



**ADDENDUM #1
Public Works
Emulsified Asphalt Products and/or application
BID # 7324-22**

March 29, 2022

The attached addendum supersedes the original Information and Specifications regarding BID # 7324-22 where it adds to, deletes from, clarifies or otherwise modifies. All other conditions and any previous addendums shall remain unchanged.

Please note: Due to COVID-19, BIDS will only be accepted electronically by emailing purchasing@bouldercounty.org.

1. Question: Is the bid only for CRS-2P? We have supplied Boulder for several years with CRS-2R and would like the opportunity to bid this

ANSWER:

We are taking bids on the following:

Cationic Rapid Setting Emulsified Asphalt, Polymer Modified (CRS-2R) Price

CSS-1H Cationic Emulsified Asphalt

CQS-1hL Emulsified Asphalt



Boulder County Purchasing
 1325 Pearl Street
 Boulder, CO 80302
purchasing@bouldercounty.org

SPECIFICATIONS

EMULSIFIED ASPHALT PRODUCTS

Cationic Rapid Setting Emulsified Asphalt, Polymer Modified (CRS-2R)

CRS-2R shall be an emulsified blend of asphalt, SBR polymer dispersion, water, and emulsifiers. The emulsified blend shall contain a minimum of three (3.0) percent styrene butadiene rubber (SBR) by weight of asphalt cement. The emulsion shall be smooth and homogeneous throughout, and suitable for pumping and application through a distributor truck. The emulsified asphalt shall conform to the following requirements:

	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Tests on Emulsion:			
Viscosity, <u>Saybolt Furol</u> , 50°C, s	50	450	AASHTO T-59
Storage stability test, 24-h, %	1		AASHTO T-59
<u>Demulsibility</u> , 35ml, 0.8% dioctyl sodium sulfosuccinate, %	40		AASHTO T-59
<u>Particle charge</u> test	positive		AASHTO T-59
Sieve test, %		0.1	AASHTO T-59
<u>Distillation</u> ⁸ :			
Oil distillate, by volume of emulsion, %		0.5	AASHTO T-59
<u>Residue</u> , %	65		AASHTO T-59
Tests on Residue			
Penetration, 25°C, 100g, 5s	70	150	AASHTO T-49
<u>Ductility</u> , 25°C, 5 cm/min, cm	40		AASHTO T-51
<u>Ductility</u> , 4°C, 5 cm/min, cm	30		AASHTO T-51
Solubility in trichloroethylene, %	97.5	97.5	AASHTO T-44
<u>Toughness</u> , in-lbs	90		CP L-22]0A
Tenacity, in-lbs	45		CP L-2210A
Elastic <u>recovery</u> , 77°F, 10cm, 1h, %	60		CP L-2211A

A Colorado Department of Transportation Asphalt Materials Laboratory procedure

Emulsified Asphalt (CQS-1hL)

The emulsion shall be smooth and homogeneous throughout, and suitable for pumping and application through a distributor truck. The emulsified asphalt shall conform to the following requirements:

	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Tests on Emulsion:			
Viscosity, <u>Saybolt Furol</u> , 50°C, s	20	100	AASHTO T-59
Storage stability test, 24-h, %		1	AASHTO T-59
<u>Particle charge</u> test		positive	AASHTO T-59
<u>Sieve test</u> , %		0.10	AASHTO T-59
Distillation:			
<u>Residue</u> , %	62		AASHTOT-59

Tests on Residue

Penetration, 25°C, 100g, 5s	40	90	AASHTOT-49
Ductility, 25°C, 5 cm/ <u>min</u> , <u>cm</u>	40		AASHTO T-51
Solubility in trichloroethylene, %	97.5		AASHTO T-44

Any modifications to the specification shall be approved by Boulder County prior to purchase.

