RENVILLE COUNTY 105 South 5TH Street, Room 319 Olivia, MN 56277

FOR HIGHWAY CONSTRUCTION AND MAINTENANCE PROJECTS WITH BIDS RECEIVED UNTIL 2:00 O'CLOCK P.M. ON May 12, 2025

PROPOSAL OF

(NAME OF FIRM)

(ADDRESS)

(AREA CODE) TELEPHONE NUMBER

TO FURNISH AND DELIVER ALL MATERIALS AND TO PERFORM ALL WORK IN ACCORDANCE WITH THE CONTRACT, THE PLANS AND THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", EXCEPT AS STATED OTHERWISE IN THE SPECIAL PROVISIONS WHICH ARE PART OF THIS PROPOSAL, FOR

STATE PROJECT NUMBER: 065-601-017

LOCATION: On CSAH 1, From 500' South of CSAH 4, 8 Miles South of Danube, Mn. to US HIGHWAY 212

TYPE OF WORK: Mill Bituminous Pavement, Bituminous Resurfacing, Aggregate Shoulder, and Pavement Markings.

STARTING DATE: 8 days after Notice of Contract Approval

COMPLETION DATE: September 12, 2025

NOTICE TO BIDDERS: Submit bid and bid documentation electronically through bidVAULT. Acknowledge addenda on Form 21126D0.

I certify that this Proposal was prepared by me or under my direct supervision, and that I am a licensed professional engineer under the laws of the State of Minnesota.

Jeffrey S. Marlowe, P.E. License Number 50817 Date: 04/14/2025

BID RIGGING IS A SERIOUS CRIME. IF YOU HAVE ANY INFORMATION CONCERNING COLLUSIVE BIDDING, EVEN A REQUEST TO SUBMIT A COMPLIMENTARY BID, PLEASE CALL THE MINNESOTA ATTORNEY GENERAL'S OFFICE AT TELE. NO. 651-296-179

- INFORMATION FOR BIDDERS -

- The Bid Documents that must be submitted electronically through bidVAULT as part of the bid are the Title Sheet, Form 21126D, Responsible Contractor Certification, Non-Collusion Declaration, and Human Rights Certificate. The required Bid Bond is also available for electronic submittal through bidVAULT by attaching a PDF to bidVAULT or by using Surety2000 or InSure Vision SurePath. If you do not attach a PDF or use Surety 2000 or InSure Vision SurePath, your paper bid bond must be received in (or a copy emailed to) the Public Works office prior to the bid opening time and date. If emailed, it must be emailed to PWBid@renvillecountymn.com
- 2. A Bid is a considered complete when the items listed above are properly completed and submitted. By completing Form 21126D the bidder acknowledges that all requirements included in the hard copy proposal, addenda, amendments, plans, standard specifications, and supplemental specifications are part of this bid and contract.
- 3. Each Bidder by making a Bid represents that they have read and understand the Proposal and the Bid is made in accordance therewith and is in substantial compliance with the Proposal.
- 4. Bidders shall promptly notify the Public Works Department of any ambiguity, inconsistency or error which they may discover upon examination of the Proposal and/or bidVAULT requiring clarification or interpretation.
- 5. All Bids shall be submitted electronically through bidVAULT and shall be identified with the appropriate Bid name indicated on the Title Sheet with the Bidder's name and address.
- 6. All Bids must be accompanied by a certified check or Bidder's bond in the amount of five percent (5%) of the amount of the Bid, made payable to Renville County, pledging that the Bidder will faithfully execute the terms of the Bid.
- 7. No Bid may be withdrawn within thirty (30) days after the scheduled closing time for receipt of Bids without consent of owner.
- 8. Minnesota Statues, Chapter 363, Human Rights shall be complied with by completing the attached Human Rights Certificate.
- 9. The Owner reserves the right to reject any or all Bids and to waive any informality or irregularity in any Bid received.
- 10. It is the intent of the Owner to accept the lowest responsible Bid provided it has been submitted in accordance with the Proposal and Bidding Documents, is judged to be reasonable and does not exceed the funds available.

Electronic Bid Information - Also refer to the Guide in bidVAULT

Official Time and Date- The official time and date is the time and date displayed in bidVAULT. Your electronic bid is not officially signed until you have approved it by clicking on the "Approve" button and receive the "Success: You have approved your bid" message.

Other Required Bid Documents for Electronic Bidding -"Bid Documentation" are those documents other than the electronically submitted bid form, such as the Title Sheet of Proposal, Responsible Contractor Certification, Form 21126D, Non collusion, Human Rights Certificate, and (CM 32-34 if federal project). The project Bid Documentation must be completed with signature and submitted through bidVAULT. The Bid Documents should be completed early in the process.

A bidder may submit a bid bond electronically if you use Surety2000 or InSure Vision SurePath. If you do not use Surety 2000 or InSure Vision SurePath a PDF copy of your bond can be up loaded to bidVAULT or emailed to our office, your paper bid bond must be received in (or a copy emailed to) the Public Works office prior to the bid opening time and date. If emailed, it must be emailed to PWBid@renvillecountymn.com. If you do not use Surety 2000 or InSure Vision SurePath, your original bid security (bid bond or certified check) with original signatures must be submitted to the Public Works office within five (5) days after bid opening.

Electronic Bid Withdrawal - To rescind an electronic bid, click "Withdraw Bid Button" in bidVAULT under "My Bids" section. If you wish to withdraw your electronic bid, it must be withdrawn prior to the bid opening time and date.

Bid results will be posted on the Renville County Public Works OneOffice site soon after the bid opening time.

Addenda Require That You Re-Approve Your Bid - If any addenda are issued for this project, your electronic bid must be re-approved by clicking on the "Approve" button and receiving the "Success: You have approved your bid" message. You must also agree that you have viewed and read the addenda.

Your Electronic bid is signed with a PIN number you receive from ConneX. If your PIN number does not work and you cannot sign your bid please go to ConneX and click on the "Re-issue Pin option". If you still have problems, please call 1-320-201-7680 RtVision or email support@rtvision.com

To Renville County Board of Commissioners:

According to the advertisement of Renville County inviting proposals for the improvement of the section of highway hereinbefore named, and in conformity with the Contract, Plans, Specifications and Special Provisions pertaining thereto, all on file in the office of the Auditor of Renville County:

(I)(We) hereby certify that (I am)(we are) the only person(s) interested in this proposal as principal(s); that this proposal is made and submitted without fraud or collusion with any other person, firm or corporation at all; that an examination has been made of the site of the work and the Contract form, with the Plans, Specifications and Special Provisions for the improvement.

(I)(We) understand that the quantities of work shown herein are approximate only and are subject to increase or decrease; that all quantities of work, whether increased or decreased within the limits specified in MnDOT 1903 and 1402, are to be done at the unit prices shown on the attached schedule; that, at the time of opening bids, totals only will be read, but that comparison of bids will be based on the correct summation of item totals obtained from the unit prices bid, as provided in MnDOT 1301.

(I)(We) propose to furnish all necessary machinery, equipment, tools, labor and other means of construction and to furnish all materials specified, in the manner and at the time prescribed, all according to the terms of the Contract and Plans, Specifications, and the Special Provisions forming a part of this.

(I)(We) further propose to do all Extra Work that may be required to complete the contemplated improvement, at unit prices or lump sums to be agreed upon in writing before starting such work, or if such prices or sums cannot be agreed upon, to do such work on a Force Account basis, as provided in MnDOT 1904.

(I)(We) further propose to execute the form of Contract within 10 days after receiving written notice of award, as provided in MnDOT 1306.

(I)(We) further propose to furnish a Payment Bond and a Performance Bond each equal to the Contract Amount as required by MN Statute § 574.26, as security for the construction and completion of the improvement according to the Plans, Specifications and Special Provisions as provided in MnDOT 1305.

(I)(We) further propose to do all work according to the Plans, Specifications and Special Provisions, and to renew or repair any work that may be rejected due to defective materials or workmanship, before completion and acceptance of the Project by Renville County.

(I)(We) agree to all provisions of Minnesota Statutes, Section 181.59.

(I)(We) further propose to begin work and to prosecute and complete the same according to the time schedule set forth in the Special Provisions for the improvement.

(I)(We) assign to Renville County all claims for overcharges as to goods and materials purchased in connection with this Project resulting from antitrust violations that arise under the antitrust laws of the United States and the antitrust laws of the State of Minnesota. This clause also applies to subcontractors and first tier suppliers under this Contract.

NOTICE TO ALL BIDDERS

To report bid rigging activities call:

1-800-424-9071

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

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

NOTICE TO BIDDERS

This federally funded project is being administered by a city/county agency. As such the Department of Transportation Debarments located at:

<u>http://www.dot.state.mn.us/pre-letting/prov/order/suspension.pdf</u> apply to this project.

Since the project is financed in whole or in part with federal funds, refer to the following website for vendors debarred by federal government agencies: <u>https://www.epls.gov/</u>.

The Department of Administration Debarment list does NOT apply to this project.

MINNESOTA DEPARTMENT OF TRANSPORTATION NOTICE TO BIDDERS: SUSPENSIONS/DEBARMENTS THIS NOTICE APPLIES TO STATE-FUNDED AND FEDERALY-FUNDED PROJECTS

Do not use suspended or debarred parties as subcontractors or material suppliers on this project!

Both the federal government and the State of Minnesota suspend and debar vendors. Review the list of suspended and debarred vendors before submitting a bid or a request to sublet. If your bid is based on using a suspended or debarred vendor, you will not be entitled to additional compensation for replacing the suspended or debarred vendor with a qualified vendor.

State Suspensions and Debarments

The State of Minnesota's list of suspended and debarred vendors is maintained by the Minnesota Department of Administration, Office of State Procurement, and can be found at this link: https://mn.gov/admin/osp/government/suspended-debarred/index2.jsp . This list includes parties suspended and debarred by the Minnesota Department of Transportation and the Minnesota Department of Administration.

Federal Suspensions and Debarments

The federal government maintains a searchable database of suspensions and debarments, called the System for Award Management (SAM), which is found at this link: <u>https://www.sam.gov/SAM/</u>. You can use the "Search Records" function without registering for an account.

