

INFORMATIONAL PROPOSAL

FOR INFORMATION ONLY, NOT TO BE USED FOR BIDDING

NEBRASKA DEPARTMENT OF ROADS
LETTING DATE : May 23, 2002

CALL ORDER: N21 CONTRACT ID: 87801

CONTROL NO./SEQ. NO.: 80780 1/001 PROJECT NO.: PEP-12-3(1008)

TENTATIVE START DATE: 06/24/02 CONTRACT TIME: 45 WORKING DAYS

LOCATION: ON N-12, EAST & WEST OF NORDEN
IN COUNTY: KEYA PAHA

BIDDER

GROUP 9 BITUMINOUS

NOTES

³THE TOTAL AMOUNT OF WORK WHICH WILL BE ACCEPTED IN THIS LETTING IS LIMITED TO \$_____.³
³_____

³THE NUMBER OF _____ CONTRACTS WHICH WILL BE ACCEPTED IN THIS LETTING IS LIMITED TO _____.³
³_____

NOTICE TO ALL BIDDERS

To report bid rigging activities, call: 1-800-424-9071

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m. eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

LETTING QUESTIONS

Prior to the letting, any questions pertaining to the Special Provisions or the plans for this project should be directed to Construction Division personnel at (402) 479-4568 or (402) 479-4529.

STATE OF NEBRASKA
DEPARTMENT OF ROADS

Required Provisions Supplemental to the
Standard Specifications for Highway Construction

I. Application

These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

The contractor shall insert in each of his subcontracts all of the stipulations contained in the Special Provisions and these Required Provisions.

A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

II. Equal Opportunity

1. **Selection of Labor**

During the performance of this contract, the contractor shall not discriminate against labor from any other state.

2. **Nebraska Fair Employment Practices Act**

The contractor shall not discriminate against any employee or applicant for employment, to be employed in the performance of this contract with respect to his hire, tenure, terms, conditions, or privileges of employment, because of his race, color, religion, sex or national origin. The contractor agrees to post in a conspicuous place or places a notice to be provided by the State Highway Department which sets forth excerpts of the Act.

3. **Nebraska Equal Pay Act**

The contractor shall not discriminate on the basis of sex by paying wages to employees of one sex at a lesser rate than the rate paid to employees of the opposite sex for comparable work on jobs which have comparable requirements. An abstract of the Act is included on the notice which is provided by the State Highway Department.

III. Employment of Labor

1. General

No person under the age of sixteen (16) years, and no one whose age or physical condition is such as to make his employment dangerous to his health or safety, or to the health and safety of others shall be employed on any project. This paragraph shall not be construed to deny the employment of older people or physically handicapped persons, otherwise employable, where such persons may be safely assigned to work which they can ably perform.

No person currently serving sentence to a penal or correction institution shall be employed on any project.

Except as specifically provided under this section, workers who are qualified by training or experience to be assigned to projects of this character shall not be discriminated against on any grounds whatsoever.

2. Payrolls

Payrolls and basic records relating thereto will be maintained during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working on the site of the work.

The contractor's and subcontractor's payroll records shall be available for inspection by authorized representatives of the State Highway Department and authorized representatives of Federal Agencies.

The wages of labor shall be paid in legal tender of the United States, except that this condition will be considered satisfied if payment is made by a negotiable check, on a solvent bank, which may be cashed readily by the employee in the local community for the full amount, without discount or collection charges of any kind. Where checks are used for payment the contractor shall make all necessary arrangements for them to be cashed and shall give information regarding such arrangements.

No fee of any kind shall be asked or accepted by the contractor or any of his agents from any person as a condition of employment on the project.

No laborers shall be charged for any tools used in performing their respective duties except for reasonably avoidable loss or damage thereto.

Every employee on the work covered by this contract shall be permitted to lodge, board and trade where and with whom he elects and neither the contractor nor his agents, nor his employees shall directly or indirectly require as a condition of employment that an employee shall lodge, board or trade at a particular place or with a particular person.

No charge shall be made for any transportation furnished by the contractor or his agents to any person employed on the work.

No individual shall be employed as a laborer on this contract except on a wage basis, but this shall not be construed to prohibit the rental of teams, trucks or other

equipment from individuals. No such rental agreement, or any charges for feed, gasoline, supplies, or repairs on account of such agreement, shall cause any deduction from the wages accruing to any employee except as authorized by the regulations hereinbefore cited.