Cationic Emulsified Asphalt (CSS-1H)

The emulsion shall be smooth and homogeneous throughout, and suitable for pumping and application through a distributor truck. The emulsified asphalt shall conform to the following requirements:

	<u>Min</u>	<u>Max</u>	<u>Test Method</u>
Tests on Emulsion:			
Viscosity, <u>Saybolt Furol</u> , 50°C, s	20	100	AASHTO T-59
Storage stability test, 24-h, %		1	AASHTOT-59
<u>Particle charge</u> test		positive	AASHTOT-59
<u>Sieve test</u> , %		0.10	AASHTOT-59
Cement mixing test, %		3.0	AASHTO T-59
Distillation:			
<u>Residue</u> , %	57		AASHTO T-59

Tests on Residue

Penetration, 25°C, 100g, 5s	40	120	AASHTOT-49
<u>Ductility</u> , 25°C, 5 cm/ <u>min</u> , <u>cm</u>	40		AASHTO T-51
Solubility in <u>trichloroethylene</u> , %	97.5	97.5	AASHTO T-44

Any modifications to the specification shall be approved by Boulder County prior to purchase.



Boulder County Purchasing
1325 Pearl Street
Boulder, CO 80302
purchasing@bouldercounty.org

SUBMITTAL SECTION

Vendor must guarantee availability of product for delivery to or pickup by Boulder County from April 25, 2022 through September 30, 2022. Vendor will be responsible for delivery, if required, with their designated transportation company, F.O.B. various job sites within Boulder County.

Delivery must be on time when vendor is notified at least 24 hours in advance.

Cationic Rapid Setting Emulsified Asphalt, Polymer Modified (CRS-2R) Price

Price per Gallon (Delivered by Vendor): \$ _____

Price per Gallon (Transported by County): \$ _____

Price per Gallon (Applied by Vendor): \$ _____

CSS-1H Cationic Emulsified Asphalt

Price per Gallon (Delivered by Vendor): \$ _____

Price per Gallon (Transported by County): \$ _____

Price per Gallon (Applied by Vendor): \$ _____

CQS-1hL Emulsified Asphalt

Price per Gallon (Delivered by Vendor): \$ _____

Price per Gallon (Transported by County): \$ _____

Price per Gallon (Applied by Vendor): \$ _____

Submittal Instructions:

Submittals are due at the email box only, listed below, for time and date recording on or before **2:00 p.m. Mountain Time on April 4, 2022.**

Please note that email responses to this solicitation are limited to a maximum of 50MB capacity.

NO ZIP FILES OR LINKS TO EXTERNAL SITES WILL BE ACCEPTED. THIS INCLUDES GOOGLE DOCS AND SIMILAR SITES. ALL SUBMITTALS MUST BE RECEIVED AS AN ATTACHMENT (E.G. PDF, WORD, EXCEL).

Electronic submittals must be received in the email box listed below. Submittals sent to any other box will NOT be forwarded or accepted. This email box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email. It is the sole responsibility of the proposer to ensure their documents are received before the deadline specified above. Boulder County does not accept responsibility under any circumstance for delayed or failed email or mailed submittals.

Email purchasing@bouldercounty.org; identified as **BID # 7324-22** in the subject line.

All proposals must be received and time and date recorded at the purchasing email by the above due date and time. Sole responsibility rests with the Offeror to see that their bid is received on time at the stated location(s). Any bid received after due date and time will be returned to the bidder. No exceptions will be made.

The Board of County Commissioners reserve the right to reject any and all bids, to waive any informalities or irregularities therein, and to accept the bid that, in the opinion of the Board, is in the best interest of the Board and of the County of Boulder, State of Colorado.



**RECEIPT OF LETTER
ACKNOWLEDGMENT**

March 29, 2022

Dear Vendor:

This is an acknowledgment of receipt of Addendum #1 for BID #7324-22, **Emulsified Asphalt Products and/or application.**

In an effort to keep you informed, we would appreciate your acknowledgment of receipt of the preceding addendum. Please sign this acknowledgment and email it back to purchasing@bouldercounty.org as soon as possible. If you have any questions, or problems with transmittal, please call us at 303-441-3525. This is also an acknowledgement that the vendor understands that **due to COVID-19, BIDS will only be accepted electronically by emailing purchasing@bouldercounty.org.**

Thank you for your cooperation in this matter. This information is time and date sensitive; an immediate response is requested.

Sincerely,

Boulder County Purchasing

Signed by: _____ **Date:** _____

Name of Company _____

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