September 29, 2023



SPECIAL PROVISIONS FOR SAP 065-601-017

RENVILLE COUNTY

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STATE FUNDED ONLY CONSTRUCTION CONTRACTS SPECIAL PROVISIONS DIVISION A - LABOR

I. INTRODUCTION

- A. <u>Policy Statement</u>. It is in the public interest that public buildings and other public works projects be constructed and maintained by the best means and the highest quality of labor reasonably available and that persons working on public works projects be compensated according to the real value of the services they perform.¹
- B. <u>State Regulations Govern</u>. This Contract is subject to the Minnesota Prevailing Wage Act², Minnesota Fair Labor Standards Act³, Minnesota Rules⁴, Minnesota Department of Labor and Industry (MnDLI) Wage Decision(s), and the MnDLI Truck Rental Rate Schedule.
- C. <u>Purpose</u>. These provisions: (1) outline your obligations under state and federal laws, rules and regulations; (2) explain the requirements necessary to demonstrate compliance; and (3) explain the processes that the Department will undertake to ensure compliance.
- D. <u>Questions or Resources</u>. Please visit the Minnesota Department of Transportation (MnDOT) Labor Compliance Unit (LCU) website at: www.dot.state.mn.us/const/labor.

II. DEFINITIONS

Many of the terms used in these provisions are defined in MnDOT's Standard Specifications for Construction,⁵ unless defined below.

- A. <u>Apprentice</u>. A Worker at least 16 years of age who is employed to learn an apprenticeable trade or occupation in a registered apprenticeship program.⁶
- B. **Bona Fide.** Made or carried out in good faith; authentic.⁷
- C. <u>Certified Payroll Report (CPR)</u>. A report comprised of two components; (1) a payroll report, and (2) a statement of compliance report.⁸
- D. <u>Contractor</u>. An individual or business entity that is engaged in construction or construction servicerelated activities including trucking activities either directly or indirectly through a Contract, or by Subcontract with the Prime Contractor, or by a further Subcontract with any other person or business entity performing Work.⁹
- E. <u>Employer</u>. An individual, partnership, association, corporation, business trust, or other business entity that hires a Worker.¹⁰
- F. Fringe Benefit. An employment benefit given in addition to a Worker's wages or salary.¹¹
- G. <u>Independent Truck Owner/Operator (ITO)</u>. An individual, partnership, or principal stockholder of a corporation who owns or holds a vehicle under lease and who contracts that vehicle and the owner's services to an entity which provides construction services to a public works project.¹²

³ Minn. Stat. 177.21 to 177.35

¹ Minn. Stat. 177.41

² Minn. Stat. 177.41 to 177.44

⁴ Minn. R. 5200.1000 to 5200.1120

⁵ MnDOT Standard Specifications for Construction, Section 1103

⁶ Minn. Stat. 178.011, Subdivision 2

⁷ The American Heritage College Dictionary, Third Edition, 2000

⁸ Minn. R. 5200.1106, Subpart 10

⁹ Minn. R. 5200.1106, Subpart 2(D)

¹⁰ Minn. Stat. 177.42, Subdivision 7

¹¹ The American Heritage College Dictionary, Third Edition, 2000 ¹² Minn. R. 5200.1106, Subpart 7(A)

- H. Journeyworker. A person who has attained a level of skill, abilities, and competencies recognized within and industry as having mastered the skills and competencies required for the trade or occupation.13
- I. Prime Contractor. An individual or business entity that enters into a Contract with the Department.14
- J. **Subcontract.** A Contract that assigns some obligations of a prior Contract to another party.¹⁵
- K. Substantially In Place. Mineral aggregate is deposited on the project site directly or through spreaders where it can be spread from or compacted at the location where it was deposited.¹⁶
- L. Total Prevailing Wage Rate. The sum of the prevailing hourly "basic" and "fringe" rate that is established in a Wage Decision.
- M. Trucking Broker (Broker). An individual or business entity, the activities of which include, but are not limited to: contracting to provide trucking services in the construction industry to users of such services, contracting to obtain such services from providers of trucking services, dispatching the providers of the services to do Work as required by the users of the services, receiving payment from the users in consideration of the trucking services provided, and making payment to the providers for the services.¹⁷
- N. Trucking Firm/Multiple Truck Owner (MTO). Any legal business entity that owns more than one vehicle and hires the vehicles out for services to Trucking Brokers or Contractors on public works projects.¹⁸
- O. Truck Rental Rate Schedule. A document prepared by the MnDLI through a Contractor survey process that identifies the required hourly Total Prevailing Wage Rate and operating cost for various types of trucks that perform hauling activities (Work) under a Contract that is funded in whole or in part with state funds.¹⁹
- P. Wage Decision. A document prepared by the MnDLI through a Contractor survey process that identifies the required hourly basic rate of pay and hourly Fringe Benefits for various labor classifications that perform Work under a Contract that is funded in whole or in part with state funds.20
- Q. Work (Work). All construction activities associated with a public works project, including any required hauling activities on-the-site-of or to-or-from a public works project and conducted pursuant to a Contract, regardless of whether the construction activity or Work is performed by the Prime Contractor, subcontractor, Trucking Broker, Trucking Firm (MTO), ITO, independent contractor, or employee or agent of any of the foregoing entities.²¹
- R. Worker (Laborer or Mechanic). A Worker in a construction industry labor class identified in or pursuant to Minnesota Rules 5200.1100, Master Job Classifications.²²

III. **APPLICATION & UNDERSTANDING**

A. Provisions & Prevailing Wage Rates Apply. These provisions, along with the prevailing Wage Decision(s) that are incorporated into the Contract, apply to all Contractors contracting to do all or part of the Work.23

¹³ Minn. Stat. 178.011, Subdivision 9

¹⁴ Minn. R. 5200.1106, Subpart 2(C)

¹⁵ The American Heritage College Dictionary, Third Edition, 2000

¹⁶ Minn. R. 5200.1106, Subpart 5(C)

¹⁷ Minn. R. 5200.1106, Subpart 7(C) ¹⁸ Minn. R. 5200.1106, Subpart 7(B)

¹⁹ Minn. R. 5200.1105

²⁰ Minn. R. 5200.1020 to 5200.1060 ²¹ Minn. R. 5200.1106, Subpart 2(A)

²² Minn. R. 5200.1106, Subpart 5(A)

²³ Minn. Stat. 177.44, Subdivision 1

- B. <u>**Truck Rental Rates Apply.**</u> The Truck Rental Rate Schedule incorporated into the Contract applies to all hired trucking entities that perform covered hauling activities related to the project.²⁴
- C. <u>Prevailing Wage Terms Must Be Included in All Contracts</u>. The Prime Contractor is required to ensure that all subcontractors performing Work receive the Contract Wage Decision(s), Truck Rental Rate Schedule, and a copy of these provisions with their written Subcontracts, agreements and/or purchase orders.²⁵
- D. <u>Responsible for Understanding All Requirements</u>. Each Contractor is responsible for understanding all laws, rules, regulations, plans, and specifications that are incorporated physically, or by reference, into the Contract.²⁶
- E. <u>E-Verify</u>. For services valued in excess of \$50,000, the Contractor certifies that as of the date of services performed on behalf of State, the Contractor will have implemented or be in the process of implementing the federal E-Verify program for all newly hired employees in the United States who will perform work under the contract. The Prime Contractor is responsible to collect all subcontractor certifications and may do so utilizing the E-Verify Subcontractor Certification Form available at http://www.mmd.admin.state.mn.us/doc/EverifySubCertForm.doc. All subcontractor certifications must be kept on file with the Prime Contractor and made available to the State upon request.

IV. VENDOR REGISTRATION

<u>Vendor Registration Required</u>. A Contractor that performs Work, supplies material, or product must be registered with MnDOT. The Contractor must complete and submit a vendor form²⁷ to the MnDOT LCU^{28} , along with all applicable documentation that is required. This registration process is separate and distinct from other state agency requirements.

V. LABOR CLASSIFICATIONS

- A. <u>Labor Classification Assignment</u>. A Worker must be paid at least the Total Prevailing Wage Rate in the same or most similar trade or occupation.²⁹ To determine the appropriate labor classification for a Worker, a Contractor must refer to the Wage Decision(s) incorporated into the Contract, the labor classification descriptions for laborers and special crafts established in Minnesota Rules or the United States Department of Labor's Dictionary of Occupational Titles.³⁰
- B. <u>Labor Classification Clarification & Disputes</u>. A Contractor needing assistance in determining a labor classification must submit a Classification Clarification Request³¹ to the MnDOT LCU for a written decision. If the Contractor chooses to contest the classification assignment, it must provide written notice to the MnDOT LCU. The MnDOT LCU will forward the matter to the MnDLI for a final ruling.
- C. <u>Performing Work in Multiple Labor Classifications</u>. For Workers performing Work in multiple labor classifications, the Contractor must compensate at a minimum the Total Prevailing Wage Rate, and report the hours worked, in each applicable labor classification.³²

VI. WAGE DECISION(S) & WAGE RATE(S)

A. <u>Applicability of a Highway and Heavy Wage Decision</u>. A highway and heavy Wage Decision applies to a Worker that is engaged in a construction activity or performing Work to construct or maintain a highway or other public works project, such as a road, street, airport runway, bridge,

²⁴ Minn. Stat. 177.44, Subdivision 3

²⁵ MnDOT Standard Specifications for Construction, Section 1801

²⁶ MnDOT Standard Specifications for Construction, Section 1701

²⁷ www.dot.state.mn.us/const/labor/documents/forms/contractorform2016.pdfor www.dot.state.mn.us/const/labor/documents/forms/truckvendorform2016.pdf

 $^{^{28}}$ lcusupport.dot@state.mn.us

²⁹ Minn. Stat. 177.44, Subdivision 1

³⁰ Minn. R. 5200.1101 and 1102 and USDOL Dictionary of Occupational Titles

³¹ http://www.dot.state.mn.us/const/labor/documents/forms/classification-clarification-request.pdf

³² Minn. Stat. 177.44, Subdivision 1

power plant, dam or utility³³ that is external to a sheltered enclosure (structure). This includes, but is not limited to, the following Work: site clearing; grading; excavating backfilling; paving; curbs; gutters; sidewalks; culverts; bridges; lighting systems; traffic management systems; installing of utilities out from an exterior meter; fuel islands; communication towers; or other activities similar to highway and/or heavy Work.

