 3/4 inches deep.