

**SPECIAL PROVISIONS****DIVISION S****S-1 (1208) PROPOSAL GUARANTY** (restored 06/30/2023)

The Bidder shall include with its Proposal a Proposal Guaranty that meets the following requirements:

- (1) Equal to 5 percent of the total amount of the Proposal
- (2) Made payable to the Department
- (3) In the form of a bond

A Proposal Guaranty in the form of a bond must meet the following requirements:

- (1) Issued by a corporation authorized by the Minnesota Department of Commerce to contract as a Surety in the State of Minnesota
- (2) Conditioned on the execution of the Contract in accordance with 1306, "Execution and Approval of Contract"

**S-2 (1402) CONTRACT REVISIONS**

The provisions of 1402.3 are supplemented by the following:

There shall be no adjustment in the Contract prices bid in the event of an increase or decrease in the quantities of the Contract items.

**S-3 (1404) MAINTENANCE OF TRAFFIC**

S-3.1 The first and second paragraphs of 1404 are hereby deleted and the following substituted therefore.

The Contractor shall keep the portions of the project being used by local traffic in such condition that traffic will be adequately accommodated at all times. The Contractor shall provide and maintain temporary approaches, crossings, and intersections with trails, roads, streets, businesses, parking lots, residences, garages, farms, and other abutting property in acceptable condition.

S-3.2 The Contractor shall furnish names, addresses, and phone numbers of at least three (3) individuals responsible for the placement and maintenance of traffic control devices. At least one of these individuals shall be "on call" 24 hours per day, seven days per week during the times any traffic control devices, furnished and installed by the Contractor, are in place. The required information shall be submitted to the Engineer at the Preconstruction Conference. The Contractor shall also furnish the names, addresses, and phone numbers of those individuals to the following:

- |    |                                      |              |
|----|--------------------------------------|--------------|
| 1. | Polk County Highway Department       | 218-281-3952 |
| 2. | Polk County Sheriff's Dispatch       | 218-281-0431 |
| 3. | Marshall County Highway Department   | 218-745-4381 |
| 4. | Marshall County Sheriff's Department | 218-745-5411 |

S-3.3 In order to provide for public convenience and safety, the contractor may have to provide for dust control on public roads and streets over which materials are being hauled. Dust Control, solely for the benefit of the public, shall be implemented by the Contractor as directed by the Engineer and will be considered incidental to the Contract Items and no other compensation will be made therefore.

**S-4 (1505) COOPERATION BY CONTRACTORS**

The Provisions of Mn/DOT 1505 are supplemented as follows:

S-4.1 The Contractor shall coordinate his work and cooperate with all other agencies and forces as may be performing concurrent work within the limits of this project, or on sections of roadway adjacent thereto, in a manner consistent with the provisions of Mn/DOT 1505.

**S-5 (1507) UTILITY PROPERTY AND SERVICE**

Construction operations in the proximity of utilities properties shall be performed in accordance with the provisions of Mn/DOT 1507, except as modified below:

S-5.1 All utilities that relate to this Project are classified as “Level D,” unless the Plan specifically state otherwise. This utility quality level was determined according to the guidelines of CI/ASCE 38-22, entitled “Standard Guidelines for Investigating and Documenting existing utilities.”

S-5.2 No compensation will be made for additional costs incurred by the Contractor for any special work or special construction method necessary to prosecute work over, below or adjacent to utility property.

**S-6 (1701) LAWS TO BE OBSERVED** (restored and revised 06/30/2023)

For purposes of paying out retainage, a Subcontractor’s Work is satisfactorily completed when all the tasks called for in the subcontract have been accomplished and final documentation is received. Final documentation includes certified payrolls, Material certifications, haul road releases, pit releases, warranties, operating manuals, product literature, verification of final quantities, and Contractor Affidavit (Form IC134). When the Department has made an incremental acceptance of a portion of the prime Contract, the Work of a Subcontractor covered by that acceptance is deemed to be satisfactorily completed.

**S-6.1 EQUAL PAY**

The Department cannot execute a Contract in excess of \$500,000 with a business that has 40 or more employees on a single day during the prior 12 months in this State or a State where the business has its primary place of business unless the business has an equal pay certificate or has certified in the Electronic Bid File that the business is exempt. Bidders may find more information on the Equal Pay Certificate Requirement in Minnesota Statutes Section 363A.44 or at the [Department of Human Rights, Equal Pay Certificate](http://mn.gov/mdhr/certificates/equalpay) website (mn.gov/mdhr/certificates/equalpay).

**S-6.2 Compliance with Tax Law Requirements**

The Department cannot make final payment to the Contractor until the Contractor demonstrates that it and all its Subcontractors have complied with the Income Tax withholding requirements of Minnesota Statutes, section 290.92 and section 270C.66 for wages paid for Work performed under the Contract. To establish compliance, the Contractor must submit a “Contractor Affidavit” either online or in paper form (IC134) to the Minnesota Department of Revenue. The Contractor will receive a written certification of compliance when the Department of Revenue determines that all withholding tax returns have been filed and all withholding taxes attributable to the Work performed on the Contract have been paid. The Contractor must then provide this written certification to the Department to receive final payment.

Every Subcontractor working on the Project must submit an approved “Contractor Affidavit” from the Minnesota Department of Revenue to the Contractor before the Contractor can file its own Contractor Affidavit. The Contractor is advised to obtain the certification from each Subcontractor as soon as the Subcontractor completes Work on the Project. Experience has shown that waiting until the Project is complete to obtain the forms from all Subcontractors is likely to result in significant additional Work for the Contractor as it will be difficult or impossible to collect all forms.

The Department of Revenue, in association with the Department of Employment and Economic Development, offers a free seminar to help Contractors understand tax law requirements. The Department strongly urges the Contractor and all Subcontractors to attend the “[Employment Taxes & Employer Responsibilities Seminar](#)” or similarly offered classes. You can find a schedule and more information on the [Department of Revenue](http://www.revenue.state.mn.us) website (www.revenue.state.mn.us).

Complying with this requirement is considered part of the Work under this Contract. The Department will enforce this requirement equally with all other Contract requirements. The Contractor delay in complying with this requirement will cause the Department to delay final payment and Contract Acceptance. The Department may also report non-compliance to the Department of Revenue, which may result in enforcement action by the Department of Revenue.

Contractor Affidavit requirements and Form IC134 can be found on the [Department of Revenue](http://www.revenue.state.mn.us) website (www.revenue.state.mn.us).

**S-6.3 Use of Equipment from Certain Telecommunications Supplier Prohibited**

By signing this Contract, Contractor certifies that consistent with section 889 of the John McCain National Defense Authorization Act for fiscal year 2019, Public Law 115-233 (Aug. 13, 2018) the Contractor may not use funding covered by this Contract to procure or obtain, or extend, renew, or enter into any Contract to procure or obtain, any Equipment, system, or service that uses “covered telecommunications Equipment or services” (as that term is defined in section 889 of the Act) as a substantial or essential component of any system, or as critical technology as part of any system. The contractor must include this certification as a flow-down clause in any subcontract related to this Contract.

**S-7 (1701) LAWS TO BE OBSERVED (CULTURAL RESOURCES—FEDERALLY AND STATE FUNDED)**

(Revised 04/14/2023)

For any Project that the Department funds or conducts, or that is located in Department Right-of -way, including owned or leased Natural Materials Resources, the following terms will apply:

S-7.1 The Department is responsible for obtaining a Cultural Resources Unit (CRU) findings letter.

S-7.2 Contractor will notify the Engineer if the Contractor intends to use any material from a proposed excavation area on land controlled by the Department. The Engineer must request a review from the Department’s CRU before allowing a Contractor to use any material from a proposed excavation area on any land controlled by the Department. The review may take 60 Calendar Days after receipt of request, including up to 45 days for tribal consultation when necessary. If the Department’s CRU determines that a survey is needed, the review period may be even longer. Contractor is responsible for ensuring that such reviews do not affect the timely completion of the Project, and for any delays due to the length of the review. Contractor may not base a claim for damages due to delay of Contract on the length of the review.

S-7.3 If the Contractor selects the excavation and disposal of material from locations other than the Department’s Right-of-way, the following terms will apply:

1. A CRU findings letter is not necessary.
2. Contractor must comply with Minnesota Statutes § 307.08, Minnesota Private Cemeteries Act, if applicable.

S-7.4 If any human remains are encountered within the Project limits, the Contractor shall immediately stop Work in the vicinity, notify the Engineer, and request suspension of Work near the discovery area, in accordance with 1803.3.

**S-8 (1702) PERMITS, LICENSES, AND TAXES**

The Contractor will be required to pay the Minnesota Sales Tax associated with this Contract. This cost should be included in the Unit Bid Price as no direct reimbursement will be made therefore.

**S-9 (1706) EMPLOYEE HEALTH AND WELFARE (restored 06/30/2023)**

S-9.1 The Contractor must not use motor vehicle Equipment that has an obstructed rear view unless either of the following is ensured:

- (1) The vehicle has a reverse alarm that is audible above the surrounding noise level
- (2) An observer signals to the operator that it is safe to reverse

S-9.2 The Department may assess a Monetary Deduction of \$500 per incident for a violation of safety standards that could result in death or serious injury.

S-9.3 The areas of special concern include excavation stability protection, fall protection, protection from overhead hazards, vehicle backup protection, confined space safety, blasting operations, and personal safety devices.

S-9.4 The Contractor cannot avoid complying with safety standards by paying the deduction.

**S-10 (1707) PUBLIC CONVENIENCE AND SAFETY (restored 06/30/2023)**

The Contractor shall ensure that employees and Subcontractors do not display items such as, but not limited to, flags, banners, and symbols on the Project Site, that may disrupt the proper prosecution of the Work, impede public safety, or create a distraction for the traveling public.



**S-11 (1708) RAILROAD HIGHWAY PROVISIONS** (new 01/27/23)

S-11.1 The Contractor shall be responsible for damages from unscheduled delays of freight or passenger trains caused by the Contractor. If the Contractor's operations cause the railroad company to perform extra work to maintain railroad traffic, the Contractor shall reimburse the railroad company for the cost of the extra work and damages associated with delays to trains.

S-11.2 The provisions of Mn/DOT 1708 are modified/supplemented as follows:

The Contractor shall reimburse the BNSF Railway for costs of necessary flagging, other protective services, and devices required to protect the Railway's facilities, personnel, equipment, and traffic.

The Contractor is required to obtain Railroad Protective Liability Insurance as required on SAP 045-621-005 and comply with all the other provisions of 1708.

**S-12 (1803) PROGRESS SCHEDULES**

Work shall be completed in accordance with the provisions of 1803, except as noted below:

S-12.1 The provisions of 1803 are modified to the extent that the "Progress Schedule" (bar chart or critical path diagram) referenced in 1803.2, 1803.3, and elsewhere will not be required on this Project. This shall, however, in no way lessen the Contractor's responsibility for (1) providing the Engineer with the notifications required by the provisions of 1803; and (2) prosecuting the work diligently, as required therein, so as to assure satisfactory progress towards a timely completion of the Project.

**S-13 (1804) LIMITATION OF OPERATIONS – NIGHT CONSTRUCTION**

Work shall be accomplished in accordance with the provisions of 1804 and the following:

S-13.1 The Contractor shall not perform work during the hours of sunset to sunrise without written approval of the Engineer.

**S-14 (1806) DETERMINATION AND EXTENSION OF CONTRACT TIME**

The department will determine Contract Time in accordance with the provisions of 1806 and the following:

S-14.1 The contract allows for a flexible start date. The Contractor shall start construction operations after June 1, 2025 but not prior to Contract Approval. The Contractor must notify the Engineer, in writing, at least two weeks prior to the selected start date.

S-14.2 No work will be allowed between September 27, 2025, and June 1, 2026.

S-14.3 Contractor must complete all work to meet the requirements of MnDOT 1516.2 required under this Contract, including maintenance work on or before September 26, 2026.