IV. Safety and Accident Prevention

In the performance of this contract, the contractor shall comply with all applicable Federal, State and local laws governing safety, health and sanitation. The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions, on his own responsibility or as the contracting officer may determine, reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

V. Subletting or Assigning the Contract

The contractor shall perform with his own organization contract work amounting to not less than 30 percent of the total contract amount except that any items designated in the contract as "Specialty Items" may be performed by subcontract and the amount of any such "Specialty Items" so performed may be deducted from the total contract amount before computing the amount of work required to be performed by the contractor with his own organization.

Any items that have been selected as "Specialty Items" for the contract are listed as such in the Special Provisions found elsewhere in the contract.

No portion of the contract shall be sublet, assigned, or otherwise disposed of except with the written consent of the contracting officer or his authorized representative. Requests for permission to sublet assign or otherwise dispose of any portion of the contract shall be in writing and accompanied by a showing that the organization which will perform the work is particularly experienced and equipped for such work. The contractor shall give assurance that the minimum wage for labor as stated in his proposal shall apply to labor performed on all work sublet, assigned or otherwise disposed of in any way. Consent to sublet, assign or otherwise dispose of any portion of the contract shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract.

**SPECIAL PROVISIONS
FOR
STATE
PROJECT NO. PEP-12-3(1008)**

GENERAL CONDITIONS

Sealed bids for the work contemplated in this proposal form will be received at the office of the Nebraska Department of Roads in Room 104 of the Central Office Building at 1500 Highway 2 at Lincoln, Nebraska, on May 23, 2002, until 1:30 P.M.

Bids submitted by mail should be addressed to the Nebraska Department of Roads, c/o Contract Lettings Section, P.O. Box 94759, Lincoln, NE 68509-4759.

The 1997 English Edition of the Standard Specifications for Highway Construction, including all amendments and additions thereto effective at the date of the contract, are made a part of these Special Provisions, through reference.

The Supplemental Specifications to the 1997 English Edition of the Standard Specifications for Highway Construction dated July 12, 2001, including all amendments and additions thereto effective at the date of the contract, are made part of these Special Provisions, through reference.

The Required Provisions dated April 4, 1995, are attached to and are a part of this proposal form.

The attention of bidders is directed to the Required Provisions covering subletting or assigning the contract.

The proposal contains a statement that the contractor is complying with, and will continue to comply with, fair labor standards in the pursuit of his business and in the execution of the work contemplated in this proposal.

Fair labor standards shall be construed to mean such a scale of wages and conditions of employment as are paid and maintained by at least fifty per cent of the contractors in the same business or field of endeavor as the contractor filing this proposal.

STATUS OF UTILITIES

No utilities have been or will be required to relocate within the limits of this project.

Underground utilities may exist within the limits of this project. The Contractor shall determine to his satisfaction the extent of occupancy of any underground utilities located within the respective construction areas and the extent of conflict with the proposed work under this contract.

Any utility adjustments or interruption of service for the convenience of the Contractor shall be the sole responsibility of the Contractor.

To arrange for utilities to locate and flag their underground facilities, contact The Diggers Hotline of Nebraska at 1-800-331-5666.

**STATUS OF RIGHT-OF-WAY
(S1-16-0801)**

According to the best information available, all necessary right-of-way has been acquired.

AWARD AND EXECUTION OF CONTRACT

The first sentence of Subsection 103.03 in the Standard Specifications is void and superseded by the following:

The bidder to whom the contract is awarded shall furnish within 5 days after the award, a contract bond, in a sum equal to the full amount of the contract.

The first sentence of Subsection 103.04 is void and superseded by the following:

The contract shall be signed by the successful bidder and returned, together with a satisfactory bond, within 5 days from the date of award.

Paragraph 1.a. of Subsection 103.05 is void and superseded by the following:

- a. Fails to file an acceptable performance bond within 5 days from the date of award.

**SUBCONTRACTOR BIDDERS LIST INFORMATION
(S1-43-0801)**

All bidders must complete and submit with the bidding proposal, the "Subcontractor Bidders List" form provided by the NDR Contracts office.

Bidders must identify all firms who bid or quote subcontracts on all projects. If no bids or subcontractor quotations are received, the "Subcontractor Bidders List" must be submitted with the bidding documents and the bidder must indicate on the face of the "Subcontractor Bidders List" that no bids or subcontractor quotations were received.