B. <u>Applicability of a Commercial Wage Decision</u>. A commercial Wage Decision applies to a Worker that is engaged in a construction activity or performing Work to construct a sheltered enclosure (structure) with walk-in access for the purpose of housing persons, machinery, equipment or supplies.³⁴ This includes, but is not limited to, the following Work: constructing foundations, aprons, stoops; framing walls; installing windows, doors, tiling, plumbing, electrical, HVAC systems; roofing; installing utilities into the building from an exterior meter.

C. Pay According to Wage Decision(s).

- 1. <u>Contract with One Wage Decision</u>. If the Contract contains one Wage Decision, the Contractor must examine the Wage Decision and compensate the Worker at a minimum the Total Prevailing Wage Rate for the appropriate labor classification(s).
- 2. <u>Contract with Multiple Highway/Heavy Wage Decisions</u>. If the Contract contains multiple Highway/Heavy Wage Decisions, the Contractor must examine each Wage Decision and compensate the Worker, at a minimum, the Total Prevailing Wage Rate that is the greatest³⁵ for the appropriate labor classification(s).
- 3. <u>Contract with Highway/Heavy and Commercial Wage Decision(s)</u>. If the Contract contains a Highway/Heavy and Commercial Wage Decision(s), the Contractor must first determine which Wage Decision is applicable to the Worker. The Contractor must then compensate the Worker, at a minimum, the Total Prevailing Wage Rate for the appropriate labor classification(s).
- D. <u>Must Pay Total Prevailing Wage Rate</u>. A Contractor must compensate each Worker, at a minimum, the Total Prevailing Wage Rate(s) for all hours worked on the project for the appropriate labor classification(s).³⁶
- E. <u>Missing Wage Rate</u>. If a Wage Decision fails to include a wage rate for a labor classification(s) that will be utilized on a project, the Contractor must obtain a wage rate prior to furnishing an estimate, quote or bid.³⁷
 - 1. <u>Wage Rate Request</u>. A Contractor must complete a Request for Rate Assignment form³⁸ and submit it to the MnDOT LCU³⁹ for processing.
 - 2. <u>No Contract Price Adjustment for Missing Wage Rate</u>. If MnDLI determines that a higher wage rate applies, the Department will not reimburse the Contractor.
- F. <u>Salaried Worker</u>. A salaried Worker is not exempt from these Provisions. A Contractor must convert the Worker's salary to an average hourly rate of pay by dividing the Worker's salary by the total number of hours Worked (government and non-government) during the pay period.⁴⁰ A salaried Worker must be included on a CPR.
- G. <u>Reduction in Standard (Private) Contractual Regular Rate of Pay Prohibited</u>. A Contractor must not reduce a Worker's standard, contractual regular rate of pay when the prevailing wage rate(s) certified by the MnDLI is less.⁴¹

³³ Minn. R. 5200.1010, Subdivision 3

³⁴ United States Department of Labor All Agency Memorandum #130

³⁵ Minn. Stat. 177.44, Subdivision 4

³⁶ Minn. Stat. 177.44, Subdivision 1

³⁷ Minn. R. 5200.1030, Subpart 2a(C)

³⁸ http://www.dot.state.mn.us/const/labor/documents/forms/request-for-rate-assignment.doc

³⁹ lcusupport.dot@state.mn.us

⁴⁰ Refer to Appendix A

⁴¹ Minn. Stat. 181.03, Subdivision 1(2)

- H. <u>Prohibited Payment Practices</u>. A Contractor is prohibited from taking (accepting) a rebate for the purpose of reducing or otherwise decreasing the value of the compensation paid.
- I. <u>Prohibited Deductions</u>. No deductions, direct or indirect, may be made for the items listed below which when subtracted from wages would reduce the wages below Minnesota's minimum wage rate as established in section 177.24⁴²
 - 1. <u>Uniforms</u>. Purchased or rented uniforms or specifically designed clothing that is required by the Employer, by the nature of employment, or by statute, or as a condition of employment, which is not generally appropriate for use except in that employment.
 - 2. <u>Equipment</u>. Purchased or rented equipment used in employment, except tools of a trade, a motor vehicle, or any other equipment which may be used outside the employment. The cost of the Worker's use of equipment used outside of employment, such as tools, a motor vehicle, cell phone, may be deducted only if an agreement between the Employer and employee existed prior to the deduction.
 - 3. <u>Supplies</u>. Consumable supplies required in the course of employment.
 - 4. <u>**Travel Expenses.**</u> Travel expenses in the course of employment except those incurred in traveling to and from the employee's residence and place of employment.

VII. HOURS OF WORK

- A. <u>Work Performed Under the Contract</u>. A Worker performing Work is subject to prevailing wage for all hours associated with the Contract⁴³, unless the Worker is exempt under state law.⁴⁴
- B. <u>Wait Time Subject to Prevailing Wage</u>. A Worker who is required to remain on the project and is waiting to Work because of the fault of the Contractor is considered "engaged to wait" and subject to prevailing wage for the time spent, unless the Worker is completely relieved of duty and free to leave the project for a defined period of time.

VIII. FRINGE BENEFITS

- A. <u>Funded Fringe Benefit Plan Criteria</u>. In order for a funded Fringe Benefit (e.g., health/medical insurance, disability insurance, life insurance, pension, etc.) to be considered and creditable towards the Total Prevailing Wage Rate it must be:⁴⁵
 - 1. a contribution irrevocably made by a Contractor on behalf of an Worker to a financially responsible trustee, third person, fund, plan, or program;
 - 2. carried out under a financially responsible plan or program;
 - 3. legally enforceable;
 - 4. communicated in writing to the Worker; and
 - 5. made available to the Worker once he/she has met all eligibility requirements.
- B. <u>Unfunded Fringe Benefit Plan Criteria</u>. In order for a unfunded Fringe Benefit (e.g., vacation, holiday, sick leave, etc.) to be considered and creditable towards the Total Prevailing Wage Rate it must be:⁴⁶
 - 1. reasonably anticipated to provide a benefit;
 - 2. a commitment that can be legally enforced;

⁴² Minn. Stat. 177.24, Subdivision 4(1-4)

⁴³ Minn. Stat. 177.44, Subdivision 1

⁴⁴ Minn. Stat. 177.44, Subdivision 2 or Minn. R. 5200.1106, Subpart 4

⁴⁵ Minn. Stat. 177.42, Subdivision 6 ⁴⁶ Minn. Stat. 177.42, Subdivision 6

- 3. carried out under a financially responsible plan or program;
- 4. communicated in writing to the Worker; and
- 5. made available to the Worker once he/she has met all eligibility requirements.
- C. <u>Fringe Benefit Contributions for Hours Worked</u>. A Contractor that provides Fringe Benefits to a Worker must make contributions, not less than quarterly⁴⁷, for all hours worked,⁴⁸ including overtime hours, unless it's a defined benefit or contribution plan that provides for immediate participation and immediate or essentially immediate vesting (see subpart D2 of this section).
- D. <u>Hourly Fringe Benefit Credit</u>. An hourly Fringe Benefit credit toward the Total Prevailing Wage Rate must be determined separately for each Worker based on one or more of the following methods:
 - Monthly, Quarterly or Annual Computation Methods. A Contractor must compute its monthly, quarterly or annual cost of a particular Fringe Benefit and divide that amount by the estimated total number of hours worked (government and non-government) during the time frame used.⁴⁹ Typical plans that require monthly, quarterly or annual computations include but are not limited to: health/medical insurance, disability insurance, life insurance, vacation, holiday, sick leave and defined benefit or contribution pension plans that do not provide for immediate participation and immediate or essentially immediate vesting.
 - 2. Fringe Benefit Credit not Requiring Monthly, Quarterly or Annual Computation Methods. A defined benefit or contribution pension plan that allows for a higher hourly rate of contribution for government work (prevailing wage) than non-government (non-prevailing wage) will be fully credited only if the plan provides for immediate participation and immediate or essentially immediate vesting.
- E. <u>Wages In Lieu of Fringe Benefits</u>. A Contractor that does not provide full Fringe Benefits must compensate a Worker the difference between the Total Prevailing Wage Rate and the rate actually paid for the appropriate labor classification(s). The compensation paid is considered wages and subject to tax liabilities.
 - 1. <u>Overtime</u>. The cash equivalent (wages paid) made in lieu of Fringe Benefits is excluded from the overtime calculation requirement, unless the cash equivalent (wages paid) is part of the Worker's standard straight time wage.
- F. <u>Administrative Costs Not Creditable</u>. Administrative expenses incurred by a Contractor in connection with the administration of a Bona Fide Fringe Benefit plan are not creditable towards the Total Prevailing Wage Rate.
- G. <u>Federal, State & Local Fringe Benefit Credit Prohibited</u>. No credit is allowed for benefits required by federal, state or local law, such as: worker's compensation, unemployment compensation, and social security contributions.⁵⁰

IX. OVERTIME

A. Overtime after 8 Hours per Day or 40 Hours per Week. A Contractor must not permit or require a Worker to work longer than the prevailing hours of labor unless the Worker is paid for all hours in excess of the prevailing hours at a rate of at least 1.5 times the hourly basic rate of pay.⁵¹ The prevailing hours of labor is defined as not more than 8 hours per day and more than 40 hours per week.⁵²

⁴⁷ 29 CRF, Part 5.5(a)(1)(i)

⁴⁸ Government and non-government Work

⁴⁹ Refer to Appendix B

⁵⁰ Minn. Stat. 177.42, Subdivision 6

⁵¹ Minn. Stat. 177.44, Subdivision 1 and Refer to Appendix D

⁵² Minn. Stat. 177.42, Subdivision 4

- B. <u>Wages in Lieu of Fringe Benefits Overtime.</u> Wages paid in Lieu of Fringe Benefits must be paid for all hours worked under the contract.
- C. <u>Multiple Labor Classifications and Overtime</u>. A Worker employed in multiple labor classifications throughout a workweek must be compensated at the applicable labor classification overtime rate in effect during the hours worked in excess of 8 hours per day or 40 hours per week.
- D. <u>Federal Fair Labor Standards Act (FLSA) and Overtime</u>. A Contractor subject to the FLSA may be subject to additional overtime compensation requirements.