S-14.4 The Contractor must not perform Work that will restrict or interfere with traffic between 2:00 P.M. on the day before and 7:00 A.M. on the day after any consecutive combination of a Saturday, Sunday, and Holiday. The Contractor may request exceptions to this requirement. Exceptions must be approved in writing by the Engineer.

**S-15 (1807) FAILURE TO COMPLETE THE WORK ON TIME** (restored 06/30/2023)

The Provisions of Mn/DOT 1807 are supplemented as follows:

S-15.1 The Department will deduct liquidated damages from money due the Contractor for each calendar day that the Work remains incomplete after expiration of the Contract Time, according to the completion requirements of MnDOT 1516.2, "Project Acceptance".

S-15.2 The Department will assess the Contractor a monetary deduction in an amount equal to \$2,000.00 for each Calendar Day that any of the work specified in Section 2360 and 1806 (DETERMINATION AND EXTENSION OF CONTRACT TIME) of these Special Provisions remains incomplete after the expiration of the working period provided therefore.



**S-16     (1901) MEASUREMENT OF QUANTITIES**

The provisions of Mn/DOT 1901 are supplemented by the following:

**Uniform Load**

In the event that the Contractor requests the use of Uniform Loads, the method of arriving at uniform loading must be approved by the Engineer. Automated weighing devices will be required when belt scales are used in Uniform Load determinations. Periodic Spot checks will be required. Trucks will be stopped and required to be run over a commercial scale.

**S-17     (2051) HAUL ROAD MAINTENCE AND RESTORATION**

S-17.1     The bidder's attention is directed to the provisions of 2051, 1515 and 1404, pertaining to haul roads. Since these roads may not be under the jurisdiction of the contracting agency, the Contractor should be aware that maintenance and restoration is expected by the appropriate road authorities.

S-17.2     The County will require the Contractor to contact and obtain approval from the proper jurisdictional agency (Township or County) for haul roads to be used for this work. This must be accomplished through documentation submitted to the Engineer prior to the use of any haul road. A standard form for this procedure may be obtained from the office of the County Engineer.

S-17.3     Maintenance and restoration of haul roads will be considered incidental to the contract items and no other payment will be made therefor.

**S-18     (2104) REMOVING PAVEMENT AND MISCELLANEOUS STRUCTURES**

Culverts, abandoned structures, pavements and other obstructions shall be removed or salvaged from the Right of Way and disposed of in accordance with the provisions of 2104, except as modified below:

S-18.1     All removal materials and debris shall be disposed of by the contractor outside the right-of-way in accordance with Mn/DOT 2104.3D3 to the satisfaction of the Engineer.

S-18.2     Pavement sawing as needed shall be considered to be incidental.

**S-19     (2221) SHOULDER BASE CONSTRUCTION**

The aggregate shoulders shall be constructed in accordance with the provisions of Mn/DOT 2221, except as modified below:

S-19.1     When the aggregate shoulders are completed, they shall be in reasonably close conformity with the cross sections shown in the Plans.

S-19.2     Aggregate Shouldering shall be placed with a minimum of two complete operations with a shouldering machine and necessary shaping and compaction equipment. All shouldering material, including the inslope, shall be compacted. A shouldering machine shall be construed to mean a machine specifically designed to deposit aggregate material directly onto the shoulder surface at a uniform cross slope, width, depth and inslope. (i.e. Not a slough box or modified motor grader.)

S-19.3     The aggregate shoulders shall be compacted by the "Quality Compaction Method" described in Mn/DOT 2211.3D.2.b.

Water shall be applied to the shouldering material during the mixing and spreading operations so that at the time of compaction the moisture content is not less than 5 percent of the dry weight. Polk County will check moisture contents at a rate as determined by the Engineer.

S-19.4     Surfacing of farm and field entrances shall be started immediately after completion of paving operations, conditions permitting. Entrance drop-offs are limited to 3" (maximum). This operation shall consist of at least 8 hauling trucks. Shoulder base aggregate shall cover any areas with exposed ash aggregate base.

S-19.5     Final aggregate shouldering placement and compaction shall be started within 7 calendar days after completion of paving operations.

**S-20 (2232) MILLED RUMBLE STRIPS** (Revised 06/30/2022)**S-20.1 DESCRIPTION**

This Work consists of constructing rumble strips in accordance with MnDOT 2232, MnDOT 2355, and MnDOT 1717.

**S-20.2 MATERIALS – See Standard Specifications for Construction****S-20.3 CONSTRUCTION REQUIREMENTS****A Bituminous Pavement**

Milling shall be the only acceptable method of constructing the rumble strips.

Coat rumble strips with an asphalt emulsion fog seal per MnDOT 2355 prior to final striping.

**A.1 Corrugated Rumble Strips (Stop Sign)**

Rumble strips are to be located in advance of "Stop Ahead" and "Stop" signs as shown in the Plans.

A rumble strip consists of two strips each 5 feet long and one placed in each wheel track.

**A.2 Continuous Rectangular and Sinusoidal Rumble Strips**

Construct rumble strips within 2 inches of the specified alignment.

The grinding Equipment must be equipped with a sighting device enabling the operator to maintain the rumble strip alignment.

Indentations must comply with the specified dimensions in the Plans within 62.5 mil (1/16 inch) in depth and 10 percent in length and width.

Do not construct rumble strips on Structures or approach slabs.

**A.3 Intermittent Rectangular and Shoulder Sinusoidal Rumble Strips**

Construct rumble strips within 2 inches of the specified alignment.

Do not construct rumble strips on Structures or approach slabs.

**S-20.4 METHOD OF MEASUREMENT**

For Corrugated Rumble Strips (Stop Sign), the Engineer will measure the number of rumble strips constructed.

For Continuous and Intermittent Rectangular and Sinusoidal Rumble Strips, the Engineer will measure the length of milled rumble strips constructed. Breaks for side streets, entrances, ramps, and turn lanes will be excluded from this measurement.

**S-20.5 BASIS OF PAYMENT**

The Contract Unit Price for Milled Rumble Strips is compensation in full for Equipment, Materials and labor required to complete the Work.

The Department will pay for Milled Rumble Strips on the basis of the following schedule:

<b>Item No.</b>	<b>Item</b>	<b>Unit</b>
2232.603	Milled Rumble Strips .....	linear foot

**S-21 (2357) BITUMINOUS TACK COAT** (Revised 01/27/2023)**Emulsified Asphalt**

S-21.1 AASHTO M 208, "Standard Specification for Cationic Emulsified Asphalt," dilution of the emulsion is only allowed by the supplier. No field dilution is allowed. The storage tank for diluted emulsion must have a recirculation system or agitator that will prevent settlement or separation of the Material.

**Table 2357.2-1****Residual Asphalt Content**

<b>Emulsion</b>	<b>Minimum Residual Asphalt Content</b>		
	<b>Undiluted</b>	<b>Diluted (7:3), D30</b>	<b>Diluted (8.5:1.5), D15</b>
CSS-1 or CSS-1h	57 percent	40 percent	N/A
CQS-1h	N/A	N/A	53 percent

S-21.2

**Table 2357.3-1****Tack Coat Application Rates**

<b>Material Type</b>	<b>Application Rates – gallon/square yard</b>			
	<b>CSS-1 or CSS-1h</b>	<b>CSS-1 or CSS-1h</b>	<b>CQS-1h</b>	<b>MC   </b>
<b>Surface Type</b>	<b>Undiluted Emulsion</b>	<b>Diluted* Emulsion (7:3), D30</b>	<b>Diluted* Emulsion (8.5:1.5), D15</b>	<b>Cutback</b>
New Asphalt	0.04 to 0.06	0.06 to 0.09	0.05 to 0.07	0.05 to 0.07
Old Asphalt† and PCC	0.05 to 0.09	0.07 to 0.135	0.08 to 0.10	0.09 to 0.11
Milled Asphalt and Milled PCC	0.06 to 0.09	0.09 to 0.135	0.09 to 0.11	0.09 to 0.11
Notes: * As provided by the asphalt emulsion supplier (see 2357.2A, “Bituminous Material”)    Use when approved by the Engineer † Older than 1 year				

**S-21.3 Monetary Adjustments**

The Department must apply Incentives and Disincentives and may apply monetary deductions for Bituminous Tack Coat. The amounts of these adjustments are deemed reasonable.

The Engineer in conjunction with the Bituminous Engineer may deduct up to 5 percent of the mixture Unit Price for failures related to 3151, “Bituminous Material”.

**S-22 (2360) PLANT MIXED ASPHALT PAVEMENT** REVISED 03/28/25

S-22.1 Delete and replace Table 2360.1-1 of MnDOT 2360.1B(4) with the following:

**Table 2360.1-1**  
**Traffic Levels**

<b>Traffic Level</b>	<b>20 year Design ESALs</b>
2 *	< 1
3	1 – < 3
4	3 – < 10
5	10 – ≤ 30
6	>30 (See SMA Provision)
NOTE: The requirements for gyratory mixtures in this section are based on the 20 year design traffic level of the Project, expressed in Equivalent Single Axle Loads (ESALs) $1 \times 10^6$ ESALs * AADT < 2,300    AADT > 2,300 to < 6,000	



S-22.2 Delete and replace the first paragraph of MnDOT 2360.2E.5.a(2):

At least 7 Working Days before the start of asphalt production, submit the proposed job mix formula (JMF) in writing and signed by a MnDOT Certified Bituminous Mix Designer for each combination of Aggregates to be used in the mixture. Include test data to demonstrate conformance to mixture properties as specified in [Table 2360.2-4](#), and 3139.2, “Graded Aggregate for Bituminous Mixtures, Requirements.” Use forms approved by the Department for the submission.

S-22.3 Delete and replace the first paragraph of MnDOT 2360.2E.5.b with the following:

The Contractor may use the modified mixture design if testing shows that the Aggregates meet the requirements of 3139.2, “Graded Aggregate for Bituminous Mixtures, Requirements,” in the current construction season and if the MnDOT Certified Bituminous Mix Designer submitting the mixture design has at least 2 years’ experience in mixture design. The Department will not require mixture submittal.

S-22.4 Delete and replace MnDOT 2360.2E.5.b(2) with the following:

**E.5.b(2) JMF Submittal**

At least 2 Working Days before beginning asphalt production, submit a proposed JMF in writing to the District Materials Laboratory signed by a MnDOT Certified Bituminous Mix Designer for each combination of Aggregates. For each JMF submitted, include documentation in accordance with [2360.2E.5.a](#), “Option 1 – Laboratory Mixture Design,” to demonstrate conformance to mixture properties as specified in [Table 2360.2-4](#) and Table 3139.2-3. Submit the JMF on forms approved by the Department.

S-22.5 Delete and replace the first paragraph of MnDOT 2360.2E.5.c with the following:

A production mixture design is a new mixture design developed by modifying an existing approved mixture design using plant produced Material or laboratory produced Material. Production mixture designs are allowed only when approved by the Engineer and require an interactive process with the District Materials Laboratory to discuss the proposed modification. Only a MnDOT Certified Bituminous Mix Designer with at least 2 years’ experience in mixture design can request a production mixture design.

S-22.6 Delete and replace the first paragraph of MnDOT 2360.2E.5.c(2) with the following:

At least 2 Working Days before beginning asphalt production with the Option 3 mix design begin the interactive process with the District Materials Engineer and submit a proposed JMF. Option 3 mix design submittals must be signed by a MnDOT Certified Bituminous Mix Designer. If directed by the District Materials Engineer submit an optimum asphalt content point for the proposed JMF (new design). If the Option 3 mix design is utilized for Aggregate substitution submit an optimum asphalt content point when directed by the District Materials Engineer. When an optimum asphalt content point is required include documentation showing the mixture is in accordance with [2360.2E.5.b](#), “Option 2 – Modified Mixture Design,” and meets the requirements of [Table 2360.2-4](#).

