

## NOTICE TO BIDDERS

November 3, 2016

### ADDENDUM NO. 1

**Bid. No. 17-22**

**Rochester 22712/X-A002(377)**

**Salmon Falls Road Highway Safety Improvement Program (HSIP) Project**

Bidders shall acknowledge receipt of this Addendum No. 1 on page BP-12 of the Bid Proposal.

#### Item 1: Bid Date/Time

Bidders are hereby notified that no changes have been made to the bid due date and time. Bids are still due on **November 10, 2016 at 2:15 p.m.** (local time), at the City of Rochester, Purchasing Agent, 31 Wakefield Street, Rochester, NH 03867.

#### Item 2: Asphalt Cement Adjustment

Item 1010.2 – Asphalt Cement Adjustment has been added to the contract. The original Prosecution of Work, contained in *Section A - Special Conditions* of the Specifications, shall have pages POW-11 and POW-12 removed and replaced with the attached current pages POW-11 and POW-12. The original *Exhibit A - Bid Proposal*, contained in *Section B - Bid Documents* of the Specifications, should be removed and replaced with the attached current *Exhibit A - Bid Proposal*. *SPECIAL PROVISION – Asphalt Cement Adjustment and Asphalt Cement Adjustment for Emulsion*, attached, shall be added to *Section E – Technical Specification* under the category of Supplemental Specifications of the Specifications.

#### Item 3: Responses to Questions Received

Question: “Do the hydrant adjustments require lateral and/or vertical adjustments?”

Response: *Specifics related to Item. 611.811 – Adjusting/Relocating Hydrant are as follows:*

- *108+93 LT – Vertical adjustment*
- *113+50 LT – Vertical adjustment*
- *153+06 LT – Relocation to 153+06, 23.0 LT (Lateral. & Vertical adjustment)*

**END OF ADDENDUM NO. 1**

Review by the ENGINEER of this schedule shall have no effect on the CONTRACTOR'S responsibility to perform the work within the contract time. No permission for deviation granted shall allow the delay of Substantial Completion, unless specifically addressed by Change Order.

#### **Y. COMPLETION DATE(S)**

Completion times for the project will be calculated as calendar days from the date specified in the "Notice to Proceed" as follows:

- 75 calendar days for Substantial Completion.
- 25 calendar days for Final Completion.

#### **Z. INSURANCE REQUIREMENTS**

Insurance limits shall be provided by the CONTRACTOR and its subcontractors as defined in the Supplementary Conditions Section SC 5.16.

The certificate holder (City of Rochester, 31 Wakefield Street, Rochester, NH 03867), ENGINEER, and ENGINEER'S materials testing subconsultant shall be named as additional insured. Should any of the policies described above be canceled before the expiration date of the policy, the issuing company shall give the certificate holder 30 days written notice via certified mail. The expiration date of the policy shall be after the completion date of the project.

The CONTRACTOR shall provide Certificates of Insurance for all subcontractors to the OWNER prior to the subcontractor beginning work. The limits of liability insurance for subcontractors shall be the same as for the CONTRACTOR.

#### **AA. FUEL AND ASPHALT ESCALATION**

No provisions for fuel adjustments are included in the Contract. Item. 1010.2 – Asphalt Cement Adjustment is included in the Contract. The provisions for the use of this item must be in accord with the NHDOT provisions for this item. The fixed base price for Asphalt Cement shall be based on the published value for **October 2016**.

#### **BB. CONSTRUCTED UTILITIES MARK-UP**

The CONTRACTOR is to maintain an up-to-date running mark-up of the Contract Plans reflecting as-built utilities to support the OWNER'S location of newly constructed facilities; particularly during non-work periods. This requirement is in addition to other as-built plan requirements noted elsewhere.

#### **CC. PRECONSTRUCTION PHOTOGRAPHS**

Preconstruction digital photographs or video of the entire construction site including all areas within the scope of work, DigSafe utility mark out, proposed detour routes, and access roads

leading to construction areas, shall be completed or recorded and provided by the CONTRACTOR to the ENGINEER one week prior to start of work. Photographs or video shall be provided digital format as approved by ENGINEER. Three copies of the digital photo log or video shall be prepared and provided one each to the OWNER, ENGINEER and CONTRACTOR.