X. PAYROLLS AND STATEMENTS

- A. **<u>Reporting</u>**. Each Contractor that is performing Work must submit a CPR(s) to the Department.
 - 1. <u>Payroll Report (Paper)</u>. Each Contractor performing Work must submit a paper (written) payroll report to the Department. The payroll report is available on the MnDOT LCU website.⁵³
 - <u>Statement of Compliance (Paper)</u>. Each Contractor's paper (written) payroll report must include a paper (written) "Statement of Compliance Form". The "Statement of Compliance Form" must: (1) state whether or not Fringe Benefits are provided to a Worker; (2) provide a description of each benefit, the hourly contribution made on behalf of each Worker, along with fund/plan information; and (3) a signature attesting that the payroll and Fringe Benefit information provided is truthful and accurate.⁵⁴
 - 3. <u>Electronic Reporting</u>. If the Contract is subject to electronic reporting, each Contractor performing Work must submit a CPR(s) using the AASHTOWare, Civil Rights Labor (CRL) system. Refer to the Special Provisions Division S "Electronic Submission of Payrolls and Statements" which is incorporated into and found elsewhere in the Contract for detailed requirements.
- B. <u>Biweekly Payroll Reporting and Payment of Wages</u>. A CPR(s) must be submitted no later than 14 calendar days after the end of each Contractor's pay period⁵⁵ to the Department. A Contractor must pay its employees at least once every 14 calendar days.⁵⁶
- C. <u>Payroll Report Data</u>. Each payroll report must include all Workers that performed Work and provide at a minimum the following information:⁵⁷
 - 1. Contractor's name, address, and telephone number.
 - 2. State project number.
 - 3. Contract number (if applicable).
 - 4. Project number.
 - 5. Payroll report number.
 - 6. Project location.
 - 7. Workweek end date.
 - 8. Each Worker's name, home address, and social security number.⁵⁸
 - 9. Labor classification(s) title(s) and optional three-digit code for each Worker.

⁵³ www.dot.state.mn.us/const/labor/certifiedpayroll.html

⁵⁴ Minn. R. 5200.1106, Subpart 10

⁵⁵ Minn. Stat. 177.43, Subdivision 3

⁵⁶ Minn. Stat. 177.30 (a)(4)

⁵⁷ Minn. Stat. 177.30 (a)(1-4) and Minn. R. 5200.1106, Subpart 10

⁵⁸ Minn. R. 5200.1106, Subpart 10A & Minn. Stat. 13.355, Subdivision 1

- 10. Hours worked daily and weekly in each labor classification, including overtime hours, for each Worker.
- 11. Wage rate paid to each Worker for straight time and overtime.
- 12. Authorized legal deductions for each Worker.
- 13. Project gross amount, weekly gross amount, and net wages paid to each Worker.
- D. <u>Prime Contractor to Ensure Compliance</u>. The Prime Contractor must review the CPR(s) submitted by each lower tier Contractor and sign the "Statement of Compliance Form".⁵⁹ The Prime Contractor must ensure that each lower tier Contractor's CPR(s) include all Workers that performed Work and accurately reflect labor classifications, hours worked, regular and overtime rates of pay, gross earnings for the project and Fringe Benefits.⁶⁰
- E. <u>Retention of CPR(s)</u>. The Prime Contractor must keep its written CPR(s), including those of all lower tier Contractors, for three (3) years after the final payment is issued.⁶¹
- F. <u>Retention of Employment-Related Records</u>. Each Contractor must keep employee records, including, but not limited to: Fringe Benefit statements, time cards, payroll ledgers, check registers and canceled checks⁶² for at least three (3) years after the final payment is issued.⁶³ Other laws may have longer retention requirements.
- G. <u>Detailed Earning Statement</u>. At the end of each pay period, each Contractor must provide every Worker, in writing or by electronic means, an accurate, detailed earnings statement.⁶⁴
- H. <u>Reports and Records Request</u>. Upon a request from the Department, the Prime Contractor must promptly furnish copies of CPR(s) for its Workers and those of all lower tier Contractors, along with employment-related records, documents, and agreements that the Department considers necessary to determine compliance.⁶⁵

XI. APPRENTICES, TRAINEES AND HELPERS

- A. <u>Apprentice</u>. An Apprentice will be permitted to Work at less than the prevailing basic hourly rate only if the Apprentice is:
 - 1. Registered with the U.S. Department of Labor (DOL), Bureau of Apprenticeship and Training or MnDLI Division of Voluntary Apprenticeship.⁶⁶
 - 2. Performing Work of the trade, as described in the apprenticeship agreement.
 - 3. Compensated according to the rate specified in the program for the level of progress.⁶⁷
 - 4. Supervised by a Journeyworker from the same company, in accordance with the program ratio requirements.⁶⁸
- B. <u>Ratio Requirement</u>. If an approved apprenticeship program fails to define a ratio allowance, the first Apprentice must be supervised by a Journeyworker within the same trade or occupation. Any subsequent Apprentice must be supervised by an additional three Journeyworkers.⁶⁹

⁵⁹ MnDOT Standard Specifications for Construction, Section 1701

⁶⁰ MnDOT Standard Specifications for Construction, Section 1801

⁶¹ Minn. Stat. 177.30 (a)(5)

⁶² Minn. R. 5200.1106, Subpart 10

⁶³ Minn. Stat. 177.30 (a)(5)

⁶⁴ Minn. Stat. 181.032

⁶⁵ Minn. Stat. 177.44, Subdivision 7; Minn. Stat. 177.33(a)(5)

⁶⁶ Minn. R. 5200.1070, Subpart 1

⁶⁷ Minn. R. 5200.1070, Subpart 1 and Refer to Appendix C

 ⁶⁸ Minn. Stat. 178.036, Subdivision 5
⁶⁹ Minn. Stat. 178.036, Subdivision 5

- C. <u>Failure to Comply with Apprenticeship Requirements</u>. If a Contractor fails to demonstrate compliance with the terms established in this section, the Contractor must compensate the Apprentice not less than the applicable Total Prevailing Wage Rate for the actual classification of labor performed.⁷⁰
- D. <u>**Trainee and Helper.**</u> A trainee or helper is not exempt from prevailing wage under state law. The Contractor must assign the trainee or helper a labor classification that is the "same or most similar"⁷¹ and compensate the trainee or helper for the actual Work performed regardless of the trainee's or helper's skill level.

XII. INDEPENDENT CONTRACTORS, OWNERS, SUPERVISORS, AND FOREMAN

- A. <u>Independent Contractor</u>. An independent contractor (IC) that is not an Independent Truck Owner/Operator (ITO), who is performing Work must be properly classified and compensated.⁷² The IC must submit a CPR(s) to the Department. If the IC does not receive an hourly wage, but instead a weekly, biweekly, monthly or quarterly distribution for performance, the IC must calculate its hourly rate of pay by dividing the weekly, biweekly, monthly, or quarterly company distribution by all hours worked during that time frame and report the information on a CPR. If necessary, the Department may request documentation from the IC to determine how the hourly wage rate was calculated.⁷³
- B. <u>Owners, Supervisors and Foreman</u>. An owner, supervisor, or foreman performing Work is subject to prevailing wage and must be properly classified, compensated and reported.⁷⁴

XIII. TRUCKING

- A. <u>Covered Hauling Activities</u>. A Contractor must ensure that all Workers, including hired Trucking Brokers, MTOs and ITOs are paid the applicable Total Prevailing Wage Rate or truck rental rate for the following Work:
 - 1. The hauling of any or all stockpiled or excavated materials on the project work site to other locations on the same project even if the truck leaves the work site at some point.⁷⁵
 - 2. The delivery of materials from a non-commercial establishment to the project and the return haul to the starting location either empty or loaded.⁷⁶
 - 3. The delivery of materials from another construction project site to the public works project and the return haul, either empty or loaded. Construction projects are not considered commercial establishments.⁷⁷
 - 4. The hauling required to remove any materials from the project to a location off the project site and the return haul, either empty or loaded from other than a commercial establishment.⁷⁸
 - 5. The delivery of materials or products by trucks hired by a Contractor, subcontractor, or agent thereof, from a commercial establishment.⁷⁹
 - 6. The delivery of sand, gravel, or rock, by or for a commercial establishment, which is deposited "substantially in place," either directly or through spreaders from the transporting vehicles is work under the contract. In addition, the return haul to the off-site facility empty or loaded is also considered work under the contract.⁸⁰

⁷⁰ Minn. R. 5200.1070, Subpart 3

⁷¹ Minn. Stat. 177.44, Subdivision 1

⁷² Minn. Stat. 177.44, Subdivision 1

⁷³ Minn. Stat. 177.30(a)(5); Minn. Stat. 181.723

⁷⁴ Minn. Stat. 177.44, Subdivision 1

⁷⁵ Minn. R. 5200.1106, Subpart 3B(1)

 ⁷⁶ Minn. R. 5200.1106, Subpart 3B(2)
⁷⁷ Minn. R. 5200.1106, Subpart 3B(3)

⁷⁸ Minn. R. 5200.1106, Subpart 3B(3)

⁷⁹ Minn. R. 5200.1106, Subpart 3B(4)

⁸⁰ Minn. R. 5200.1106, Subpart 3B(6)

- B. <u>Hauling Activities Not Subject to Prevailing Wage or Truck Rental Rates</u>. A Contractor may exclude a Worker, including hired Trucking Brokers, MTOs and ITOs from prevailing wage or truck rental rates for the Work described in (1-2) of this section. However, this Work may be considered hours worked and subject to standard compensation pursuant to the Minnesota Fair Labor Standards Act.
 - 1. The delivery of processed or manufactured goods to a public works project by the employees of a commercial establishment including truck owner-operators hired by and paid by the commercial establishment, unless it is the delivery of mineral aggregate that is incorporated into the work under the contract by depositing the material substantially in place.⁸¹
 - 2. The delivery of oil offsite, as an example, to a Prime Contractor's permanent (commercial) asphalt mixing facility that is not to, from, or on the project Work site.⁸²
- C. <u>Repair, Maintenance & Waiting to Load Time</u>. An ITO and MTO must be paid the truck rental rate for time spent repairing or maintaining the truck owner-operator's equipment, and for waiting to load or unload if the repair, maintenance, or wait time is the fault of the Trucking Broker, Contractor, its agent or employees.⁸³
- D. <u>Month End Trucking Report</u>. A Contractor that acquires the services of an ITO or MTO must submit a "MnDOT – MTO and/or ITO Month-End Trucking Report", and a "MnDOT – Month-End Trucking Statement of Compliance Form" to the Department for each month hauling activities are performed under the Contract.⁸⁴ The forms are available on the MnDOT LCU website.⁸⁵
- E. **Broker Fee.** A truck broker contracting to provide trucking services directly to a prime contractor or subcontractor is allowed to assess a broker fee.