S-22.7 Delete and replace the second paragraph of MnDOT 2360.2F with the following:

Show the JMF limits for gradation control Sieves in accordance with Aggregate gradation broadbands shown in Table 3139.2-2, percent asphalt binder content, air voids, and adjusted AFT. If the Department issues a Mixture Design Report, this report only confirms that the Department reviewed the mixture and that it meets volumetric properties shown in Table 2360.2-4 and Table 2360.2-5. The Department makes no guaranty or warranty, either express or implied, that compliance with volumetric properties ensures Specification compliance regarding placement and compaction of the mixture, or any other requirements.

S-22.8 Delete and replace 2360.2G.2(1) with the following:

- (1) Conduct QA and verification testing

S-22.9 Delete and replace the first paragraph of MnDOT 2360.2G.3 with the following:

The Engineer will obtain at least one random verification sample per day per mix type from behind the paver or from the truck box. At least once per day, the Engineer will randomly determine when the mixture sample will be sampled. The Engineer will observe the Contractor sampling and splitting this QA-Verification sample and take immediate possession of the sample after it is split. The split of this sample, given to the Contractor, must be tested by the Contractor and will replace the next scheduled QC sample. Sample enough Material to accommodate retesting in case the samples fail.

S-22.10 Delete and replace the second paragraph of MnDOT 2360.2G.4.a with the following:

Provide QC technicians certified as a Bituminous Plant Tester meeting the requirements of the MnDOT Technical Certification Program for QC testing and a MnDOT Bituminous Mix Designer to make process adjustments. Provide at least one person per paving operation certified as a Bituminous Street Inspector.

S-22.11 Delete and replace the second paragraph of MnDOT 2360.2G.4.b with the following:

If coarse and fine Aggregate angularity are not evaluated for every QC sample retain the extracted gradation samples for the respective QC samples for additional testing. Keep the Aggregate samples in containers with field identification labels for a period of 10 Calendar Days. The Engineer will identify which extracted gradation sample is the verification companion and test for coarse and fine Aggregate angularity.

S-22.12 Delete and replace the first paragraph of MnDOT 2360.2G.5.a with the following:

On the first day of production, for each mixture type, both the Contractor and the Department will establish an ignition oven correction factor from the produced mixture. If the Contractor chooses to determine their own extracted asphalt content, then the result must be sent to the Department by no later than 3 Working Days. If the Contractor's extracted asphalt content is not received by the District Laboratory in 3 Working Days, then the Department's extracted asphalt content will be used to determine the correction factor. Reestablish correction factors when:

S-22.13 Delete and replace the title of Table 2360.2-7 of MnDOT 2360.2G.6.a with the following:

**Table 2360.2-7  
Start-Up Production Testing**

S-22.14 Delete and replace the title of Table 2360.2-8 of MnDOT 2360.2G.6.b with the following:

**Table 2360.2-8  
Production Testing**

S-22.15 Delete and replace the second paragraph of MnDOT 2360.2G.7.g with the following:

The Contractor may test mixtures containing only virgin Aggregates from composite belt samples. Test mixtures containing RAP from extracted Aggregates taken from standard production samples.

S-22.16 Delete and replace the first paragraph of MnDOT 2360.2G.7.h with the following:

Use *Laboratory Manual* Method 1206 to test the composite blend from Aggregates used in production of asphalt mixtures for Fine Aggregate Angularity (FAA) meeting the requirements of Table 3139.2-3. The Contractor may test mixtures that contain only virgin Aggregates from composite belt samples. Test mixtures that contain RAP from extracted Aggregates taken from standard production samples.

S-22.17 Delete and replace the second paragraph of MnDOT 2360.2G.13.a with the following:

A Certified MnDOT Bituminous Mix Designer will review the requested change for the Department. If the request meets the design requirements in Table 3139.2-2, Table 3139.2-3, and [Table 2360.2-4](#), the Department will issue a revised Mixture Design Report. Each trial mixture design submittal in accordance with [2360.2E](#), "Mixture Design," may have three JMF adjustments per mixture per Project without charge.



S-22.18 Delete and replace the paragraph of MnDOT 2360.3A.1 with the following:

Do not use petroleum distillates to prevent adhesion of asphalt mixtures to Equipment. An asphalt release agent must be on the APL. Drain excess release agents from truck boxes prior to loading.

S-22.19 Delete and replace Table 2360.3-3 of MnDOT 2360.3D.1.g with the following:

**Table 2360.3-3  
Lot Determination**

Daily Production, ton	Lots
300* – 600	1
601 – 1,000	2
1,001 – 1,600	3
1,601 – 2,600	4
2,601 – 4,600	5
> 4,600	Add one lot for each additional 900 tons or part thereof.
* If producing no greater than 300 tons of mix, add it to the next production day.	

**S-23      (2360) PLANT MIXED ASPHALT PAVEMENT (REMOVE LONGITUDINAL JOINT)**

MnDOT 2360 is modified and/or supplemented with the following:

S-23.1 Mix Designation Numbers for the bituminous mixtures on this Project are as follows:

Type SP 9.5 Wearing Course Mixture (2,B)	SPWEA240B
Type SP 9.5 Wearing Course Mixture for Paver Level (2,B)	SPWEA240B
Type SP 9.5 Wearing Course Mixture for Tight Blade Leveling	SPWEA240B

S-23.2 Asphalt binder meeting AASHTO M332 (MSCR) is required.

S-23.3 Evaluate pavement smoothness requirements using equation HMA-B as specified in MnDOT 2399.3D.

S-23.4 Delete and replace the sentences in II.A and II.B in the Schedule for Materials Control with the following:

S-23.5 All Aggregates will be split according to G&B Manual 5-692.141, "Quartering Method of Sample Size Reduction". All asphalt mixtures will be split using AASHTO Standard Practice for Reducing Samples of Hot Mix Asphalt (HMA) to Testing Size (R-47) using the Mechanical Splitter Method, Type A (Quartermaster or equivalent).

S-23.6 The mixture requirements for Level 2 mix in Table 3139-3 shall be changed as follows: The Course Aggregate Angularity (CAA) shall be 55% for one face.

S-23.7 If paving is to be done in 2025, the Contractor must complete all work required to have matched paving lanes, stripping and aggregate shouldering by September 27, 2025.

S-23.8 String lines will be required for both pavement lifts for establishing a straight reference line.

S-23.9 MnDOT Table 2360-20 Longitudinal Joint Density Requirement is hereby deleted.

S-23.10 Cracks have been sealed with a sealant material. The Contractor shall be responsible with removing any loose sealant materials.



S-23.11 Any request by the contractor to change the specified bituminous mixture requirements, if approved by the Engineer, will result in a minimum unit price reduction of 5%, as determined by the Engineer.

The Bituminous Pavers used for mainline paving will be equipped with fully automatic controls for adjusting the screed height and transverse slope. The control system shall be capable of easy conversion from fully automatic to manual screed height and transverse slope.

Bituminous Pavers shall be equipped with and use windrow pickup attachments for mainline paving.

A minimum of 3 rollers shall be required and operated, including a steel break down roller, pneumatic tired roller, and a tandem steel wheel finish roller on mainline paving operations.

S-23.12 Delete and replace the first paragraph of MnDOT 2360.3D.1 with the following:

Compact the pavement to at least the minimum required Maximum Density values in accordance with Table 2360.3-1.

S-23.13 Delete and replace Table 2360.3-2 of MnDOT 2360.3D.1 with BLANK.

S-23.14 Delete and replace MnDOT 2360.3D.1.j with the following:

D.1.j Companion Core Testing

S-23.15 The Department will select at least one of the two companion cores per lot to test for verification.

S-23.16 Delete and replace MnDOT 2360.3D.1.n with BLANK.

S-23.17 Delete and replace MnDOT 2360.3D.1.p with BLANK.

S-23.18 Delete and replace Table 2360.5-6 of MnDOT 2360.5B.13 with BLANK.

S-23.19 Delete and replace Table 2360.5-7 of MnDOT 2360.5B.13 with BLANK.

### **G.13.a JMF Request for Adjustment**

The Contractor may make a request to the Bituminous Engineer or District Materials Engineer for a JMF adjustment to the mix design if the QC test results indicate a necessary change to achieve the specified properties. Do not use aggregates or materials not part of the original mix design to make adjustments unless otherwise approved by the Engineer, in conjunction with the District Materials Engineer or the Department Bituminous Engineer.

A Certified Level II Bituminous QM Mix Designer will review the requested change for the Department. If the request meets the design requirements in Table 3139.2-2, Table 3139.2-3, and Table 2360.2-4 the Department will issue a revised Mixture Design Report. Each trial mixture design submittal in accordance with 2360.2E, "Mixture Design" may have three JMF adjustments per mixture per project without charge. The Department will charge the Contractor \$500 for each additional JMF adjustment requests.

Perform an interactive process with the Engineer before making JMF adjustments. Make JMF adjustments only within the mixture specification gradation design broadbands in accordance with Table 3139.2-2. Submit a new JMF when redesigning the mixture. Only reduce the JMF asphalt content if the moving average Adj. AFT is 9.0μ or more and Individual Adjusted AFT is at least 8.0μ.

The department will not allow consecutive requests for a JMF adjustment without production data. Continue calculation of the moving average after the approval of the JMF.

S-23.22 Delete Paragraph 1 and Table 2360.5-2 in MnDOT 2360.5 B.6, "Individual Failure – Percent Asphalt Binder, Production Air Voids, and Adj. AFT," and replace with:

If the individual test result for adjusted AFT is less than 8.0μ, the Department may either reduce payment in accordance with Table 2360.5-2, "Reduced Payment Schedule for Individual Test Results, Adjusted AFT," or order the material removed and replaced represented by the individual test. This tonnage includes all material placed from the sample point of the failing test to the sample point when the test result meets specification requirements. If the failure occurs at the first test after the start of daily production, the Department will include the tonnage from the start of production that day with the tonnage subject to reduced payment or removal and replacement.

Table 2360.5-2

Reduced Payment Schedule for Individual Test Results, Adjusted AFT

Individual Adjusted AFT, $\mu$	Pay Factor, %
$\geq 8.0$	100
7.9 – 7.5	90
7.4 – 6.6	75
$\leq 6.5$	R&R <sup>(*)</sup>
* Remove and replace at no expense to the Department.	

S-23.23 Delete Paragraph 2 in **2360.5 B.10, “Moving Average Failure – Percent Asphalt Binder Content, Gradatio. and Adj. AFT,”** and replace with:

The Engineer will calculate the Moving Average ( $n=4$ ) Adjusted AFT during the sixth test after the beginning of mixture production of that specific mixture. The Engineer will include the individual results of calculations for tests No. 3, No. 4, No. 5, and No. 6 with this calculation. The Department will consider material with the Moving Average ( $n=4$ ) of the Adjusted AFT is less than  $8.5\mu$  as unsatisfactory and will pay for the material at 80 percent of the relevant contract unit price. The Department will calculate the quantity of material subject to replacement or reduced payment as the tons placed from the sample point of all Individual Adjusted AFT results less than  $8.5\mu$ , which contributed to the Moving Average value that was less than  $8.5\mu$ , to the sample point where the Individual Adjusted AFT is at least  $8.5\mu$ . If the failure occurs at the first test after the start of daily production, the Department will include the tonnage from the start of production that day with the tonnage subject to reduced payment.

#### S-24 **(2563) TRAFFIC CONTROL** (Revised 04/14/2023)

##### S-24.1 DESCRIPTION

This Work consists of furnishing, installing, maintaining, and removing all traffic control devices required to provide safe movement of traffic and pedestrians through the Project at all times from commencement of the Work until Project Acceptance. Maintain roads and pedestrian facilities undergoing improvements in a condition that accommodates public traffic. Do not close roads or pedestrian facilities, except as authorized. The Engineer may modify the requirements for traffic control as deemed necessary.

The use of maintenance crossovers in or near the construction area is permitted if authorized by the Engineer. The Contractor is not responsible for snow removal from roads or pedestrian facilities open to public traffic. Do not suspend operations for the winter until meeting the requirements of 1803.4, “Temporary Suspensions”. During authorized winter suspension, the Department will maintain traffic control devices. If traffic control devices are damaged or destroyed, the Department will pay the Contractor the value of the device as determined by the Engineer.