#### **DD. RECORD PLANS**

The CONTRACTOR shall submit as-built plans on reproducible mylar and in digital format (AutoCAD) on CD to the ENGINEER upon completion of the project. As-builts shall be prepared and certified by a registered New Hampshire Land Surveyor or Professional Engineer.

END OF SECTION

# EXHIBIT A BID PROPOSAL

BIDDER: \_\_\_\_\_

PROJECT: Rochester 22712/X-A002(377)  
Salmon Falls Road Highway Safety Improvement Program (HSIP) Project

OWNER: City of Rochester, New Hampshire

The undersigned, hereafter referred to as the BIDDER, has examined the Contract Documents prepared in connection herewith by CMA Engineers, Inc., the ENGINEER. In addition, he has examined the site and is familiar with all the conditions surrounding the Work contemplated.

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices or lump sums:

## BID SCHEDULE

NO.	ITEM LUMP SUM OR UNIT PRICE (WORDS)	UNIT	EST QTY	LUMP SUM OR UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)
201.1	Clearing and Grubbing (F) _____ dollars and _____ cents.	A	0.7	\$ _____	\$ _____
201.22	Removing Large Trees _____ dollars and _____ cents.	EA	6	\$ _____	\$ _____
202.41	Removal of Existing Pipe 0-24" Diameter _____ dollars and _____ cents.	LF	35	\$ _____	\$ _____
203.1	Common Excavation _____ dollars and _____ cents.	CY	4840	\$ _____	\$ _____
203.2	Rock Excavation (Undetermined Locations) _____ dollars and _____ cents.	CY	120	\$ _____	\$ _____

NO.	ITEM LUMP SUM OR UNIT PRICE (WORDS)	UNIT	EST QTY	LUMP SUM OR UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)
203.4	Muck Excavation (Undetermined Locations) _____ dollars and _____ cents.	CY	120	\$ _____	\$ _____
203.6	Embankment in Place (F) _____ dollars and _____ cents.	CY	535	\$ _____	\$ _____
206.19	Common Structure Excavation Exploratory _____ dollars and _____ cents.	CY	10	\$ _____	\$ _____
214	Fine Grading _____ dollars and _____ cents.	U	1	\$ _____	\$ _____
304.1	Sand _____ dollars and _____ cents	CY	240	\$ _____	\$ _____
304.35	Crushed Gravel for Drives _____ dollars and _____ cents	CY	120	\$ _____	\$ _____
304.4	Crushed Stone (Fine Gradation) (F) _____ dollars and _____ cents	CY	1550	\$ _____	\$ _____
304.5	Crushed Stone (Coarse Gradation) (F) _____ dollars and _____ cents	CY	2900	\$ _____	\$ _____
403.11	Hot Bituminous Pavement, Machine Method _____ dollars and _____ cents	TON	1400	\$ _____	\$ _____

NO.	ITEM LUMP SUM OR UNIT PRICE (WORDS)	UNIT	EST QTY	LUMP SUM OR UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)
403.12	Hot Bituminous Pavement, Hand Method _____ dollars and _____ cents	TON	40	\$ _____	\$ _____
403.6	Pavement Joint Adhesive _____ dollars and _____ cents	LF	4550	\$ _____	\$ _____
403.99T	Temporary Bituminous Pavement (Trench Patch) _____ dollars and _____ cents	LF	95	\$ _____	\$ _____
410.22	Asphalt Emulsion for Tack Coat _____ dollars and _____ cents	GAL	190	\$ _____	\$ _____
417	Cold Planing Bituminous Surfaces _____ dollars and _____ cents	SY	350	\$ _____	\$ _____
417.412	Rumble Strips, 12" Wide _____ dollars and _____ cents	LF	530	\$ _____	\$ _____
572.1	Reconstructing Stone Wall One Stone Wide _____ dollars and _____ cents	LF	585	\$ _____	\$ _____
585.3	Stone Fill, Class C _____ dollars and _____ cents	CY	30	\$ _____	\$ _____