**CONTROL OF WORK
(S1-43-0901)**

Subsection 105.08 in the 1997 Standard Specifications is void and replaced by the following:

105.08 - Authority and Duty of the Inspector

Department inspectors are authorized to inspect all work performed and all materials furnished. Such inspection may extend to the preparation, fabrication, or manufacture of the materials. The inspector has the authority to reject work or materials until any issues can be decided, including the right to suspend work. The inspector is not authorized to alter or waive the provisions of the contract or act as a supervisor for the Contractor.

105.13 – Tentative Acceptance of Portions of the Project

Paragraph 3.a. of Subsection 105.13 is amended by deleting the word “normal”.

**LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC
(S1-43-1001)**

107.14 – Opening of Sections of the Project to Traffic

Subsection 107.14 Paragraphs 2.b.(1) and (2) are void and replaced by the following:

- 2.b. (1) Whenever the Department permits the public use of a highway undergoing construction, repair, or maintenance in lieu of a detour route, the Contractor shall not be held responsible for damages to those portions of the project upon which the Department permitted public use, when such damages are the result of no proximate act or failure to act on the part of the Contractor.
- (2) If the traveling public should cause damage to the roadway, the Contractor shall assist the State in identifying the responsible party and the Contractor shall as a minimum if present at the time of the damage record pertinent information regarding the accident. (Who caused the damage; when the damage occurred; and how the damage was resulted.)

107.15 – Contractor’s Responsibility for Work

Subsection 107.15 is amended by adding Paragraph 1.b.(3) as follows:

- (3) The Contractor shall not be held responsible for damage caused by the traveling public on those portions of the project where the Department has permitted public use of the road in lieu of using a detour route and the damage as not the result of any proximate act or failure to act on the part of the Contractor.

MEASUREMENT AND PAYMENT (S1-43-0901)

109.08 – Acceptance, Final Payment, and Termination of Contractor's Responsibility

Subsection 109.08 Paragraph c. amended by deleting the word “normal”.

Subsection 109.08 Paragraph d. is void and replaced by the following:

d. If the traveling public should cause damage to the roadway the Contractor shall assist the State in identifying the responsible party and the Contractor shall as a minimum if present at the time of the damage record pertinent information regarding the accident. (Who caused the damage; when the damage occurred; and how are damage was resulted.)

CONSTRUCTION DETAILS

TEMPORARY TRAFFIC CONTROL DEVICES (S4-9-1201)

Paragraphs 2.a. of Subsection 422.05 in the Standard Specifications is void and superseded by the following:

2.a. If signs are not returned or are returned damaged, and the damage is beyond reasonable “wear and tear” and the damage was caused by the Contractor, then the Contractor shall be charged the value of the missing or damaged items. These charges shall be deducted from monies due the Contractor upon final payment.

TEMPORARY PAVEMENT MARKING

Paragraph 6. of Subsection 422.04 in the Supplemental Specifications is void and superseded by the following:

To provide for the safety of the traveling public, the Contractor will be required to place temporary yellow reflectorized traffic centerline delineation on two-lane, two-way roads. On multi-lane roads, when proceeding in the same direction on both sides of the line, the centerline shall be white. The reflectorized material used for the centerline delineation shall be ship seal markers similar to those supplied by Renco, Inc. or Dapco (Davidson Plastics Co.). The temporary lane markers shall be applied on the approximate centerline at 40-foot intervals on the straightaway and at 20-foot intervals on curves. The markers shall be applied to a clean dry road surface before any asphalt materials are applied. The markers shall be applied as directed by the manufacturer. After the armor coat is applied on the initial lane, the plastic cap shall be removed on every other marker. The plastic cap shall be removed on the remaining markers after the armor coat is applied on the adjacent lane.

Paragraph 6. of Subsection 422.04 in the Standard Specifications is void and superseded by the following:

Temporary pavement marking shall be measured by the station from the beginning to the end of the work, and shall be paid for at the contract unit price per Station for the item

“Temporary Broken Line.” This price shall be full compensation for furnishing and installing the chip seal markers and for all labor, equipment, tools and incidentals necessary to complete the work.

COLD IN-PLACE RECYCLING

DESCRIPTION

1. This work shall consist of pulverizing the existing asphalt pavement and portions of underlying base materials, if required, to obtain the width and depth shown on the plans. An asphalt emulsion will be added to the blend of pulverized materials. Also, water will be added as needed. The bituminous material shall be deposited in a paver and placed and compacted.