All temporary traffic management must conform to and be installed in accordance with:

- the "Minnesota Manual on Uniform Traffic Control Devices" (MN MUTCD);
- the "Minnesota Temporary Traffic Control Field Manual" (Field Manual);
- the "Speed Limits in Work Zones Guidelines";
- the "Minnesota Flagging Handbook";
- the "MnDOT Standard Signs and Markings Manual";
- the Plan;
- all applicable standard Specifications and Special Provisions.

Manuals listed above may be found at: <http://www.dot.state.mn.us/trafficeng/publ/index.html>



## S-24.2 MATERIALS

### A Temporary Signs and Devices

Reflectorize all signs, paddles, and other traffic control devices including those used for daytime operations. Fabricate temporary rigid signs and devices with retroreflective sheeting material of the appropriate color listed on the Approved Products List (APL) for either “Sheeting for Rigid Temporary Work Zone Signs, Delineators, and Markers (Type IX and XI)” or “Sheeting for Rigid Permanent Signs, Delineators, and Markers (Type IX and XI)”. The sheeting Materials APL is located at the following link: <http://www.dot.state.mn.us/products/signing/sheeting.html>.

Inplace signs that still apply during temporary operations need no change in sign sheeting.

### B Vehicle Conspicuity Tape

The Approved Products List for “Conspicuity Vehicle Sheeting (Type VII)” is found at: <http://www.dot.state.mn.us/products/signing/sheeting.html>

### C Truck/Trailer Mounted Attenuators

The Approved Products List for “Mobile Crash Attenuators” is found at: <http://www.dot.state.mn.us/products/temporarytrafficcontrol/mobilecrashattenuators.html>

### D Drum Sheeting

On Projects requiring drums per MnDOT Standard Plate No. 8000 Temporary Channelizers – Type B, provide all drums with six-inch fluorescent orange and white sheeting material with no gap between sheeting layers

### E Crashworthy Signs, Traffic Control Devices, and Ballast

Signs and traffic control devices must be crashworthy and meet the crash testing requirements of the AASHTO Manual for Assessing Safety Hardware 2016 (MASH-16). The Department may require a letter of compliance stating that all signs and traffic control devices comply with MASH-16 requirements. The Letter of Compliance must include drawings of the different signs and devices along with a copy of the FHWA issued Letter of Eligibility or MnDOT MASH Crashworthy Evaluation

See MnDOT Technical Memorandum No. 19-03-T-01 for information and timelines on the allowable use of crashworthy devices tested under NCHRP-350. <https://techmemos.dot.state.mn.us/techmemo.aspx>

The approved ballast system for signs and devices mounted on temporary portable supports is sandbags, unless it is designed, crash tested, and approved for the specific device. Add a deicer during freezing conditions to prevent the sand from freezing. Place sandbags at the base of the sign or traffic control device. Do not use any ballast that causes a sign or traffic control device to become hazardous to motorists or workers.

## S-24.3 CONSTRUCTION REQUIREMENTS

### A Traffic Control Plan, Maintenance, and Inspection

A.1 Submit a proposed traffic control Plan to the Engineer for acceptance if traffic control is not present in the Plan, or if the Contractor modifies the traffic control Plan. Submit the proposed traffic control Plan at least seven days before implementation. If Field Manual layouts are used, specify layout number(s) but do not submit the layouts from the Field Manual. Do not implement the proposed traffic control modification until accepted by the Engineer.

A.2 Immediately repair or replace all traffic control devices that become damaged, moved or destroyed, and all ballasts that are damaged, destroyed, or otherwise fail to stabilize the device.

A.3 Meet the traffic control device quality standards as required in the Field Manual. Immediately replace unacceptable traffic control devices. Signs that are dirty and result in a noticeable loss of reflectivity at night are considered unacceptable and must be cleaned or replaced. Respond promptly to any call from the Engineer concerning the notification of unacceptable traffic control devices.



C.5 Do not park vehicles or construction Equipment in the clear zone or any location that obstructs traffic control devices. Workers are not allowed to park their private vehicles within the Project limits unless approved by the Engineer.

C.6 Do not load or unload material or Equipment on the Shoulders of any Roadway without a full Shoulder closure using signs and channelizing devices shown on Layout 8 in the Field Manual.

#### **D High Visibility Apparel**

During night work or low light conditions, all workers must wear high visibility Class E long pants and retro-reflective headgear in addition to the ANSI Class 2 or 3 vest, shirt, or jacket.

All high visibility apparel must be worn in the manner for which it was designed. All apparel worn on the torso must be closed in the front to provide 360-degree visibility. A worker's high-visibility apparel must be removed from service and replaced if it becomes faded, worn, torn, dirty, or defaced, reducing the conspicuity of the apparel.

#### **E Night Work**

Night work is not permitted on this Project without prior approval of the Engineer.-

#### **F Vehicle Warning Light Specification**

All vehicles and Equipment operating in the trunk highway Right-of-way, must have operable warning lights that are amber in color and meet the appropriate SAE Specification. The SAE Specification requirements are as follows:

- (1) Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles- SAE Specification J845.
- (2) Directional Flashing Optical Warning Devices for Authorized Emergency, Maintenance, and Service Vehicles - SAE Specification J595.

Details on SAE Specification can be found at: <http://www.dot.state.mn.us/const/wzs/lighting.html>

#### **G Lane Closure Requirements**

G.1 Temporary lane closures or other traffic restrictions by the Contractor, during work hours and consistent with the time restrictions, will be permitted only during those hours and at those locations approved by the Engineer. Request temporary lane closures at least two Business Days prior to the closure.

#### **H Truck/Trailer Mounted Attenuators (TMAs) For Mobile/Short Duration Operations**

Truck/Trailer Mounted Attenuators (TMA) must be used on all shadow and protection vehicles operating totally or partially in a Traffic Lane if any temporary traffic control zone is defined as "Mobile/Short Duration" by the Field Manual. All references to "should" in the Field Manual in regard to TMA use for Mobile/Short Duration layouts are hereby changed to "shall". This requirement applies to all operations utilizing Field Manual layouts 9, 10, 12, 13, 36, 41, 49, 50, 51, 54, 55, 63, 76, 77, 78, and 79. Providing TMAs for "Mobile/Short Duration" work zones is included in Traffic Control Lump Sum.

#### **I Flagging Operations**

I.1 Flaggers and Pilot Drivers must attend a training session taught by a MnDOT-Qualified Flagger Trainer. The trainer must have completed a "MnDOT Flagger Train the Trainer Session" within the last five years and be on file as a qualified Trainer with MnDOT. Provide all flaggers with the MnDOT Flagging Handbook. Flaggers must be in possession of the handbook while flagging on the Project. Furnish the signed "Checklist for Flagger Training" or "Flagger Qualification Card" to the Engineer any time a new flagger reports to work on the Project. The "Checklist for Flagger Training" and other forms and information is found at: <http://www.dot.state.mn.us/const/wzs/flagger.html>

Flaggers must be properly uniformed in the required high visibility apparel, including a high visibility hat. The high visibility hat can be substituted for a hard hat if the work site has a hard hat requirement.

I.2 All signs associated with the flagging operation must be removed or covered when flagging operations are not present.

I.3 Coordinate the flagging operations in a manner that causes minimum delay to the traveling public. The maximum delay time is 10 minutes. If the operation exceeds the maximum delay time, the operation must be discontinued until a new traffic control Plan is developed which meets the maximum delay requirement.

I.4 Furnish at least one pilot car and driver for leading traffic through the work zone. Pilot Car operations must be in accordance with the following:

- (1) Pilot cars will be utilized on all Roadways.
- (2) Pilot Vehicles must:
  - (a) Be capable of being turned around quickly in a small area.
  - (b) Have a standard sign G20-4, "PILOT CAR, FOLLOW ME", mounted on the rear of the vehicle. Minimum mounting height of sign is one foot above the ground.
- (3) Flaggers must have portable radio communication with the pilot car.
- (4) Take necessary precautions to prevent any traffic that enters the highway between Flaggers from going in the opposite direction as the pilot car caravan. Do not allow or force traffic onto the Shoulders without prior approval of the Engineer.
- (5) Work Equipment and vehicles must follow in line and use the Roadway in a manner similar to all other through traffic during the time of pilot car operations.

I.5 Furnish Flaggers in sufficient quantity to control each approach to the work area including intersecting crossroads that are open to traffic. Intersecting Cross Roads that will require additional flaggers when work is conducted within the pilot car operation. All other intersecting cross roads, at minimum, will require advance signing in accordance with layout 6K-19b of the Temporary Traffic Control Field Manual.

I.6 Provide flaggers as directed by the Engineer if hauling operations create hazards for the traveling public.

#### S-24.4 METHOD OF MEASUREMENT

All traffic control required to complete the Project as shown in the Plans and specified in these Special Provisions will be made as a lump sum payment under Item 2563.601 (Traffic Control). Payment includes all costs associated with furnishing, installing, maintaining, relocating and subsequently removing traffic control devices (including flaggers) as required. No additional measurement for payment will be made for individual activities and devices that constitute Traffic Control, except for other traffic control Bid items specifically listed in the Statement of Estimated Quantities.

Traffic Control layouts and devices not shown in the Plan or stated in these Special Provisions, that are necessary to facilitate traffic switches or for transitioning traffic from one stage to another, are included in the lump sum traffic control item. If the Contractor requests a change in traffic control and these changes are implemented, there will be no increase or decrease in the lump sum payment for traffic control. If the Engineer orders a change in traffic control because of a Plan error, omission, changed condition or change of Project scope, payment for such changes will be made as Extra Work.

If the Contractor fails to properly provide, install, maintain, or remove any of the required traffic control devices, the Department may correct the deficiency and to deduct the costs from any moneys due or becoming due to the Contractor in accordance with MnDOT 1512, "Unacceptable and Unauthorized Work".

**S-24.5 BASIS OF PAYMENT**

Partial payments for lump sum Pay Item 2563.601 (Traffic Control) will be made as follows:

- (1) When all traffic control devices for an individual stage, as shown on the Traffic Control Layouts, have been installed, 80% of the Contract Unit Price for that stage will be paid.
- (2) When all work in an individual stage and all traffic control devices for that stage are removed, the remaining 20% of the Contract Unit Price for that stage will be paid.

**A Monetary Price Adjustments**

The Department must apply incentives and disincentives and may apply monetary deductions for (2563) Traffic Control. The amounts of these adjustments are deemed reasonable.

If the Contractor fails to adhere to the established time schedules, the Department may assess a monetary adjustment of \$1,500.00 per hour for each hour or portion of an hour that the Engineer determines that the Contractor has not complied.

**B Schedule**

The Contract Unit Price for Traffic Control is compensation in full for Equipment, Materials and labor required to complete the Work.

The Department will pay for Traffic Control based on the following schedule:

<b>Item No.</b>	<b>Item</b>	<b>Unit</b>
2563.601	Traffic Control .....	Lump Sum

**S-25 AGGREGATE PRODUCTION**

Aggregate for the purpose of the contract shall be furnished by the Contractor from sources selected by him.

The Contractor will be required to make his own arrangements with the owner for the material and any payment that is required of the Contractor shall be made directly to the owner.

**S-26 GRAVEL TAX**

The attention of the Bidder is particularly directed to Chapter 273, Laws of Minnesota, 1979, and certain regulations of the Board of County Commissioners of Polk County made pursuant thereto, the effect of which is to levy a tax (payable to Polk County) of 15 cents per ton on all gravel removed from any deposit in Polk County for any purpose whatsoever.

The Contractor is required to supply the Polk County Highway Department with names of all the pits aggregate material was taken out of at the completion of the project.

**S-27 TRUCKS AND LOADING REQUIREMENTS**

The maximum load for any truck or truck trailer combination shall be the maximum allowable loading weight limits under Minnesota Statutes. No payment will be made for any materials in excess of the legal gross weight.