XIV. OFF-SITE FACILITIES

- A. <u>Off-Site Facility Activities Subject to Prevailing Wage</u>. A Contractor must ensure that all Workers performing Work at a covered off-site facility are paid the applicable Total Prevailing Wage Rate for the following Work:
 - 1. The processing or manufacturing of material at a Prime Contractor's off-site facility that is not a separately held commercial establishment.⁸⁶
 - 2. The processing or manufacturing of material at an off-site facility that is not considered a commercial establishment.⁸⁷
- B. <u>Off-Site Facility Activities Not Subject to Prevailing Wage</u>. A Contractor may exclude a Worker from prevailing wage for the following work:
 - 1. The processing or manufacturing of material or products by or for a commercial establishment.⁸⁸
 - 2. The work performed by Workers employed by the owner or lessee of a gravel or borrow pit that is a commercial establishment, even if the screening, washing or crushing machines are portable.⁸⁹

XV. SUBCONTRACTING PART OF THE CONTRACT

⁸¹ Minn. R. 5200.1106, Subpart 4(C)

⁸² J.D. Donovan, Inc. vs. Minnesota Department of Transportation, 878 N.W.2d 1 (2016)

⁸³ Minn. R. 5200.1106, Subpart 8(A)(1)

⁸⁴ Minn. R. 5200.1106, Subpart 10

⁸⁵ http://www.dot.state.mn.us/const/labor/forms.html

⁸⁶ ALJ Findings of Fact, Conclusions of Law, and Recommendation, Conclusions (7), Case #12-3000-11993-2

⁸⁷ Minn. R. 5200.1106, Subpart 3(A)

⁸⁸ Minn. R. 5200.1106, Subpart 4(A)

⁸⁹ Minn. R. 5200.1106, Subpart 4(B)

The Prime Contractor must include the Contract Special Provisions, Wage Decision(s) and Truck Rental Rate Schedule in all Subcontracts, agreements and purchase orders with lower tier Contractors.⁹⁰ This requirement also applies to all lower tier subcontractors.

XVI. SITE OF WORK REQUIREMENTS

- A. <u>Poster Board</u>. The Prime Contractor must construct and display a poster board containing all required posters. The poster board must be accurate, legible, and accessible to all project Workers from the first day of Work until the project is one hundred percent (100%) complete.⁹¹ A poster board at an off-site location, or inside a construction trailer, does not meet this requirement.
- B. <u>How to Obtain a Poster Board</u>. The Prime Contractor may obtain the required posters and the necessary contact information that is required to be inserted on each poster by visiting the MnDOT LCU website.⁹²
- C. <u>Employee Interviews</u>. The Contractor must permit representatives from the Department or other governmental entities⁹³ to interview Workers at any time during working hours on the project.⁹⁴

XVII. CHILD LABOR

- A. <u>No Worker under the Age of 18</u>. No Worker under the age of 18 is allowed to perform Work on a Project Site, except pursuant to Section XVII B below.⁹⁵
- B. <u>Parental Supervision</u>. A Worker under the age of 18 may perform Work on a Project Site if all of the following criteria are met:
 - 1. The Contractor (Employer) is not subject to FLSA.
 - 2. The Worker is employed in a corporation owned solely by one or both parents.
 - 3. The Worker is supervised by the parent(s).
 - 4. The Worker is not working in a hazardous occupation.⁹⁶
- C. <u>Removal of Minor from Project</u>. The Engineer or inspector may remove a Worker that appears to be under the age of 18 from the Project Site until the Contractor or Worker can demonstrate proof of age and compliance with all applicable federal and state regulations.⁹⁷

XVIII. NON-COMPLIANCE AND ENFORCEMENT

- A. <u>Case-by-Case Enforcement</u>. The Department has the authority to enforce the prevailing wage law on a case-by-case.⁹⁸
- B. <u>Prime Contractor Responsible for Unpaid Wages</u>. The Prime Contractor will be held liable for any unpaid wages to its Workers or those of any lower tier Contractor.⁹⁹
- C. <u>Enforcement Options</u>. If evidence shows that a Contractor has violated prevailing wage requirements, or these Special Provisions, the Department may, after written notice, implement one or more of the following:

⁹⁰ MnDOT Standard Specifications for Construction, Section 1801

⁹¹ Minn. Stat. 177.44, Subdivision 5

⁹² www.dot.state.mn.us/const/labor/posterboards

⁹³ MnDLI, U.S. DOL, , U.S. Department of Transportation, Federal Highways Administration

⁹⁴ MnDOT Standard Specifications for Construction, Section 1511

⁹⁵ Minn. R. 5200.0910, Subpart F; 29 CFR Part 570.2(a)(ii)

⁹⁶ Minn. R. 5200.0930, Subpart 4

⁹⁷Minn. Stat. 181A.06, Subdivision 4; MnDOT Standard Specifications for Construction, Section 1701

⁹⁸ See International Union of Operating Engineers, Local 49 v. MnDOT, No. C6-97-1582, 1998 WL 74281, at *2 (Minn. App. Feb. 24, 1998)

⁹⁹ MnDOT Standard Specifications for Construction, Section 1801

- 1. <u>Withholding Payment</u>. The Department may withhold from the Prime Contractor payments relating to prevailing wage underpayments.¹⁰⁰
- 2. <u>Non-Responsible Contractor</u>. The Department may reject a bid from a Prime Contractor that has received two (2) or more Determination Letters within a three (3) year period from the Department finding an underpayment by the Contractor to its own employees.¹⁰¹
- 3. **<u>Default</u>**. The Department may take the prosecution of the Work out of the hands of the Prime Contractor, place the Contractor in default, and terminate the Contract for failure to comply.¹⁰²
- 4. <u>Suspension or Debarment</u>. The Department may refer violations and matters of noncompliance by a Contractor to the Minnesota Department of Administration for suspension or debarment proceedings.¹⁰³
- 5. <u>**County Attorney.**</u> The Department may refer suspected criminal violations by Contractor to the appropriate local county attorney for prosecution.¹⁰⁴
- 6. <u>Financial Penalties</u>. Any Contractor who violates the state prevailing wage law is guilty of a misdemeanor and may be fined not more than \$300 or imprisoned not more than 90 days or both. Each day that the violation continues is a separate offense.¹⁰⁵ A Contractor may be fined up to \$1,000 for each failure to maintain records.¹⁰⁶
- <u>False Claims Act Violation</u>. All required payroll and certification reports are legal documents; knowing falsification of the documents by a Contractor may result in civil action and/or criminal prosecution¹⁰⁷ and may be grounds for debarment proceedings.¹⁰⁸
- 8. <u>Compliance Order</u>. The Department may request that MnDLI issue a compliance order to a Contractor for violations of the state prevailing wage law. If the Contractor is found to have committed a violation, liquidated damages and other costs may be assessed against the Employer.¹⁰⁹
- 9. **Private Right of Action.** The Department may direct an employee to pursue a civil action in district court against its Employer for failure to comply with the proper payment of wages.¹¹⁰ If the Employer is found to have committed a violation, liquidated damages and other costs may be assessed against the Employer.¹¹¹
- 10. <u>Fringe Benefits; Misdemeanor</u>. A Contractor that is obligated to deposit Fringe Benefit contributions on behalf of a Worker into a financially responsible trustee, third person, fund, plan, or program and fails to make timely contributions is guilty of a gross misdemeanor or other violations under federal law.¹¹²

¹⁰⁰ MnDOT Standard Specifications for Construction, Section 1906

¹⁰¹ Minn. Stat. 16C.285

¹⁰² MnDOT Standard Specifications for Construction, Section 1808

¹⁰³ Minn. R. 1230.1150, Subpart 2(A)(4)

¹⁰⁴ Minn. Stat. 177.44, Subdivision 7

¹⁰⁵ Minn. Stat. 177.44, Subdivision 6

¹⁰⁶ Minn. Stat. 177.30(b)

¹⁰⁷ Minn. Stat. 15C.02; , Minn. Stat. 161.315; Minn. Stat. 177.32; Minn. Stat. 177.43, Subdivision 5, Minn. Stat. 609.63

¹⁰⁸ Minn. Stat. 161.315 and Minn. Stat. 609.63

¹⁰⁹ Minn. Stat. 177.43, Subdivision 6a

¹¹⁰ Minn. Stat. 177.27, Subdivision 8

¹¹¹ Minn. Stat. 177.27, Subdivision 10

¹¹² Minn. Stat. 181.74, Subdivision 1

THE FOLLOWING APPENDICES ARE FOR EXPLANATORY PURPOSES ONLY. FOR SPECIFIC QUESTIONS, PLEASE CONTACT LCU.¹¹³

APPENDIX A

SALARIED WORKER WAGE COMPUTATION

<u>Salaried Workers</u>. In order to convert the Worker's salary into an hourly rate of pay, divide the employee's weekly, bi-weekly or monthly earnings by the total number of hours Worked (government and non-government), including overtime hours for the time period used.¹¹⁴

\$800.00 (weekly salary) / 40 (total weekly hours) = \$20.00 \$1,600.00 (bi-weekly salary) / 80 (total bi-weekly hours) = \$20.00 \$3,200.00 (monthly salary) / 160 (total monthly hours) = \$20.00

APPENDIX B

FRINGE BENEFIT CREDIT

Fringe Benefit Credit Calculation. The Employer contributes monthly (\$600.00) for medical insurance on behalf of a Worker. In order to calculate the projected hourly credit that the Employer can take, the Employer should: (1) add the monthly contributions for each Worker, (2) multiply by twelve (12) months, and (3) divide the total cost of the benefit by the total hours worked (government and non-government)¹¹⁵ (see annual example below). Quarterly and monthly examples are also provided.