MATERIALS

2.1 Asphalt Emulsion for Recycling - The type of asphalt emulsion to be used shall be HFE-300 or CSS-1. A representative from the asphalt emulsion supplier will be at the job site at the beginning of the work to monitor the characteristics and performance of the asphalt emulsion. Also, a representative will be available throughout the project to check on the mixing and make adjustments to the asphalt formulation as required, such as to improve coating or adjust breaking properties.

2.2 Bituminous Sand Mixture – The bituminous sand mixture, consisting of pulverized material, underlying base (if required), asphalt emulsion, and water, shall meet the following gradation requirements prior to placing in the paver:

<u>Sieve Size</u>	<u>Percent Passing</u>
1 ½ in.	97

2.3 Water – Water used for mixing or for fog seal, if required, shall meet the requirements of Subsection 1005 of the Standard Specifications.

2.4 Mixture Design – A mixture design is required before the start of the project (see Appendix 1). The type and quantity of asphalt emulsion and mixing water shall be determined by the mixture design. The mixture design shall be completed by the asphalt emulsion supplier, and the Contractor shall submit the mixture design to the Engineer for approval. The bituminous sand mixture at the recommended design shall have the properties as indicated by the criteria given in Table 1.

TABLE 1

100mm diameter specimens shall be prepared in a Superpave gyratory compactor	
Property	Criteria
Superpave gyratory compaction. 1.25° angle. 600kPa, gyrations	30
Cured Marshall stability *, ASTM D 1559, Part 5, 40°C, min., lb.	1000
Retained Marshall stability * after soaking based on cured stability, min.,%	70
* Cured stability determined on 60° curing to constant weight (<72 hours). Retained stability determined after 23 hour water soak at 25°C followed by 40°C soak for one hour.	

EQUIPMENT

3. The cold in-place recycling equipment described below are required on the project and shall be in proper working condition and approved by the Engineer.

3.1 A self-propelled reclaiming/stabilization machine to pulverize the existing asphalt pavement and any underlying material if needed. The machine shall have a spray bar capable of uniformly adding any water required. The machine shall pulverize and mix all materials to produce a homogeneous material. The machine shall have a chamber with a rotor equipped with carbide-tipped cutter teeth and be capable of processing not less than an 8-ft. width in each pass. The machine shall have a visible depth gauge to allow for easy determination of the depth of pulverization and mixing.

3.2 A Milling machine meeting the requirements of Subsection 510.03 of the Standard Specifications. In addition the machine shall have a system capable of incorporating asphalt emulsion in the mixture. The system shall consist of a positive displacement pump interlocked to the machine speed so that the amount of liquid being added is automatically adjusted with changes in machine speed. The liquid metering system shall also have a flow meter, spray bar and nozzles, and a meter measuring the forward speed of the machine in feet per minute.

3.3 A bituminous paver meeting the requirements of Paragraph 4.a. of Subsection 503.03 of the Standard Specifications.

3.4 A minimum of one self-propelled double drum vibratory roller and one self-propelled pneumatic roller shall be required. The vibratory roller shall have a minimum operating weight of 18,000 lb. and a drum width of not less than 66 inches. The pneumatic roller shall have a minimum operating weight of 26,000 lb. The pneumatic roller shall be used to compact and to knead the surface and close any fine cracks and remove roller checking. The roller patterns shall be determined to obtain the compaction required in Section 4.3 and to produce an acceptable finish and smooth surface without ripples, ruts, and roller marks.

3.5 A water truck for supplying water to the reclaiming/stabilization machines for addition of moisture, as needed, during the pulverization operation.

3.6 A self-propelled power broom for sweeping the existing pavement surface before beginning cold recycling or for removal of loose particles and other materials from the bituminous sand mat prior to placement of any fog seal or armor coat shall be required. The broom shall have positive control on the downward pressure applied by the broom to the surface.

CONSTRUCTION METHODS

4.1 If present, any manhole, water valve, or other object interfering with the cold in-place recycling operation shall be lowered. The shoulders shall be mowed prior to pulverization, 6 feet on each side of the roadway. After mowing the Contractor shall tight blade the roadway and the mowed shoulders to remove any vegetation. The existing pavement surface shall have dirt and other debris removed by sweeping with a power broom.