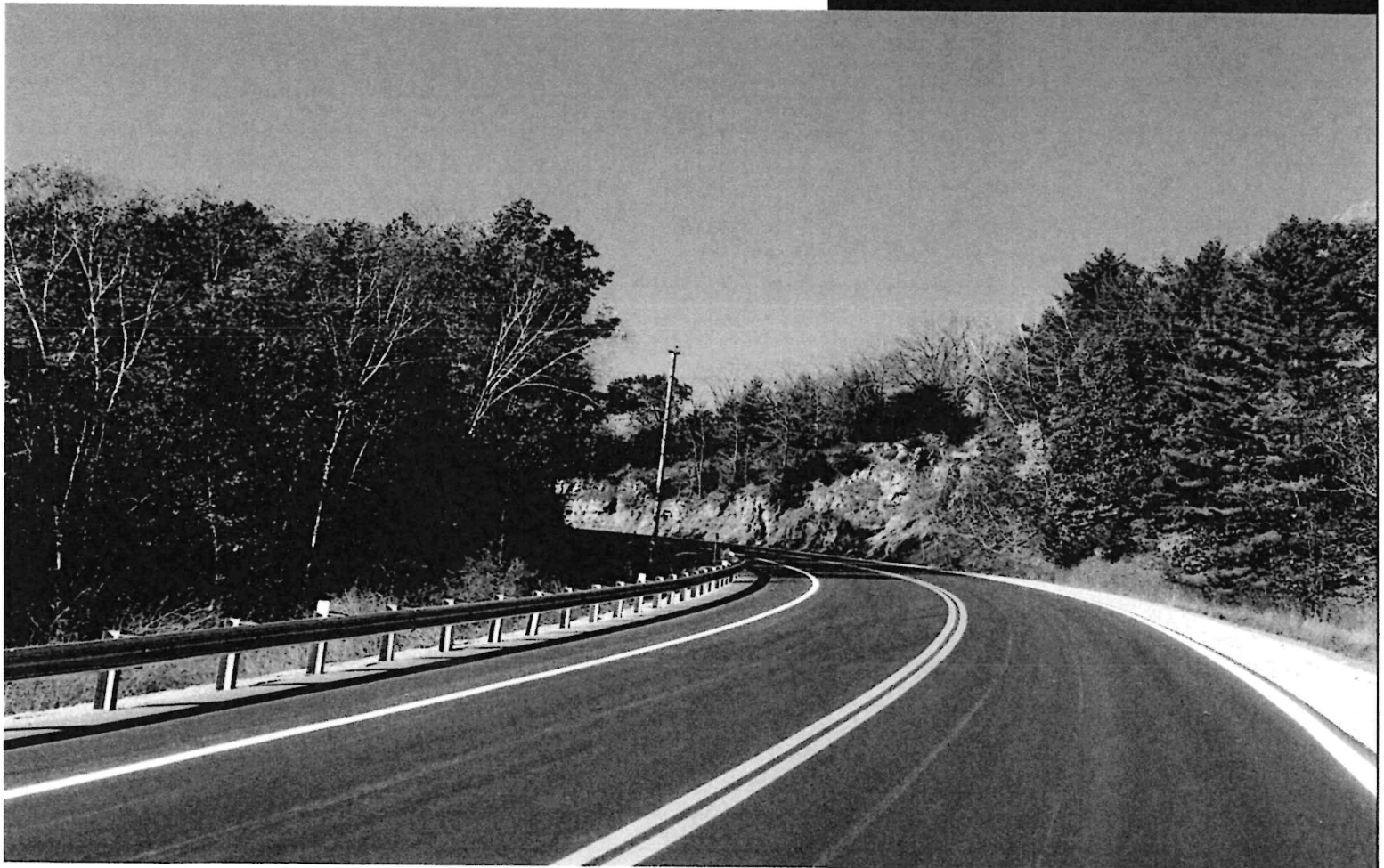
Due to excessive road damage in the past, vehicles with tridem axles must have dual tires on 2 of the 3 rear axles. The Contractor will not be allowed to haul on this Contract using tridem axles with single tires or 2 tires per axle, except as noted above, even though load limits would be legal.

When bidding this project, the Contractor should take into consideration the cost of converting vehicles to meet this specification.



# 2024

## SALT Schedule of Materials Control



## Bituminous Quality Management

The Contractor shall provide and maintain a quality control program as detailed in Specification 2360.2.G. The Engineer shall review the quality control program for compliance. This shall be provided at the precon.

	Type of Test	Spec Section (1)	Contractor / Producer – QC Testing Rates	Agency – QA Testing Rates	
Start-Up Testing Rates for the 1 <sup>st</sup> 2000 tons (2)	Bulk Specific Gravity	2360.2.G.7.b	1 test per 500 tons 55 lb. sample 3 full cylinder molds (7)	(3) (10) 1 Verification Mixture Sample test per day, all Verification samples are from a split (QC/QA) sample.	
	Maximum Specific Gravity	2360.2.G.7.c			
	Air Voids (calculated)	2360.2.G.7.d			
	Asphalt Content	2360.2.G.7.a			
	Adj. Asphalt Film Thickness (AFT)	2360.2.E.7.e			
	Gradation	2360.2.G.7.f			
	Fines to Effective Asphalt Ratio (calculated)	2360.2.G.7.a/f	1 test per 1000 tons (4) (5) (6) (7)		
	Coarse Aggregate Angularity (CAA)	2360.2.G.7.g			
	Fine Aggregate Angularity (FAA)	2360.2.G.7.h			
	Added AC/Total AC Ratio (calculated)	2360.2.G.7.a			
Production Testing Rates	Bulk Specific Gravity	2360.2.G.7.b	1 test per 1000 tons 55 lb. sample 3 full cylinder molds (7)	(3) (10) Verification Mixture Sample test per day/ mix type, submit companion to the QC – CAA & FAA test results.	
	Maximum Specific Gravity	2360.2.G.7.c			
	Air Voids (calculated)	2360.2.G.7.d			
	Asphalt Content	2360.2.G.7.a			
	Adj. Asphalt Film Thickness (AFT)	2360.2.E.7.e			
	Gradation (minimum of 1 per day)	2360.2.G.7.f			
	Added AC/Total AC Ratio (calculated)	2360.2.G.7.a			
	Coarse Aggregate Angularity (CAA)	2360.2.G.7.g	(4) (5) (7)		
	Fine Aggregate Angularity (FAA)	2360.2.G.7.h	(4) (6) (7)		
	TSR	2360.2.G.7.i	When directed by the Engineer		
	Aggregate Specific Gravity	2360.2.G.7.j			
	Mixture Moisture Content	2360.2.G.7.k	As directed by the Engineer		
	Asphalt Binder (QA ONLY)	2360	(8) 1 qt. steel container for asphalt binder		
	Asphalt Emulsion (QA ONLY)	2357	(9) ½ gal plastic container for asphalt emulsion. (Tack)		
		Compaction / Density Requirements	2360.3.D	Review special provisions	
		Small Quantity Requirements	< 500 tons per project may be accepted by the Engineer without testing.		

**NOTES:** Testing rates are minimum rates; additional testing is encouraged to ensure a quality product.

- (1)** Review Special Provisions & 2360.2G Mixture Quality Management.
- (2)** The testing rates apply only to mixtures that have not been tested on previous projects in the current year.
- (3)** The Agency shall witness a minimum of 1 (one) complete QC mixture sampling, splitting and test per day. The Agency shall take possession of all split QA samples immediately. The Agency shall randomly submit one QA split sample to the District Lab for Verification testing and inform with contractor the following day of test number. Additional verification samples can be taken at any time or location. When additional verification samples are taken, the contractor must test the Verification Companion split of this sample and include the results in the QC program.
- (4)** The Contractor will retain the extracted gradation samples in containers with field identification numbers for a period of 10 calendar days. The Engineer will identify which extracted gradation sample is the Verification Companion Sample and whether it is to be tested for coarse and fine aggregate angularity.

- (5) **At start-up or new Mix Design:** 2 tests/ day for a minimum of 2 days, then 1/day if CAA is met. If CAA > 8% of requirement, 1 sample/ day but test 1/ week. No testing required for Class A and B Aggregates.
- (6) **At start-up or new Mix Design:** 2 tests per day for a minimum of 2 days, then 1/day if FAA is met. If FAA > 5% of requirement, 1 sample/ day but test 1/week.
- (7) Random number generation and determination of random sample location shall be consistent with Section 5 of ASTM D3665. The Engineer may approve alternate methods of random number generation.
- (8) **During Asphalt Mixture Production (Field Verification):** Shall be from a certified supplier. Obtain asphalt binder samples from a sampling valve located between the pump and the drum. Contractor personnel shall obtain samples, under the observation of a department representative, by random selection from shipments of material at the project site. The samples shall be taken from the first load and subsequently 1 per 1000 tons of liquid asphalt binder for each supplier and grade of asphalt binder per contract. For contracts with less than approximately 25 tons (one truck transport) of asphalt binder, sampling may be waived. A minimum of 1 gallon of binder must be drawn and wasted from the sampling valve before the actual sample is drawn. Sample shall be sent in for verification testing.
- (9) **During Mixture Production (Field Verification):** Shall be from a certified supplier. The Contractor shall sample first shipment, then submit 1 per 50,000 gallons. Sample emulsified asphalt in clean ½ gallon plastic container with wide screw top and send to MnDOT Chemical Lab within 7 days of sampling. Sample all emulsified asphalt from the distributor. Sample shall be sent in for verification testing. No Samples required unless directed by the Engineer.
- (10) Conduct random belt samples and test for aggregate quality as directed by the Engineer.



## Bituminous Specialty Items

Type of Test	Spec	Contractor/Producer – QC Testing Rates	Agency- QA Testing Rates
<b>Gradation</b>	2363	1 per 1,000 Ton with a minimum 1 per day.	1 per day. 35 lbs.
PASSRC & PASB	3139.3		
Micro-Surfacing	2354 3139.5	Stockpile: 1/1,500 Tons (min 1/day) Machine Hopper: 1/500 Ton (min 1/day)	Machine Hopper: 1/day, 30 lbs.
Seal Coat, Underseal & Otta Seal	2356 3137.2B	Stockpile: 1/1,500 Tons (min 1/day) Chip Spreader Hopper: 1/day	1/day from Hopper. 30 lbs.
<b>% Crushing – CAA</b>	2363	1 per 1,000 Ton with a minimum 1 per day.	1 per day from gradation test. 35 lbs.
PASSRC & PASB	3139.3		
<b>Moisture / Aggregate</b>	2354	Machine Hopper: 1/500 Tons (min 3/day)	1/day 2lbs
Micro-Surfacing	3139.5		
<b>Sand Equivalence</b>	2354	1/day	Test at Engineer discretion, 25 lbs.
Micro-Surfacing			
<b>Flakiness Index</b>	2356	Sample taken from first load on first day, submit to Agency: 30 lbs.	Agency will test at their discretion, see Lab Manual 1223
Bituminous Seal Coat & Bituminous Underseal			
<b>Bituminous Mixture</b>	2353	1/500 Tons, min 1/day. %AC, Gradation, Max SpG, Adj.AFT	1/day, 20 lbs. 1 cylinder from truck box.
UTBWC	3151.2G		
PASSRC & PASB	3151 2363	Asphalt spot check: min 1/day	-
Stone Matrix Asphalt – SMA  Lab Manual 1203, 1204, 1205, 1211, 1214, 1806, 1807, 1808, 1813, 1853, 1854, 1855, AI SP-2 AASHTO T305	2365	<b>Tests</b> , %AC, gradation, Gmm, Gmb, Voids, VMA, CAA, Draindown, VCA, fines/effective asphalt.  Rate, (1/1000 tons, min.1/day) Agg SpG, mix moisture, TSR to be tested as directed by Engineer.  Submit companion 1 per day to agency: 3 full 6" by 12" cylinders	Tests: %AC, Gradation, Gmm, Gmb, Voids, VMA, CAA, VCA, fines/effective asphalt. Agency is not required to do drain down. Copy MDR to Project Engineer and Grading & Base Engineer.
<b>Asphalt Binder Tests</b>		<u>Asphalt Emulsion List</u>	<u>Asphalt Binder List</u>
UTBWC	2353 3151	<b>Asphalt Binder:</b> Sample first load, then 1/250,000 gallons. Sample size of 1 quart metal container. <b>Emulsified Asphalt:</b> Sample first load, then 1/50,000 gallons. Sample size of ½ gallon wide screw top plastic container.	
Micro-Surfacing	2354		
Seal Coat, Underseal & Otta Seal	2356		
Tack Coat	2357		
PASSRC & PASB	3151		
<b>Asphalt Binder Rate</b>	2354	Verify Application Rate 3/day	Verify Application Rate 1/day
Micro-Surfacing			
Fog Seal	2355	Verify Application Rate 1/day	Verify Application Rate 1/day
Seal Coat, Underseal & Otta Seal	2356		
Bit Tack Coat	2357		