NO.	ITEM LUMP SUM OR UNIT PRICE (WORDS)	UNIT	EST QTY	LUMP SUM OR UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)
593.421	Geotextile; Perm. Control Cl. 2, Non- Woven _____ dollars and _____ cents	SY	240	\$ _____	\$ _____
603.00215	15" R.C. Pipe, 2000D _____ dollars and _____ cents	LF	425	\$ _____	\$ _____
604.0007	Polyethylene Liners _____ dollars and _____ cents	EA	1	\$ _____	\$ _____
604.12	Catch Basin, Type B _____ dollars and _____ cents	U	1	\$ _____	\$ _____
606.1254	Beam Guardrail (Terminal Unit Type EAGRT, TL 3) (Steel Post) _____ dollars and _____ cents	U	1	\$ _____	\$ _____
606.127	Beam Guardrail (terminal End Unit G-2) (Steel Post) _____ dollars and _____ cents	U	1	\$ _____	\$ _____
606.18001	31" W-Beam Guardrail With 8" Offset Block (Steel Post) _____ dollars and _____ cents	LF	130	\$ _____	\$ _____
611.811	Adjusting/Relocating Hydrants _____ dollars and _____ cents	EA	3	\$ _____	\$ _____
611.90001	Adjusting Water Gates and Shutoffs Set by Others _____ dollars and _____ cents	EA	3	\$ _____	\$ _____

NO.	ITEM LUMP SUM OR UNIT PRICE (WORDS)	UNIT	EST QTY	LUMP SUM OR UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)
615.02	Traffic Signs Type B (F) _____ dollars and _____ cents	SF	8	\$ _____	\$ _____
615.03	Traffic Signs Type C (F) _____ dollars and _____ cents	SF	118	\$ _____	\$ _____
615.06	Traffic Signs Type CC (F) _____ dollars and _____ cents	SF	16	\$ _____	\$ _____
618.61	Uniformed Officer with Vehicle <u>Seven Thousand One Hundred</u> dollars and <u>No</u> cents	\$	1	<u>\$7,100.00</u>	<u>\$7,100.00</u>
618.7	Flaggers _____ dollars and _____ cents.	HR	1080	\$ _____	\$ _____
619.1	Maintenance of Traffic _____ dollars and _____ cents.	U	1	\$ _____	\$ _____
619.253	Portable Changeable Message Sign (Unit Week) _____ dollars and _____ cents.	UWK	33	\$ _____	\$ _____
621.31	Single Delineator With Post _____ dollars and _____ cents.	EA	36	\$ _____	\$ _____
622.1	Steel Witness Marker _____ dollars and _____ cents.	EA	6	\$ _____	\$ _____



NO.	ITEM LUMP SUM OR UNIT PRICE (WORDS)	UNIT	EST QTY	LUMP SUM OR UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)
628.2	Sawed Bituminous Pavement _____ dollars and _____ cents.	LF	220	\$ _____	\$ _____
632.0104	Retroreflective Paint Pave. Marking 4” Line _____ dollars and _____ cents.	LF	11100	\$ _____	\$ _____
632.3118	Retroreflect. Thermoplas. Pave. Marking, 18” Line _____ dollars and _____ cents.	LF	45	\$ _____	\$ _____
641	Loam _____ dollars and _____ cents.	CY	580	\$ _____	\$ _____
645.44	Temporary Slope Stabilization Type D (Wildlife Friendly) _____ dollars and _____ cents.	SY	1450	\$ _____	\$ _____
645.51	Hay Bales for Temporary Erosion Control _____ dollars and _____ cents.	EA	80	\$ _____	\$ _____
645.531	Silt Fence _____ dollars and _____ cents.	LF	3800	\$ _____	\$ _____
645.7	Storm Water Pollution Prevention Plan _____ dollars and _____ cents.	U	1	\$ _____	\$ _____
645.71	Monitoring SWPPP and Erosion Sediment Controls _____ dollars and _____ cents.	HR	40	\$ _____	\$ _____

NO.	ITEM LUMP SUM OR UNIT PRICE (WORDS)	UNIT	EST QTY	LUMP SUM OR UNIT PRICE (FIGURES)	TOTAL PRICE (FIGURES)
646.312	Turf Establishment with Mulch and Tackifiers (F) _____ dollars and _____ cents.	SY	5150	\$ _____	\$ _____
656	Project Landscaping <u>Eight Thousand</u> _____ dollars and <u>zero</u> _____ cents.	\$	1	<u>\$8,000</u>	<u>\$8,000</u>
670.066	Mailbox Support Assemblies _____ dollars and _____ cents.	EA	5	\$ _____	\$ _____
692	Mobilization _____ dollars and _____ cents.	U	1	\$ _____	\$ _____
699	Miscellaneous Temporary Erosion and Sediment Control <u>Two Thousand Five Hundred</u> _____ dollars and <u>zero</u> _____ cents.	\$	1	<u>\$2,500</u>	<u>\$2,500</u>
1010.2	Asphalt Cement Adjustment <u>Ten Thousand</u> _____ dollars and <u>zero</u> _____ cents	\$	1	<u>\$10,000</u>	<u>\$10,000</u>

**Total Base Bid:**

(Figures) \_\_\_\_\_

(Written) \_\_\_\_\_ dollars and \_\_\_\_\_ cents

The Bidder agrees to **add or deduct** work required by the Owner or Engineer for the above mentioned unit or lump sum prices (as applicable).