Annual:	$(\$600.00) \times (12 \text{ months}) = \$7,200.00$ $(\$7,200.00) / (2080 \text{ hours}) = \underline{\$3.46 \text{ per hour credit}}$
Quarterly:	(\$600.00) x (3 months) = \$1,800.00 (\$1,800.00)/(520 hours) = <u>\$3.46 per hour credit</u>
Monthly:	(\$600.00) x (1 month) = \$600.00 (\$600.00) / (173 hours) = \$3.47 per hour credit

End of Year Self-Audit. At the end of the calendar year, the Contractor must conduct an audit to determine if the hourly fringe benefit credit taken for each Worker was accurate. The Contractor must calculate the total annual fringe benefits paid on behalf of each Worker and divide that amount by the total number of hours worked (government and non-government) by that Worker. If the hourly fringe benefit credit was less than what was reported on a CPR, the contractor must compensate the Worker the hourly difference, multiplied by the total hours worked under the Contract.

APPENDIX C

APPRENTICE RATE OF PAY

<u>State Requirements</u>. The Apprentice must be compensated according his/her level of progress, which is expressed as a percentage of the Journeyworker wage that is established in the program.

Journeyworker Wage Established in Program = \$25.00

Apprentice Level of Progress = 60%

(\$25.00) * (.60) = \$15.00

¹¹³ lcusupport.dot@state.mn.us or (651) 366-4238

¹¹⁴ United States Department of Labor Field Operation Handbook, Section 15f08

¹¹⁵ United States Department of Labor Field Operation Handbook, Section 15f12

Overtime Hourly Rate of Pay. Here is the formula to calculate the required minimum overtime.¹¹⁶

OT = (PW * .5) + (HW) + (RF) + (F)

Definition of OT Acronyms

OT: overtime.

- **PW**: the basic hourly prevailing wage rate established in a federal and/or state prevailing Wage Decision.
- **HW**: hourly wage rate paid to a Worker.
- **RF**: remaining fringe, which means the difference between the Contract hourly Fringe Benefit rate and the actual hourly Fringe Benefit rate paid by the Contractor to a third party on behalf of a Worker.
- F: Fringe Benefit contributions that are bona-fide and contributed by an Employer to a third party on behalf of a Worker.

The Total Prevailing Wage Rate for a Worker is \$30.00, which is comprised of an hourly basic rate of \$20.00 and an hourly fringe rate of \$10.00. The table below includes various hourly basic and Fringe Benefit payments that a Contractor could potentially make to a Worker.

	OT CALCULATION FORMULA AND EXAMPLES OT = (PW * .5) + (HW) + (RF) + (F)						
Hourly Wage	Fringe Benefits	<u>Payment To Employee</u>	Fringe <u>Payment</u>	Total <u>Payment</u>			
Paid	<u>Paid</u>	(PW * .5) + (HW) + (RF)	+ (F)	= OT			
\$ 20.00	\$ 10.00	(\$ 20.00 * .5) + (\$ 20.00) + (\$ 0.00) = \$ 30.00	+ \$10.00	= \$ 40.00			
\$ 18.00	\$ 12.00	(\$ 20.00 * .5) + (\$ 18.00) + (\$ 0.00) = \$ 28.00	+ \$12.00	= \$ 40.00			
\$ 22.00	\$ 8.00	(\$ 20.00 * .5) + (\$ 22.00) + (\$ 0.00) = \$ 32.00	+ \$ 8.00	= \$ 40.00			
\$ 30.00	\$ 0.00	(\$ 20.00 * .5) + (\$ 30.00) + (\$ 0.00) = \$ 40.00	+ \$ 0.00	= \$ 40.00			
\$ 24.00	\$ 4.00	(\$ 20.00 * .5) + (\$ 24.00) + (\$ 2.00) = \$ 36.00	+ \$ 4.00	= \$ 40.00			

Regarding the last example the Contractor would be required to pay an additional \$2.00 to the Worker, which is wages in lieu of fringe for a straight time hourly rate of \$26.00 not \$24.00.

A Contractor subject to the Fair Labor Standards Act (FLSA) may be subject to additional overtime compensation requirements.

¹¹⁶ United States Department of Labor Field Operation Handbook, Section 15k

NOTICE TO BIDDERS

Minnesota Statutes require prompt payment to subcontractors:

Minn. Stat. § 471.425 PROMPT PAYMENT OF LOCAL GOVERNMENT BILLS.

Subdivision 1. **Definitions.** For the purposes of this section, the following terms have the meanings here given them.

... (d) "Municipality" means any home rule charter or statutory city, county, town, school district, political subdivision or agency of local government. "Municipality" means the Metropolitan Council or any board or agency created under chapter 473.

... Subd. 4a. **Prompt payment to subcontractors**. Each contract of a municipality must require the prime contractor to pay any subcontractor within ten days of the prime contractor's receipt of payment from the municipality for undisputed services provided by the subcontractor. The contract must require the prime contractor to pay interest of 1-1/2 percent per month or any part of a month to the subcontractor on any undisputed amount not paid on time to the subcontractor. The minimum monthly interest penalty payment for an unpaid balance of \$100 or more is \$10. For an unpaid balance of less than \$100, the prime contractor shall pay the actual penalty due to the subcontractor. A subcontractor who prevails in a civil action to collect interest penalties from a prime contractor must be awarded its costs and disbursements, including attorney's fees, incurred in bringing the action.

Minn. Stat. § 15.72 PROGRESS PAYMENTS ON PUBLIC CONTRACTS; RETAINAGE.

... Subd. 2. **Retainage.** ... (c) A contractor on a public contract for a public improvement must pay all remaining retainage to its subcontractors no later than ten days after receiving payment of retainage from the public contracting agency, unless there is a dispute about the work under a subcontract. If there is a dispute about the work under a subcontract, the contractor must pay out retainage to any subcontractor whose work is not involved in the dispute, and must provide a written statement detailing the amount and reason for the withholding to the affected subcontractor.

\mathbf{W} this notice must be posted on the jobsite in a conspicuous place

Construction Type: Highway and Heavy

Region Number: 08

Counties within region:

- CHIPPEWA-12
- KANDIYOHI-34
- LAC QUI PARLE-37
- LINCOLN-41
- LYON-42
- MCLEOD-46
- MEEKER-47
- MURRAY-51
- PIPESTONE-59
- REDWOOD-64
- RENVILLE-65
- YELLOW MEDICINE-87

Effective: 2024-11-18 Revised: 2025-03-24

This project is covered by Minnesota prevailing wage statutes. Wage rates listed below are the minimum hourly rates to be paid on this project.

All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at a rate of one and one half (1 1/2) times the basic hourly rate. *Note: Overtime pay after eight (8) hours on the project must be paid even if the worker does not exceed forty (40) hours in the work week.*

Violations on MnDOT highways and road projects should be reported to:

Department of Transportation Office of Construction Transportation Building MS650 John Ireland Blvd St. Paul, MN 55155 (651) 366-4209

All other prevailing wage violations and questions should be sent to:

Department of Labor and Industry Prevailing Wage Section 443 Lafayette Road N St Paul, MN 55155 (651) 284-5091 DLI.PrevWage@state.mn.us

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
LABORERS (101 - 112) (SPECIAL CR	AFTS 701 - 730)				
101	LABORER, COMMON (GENERAL LABOR WORK)	2024-11-18	36.64	24.68	61.32
		2025-05-01	39.01	26.01	65.02

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
102	LABORER, SKILLED (ASSISTING SKILLED CRAFT JOURNEYMAN)	2024-11-18	36.64	24.68	61.32
		2025-05-01	39.01	26.01	65.02
103	LABORER, LANDSCAPING (GARDENER, SOD LAYER AND NURSERY OPERATOR)	2024-11-18	30.04	21.53	51.57
		2025-05-01	31.66	22.78	54.44
104	FLAG PERSON	2024-11-18	36.64	24.68	61.32
		2025-05-01	39.01	26.01	65.02
105	WATCH PERSON	2024-11-18	16.25	12.94	29.19
106	BLASTER	2024-11-18	39.64	24.24	63.88
107	PIPELAYER (WATER, SEWER AND GAS)	2024-11-18	40.14	24.68	64.82
		2025-05-01	42.51	26.01	68.52
108	TUNNEL MINER	2024-11-18	38.14	24.24	62.38
109	UNDERGROUND AND OPEN DITCH LABORER (EIGHT FEET BELOW STARTING GRADE LEVEL)	2024-11-18	38.14	24.68	62.82
		2025-05-01	40.51	26.01	66.52
110	SURVEY FIELD TECHNICIAN (OPERATE TOTAL STATION, GPS RECEIVER, LEVEL, ROD OR RANGE POLES, STEEL TAPE MEASUREMENT; MARK AND DRIVE STAKES; HAND OR POWER DIGGING FOR AND IDENTIFICATION OF MARKERS OR MONUMENTS; PERFORM AND CHECK CALCULATIONS; REVIEW AND UNDERSTAND CONSTRUCTION PLANS AND LAND SURVEY MATERIALS). THIS CLASSIFICATION DOES NOT APPLY TO THE WORK PERFORMED ON A PREVAILING WAGE PROJECT BY A LAND SURVEYOR WHO IS LICENSED PURSUANT TO MINNESOTA STATUTES, SECTIONS 326.02 TO 326.15.	2024-11-18	35.00	11.50	46.50
111	TRAFFIC CONTROL PERSON (TEMPORARY SIGNAGE)	2024-11-18	21.49	14.80	36.29

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
112	QUALITY CONTROL TESTER (FIELD AND COVERED OFF-SITE FACILITIES; TESTING OF AGGREGATE, ASPHALT, AND CONCRETE MATERIALS); LIMITED TO MN DOT HIGHWAY AND HEAVY CONSTRUCTION PROJECTS WHERE THE MN DOT HAS RETAINED QUALITY ASSURANCE PROFESSIONALS TO REVIEW AND INTERPRET THE RESULTS OF QUALITY CONTROL TESTERS. SERVICES PROVIDED BY THE CONTRACTOR.	2024-11-18	16.04	0.00	16.04