## Grading and Base Construction Items (1 of 4)

		Material Type	Spec.	Contractor / Producer QC Testing Rates	Minimum Required Agency QA Testing Rates	Verification Testing Sample
Gradation Testing (2) (3)		Aggregate Surfacing	3138	1 / 1,000 CY (CV) stockpile gradation only required for material on hand.	> 250 yd <sup>3</sup> (CV) or 500 Tons and < 2000 yd <sup>3</sup> (CV) or 4000 tons. Material is a minimum of one lot (5). Test two random samples from each lot and average.  > 2000 yd <sup>3</sup> (CV) or 4000 Tons. Divide into lots with lot size (5) no greater than 2000 yd <sup>3</sup> (CV) or 4000 Tons. Test two random samples from each lot and average.	1/source 30 lb.
		Aggregate Base	3138			
		Shoulder Base Aggregate	3138			
		Drainable Aggregate Base (OGAB & DSB)	3136			
		Granular and Select Granular Material (borrow/embankment)	3149.2B	1/10,000 CY (CV) only required for material on hand.	1/40,000 yd <sup>3</sup> (CV)	1/source 30 lb.
		Stabilizing Aggregate	3149.2C			
		Reclamation FDR	3135.2B	None	Test at Engineer's discretion. Inspect for oversize chunks (+3"), after the motor grader has overturned the material	None
		Granular Filter	3601.2B	1/source – before delivery on the project. Only required for materials on hand. Spec 1906.2	1/ source	1/source 30 lb.
		Backfill Materials	3149.2D			
		Granular Bedding	3149.2F			
		Aggregate Bedding	3149.2G			
		Coarse Filter Agg.	3149.2H			
		Filter Aggregate	3149.2J			
		Sand Cover	3149.2K			
Proctor	Specified Density *	Non-Granular Material Used to determine optimum moisture & maximum density.	2106 3149	None	1 per major soil, subgrade prep specified density requires 100% of proctor density.	1 sample 25 lb.
Sand Cone, Nuclear Density or LWD		Non-Granular Material For non-granular material, i.e., material that does not meet 3149.2B.1		<p><b>AGENCY TESTING: Roadway Embankment:</b> One test per 4,000 yd<sup>3</sup> (CV) <u>or if test rolled, One test per 10,000 yd<sup>3</sup> (CV)</u></p> <p><b>Transverse culverts &amp; abutments:</b> 1 test per every 2 feet of fill.</p> <p><b>Structures and Longitudinal Trenches:</b> One test per 300 feet of each structure per 2 feet per fill.</p> <p><b>Sidewalks and Trails:</b> 1 per 500 feet.</p> <p><b>Subgrade Preparation:</b> One per 25 road stations.</p>		

## Grading and Base Construction Items (2 of 4)

Material Type		Spec.	Contractor / Producer QC Testing Rates	Minimum Required Agency QA Testing Rates	Verification Testing Sample
Penetration Index Method (DCP) or LWD *	Aggregate Base	3138 2211.3C	None	1 DCP tests per 500 yd <sup>3</sup> (CV) or 1 per 1000 Tons. If test rolled, 1 test / 1,500 yd3 (CV) or 3000 Tons.	None
	Shoulder Base Aggregate				
	Reclamation FDR	3135.2B 2215.2C		1 DCP test per 3,000 yd <sup>2</sup> . If test rolled, 1 test / 10,000 yd <sup>2</sup>	
	Walks & Trails	2521		1 per 500 feet of Sidewalk or Trail	
	Granular Materials Subgrade Preparation (for materials meeting 3149.2B1)	3149.2B	AGENCY TESTING: Roadway Embankment: One test per 2,000 yd3 (CV) <u>or if test rolled, One test per 6,000 yd3 (CV)</u>  Transverse culverts & abutments: 1 test per every 2 feet of fill. Structures and Longitudinal Trenches: One test per 300 feet of each structure per 2 feet per fill.  Sidewalks and Trails: 1 per 500 feet.  Subgrade Preparation: One per 25 road stations.		
Moisture Content Test During All Compaction Methods (4)	Aggregate Base, Shoulder, Surfacing & Walks	3138	None	For 2118, 2211,2221, and 2521: 1 / 1,000 yd3 up to 10 Maximum  For 2451: 1 per structure, for multiple adjacent structures, may test once, use judgement  For Quality Compaction: Test as directed by Engineer.	None
	Drainable Aggregate Base (OGAB & DSB)				
	Reclamation FDR	3135.2B	None	1 / 20,000 yd <sup>2</sup>	
	All Embankment Materials	2106 3149	None	1/10,000 yd3 up to 10 Maximum For Quality Compaction: Test as directed by Engineer.	
	Subgrade Preparation	2106 3149		1 per 25 road stations For Quality Compaction: Test as directed by Engineer.	
Percent Crushing	Particle Count (1)	1906.2	1 required for Material on hand	1/source unless directed by Engineer, (required for 3138.2B & C, 3149.2C & G1, 3136.2B).	1 / source
Quality	Aggregate Quality Tests	3138 3149 3601	1 required for material on hand, Spec 1906.2	1/ source unless directed by Engineer	1 / source 30lb
Depth Check	Reclamation FDR	3135.2B	1/Mile.	1 per day unless directed by Engineer	



Material Type		Spec.	Contractor / Producer QC Testing Rates	Minimum Required Agency QA Testing Rates	Verification Testing Sample
Test Rolling	Test Rolling (6)	2111	The contractor shall perform test rolling at the top of all: <ul style="list-style-type: none"> <li>• Non-granular subgrade (2106)</li> <li>• Granular subgrade that does not meet 3149.2.B.2 (2106)</li> <li>• Base (2211) and shoulder base (2221)</li> <li>• Non-Stabilized Full Depth Reclamation (FDR) (2215)</li> <li>• Minimum 12' width and 300' length. Agency to observe test rolling.</li> </ul>		

**Verification Testing Samples are companion split samples to the QA sample:**

- Companion gradation, proctor, QA crushing, aggregate quality samples not required 1,000 tons or less.
- Include the laboratory companion with the first field sample.
- Include the field sample results with the laboratory sample.
- Laboratories with AMRL Accreditation are not required to submit laboratory companion samples.
- Carbonate aggregate materials require 50 lb. samples for the laboratory testing.

**NOTES:**

(1) Percent crushing test is not required when the material is crushed from a quarry or contains 25% or greater recycled materials.

(2) Submit a laboratory companion to the first Acceptance Gradation sample for a bituminous extraction, see 3138.2C. Full Depth Reclamation samples are not required.

(3) The Certification of Aggregates and Granular Materials procedure and documentation of testing locations is at the discretion of the Engineer.

(4) For quality compaction per spec 2106.3G.2, test at Engineer's discretion.

(5) Lot sizes may be adjusted by the Engineer. This may be good practice if parts of the project are taking place in separate areas or at separate times, such as many turn lane or excavation areas or separate project stages.

(6) The Engineer may elect, with the concurrence of the Contractor, to have the Contractor test roll per 2111, "Test Rolling", material meeting the requirements of 3149.2.B, "Select Granular Material", in lieu of spot compaction testing. If this method is adapted, the Contractor would be required to first place 3" of base on top of the Select Granular prior to test rolling. For areas failing test rolling the Contractor is required to remove the base and recompact the material, then place the base back, and retest roll. There is no additional compensation to the Contractor if this method is adapted. Additionally, the Select Granular is not accepted until passing test rolling has occurred.

\* Review the Special Provisions. The Grading and Base Manual allows the nuclear density gauge, see pages 60 and 65.

**NOTES:**

Conversions: 1 ton = 0.55 yd3 (CV), 1 ton = 0.7 yd3 (LV), 1 yd3 (CV) = 1.8 tons.

**Less than 500 tons (250 CY) may be accepted by the Engineer without testing.**

## Grading and Base Construction Items (4 of 4)

### Guidelines for Required Crushing & Aggregate Quality Tests

	<b>3149 Granular Materials</b>	<b>3138 Aggregate for Surface and Base</b>	<b>3136 Drainable Bases</b>
<b>Crushing</b>	Yes, for Stabilizing Aggregate, Fine Aggregate Bedding and Medium Filter Aggregate.  Test waived if material contains recycled at twice the minimum crushing requirement.  Not required for quarried sources.	Yes, for Class 5, 5Q & 6. Test waived if material contains recycled at twice the minimum crushing requirement. Not required for quarried sources. Class 2 must contain 100% crushed quarry rock.	Yes. Not required for quarried sources.
<b>Bitumen Content</b>	At the discretion of the Engineer	At the discretion of the Engineer	Not applicable
<b>LAR</b>	Not applicable	Yes, if source is carbonate quarry and does not contain bitumen.	Yes
<b>Insoluble Residue</b>	Yes, if source is carbonate quarry and does not contain bitumen.	Yes, if source is carbonate quarry and does not contain bitumen.	Yes, if source is carbonate quarry.
<b>Litho Exam &amp; Shale Float Test</b>	Yes, for Medium Filter Aggregate	Yes, for Class 3, 4, 5, 5Q & 6, when not from quarried rock, and does not contain bitumen.	Yes, when not from a quarried source.

Testing procedures in the Grading & Base Manual.

Forms and worksheets at the Grading & Base website.

Gradation worksheets at the SALT Construction website.

**\*\*MAKE SURE TO FILL OUT THE REQUIRED PRELIMINARY AND FINAL GRADING AND BASE REPORTS AND SUBMIT TO PROJECT ENGINEER.\*\***

[http://www.dot.state.mn.us/materials/gradingandbasedocs/Forms/form001\\_08\\_043019.xlsx](http://www.dot.state.mn.us/materials/gradingandbasedocs/Forms/form001_08_043019.xlsx)

## Chemical Items

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Asphalt Plank	3204	Visual Inspection - As directed by the Engineer.
Calcium Chloride	3911	Review the percentage required as per specification. Check for listing on Qualified Products website.
Magnesium Chloride	3912	
Hot-Pour Crack Sealant (for Crack Sealing/Filling)	3719 3723 3725	Retain Certification of Compliance. Check for listing on Qualified Products website.
Pavement Joint Adhesive	Special Provisions	Retain Certification of Compliance
<b>Waterproofing Materials</b>		
<u>Membrane Waterproofing System</u>	3757	Visual Inspection - Check qualified products list.
<b>Waterproofing Materials - Three Ply System</b>		
Asphalt Primer	3165	Verify supplied material meets ASTM D 41
Waterproofing Asphalt	3166	Verify supplied material meets ASTM D 449
Fabric	3201	Verify supplied material meets ASTM D 41
<b>Paints</b>		
<u>Waterborne Latex - Traffic Paint</u>	3591	Visual Inspection - Check qualified products list - retain Certificate of Compliance.
<u>Epoxy Traffic Paint</u>	3590	
<u>Traffic Marking Paint</u>	Special Provisions	
<u>Non-Traffic Striping Paints</u>	3500 Series	Retain Certification of Compliance
<u>Bridge Structural Steel Paint</u>	3520	Visual Inspection - Check approved products list - retain Certificate of Compliance.
<u>Exterior Masonry Paint</u>	3584	
<u>Noise Wall Stain</u>	Special Provisions	
<u>Drop-on Glass Beads</u>	3592	Visual Inspection - Check qualified products list. Retain Certificate of Compliance.
<u>Pavement Marking Tape</u>	3354	Visual Inspection - Check qualified products list. Retain Certificate of Compliance.
	3355	
	Special Provisions	
<u>Signs and Markers</u>	3352	Visual Inspection - Check qualified products list.