The undersigned, as Contractor herein referred to as singular and masculine declares as follows:

- (1) The only parties interested in the BID as Principals are named herein;
- (2) This BID is made without collusion with any other person, firm, or corporation;

- (3) He has carefully examined the site of the proposed work and is fully informed and has satisfied himself as to the conditions there existing, the character and requirements of the proposed Work, the difficulties attendant upon its execution. He has carefully read and examined the Drawings, the proposed AGREEMENT and the Specifications and other Contract Documents therein referred to and knows and understands the terms and provisions thereof;
- (4) He understands the information relative to subsurface and other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) has been furnished only for his information and convenience without any warranty or guarantee, expressed or implied, that the subsurface and/or other conditions, natural phenomena, existing pipes and other structures (surface or subsurface) actually encountered will be the same as those shown on the Drawings or in any other Contract Documents and he agrees that he shall not use or be entitled to use such information made available to him through the Contract Documents or otherwise obtained by him in his own examination of the site, as a basis of or ground for any claim against the Owner or Engineer arising from or by reasons of any variance which may exist between the aforesaid information made available to, or otherwise obtained by, him and the subsurface and/or other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) actually encountered during the construction work, and he has made due allowance therefore in the BID;
- (5) He understands that all reports of investigations and tests of subsurface physical conditions at the site and other information affecting the performance of the Work which have been relied upon by the Engineer in preparation of the Drawings and Specifications are not guaranteed as to accuracy or completeness and are not part of the Contract Drawings.
- (6) And he understands that the quantities of work tabulated in this Proposal and indicated on the Drawings and in the Specifications and other Contract Documents are approximate and are subject to increase or decrease as deemed necessary by the Engineer, and as allowed for under the Contract Documents.

The undersigned agrees that for extra work, if any, authorized in writing by the Engineer to be performed by him in accordance with the terms and provisions of the Agreement, he will accept compensation as stipulated in the Contract Documents in full payment for such extra work, and agrees that for reductions in work as directed by the Engineer, he will accept reduced compensation as stipulated in the Contract Documents.

If this Bid Proposal is accepted by the Owner, the undersigned agrees to substantially complete the work provided to be done under the Contract within the specified number of calendar days as defined in the Agreement from the date of start of the Contract (as defined in the Notice to Proceed), and accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete work on time, except as otherwise expressly provided in the Agreement.

The Bidder hereby agrees that, once opened, he will not withdraw this Bid within 90 days of Bid opening, and that if the Owner shall accept this Bid, the Bidder will duly execute the Contract and provide BONDS as provided in the Instructions to Bidders.

### **Additional Bid Representations**

Unit prices include overhead and profit, in accordance with the General Conditions.

The OWNER reserves the right to add or delete any of the above work items.

The BIDDER agrees that the Work will be completed in accordance with the General Conditions within the specified contract time.

The Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete work within the times specified in the Agreement.

The following documents are attached to and made a condition of this Bid:

- A. Required Bid security
- B. Affidavit of Non-Collusion

Communications concerning this Bid shall be addressed to (the address of Bidder indicated below):

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Terms used in this Bid which are defined in the General Conditions or Instructions to Bidders will have the meanings indicated in the General Conditions or Instructions to Bidders.

#### Construction Proposal

It is proposed:

To execute the Contract and begin work within 10 days from the date specified in the “Notice to Proceed” and to prosecute said work so as to complete the Rochester 22712/X-A002(377) Salmon Falls Road Highway Safety Improvement Program (HSIP) Project and its appurtenances on or before the dates or contract duration specified in The Contract Agreement.