4.2 The existing pavement and any underlying materials needed shall be pulverized to produce, when finished, a compacted layer of Bituminous Sand Mixture to the width and depth shown in the plans. During the initial pulverization using the reclaiming/stabilization machine water shall be added as required to obtain the desired moisture content. A second pass using the milling machine shall be completed with the required amount of asphalt emulsion added. After pulverization and milling the recycled material shall be deposited immediately into a bituminous paver and then placed and compacted. This will be completed the same working day to minimize loss of moisture and disruption to the traveling public. If the recycled mix does not appear to be adequately mixed or homogeneous, additional mixing passes shall be completed with the recycling/stabilization machine until mix uniformity is achieved. Prior to placing the material into the paver the bituminous sand material shall have a gradation meeting the requirements of Section 2.2 of these specifications. The amount of asphalt emulsion and water determined from the mix design shall be the percentages initially used, but the percentages may be varied during cold recycling production if the mix properties indicate a change is required (balling of fines, raveling, or other.)

4.3 Nuclear density testing, as directed in Section 5.6, shall be used on a test strip at the start of the project to establish roller patterns for maximum achievable density. All subsequent paving shall be compacted to a minimum of 97 percent density of the test strip density. Any significant change of material shall require a new test strip and new density determination. If displacement is still occurring, rolling shall be performed until no displacement is occurring.

4.4 The final surface shall not vary by more than one half inch from the lower edge of a 10-foot straightedge placed on the surface parallel and transversely to the centerline.

4.5 Heavy construction equipment shall not drive on the recycled pavement until the pavement is firm and will not deform or rut.

4.6 After opening to traffic, the surface of the bituminous sand pavement shall be maintained in a condition suitable for the safe movement of traffic. This shall include to removal of unacceptable amounts of loose particles by sweeping with a power broom.

4.7 Any damage to the completed bituminous sand pavement shall be repaired by the Contractor prior to the placement of the fog seal and or armor coat, as directed by the Engineer. Damage occurring not because of Contractor construction procedures or quality of work, such as a soft and weak base, shall be paid for under the pay item, "Patching Bituminous Sand."

4.8 Before placing the fog seal or other surface treatment, the bituminous sand mixture shall be allowed to cure until the moisture content in the mixture is reduced to 2.5 percent or less by dry weight of mixture.

QUALITY CONTROL

5.a Supervisory personnel of the Contractor, the paving crew, consulting engineer or testing laboratory, and representatives of the emulsion supplier will meet a representative of the Agency at the pre-construction meeting to discuss methods of accomplishing all phases of the paving work, cold in-place recycling training, and handling of asphalt emulsions.

5.b The Contractor shall be responsible for the quality control (QC) of the cold in-place recycling process and the completed recycled surface. The Contractor may perform QC by a licensed professional engineer on the staff with acceptable experience in materials sampling and testing. If not having an Engineer, the Contractor will be required to have experienced personnel or a private testing laboratory approved by the Engineer to perform QC testing. The name and qualifications of the personnel will be provided to the Engineer in writing before starting the project. Quality control shall include the following activities, and the results of the QC reported daily in writing to the Engineer. See Appendix 1 for data sheets.

5.1 Bituminous Sand Material Sizing – Samples of the bituminous sand mixture shall be obtained before beginning compaction and dry sieve to determine compliance with the maximum particle size requirement in Section 2.2. Sizing shall be determined, at a minimum, every 7,000 square yards.

5.2 Asphalt Emulsion – Asphalt emulsion shall be the product reported in the mix design. The chemistry can be adjusted at the manufacturing facility to change the break rate, if necessary, to optimize field production. The results shall meet the requirements in Table 2. It shall be sampled and tested every batch and samples of emulsion shall be retained until the end of the project. Limits are based on those reported in the mix design. Testing shall be performed in accordance with AASHTO T 59.

Table 2

Residue by distillation, AASHTO T 59, %	+/- 3% from the emulsion used in the design
-----------------------------------------	---------------------------------------------

5.3 Moisture Content of Recycled Material – Samples of the bituminous sand material shall be obtained and the moisture content determined using microwave oven drying per ASTM D 4643. Testing shall occur, at a minimum, every 7,000 square yards.

5.4 Emulsion Content – The percentage of emulsion added shall be checked by determining the amount used by meter readings or truck weight tickets and estimated by determining the amount of pavement materials processed. Adjustments shall be allowed based on coating and curing. It shall be estimated, at a minimum, every 7,000 square yards.

5.5 Depth of Processing – The depth during both pulverization and mixing operations shall be monitored regularly to determine compliance with the plans. The depth shall be determined on each side of the width being processed and shall be adjusted immediately as necessary.

5.6 Bituminous Sand Material Compacted Density – A wet density shall be determined, at a minimum every 3,500 square yards using a properly calibrated nuclear moisture-density instrument generally following procedures of ASTM D 2950, direct transmission method.