## Approved/Qualified Products & Resources

### Approved/Qualified Products

- [Asphalt Products](#)
- [Bridge Products](#)
- [Concrete Products](#)
- [Crack and Joint Material Products](#)
- [Drainage](#)
- [Erosion Control and Landscaping Products](#)
- [Geosynthetic](#)
- [Maintenance Shop Supplies](#)
- [Paint/Stain/Coating Systems \(Non-Pavement\)](#)
- [Pavement Markings](#)
- [Precast Concrete](#)
- [Roadside Barriers](#)
- [Roadway Lighting Products](#)
- [Signals Products](#)
- [Signing Products](#)
- [Snow and Ice Chemical Products](#)
- [Temporary Traffic Control Devices](#)
- [Traffic Management Systems/ITS](#)
- [Truncated Domes](#)
- [Vehicle Safety Lighting](#)
- [Walls \(Retaining/Noise\)](#)

### Additional Resources

- [SALT Construction webpage](#)
- [Bituminous Engineering](#)
  - [Asphalt Binder Certified Supplier](#)
  - [Asphalt Emulsion Certified Supplier](#)
- [Concrete Engineering](#)
  - [MnDOT Concrete Manual](#)
  - [QC & QA RM Plant Workbooks](#)
  - [MnDOT Certified Ready-Mix Program](#)
- [Grading & Base Engineering](#)
  - Testing procedures in the [Grading & Base Manual](#)
  - Forms and worksheets at the [Grading & Base website](#)
  - Gradation worksheets on the [SALT Construction website](#)

## Sample Sizes

Lbs.

Bituminous	35	Aggregate for Gradation QC/QA
	80	for each plus #4 Aggregate Type for Quality Testing
	35	for each minus #4 Aggregate Type for Quality Testing
	80	for each RAP material for Quality Testing
	10	RAS (shingles) for Processed Gradation and Quality Testing
	65	for Mix Properties (QC/QA) 3 full 6" by 12"-cylinder molds for QA
	90	for TSR (QC/QA) 4 full 6" by 12"-cylinder molds for QA
	90	for Aggregate Specific Gravity QC/QA
	-	1 quart of Asphalt Binder QA
	-	1/2 gallon for Asphalt Emulsion QA
Grading & Base	30	Aggregate for Gradation (Companion sample from 60 lb. split).
	25	Moisture Density Test – Proctor (Companion from 50 lb. split).
	30	Aggregate Quality/Percent Crushing Test - 1 per source
Ready-Mix Concrete	25	Gradation 3/4" plus
	10	Gradation 3/4" minus
	6	Gradation CA 70 & #7
	1	Gradation - Sand (500 g), CA 80, #89.
	4.4	Moisture Test Coarse Aggregate (2000 g)
	1.1	Moisture Test Fine Aggregate (500 g)
	50	Quality 3/4" plus - lab sample
	30	Quality 3/4" minus - lab sample
	30	Fine Aggregate - lab sample
	10	3/4" Plus for the -200 Coarse Aggregate Test (5000 grams)
	6	3/4" Minus for the -200 Coarse Aggregate Test (2500 grams)
	5	Cement, Blended Cement, Fly Ash
	-	1/2-pint plastic container for admixtures.

**ATTACHMENT A  
PRIME CONTRACTOR RESPONSE**

**RESPONSIBLE CONTRACTOR VERIFICATION AND CERTIFICATION OF COMPLIANCE**

**STATE PROJECT NUMBER:** \_\_\_\_\_

**This form includes changes by statutory references from the Laws of Minnesota 2015, chapter 64, sections 1-9. This form must be submitted with the response to this solicitation. A response received without this form, will be rejected.**

Minn. Stat. § 16C.285, Subd. 7. **IMPLEMENTATION.** ... any prime contractor or subcontractor or motor carrier that does not meet the minimum criteria in subdivision 3 or fails to verify that it meets those criteria is not a responsible contractor and is not eligible to be awarded a construction contract for the project or to perform work on the project...

Minn. Stat. § 16C.285, Subd. 3. **RESPONSIBLE CONTRACTOR, MINIMUM CRITERIA.** "Responsible contractor" means a contractor that conforms to the responsibility requirements in the solicitation document for its portion of the work on the project and verifies that it meets the following minimum criteria:

(1)	<p>The Contractor:</p> <ul style="list-style-type: none"><li>(i) is in compliance with workers' compensation and unemployment insurance requirements;</li><li>(ii) is in compliance with Department of Revenue and Department of Employment and Economic Development registration requirements if it has employees;</li><li>(iii) has a valid federal tax identification number or a valid Social Security number if an individual; and</li><li>(iv) has filed a certificate of authority to transact business in Minnesota with the Secretary of State if a foreign corporation or cooperative.</li></ul>
(2)	<p>The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 177.24, 177.25, 177.41 to 177.44, 181.03, 181.101, 181.13, 181.14, or 181.722, and has not violated United States Code, title 29, sections 201 to 219, or United States Code, title 40, sections 3141 to 3148. For purposes of this clause, a violation occurs when a contractor or related entity:</p> <ul style="list-style-type: none"><li>(i) repeatedly fails to pay statutorily required wages or penalties on one or more separate projects for a total underpayment of \$25,000 or more within the three-year period, provided that a failure to pay is "repeated" only if it involves two or more separate and distinct occurrences of underpayment during the three-year period;</li><li>(ii) has been issued an order to comply by the commissioner of Labor and Industry that has become final;</li><li>(iii) has been issued at least two determination letters within the three-year period by the Department of Transportation finding an underpayment by the contractor or related entity to its own employees;</li><li>(iv) has been found by the commissioner of Labor and Industry to have repeatedly or willfully violated any of the sections referenced in this clause pursuant to section 177.27;</li><li>(v) has been issued a ruling or findings of underpayment by the administrator of the Wage and Hour Division of the United States Department of Labor that have become final or have been upheld by an administrative law judge or the Administrative Review Board; or</li><li>(vi) has been found liable for underpayment of wages or penalties or misrepresenting a construction worker as an independent contractor in an action brought in a court having jurisdiction. Provided that, if the contractor or related entity contests a determination of underpayment by the Department of Transportation in a contested case proceeding, a violation does not occur until the contested case proceeding has concluded with a determination that the contractor or related entity underpaid wages or penalties;*</li></ul>



(3)	The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 181.723 or chapter 326B. For purposes of this clause, a violation occurs when a contractor or related entity has been issued a final administrative or licensing order;*
(4)	The contractor or related entity has not, more than twice during the three-year period before submitting the verification, had a certificate of compliance under section 363A.36 revoked or suspended based on the provisions of section 363A.36, with the revocation or suspension becoming final because it was upheld by the Office of Administrative Hearings or was not appealed to the office;*
(5)	The contractor or related entity has not received a final determination assessing a monetary sanction from the Department of Administration or Transportation for failure to meet targeted group business, disadvantaged business enterprise, or veteran-owned business goals, due to a lack of good faith effort, more than once during the three-year period before submitting the verification;*
	* Any violations, suspensions, revocations, or sanctions, as defined in clauses (2) to (5), occurring prior to July 1, 2014, shall not be considered in determining whether a contractor or related entity meets the minimum criteria.
(6)	The contractor or related entity is not currently suspended or debarred by the federal government or the state of Minnesota or any of its departments, commissions, agencies, or political subdivisions that have authority to debar a contractor; and
(7)	All subcontractors and motor carriers that the contractor intends to use to perform project work have verified to the contractor through a signed statement under oath by an owner or officer that they meet the minimum criteria listed in clauses (1) to (6).

Minn. Stat. § 16C.285, Subd. 5. **SUBCONTRACTOR VERIFICATION.**

A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Prior to execution of a construction contract, and as a condition precedent to the execution of a construction contract, the apparent successful prime contractor shall submit to the contracting authority a supplemental verification under oath confirming compliance with subdivision 3, clause (7). Each contractor or subcontractor shall obtain from all subcontractors with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each subcontractor.

If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors.

A prime contractor shall submit to the contracting authority upon request copies of the signed verifications of compliance from all subcontractors of any tier pursuant to subdivision 3, clause (7). A prime contractor and subcontractors shall not be responsible for the false statements of any subcontractor with which they do not have a direct contractual relationship. A prime contractor and subcontractors shall be responsible for false statements by their first-tier subcontractors with which they have a direct contractual relationship only if they accept the verification of compliance with actual knowledge that it contains a false statement.

**Subd. 5a. Motor carrier verification.** A prime contractor or subcontractor shall obtain annually from all motor carriers with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each motor carrier. A prime contractor or subcontractor shall require each such motor carrier to provide it with immediate written notification in the event that the motor carrier no longer meets one or more of the minimum criteria in subdivision 3 after submitting its annual verification. A motor carrier shall be ineligible to perform work on a project covered by this section if it does not meet all the minimum criteria in subdivision 3. Upon request, a prime contractor or subcontractor shall submit to the contracting authority the signed verifications of compliance from all motor carriers providing for-hire transportation of materials, equipment, or supplies for a project.

Minn. Stat. § 16C.285, Subd. 4. **VERIFICATION OF COMPLIANCE.**

A contractor responding to a solicitation document of a contracting authority shall submit to the contracting authority a signed statement under oath by an owner or officer verifying compliance with each of the minimum criteria in subdivision 3, with the exception of clause (7), at the time that it responds to the solicitation document.

A contracting authority may accept a signed statement under oath as sufficient to demonstrate that a contractor is a responsible contractor and shall not be held liable for awarding a contract in reasonable reliance on that statement. A prime contractor, subcontractor, or motor carrier that fails to verify compliance with any one of the required minimum criteria or makes a false statement under oath in a verification of compliance shall be ineligible to be awarded a construction contract on the project for which the verification was submitted.

A false statement under oath verifying compliance with any of the minimum criteria may result in termination of a construction contract that has already been awarded to a prime contractor or subcontractor or motor carrier that submits a false statement. A contracting authority shall not be liable for declining to award a contract or terminating a contract based on a reasonable determination that the contractor failed to verify compliance with the minimum criteria or falsely stated that it meets the minimum criteria. A verification of compliance need not be notarized. An electronic verification of compliance made and submitted as part of an electronic bid shall be an acceptable verification of compliance under this section provided that it contains an electronic signature as defined in section 325L.02, paragraph (h).

**CERTIFICATION**

**By signing this document I certify that I am an owner or officer of the company, and I certify under oath that:**

- 1) My company meets each of the Minimum Criteria to be a responsible contractor as defined herein and is in compliance with Minn. Stat. § 16C.285, and**
- 2) if my company is awarded a contract, I will submit Attachment A-1 prior to contract execution, and**
- 3) if my company is awarded a contract, I will also submit Attachment A-2 as required.**

**Authorized Signature of Owner or Officer:**

**Printed Name:**

**Title:**

**Date:**

**Company Name:**

NOTE: Minn. Stat. § 16C.285, Subd. 2, (c) If only one prime contractor responds to a solicitation document, a contracting authority may award a construction contract to the responding prime contractor even if the minimum criteria in subdivision 3 are not met.

**ATTACHMENT A-1**

**FIRST-TIER SUBCONTRACTORS LIST**

**SUBMIT PRIOR TO EXECUTION OF A CONSTRUCTION CONTRACT**

**STATE PROJECT NUMBER:** \_\_\_\_\_

Minn. Stat. § 16C.285, Subd. 5. A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Prior to execution of a construction contract, and as a condition precedent to the execution of a construction contract, the apparent successful prime contractor shall submit to the contracting authority a supplemental verification under oath confirming compliance with subdivision 3, clause (7). Each contractor or subcontractor shall obtain from all subcontractors with which it will have a direct contractual relationship a signed statement under oath by an owner or officer verifying that they meet all of the minimum criteria in subdivision 3 prior to execution of a construction contract with each subcontractor.