To furnish a Contract Bond in the amount of 100 percent of the Contract award, as security for the construction and completion of the Rochester 22712/X-A002(377) Salmon Falls Road Highway Safety Improvement Program (HSIP) Project and its appurtenances in accordance with the Plans, Specifications and Contract. The Contractor’s attention is called to Section 103.05 of the NHDOT Standard Specifications for road and bridge construction which provides the following guidance: unless specifically waived in the Proposal, upon execution of the Contract, the successful Bidder shall furnish the Agency a surety bond or bonds equal to the sum of the Contract amount. The form of the bond(s) shall be acceptable to the Agency and the Bonding Company issuing the bond shall be licensed to transact business in the State of New Hampshire.

To certify that the Bidder, in accordance with the requirements of 103.06 and 108.01, intends to sublet, assign, sell, transfer or otherwise dispose of one or more portions of the work and (1) has contacted the appropriate listed disadvantaged businesses and afforded such disadvantaged businesses equal consideration with non-disadvantaged businesses for all work the Bidder currently proposes to sublet, assign, sell, transfer or otherwise dispose of, (2) may contact additional appropriate disadvantaged businesses and will afford such businesses equal consideration with non-disadvantaged businesses for all the work the Bidder in the future proposes to sublet, assign, sell, transfer or otherwise dispose of, and (3) will complete enclosed “DISADVANTAGED BUSINESS ENTERPRISE COMMITMENT FORM” and Letters of Intent for each

disadvantaged business. The name of the person in the Bidder's organization who has been designated as the liaison officer to administer the disadvantaged business enterprise program is:

\_\_\_\_\_  
(To be completed by the Bidder)

To guarantee all of the work performed under this Contract to be done in accordance with the Specifications and in good and workmanlike manner, and to renew or repair any work which may be rejected, due to defective materials or workmanship, prior to final completion and acceptance of the project.

Enclosed herewith find certified check or bid bond in the amount of \_\_\_\_\_

\_\_\_\_\_dollars and \_\_\_\_\_ cents (\$\_\_\_\_\_ ), made payable to the Owner as a proposal guarantee which it is understood will be forfeited in the event the Contract is not executed, if awarded by the OWNER to the undersigned.

Certification Regarding Debarment, Suspension, and Other Responsibility Matters – Primary Covered Transactions.

(1). The prospective primary participant certifies to the best of its knowledge and belief, that it and all its principals: (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency; (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or Local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property; (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in Paragraph (1) (b) of this certification and (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or Local) terminated for cause of default. (2). Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Contract Affidavit

I/We declare under penalty of perjury under the laws of the United States and the State of New Hampshire that, in accordance with the provisions of Title 23 USC, Section 112(c), have not either directly or indirectly entered into any agreement, participated in any collusion or otherwise taken any action in restraint or free competitive bidding in connection with this proposal.

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

*(If a firm or individual)*

Signature of Bidder\_\_\_\_\_

By\_\_\_\_\_

Address of Bidder\_\_\_\_\_

Name and address of Members of the Firm:

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*(If a Partnership)*

By \_\_\_\_\_  
(SEAL) (Firm Name)

\_\_\_\_\_  
(General Partner)

doing business as \_\_\_\_\_

Business address \_\_\_\_\_

---

Phone No.: \_\_\_\_\_

*(If a Corporation)*

Signature of Bidder \_\_\_\_\_

Title \_\_\_\_\_

By \_\_\_\_\_

Business Address \_\_\_\_\_

Incorporated under the laws of the State of \_\_\_\_\_

Names of Officers:

President \_\_\_\_\_  
Name Address

Secretary \_\_\_\_\_  
Name Address

Treasurer \_\_\_\_\_  
Name Address

## ADDENDA

The BIDDER acknowledges receipt of the following Addenda\*

No. \_\_\_\_\_ Dated \_\_\_\_\_

No. \_\_\_\_\_ Dated \_\_\_\_\_

No. \_\_\_\_\_ Dated \_\_\_\_\_

No. \_\_\_\_\_ Dated \_\_\_\_\_

No. \_\_\_\_\_ Dated \_\_\_\_\_

No. \_\_\_\_\_ Dated \_\_\_\_\_

*\* to be filled in as appropriate*

07/28/16

SSD: 3/31/14, 7/30/75, 5/9/83, 12/5/84, 2/12/92, 10/19/93, 5/9/94, 1/26/95, 12/30/96,  
02/24/97, 12/08/08, 4/15/09, 01/01/12, 04/16/12, 03/24/15, 01/15/16, 02/21/16

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October 15, 2016

**SPECIAL ATTENTION****ASPHALT CEMENT ADJUSTMENT AND  
ASPHALT CEMENT ADJUSTMENT FOR EMULSION**

Bid items involving asphalt concrete mixtures containing asphalt cement may be subject to a price adjustment. Only the asphalt portion of asphalt-rubber cement will be eligible for price adjustment. The adjustment will take effect when the monthly price for asphalt cement as furnished by the Bureau of Materials and Research differs from the base price contained in the proposal. Affected Sections and formulas are detailed below.