SPECIAL EQUIPMENT (201 - 204)

201	ARTICULATED HAULER	2024-11-18	42.49	25.00	67.49
202	BOOM TRUCK	2024-11-18	31.16	23.45	54.61
203	LANDSCAPING EQUIPMENT, INCLUDES HYDRO SEEDER OR MULCHER, SOD ROLLER, FARM TRACTOR WITH ATTACHMENT SPECIFICALLY SEEDING, SODDING, OR PLANT, AND TWO-FRAMED FORKLIFT (EXCLUDING FRONT, POSIT-TRACK, AND SKID STEER LOADERS), NO EARTHWORK OR GRADING FOR ELEVATIONS	2024-11-18	30.04	21.53	51.57
		2025-05-01	31.66	22.78	54.44
204	OFF-ROAD TRUCK	2024-11-18	41.29	23.45	64.74
205	PAVEMENT MARKING OR MARKING REMOVAL EQUIPMENT (ONE OR TWO PERSON OPERATORS); SELF-PROPELLED TRUCK OR TRAILER MOUNTED UNITS.	2024-11-18	33.91	23.49	57.40

HIGHWAY/HEAVY POWER EQUIPMENT OPERATOR

GROUP 2	2024-11-18	45.61	26.90	72.51		
	2025-05-05	47.24	29.40	76.64		
302	HELICOPTER PILOT (HIGHWAY AND HEAVY ONLY)					
303	CONCRETE PUMP (HIGHWAY AND HEAVY ONLY)					
304	ALL CRANES WITH OVER 135-FOOT BOOM, EXCLUDING JIB (HIGHWAY AND HEAVY ONLY)					

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE				
305	DRAGLINE, CRAWLER, HYDRAULIC BA EQUIPMENT WITH SHOVEL-TYPE CONT RATED CAPACITY INCLUDING ALL ATT	CKHOE (TRACK O ROLS THREE CUB ACHMENTS. (HIGI	R WHEEL MOUN IC YARDS AND HWAY AND HEA	TED) AND/OR OT OVER MANUFACT VY ONLY)	HER SIMILAR URER.S				
306	GRADER OR MOTOR PATROL								
307	PILE DRIVING (HIGHWAY AND HEAVY ONLY)								
308	TUGBOAT 100 H.P. AND OVER WHEN LIG	CENSE REQUIRED	(HIGHWAY AND	HEAVY ONLY)					
GROUP 3		2024-11-18	45.01	26.90	71.91				
200		2025-05-05	46.61	29.40	76.01				
309	ASPHALT BITUMINOUS STABILIZER PL	ANT							
310	CABLEWAY								
311	CONCRETE MIXER, STATIONARY PLAN	I' (HIGHWAY AND	HEAVY ONLY)						
312	DERRICK (GUY OR STIFFLEG)(POWER)(SKIDS OR STATIONARY) (HIGHWAY AND HEAVY ONLY) DRAGLINE, CRAWLER, HYDRAULIC BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS, UP TO THREE CUBIC YARDS MANUFACTURER.S RATED								
314	DREDGE OR ENGINEERS DREDGE (POWER) AND ENGINEER								
315	FRONT END LOADER, FIVE CUBIC YARDS AND OVER INCLUDING ATTACHMENTS. (HIGHWAY AND HEAVY ONLY)								
316	LOCOMOTIVE CRANE OPERATOR								
317	MIXER (PAVING) CONCRETE PAVING, R SIMILAR TYPE	OAD MOLE, INCLU	JDING MUCKIN	G OPERATIONS, C	ONWAY OR				
318	MECHANIC . WELDER ON POWER EQUI	PMENT (HIGHWAY	AND HEAVY O	NLY)					
319	TRACTOR . BOOM TYPE (HIGHWAY ANI	D HEAVY ONLY)							
320	TANDEM SCRAPER								
321	TRUCK CRANE . CRAWLER CRANE (HIG	HWAY AND HEAV	Y ONLY)						
322	TUGBOAT 100 H.P AND OVER (HIGHWA'	Y AND HEAVY ON	LY)						
GROUP 4		2024-11-18	44.67	26.90	71.57				
		2025-05-05	46.25	29.40	75.65				
323	AIR TRACK ROCK DRILL								
324	AUTOMATIC ROAD MACHINE (CMI OR S	SIMILAR) (HIGHWA	AY AND HEAVY	ONLY)					
325	BACKFILLER OPERATOR								
326	CONCRETE BATCH PLANT OPERATOR (HIGHWAY AND HE	EAVY ONLY)						
327	BITUMINOUS ROLLERS, RUBBER TIRED	OR STEEL DRUM	MED (EIGHT TO	NS AND OVER)					
328	BITUMINOUS SPREADER AND FINISHIN AND MICRO SURFACING, OR SIMILAR T	G MACHINES (POV YPES (OPERATOR	VER), INCLUDIN AND SCREED P	G PAVERS, MACR ERSON)	O SURFACING				
329	BROKK OR R.T.C. REMOTE CONTROL OF	R SIMILAR TYPE W	ITH ALL ATTAC	CHMENTS					
330	CAT CHALLENGER TRACTORS OR SIMII SCRAPERS	LAR TYPES PULLIN	NG ROCK WAGC	NS, BULLDOZERS	AND				
331	CHIP HARVESTER AND TREE CUTTER								
332	CONCRETE DISTRIBUTOR AND SPREAD MACHINE, AND SPRAY MACHINE	ER FINISHING MA	CHINE, LONGIT	UDINAL FLOAT, J	DINT				

LABOR CODE AND CLASS	EFFECT DATE BASIC RATE FRINGE RATE TOTAL RATE
333	CONCRETE MIXER ON JOBSITE (HIGHWAY AND HEAVY ONLY)
334	CONCRETE MOBIL (HIGHWAY AND HEAVY ONLY)
335	CRUSHING PLANT (GRAVEL AND STONE) OR GRAVEL WASHING, CRUSHING AND SCREENING PLANT
336	CURB MACHINE
337	DIRECTIONAL BORING MACHINE
338	DOPE MACHINE (PIPELINE)
339	DRILL RIGS, HEAVY ROTARY OR CHURN OR CABLE DRILL (HIGHWAY AND HEAVY ONLY)
340	DUAL TRACTOR
341	ELEVATING GRADER
342	FORK LIFT OR STRADDLE CARRIER (HIGHWAY AND HEAVY ONLY)
343	FORK LIFT OR LUMBER STACKER (HIGHWAY AND HEAVY ONLY)
344	FRONT END, SKID STEER OVER 1 TO 5 C YD
345	GPS REMOTE OPERATING OF EQUIPMENT
346	HOIST ENGINEER (POWER) (HIGHWAY AND HEAVY ONLY)
347	HYDRAULIC TREE PLANTER
348	LAUNCHER PERSON (TANKER PERSON OR PILOT LICENSE)
349	LOCOMOTIVE (HIGHWAY AND HEAVY ONLY)
350	MILLING, GRINDING, PLANNING, FINE GRADE, OR TRIMMER MACHINE
351	MULTIPLE MACHINES, SUCH AS AIR COMPRESSORS, WELDING MACHINES, GENERATORS, PUMPS (HIGHWAY AND HEAVY ONLY)
352	PAVEMENT BREAKER OR TAMPING MACHINE (POWER DRIVEN) MIGHTY MITE OR SIMILAR TYPE
353	PICKUP SWEEPER, ONE CUBIC YARD AND OVER HOPPER CAPACITY(HIGHWAY AND HEAVY ONLY)
354	PIPELINE WRAPPING, CLEANING OR BENDING MACHINE
355	POWER PLANT ENGINEER, 100 KWH AND OVER (HIGHWAY AND HEAVY ONLY)
356	POWER ACTUATED HORIZONTAL BORING MACHINE, OVER SIX INCHES
357	PUGMILL
358	PUMPCRETE (HIGHWAY AND HEAVY ONLY)
359	RUBBER-TIRED FARM TRACTOR WITH BACKHOE INCLUDING ATTACHMENTS (HIGHWAY AND HEAVY ONLY)
360	SCRAPER
361	SELF-PROPELLED SOIL STABILIZER
362	SLIP FORM (POWER DRIVEN) (PAVING)
363	TIE TAMPER AND BALLAST MACHINE
364	TRACTOR, BULLDOZER (HIGHWAY AND HEAVY ONLY)
365	TRACTOR, WHEEL TYPE, OVER 50 H.P. WITH PTO UNRELATED TO LANDSCAPING (HIGHWAY AND HEAVY ONLY)
366	TRENCHING MACHINE (SEWER, WATER, GAS) EXCLUDES WALK BEHIND TRENCHER (HIGHWAY AND HEAVY ONLY)
367	TUB GRINDER, MORBARK, OR SIMILAR TYPE
368	WELL POINT DISMANTLING OR INSTALLATION (HIGHWAY AND HEAVY ONLY)

GROUP 5

2024-11-18

41.36

68.26

26.90

LABOR CODE AND CLASS

EFFECT DATE BASIC RATE FRINGE RATE TOTAL RATE

		2025-05-05	42.77	29.40	72.17
369	AIR COMPRESSOR, 600 CFM OR OVER (HIGHWAY AND HEAVY ON	ILY)		
370	BITUMINOUS ROLLER (UNDER EIGHT	TONS)			
371	CONCRETE SAW (MULTIPLE BLADE) (P	OWER OPERATED)			
372	FORM TRENCH DIGGER (POWER)				
373	FRONT END, SKID STEER UP TO 1C YD				
374	GUNITE GUNALL (HIGHWAY AND HEA	VY ONLY)			
375	HYDRAULIC LOG SPLITTER				
376	LOADER (BARBER GREENE OR SIMILA	R TYPE)			
377	POST HOLE DRIVING MACHINE/POST H	IOLE AUGER			
378	POWER ACTUATED AUGER AND BORIN	NG MACHINE			
379	POWER ACTUATED JACK				
380	PUMP (HIGHWAY AND HEAVY ONLY)				
381	SELF-PROPELLED CHIP SPREADER (FLA	AHERTY OR SIMILAR)			
382	SHEEP FOOT COMPACTOR WITH BLAD	E . 200 H.P. AND OVER			
383	SHOULDERING MACHINE (POWER) APS CHIP SPREADER	SCO OR SIMILAR TYPE INC	LUDING SELF-PR	OPELLED SAND A	AND
384	STUMP CHIPPER AND TREE CHIPPER				
385	TREE FARMER (MACHINE)				
GROUP 6		2024-11-18	38.06	25.00	63.06