<b>FIRST TIER SUBCONTRACTOR NAMES*</b> <b>(Legal name of company as registered with the Secretary of State)</b>	<b>Name of city where company home office is located</b>

\*Attach additional sheets as needed for submission of all first-tier subcontractors.

**SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-1**

**By signing this document I certify that I am an owner or officer of the company, and I certify under oath that:**

**All first-tier subcontractors listed on attachment A-1 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.**

**Authorized Signature of Owner or Officer:**

**Printed Name:**

**Title:**

**Date:**

**Company Name:**

**ATTACHMENT A-2**

**ADDITIONAL SUBCONTRACTORS LIST**

**PRIME CONTRACTOR TO SUBMIT AS SUBCONTRACTORS ARE ADDED TO THE PROJECT**

**STATE PROJECT NUMBER:** \_\_\_\_\_

This form must be submitted to the Project Manager or individual as identified in the solicitation document.

Minn. Stat. § 16C.285, Subd. 5. ... If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors. ...

<b>ADDITIONAL SUBCONTRACTOR NAMES*</b> <b>(Legal name of company as registered with the Secretary of State)</b>	<b>Name of city where company home office is located</b>

\*Attach additional sheets as needed for submission of all additional subcontractors.

<b>SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-2</b>	
<b>By signing this document I certify that I am an owner or officer of the company, and I certify under oath that:</b> <b>All additional subcontractors listed on Attachment A-2 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.</b>	
<b>Authorized Signature of Owner or Officer:</b>	<b>Printed Name:</b>
<b>Title:</b>	<b>Date:</b>
<b>Company Name:</b>	



## STATE OF MINNESOTA - RESPONSIBLE CONTRACTOR CERTIFICATE

Applies to all prime contracts in excess of \$50,000

A responsible contractor is defined in Minnesota Statutes §16C.285, subdivision 3.

Any prime contractor or subcontractor who does not meet the minimum criteria under Minnesota Statutes §16C.285, subdivision 3, or who fails to verify that it meets those criteria, is not a responsible contractor and is not eligible to be awarded a construction contract for the project or to perform work on the project.

A false statement under oath verifying compliance with any of the minimum criteria shall render the prime contractor or subcontractor that makes the false statement ineligible to be awarded a construction contract for the project and may result in termination of a contract awarded to a prime contractor or subcontractor that makes a false statement.

A prime contractor shall submit to the contracting authority upon request copies of the signed verifications of compliance from all subcontractors of any tier pursuant to subdivision 3, clause 7.

By signing this statement, I, \_\_\_\_\_ (typed or printed name),

\_\_\_\_\_ (title) certify that I am an owner or officer of the company and do verify under oath that my company is in compliance with each of the minimum criteria listed in the law.

\_\_\_\_\_  
(name of the person, partnership or corporation submitting this proposal)

\_\_\_\_\_  
(business address)

Signed: \_\_\_\_\_  
(bidder or authorized representative)

\_\_\_\_\_  
Date

**POLK COUNTY**  
**DEPARTMENT OF HIGHWAYS**

"I hereby certify that I am in compliance with Minnesota Statutes Section 363 as amended by Laws of 1969, and (check one of the four below, as applicable):

- (        ) Have a Certificate of Compliance issued by the Department of Human Rights.  
(        ) Have applied for a Certificate of Compliance to the Commissioner of Human Rights, which is pending.  
(        ) Employ less than 40 full time employees on a single working day during the previous 12 months.  
(        ) I am not entering into a contract for good and services (including construction contracts) in excess of \$100,000.

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

\_\_\_\_\_  
Position

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Date

This form may be used to furnish proof of necessary compliance with Minnesota Statutes, Section 363, implementing the Rules and Regulations of the Minnesota Department of Human Rights. All questions should be referred to the Minnesota Department of Human Rights, Room 60, State Office Building, St. Paul, Minnesota. Telephone 612-296-5682.

**NON-COLLUSION DECLARATION**

The following Non-Collusion Declaration shall be executed by the bidder:

State Project No. SAP 060-613-007, SAP 060-621-016, SAP 060-666-013, & SAP 045-621-005

Federal Project No. \_\_\_\_\_

**STATE OF MINNESOTA** )  
 ) ss  
COUNTY OF \_\_\_\_\_ )

I, \_\_\_\_\_, do state under penalty of perjury under 28 U.S.C. 1746  
(Name of person signing this declaration)

of the laws of the United States:

- (1) that I am the authorized representative of \_\_\_\_\_  
(Name of individual, partnership or corporation  
submitting this Proposal) and that I have the authority to make this declaration for and on behalf of  
said bidder;
- (2) that, in connection with this Proposal, the said bidder has not either directly or indirectly entered into any  
agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding;
- (3) that, to the best of my knowledge and belief, the contents of this Proposal have not been communicated by the  
bidder or by any of his employees or agents to any person who is not an employee or agent of the bidder or of the surety  
on any bond furnished with the Proposal, and will not be communicated to any person who is not an employee or agent of  
the bidder or of the said surety prior to the official opening of the proposal, and
- (4) that, I have fully informed myself regarding the accuracy of the statements made in this declaration.

Signed: \_\_\_\_\_  
Bidder or his authorized representative

Subscribed and sworn to before me

this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Notary Public

My commission expires \_\_\_\_\_, 20 \_\_\_\_\_

Note: The above declaration, signed and sworn by the bidder before a person who is authorized by the laws of this State to administer oaths, must be included in the Bidder's Proposal.

**NOTICE TO CONTRACTORS**

It is no longer required that you sign Partial Estimate Payment Vouchers. At your discretion, you may authorize the Polk County Highway Department to make payment without your signature. Included below is a form that may be used to provide us with the authorization. If desired, please sign this form and return it with the Contract documents. A copy of this form will be distributed to the Project Engineer. You will receive your copy of the Voucher at the same time a Voucher is submitted for payment.

**PARTIAL PAYMENT VOUCHER AUTHORIZATION**

State Aid Project No. SAP 060-613-007, SAP 060-621-016,  
SAP 060-666-013, & SAP 045-621-005 Contract No. \_\_\_\_\_

\_\_\_\_\_ hereby authorizes the  
Polk County Highway Department to make payment on all Partial Estimate Vouchers on this contract  
without the signature of an authorized representative of our Company on the Voucher.

Date \_\_\_\_\_

Signed \_\_\_\_\_  
(Contractor)



**Schedule of Prices**

No.	Mat No.	Item	Units	Quantity	Unit Price	Total Price
	SAP 060-613-007					
1	2221.509	SHOULDER BASE AGGREGATE CLASS 1	TON	8800		
2	2232.504	MILL BITUMINOUS SURFACE (1.5")	S Y	700		
3	2232.603	MILLED RUMBLE STRIPS	LIN FT	88000		
4	2360.509	TYPE SP 9.5 BITUMINOUS MIXTURE FOR PAVER LEVELING (2,B)	TON	7000		
5	2360.509	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	11200		
6	2563.601	TRAFFIC CONTROL	LUMP SUM	1		
7	2580.503	INTERIM PAVEMENT MARKING	LIN FT	7600		
8	2582.503	4" SOLID LINE PAINT	L F	1500		
9	2582.503	6" SOLID LINE PAINT	L F	94000		
10	2582.503	4" BROKEN LINE PAINT	L F	9500		
					Total SAP 060-613-007	
	SAP 060-621-016					
1	2221.509	SHOULDER BASE AGGREGATE CLASS 1	TON	8800		
2	2232.504	MILL BITUMINOUS SURFACE (1.5")	S Y	500		
3	2232.603	MILLED RUMBLE STRIPS	LIN FT	80000		
4	2360.509	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	11600		
5	2360.509/001	TYPE SP 9.5 BITUMINOUS MIXTURE FOR TIGHT BLADE LEVELING (2,B)	TON	4100		
6	2563.601	TRAFFIC CONTROL	LUMP SUM	1		
7	2580.503	INTERIM PAVEMENT MARKING	LIN FT	6900		

8	2582.503	4" SOLID LINE PAINT GR IN (WR)	L F	1000		
9	2582.503	6" SOLID LINE PAINT GR IN (WR)	L F	85000		
10	2582.503	4" BROKEN LINE PAINT GR IN (WR)	L F	8600		
					Total SAP 060-621-016	
	SAP 060-666-013					
1	2221.509	SHOULDER BASE AGGREGATE CLASS 1	TON	10200	\$	\$
2	2232.504	MILL BITUMINOUS SURFACE (1.5")	S Y	7000		
3	2232.506	MILLED RUMBLE STRIPS	LIN FT	99600		
4	2360.509	TYPE SP 9.5 WEARING COURSE MIX FOR PAVER LEVELING (2,B)	TON	7800		
5	2360.509	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	13200		
6	2563.601	TRAFFIC CONTROL	LUMP SUM	0.87		
7	2580.503	INTERIM PAVEMENT MARKING	LIN FT	8800		
8	2582.503	4" SOLID LINE PAINT	L F	2250		
9	2582.503	6" SOLID LINE PAINT	L F	109300		
10	2582.503	4" BROKEN LINE PAINT	L F	11100		
					Total SAP 060-666-013	
	SAP 045-621-005					
1	2221.509	SHOULDER BASE AGGREGATE CLASS 1	TON	1500		
2	2232.504	MILL BITUMINOUS SURFACE (1.5")	S Y	4800		
3	2232.506	MILLED RUMBLE STRIPS	LIN FT	14500		
4	2360.509	TYPE SP 9.5 WEARING COURSE MIX FOR PAVER LEVELING (2,B)	TON	1000		
5	2360.509	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	1900		

6	2563.601	TRAFFIC CONTROL	LUMP SUM	0.13		
7	2580.503	INTERIM PAVEMENT MARKING	LIN FT	650		
8	2582.503	4" SOLID LINE PAINT	L F	1000		
9	2582.503	6" SOLID LINE PAINT	L F	15600		
10	2582.503	4" BROKEN LINE PAINT	L F	1600		
					Total SAP 045-621-005	

GRAND TOTAL BID \$\_\_\_\_\_

**TOTALS**

SAP 060-613-007: Total	\$	_____
SAP 060-621-016: Total	\$	_____
SAP 060-666-013: Total	\$	_____
SAP 045-621-005: Total	\$	_____
Grand: Total	\$	_____

RECEIPT OF ADDENDA as required by 1210 of the Specification:

The undersigned hereby acknowledges receipt of:

Addendum No. _____	Dated _____	Addendum No. _____	Dated _____
Addendum No. _____	Dated _____	Addendum No. _____	Dated _____
		Signed _____	

Enclosed herewith find (certified check) (bidder's bond) in the amount of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) being at least 5% of the amount of the Proposal, made payable to the County Treasurer of said County as a Proposal guarantee which it is agreed by the undersigned will be forfeited in the event the Form of Contract and Bond is not executed, if awarded to the undersigned.

EXECUTION OF PROPOSAL as required by 1206 of the Specifications:

This Proposal dated the \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signed: \_\_\_\_\_, PO Address \_\_\_\_\_ as an individual.

Signed: \_\_\_\_\_, PO Address \_\_\_\_\_ as an individual.

doing business under the name and style of

Signed: \_\_\_\_\_, for \_\_\_\_\_ a partnership

NAME

BUSINESS ADDRESS

_____	_____
_____	_____
_____	_____

Signed: \_\_\_\_\_ s/s, for \_\_\_\_\_ a corporation,  
incorporated under the laws of the State of \_\_\_\_\_

Name of President \_\_\_\_\_ Business Address \_\_\_\_\_

Name of Vice-President \_\_\_\_\_ Business Address \_\_\_\_\_

Name of Secretary \_\_\_\_\_ Business Address \_\_\_\_\_

Name of Treasurer \_\_\_\_\_ Business Address \_\_\_\_\_

(NOTE: Signatures shall comply with 1206 of the Specifications.)