**The base price\* of asphalt cement for this Contract is \$ 350.00 per ton.**

\* Source: The base price is developed from data published in the *Asphalt Weekly Monitor*, a publication from Poten and Partners, Inc. (Applies to contracts advertised after January 1, 2012.)

The **monthly price** of asphalt cement will be furnished by the Bureau of Materials and Research on the first business day following the 14th calendar day of each month.

The contract prices of bituminous materials will be paid under the respective items in the contract. The price adjustment, as provided herein, upwards or downwards, will be made at the end of each month in which the work was accomplished as follows:

**Item 403.\_\_ - Pavement (except items 403.4 & 403.6\_) and Item 411.\_\_ - Hot Bituminous Concrete Leveling Course and Plant Mix Surface Treatment**

The price adjustment will be based on the percent of virgin asphalt cement stated in the Approved Mix Design containing the maximum percentage of reclaimed asphalt pavement. In the event of breakdown or unforeseen circumstances other than weather, an Approved Virgin Mix Design may be used. The price adjustment will then be based on the total percent of virgin asphalt cement in that approved design.

A contract adjustment will be made under Item 1010.2 based on; [monthly price minus the base price] X [Approved Mix Design percent of virgin asphalt cement] X [tons of pavement used].



07/28/16

SSD: 3/31/14, 7/30/75, 5/9/83, 12/5/84, 2/12/92, 10/19/93, 5/9/94, 1/26/95, 12/30/96,  
02/24/97, 12/08/08, 4/15/09, 01/01/12, 04/16/12, 03/24/15, 01/15/16, 02/21/16

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### Item 410.72 - Chip Seal Surface Treatment Rubber Polymerized

A contract adjustment will be made under Item 1010.2 based on; [monthly price minus the base price] X [asphalt factor] X [tons of AC used] where:

Assumptions:

- Asphalt factor equals 82%
- Tons of AC used equals the total number of gallons sprayed divided by 235

### Item 419.1\_\_ - Bonded Wearing Course

A contract adjustment will be made under Item 1010.2 based on; [monthly price minus the base price] X [Total AC in the BWC process percent] X [tons of BWC paved] where:

Assumptions:

- Total AC in the BWC process equals 6% (includes the emulsion tack coat)
- Tons of BWC equals 0.0425 times the number of SYs paved (85 lbs/SY)

### Item 419.2\_\_ – AR Bonded Wearing Course

A contract adjustment will be made under Item 1010.2 based on; [monthly price minus the base price] X [Total AC in the AR BWC process percent] X [asphalt factor] X [tons of BWC paved] where:

Assumptions:

- Total AC in the BWC process equals 6% (includes the emulsion tack coat)
- Asphalt factor equals 82%
- Tons of BWC equals 0.0425 times the number of SYs paved (85 lbs/SY)

### Emulsified Asphalt Cement [Including Items 405.\_\_, 410.\_\_ (excluding 410.22 & 410.72), 418.11\_\_ and 418.32]

A contract adjustment will be made under Item 1010.21 based on; [monthly price minus the base price] X [percent of residual asphalt cement] X [Tons of Emulsion used].

Assumptions:

- Quantities are assumed to be measured at 60° F
- Volume reduction between typical delivery temperature (+/- 140° F) and 60° F is 2%
- Adjustment payment assumes 62% Residual Asphalt for all grades
- 239 Gallons/Ton is the unit conversion at 60° F

Item 1010.2	Asphalt Cement Adjustment <sup>1</sup>	Dollar
Item 1010.21	Asphalt Cement Adjustment for Emulsion <sup>1</sup>	Dollar

When no item for Asphalt Cement Adjustment and/or Asphalt Cement Adjustment for Emulsion is included in the contract no adjustments will be made.

<sup>1</sup> Not a bid item