5.7 Marshall Stability Testing – Stability testing shall be performed daily on a roadway sample.

5.8 Bituminous Sand Material Cross Slope and Smoothness – The cross slope shall be as indicated on the plans or as required by the Engineer. The bituminous sand material cross

slope shall be checked regularly during spreading and compaction using a level. After the completion of compacting, the smoothness shall be checked with a 10-foot straight edge to determine if meeting the requirements in Section 4.5.

WEATHER LIMITATIONS

6. Cold in-place recycling shall not be performed when the atmospheric temperature measured in the shade and away from the artificial heat is below 60°F or when the weather is foggy or rainy.

SPECIAL PROSECUTION AND PROGRESS

7. The contractor will perform Cold In Place Recycling between June 24, and September 1, unless otherwise approved in writing by the engineer.

METHOD OF MEASUREMENT

Cold In-Place Recycling will be measured by the station of accepted work measured along the project centerline.

Emulsified Asphalt for Cold In-Place Recycling will be paid for by the gallon.

Patching Bituminous Sand will be paid for by the square yard

Water used for Cold In-Place Recycling will be paid for by the Mgallon.

BASIS OF PAYMENT

Cold In-Place Recycling will be paid for at the contract unit price per station for the item "Cold In-Place Recycling". This price shall be full compensation for all work materials, labor, equipment, tools, and incidentals necessary to complete the work.

Emulsified Asphalt will be paid for at the contract unit price per gallon for the item "Emulsified Asphalt for Cold In-Place Recycling ". This price shall be full compensation for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Patching Bituminous Sand will be paid for at the contract unit price per square yard for the item "Patching Bituminous Sand ". This price shall be full compensation for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

Water for Cold In-Place Recycling will be paid for at the contract unit price per Mgallon for the item "Water for Cold In-Place Recycling, Applied ".

APPENDIX 1**Mix Design and QC Data Sheet**
(Use one or more data sheets per day)

Date: _____

Project Name/Location: _____

QC personnel: _____ Phone: _____

Mix Design: _____% moisture, _____% emulsion residue of emulsion
_____Lb. Marshall stability, _____% retained stability

Test strip: _____pcf density of test strip (wet density)

Temperature: _____°F/C at start of day _____°F/C at end of day

Climate conditions: _____

Station						
Sizing (meet Section 2.2)						
Emulsion residue, %						
Moisture content, %						
Emulsion content, %						
Cured Marshall Stability, Lb.						
Retained Marshall Stability, %						
Density, pcf						
Density (meet Section 4.4)						
Smoothness (meet Section 5.8)						

Notes:

Reported by: _____

ARMOR COAT

Paragraph 2 of Subsection 515.02 of the Standard Specifications is amended to provide that the aggregate for Armor Coat shall be crushed quartzite. The crushed quartzite shall have a Los Angeles Abrasion Loss percentage of not more than 40. The crushed quartzite shall have a soundness loss of not more than 5 percent by mass at the end of 5 cycles using sodium sulfate solution.

Paragraph 4.a. (2) of Subsection 515.03 is amended to provide that the application rate will be from 0.28 to 0.34 GAL/SY, or as directed by the Engineer.

Paragraph 4.e. of Subsection 515.03 is amended to provide that the application rate will be from 18 to 22 lb/SY, or as directed by the Engineer.

Table 1033.06 of the Standard Specifications is void and superseded by the following:

Table 1033.06

Armor Coat Aggregate Gradation Limits		
Sieve Size	Percent Passing Target Value	Tolerance
3/8 inch (9.5mm)	100	0
No. 4 (4.75mm)	62	±10
No.10 (2.0 mm)	30	*
No.50 (300µm)	5	±5
No. 200 (75µm)	1	±1
* A deduction from the contract bid price will be made for materials which are more than 5 percentage points above the target value, as specified in Subsection 515.05, Paragraph2. of the Standard Specifications.		

PROPOSAL GUARANTY (S1-38-0801)

As an evidence of good faith in submitting a proposal for this work or for any portion thereof as provided in the proposal form, the bidder must file with his proposal a bid bond, which must be executed on the Department of Roads' Bid Bond form, in the amount of 5 percent of the amount bid for any group of items or collection of groups for which the bid is submitted. Any alterations, conditions or limitations added to the Department of Roads' Bid Bond form will be unacceptable and cause the bid not to be opened and read.

* * * * *

N21INF MAY02

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