GROUP		2024-11-18	38.00	23.00	03.0
387	CAT, CHALLENGER, OR SIMILAR TYPE	OF TRACTORS, WHEN PUL	LLING DISK OR RO	DLLER	
388	CONVEYOR (HIGHWAY AND HEAVY O	NLY)			
389	DREDGE DECK HAND				
390	FIRE PERSON OR TANK CAR HEATER (HIGHWAY AND HEAVY ON	NLY)		
391	GRAVEL SCREENING PLANT (PORTAB	LE NOT CRUSHING OR WA	SHING)		
392	GREASER (TRACTOR) (HIGHWAY AND	HEAVY ONLY)			
393	LEVER PERSON				
394	OILER (POWER SHOVEL, CRANE, TRUC OTHER SIMILAR HEAVY EQUIPMENT)	CK CRANE, DRAGLINE, CRU (HIGHWAY AND HEAVY O	USHERS, AND MILI DNLY)	LING MACHINES	, OR
395	POWER SWEEPER				
396	SHEEP FOOT ROLLER AND ROLLERS O	N GRAVEL COMPACTION,	INCLUDING VIBR	ATING ROLLERS	
397	TRACTOR, WHEEL TYPE, OVER 50 H.P.,	, UNRELATED TO LANDSC	APING		

TRUCK DRIVERS

GROUP 1		2024-11-18	36.00	11.50	47.50
601	MECHANIC . WELDER				
602	TRACTOR TRAILER DRIVER				
603	TRUCK DRIVER (HAULING MACHINERY WINCHES)	INCLUDING OPERATION (OF HAND AND PO	WER OPERATED	

LABOR CODE AND CLASS

GROUP 2		2024-11-18	33.00	11.50	44.50	
604	FOUR OR MORE AXLE UNIT, STRAIGH	T BODY TRUCK				
GROUP 3		2024-11-18	31.00	11.50	42.50	
605	BITUMINOUS DISTRIBUTOR DRIVER					
606	BITUMINOUS DISTRIBUTOR (ONE PER	BITUMINOUS DISTRIBUTOR (ONE PERSON OPERATION)				
607	THREE AXLE UNITS					
GROUP 4		2024-11-18	23.70	6.91	30.61	
608	BITUMINOUS DISTRIBUTOR SPRAY O	PERATOR (REAR AND OIL	ER)			
609	DUMP PERSON					
610	GREASER	GREASER				
611	PILOT CAR DRIVER					
612	RUBBER-TIRED, SELF-PROPELLED PAG	CKER UNDER 8 TONS				
613	TWO AXLE UNIT					
614	SLURRY OPERATOR					
615	TANK TRUCK HELPER (GAS, OIL, ROAD OIL, AND WATER)					
616	TRACTOR OPERATOR, UNDER 50 H.P.					
SPECIAL CRAFTS						
701	HEATING AND FROST INSULATORS	2024-11-18	17.50	2.79	20.29	
702	BOILERMAKERS	2024-11-18	46.00	31.93	77.93	
		2025-01-01	48.35	31.93	80.28	
703	BRICKLAYERS	FOR RATE CALL 651-28	4-5091 OR EMAIL			
	DLI.PREVWAGE@STATE.MN.US					
704	CARPENTERS	2024-11-18	37.65	27.08	64.73	
		2025-01-01	37.65	27.08	64.73	
		2025-05-01	42.85	27.08	69.93	
705	CARPET LAYERS (LINOLEUM)	FOR RATE CALL 651-28- DLI.PREVWAGE@STAT	4-5091 OR EMAIL <u>E.MN.US</u>			
706	CEMENT MASONS	2024-11-18	43.00	23.72	66.72	
707	ELECTRICIANS	2024-11-18	41.00	23.10	64.10	

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
711	GROUND PERSON	2024-11-18	16.63	6.38	23.01
712	IRONWORKERS	2024-11-18	46.00	34.11	80.11
713	LINEMAN	2024-11-18	50.86	23.06	73.92
714	MILLWRIGHT	2024-11-18	38.23	29.18	67.41
715	PAINTERS (INCLUDING HAND BRUSHED, HAND SPRAYED, AND THE TAPING OF PAVEMENT MARKINGS)	2024-11-18	33.91	23.49	57.40
716	PILEDRIVER (INCLUDING VIBRATORY DRIVER OR EXTRACTOR FOR PILING AND SHEETING OPERATIONS)	2024-11-18	45.71	29.73	75.44
		2025-01-01	45.71	29.73	75.44
		2025-05-01	49.46	30.23	79.69
717	PIPEFITTERS . STEAMFITTERS	2024-11-18	41.97	25.92	67.89
719	PLUMBERS	2024-11-18	51.04	30.58	81.62
		2025-05-01	54.79	30.58	85.37
721	SHEET METAL WORKERS	2024-11-18	40.88	25.10	65.98
723	TERRAZZO WORKERS	FOR RATE CALL DLI.PREVWAGE@	651-284-5091 OR ∃ <u>⊉STATE.MN.US</u>	EMAIL	
724	TILE SETTERS	FOR RATE CALL DLI.PREVWAGE@	651-284-5091 OR 1 2 <u>STATE.MN.US</u>	EMAIL	
725	TILE FINISHERS	FOR RATE CALL DLI.PREVWAGE@	651-284-5091 OR STATE.MN.US	EMAIL	
727	WIRING SYSTEM TECHNICIAN	2024-11-18	41.42	18.16	59.58
728	WIRING SYSTEMS INSTALLER	2024-11-18	29.02	16.46	45.48
729	ASBESTOS ABATEMENT WORKER	2024-11-18	39.86	24.61	64.47
		2025-01-01	41.23	25.49	66.72
		2025-05-01	41.23	25.99	67.22

LABOR CODE AND CLASS

730

SIGN ERECTOR

EFFECT DATE BASIC RATE FRINGE RATE TOTAL RATE

FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US

DEPARTMENT OF LABOR AND INDUSTRY

Jan. 6, 2025

Notice of truck rental rate certification and effective date

The Department of Labor and Industry (DLI) commissioner has certified the minimum truck rental rates for statefunded highway projects effective Jan. 6, 2025. This certification follows the publication of the Notice of Truck Rental Rate Determination in the State Register on Dec. 16, 2024, and the informal conference held pursuant to Minnesota Rules, part 5200.1105 on Dec. 27, 2024.

According to Minnesota Rules, part 5200.1105, the purpose of the informal conference was for DLI to obtain further input regarding the determined rates prior to the certification. No written input regarding the determination was received by DLI prior to the informal conference.

The truck rental rate is determined for each equipment type by adding the average hourly cost of operating the vehicle to the certified prevailing-wage rate for the driver. The average hourly operating costs are determined by voluntary survey of truck owner operators, trucking contractors and trucking firms. Cost data used in DLI's analysis must be representative of five trucking firms of various size and five independent truck owner operators for each type of truck.

The determination of the minimum truck rental rates by region are as follows.

Three-axle units

Region	Effective date	607 driver rate	Operating cost	Truck rental rate
Region 1	Certification date	\$61.54	\$37.35	\$98.89
	Increase April 28, 2025	\$64.83	\$37.35	\$102.18
Region 2	Certification date	\$54.57	\$37.35	\$91.92
	Increase April 28, 2025	\$57.49	\$37.35	\$94.84
Region 3	Certification date	\$54.57	\$37.35	\$91.92
	Increase April 28, 2025	\$57.49	\$37.35	\$94.84

Region	Effective date	607 driver rate	Operating cost	Truck rental rate
Region 4	Certification date	\$56.93	\$37.35	\$94.28
Region 5	Certification date	\$39.50	\$37.35	\$76.85
Region 6	Certification date	\$45.00	\$37.35	\$82.35
Region 7	Certification date	\$46.65	\$37.35	\$84.00
Region 8	Certification date	\$42.50	\$37.35	\$79.85
Region 9	Certification date	\$56.36	\$37.35	\$93.71
Region 10	Certification date	\$42.50	\$37.35	\$79.85

Four or more axle units

Region	Effective date	604 driver rate	Operating cost	Truck rental rate
Region 1	Certification date	\$61.65	\$51.50	\$113.15
	Increase April 28, 2025	\$64.95	\$51.50	\$116.45
Region 2	Certification date	\$54.72	\$51.50	\$106.22
	Increase April 28, 2025	\$57.65	\$51.50	\$109.15
Region 3	Certification date	\$ 39.60	\$51.50	\$91.10
Region 4	Certification date	\$53.73	\$51.50	\$105.23
Region 5	Certification date	\$26.00	\$51.50	\$77.50
Region 6	Certification date	\$54.25	\$51.50	\$105.75
Region 7	Certification date	\$46.15	\$51.50	\$97.65
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Region 8	Certification date	\$44.50	\$51.50	\$96.00
Region 9	Certification date	\$56.45	\$51.50	\$107.95
Region 10	Certification date	\$53.70	\$51.50	\$105.20

Tractor

Region	Effective date	602 driver rate	Operating cost	Tractor-only truck rental rate	Plus trailer operating cost	Tractor trailer rental rate
Region 1	Certification date	\$62.25	\$54.96	\$117.21	\$11.46	\$128.67
	Increase April 28, 2025	\$65.58	\$54.96	\$120.54	\$11.46	\$132.00
Region 2	Certification date	\$55.29	\$54.96	\$110.25	\$11.46	\$121.71
	Increase April 28, 2025	\$58.25	\$54.96	\$113.21	\$11.46	\$124.67
Region 3	Certification date	\$55.29	\$54.96	\$110.25	\$11.46	\$121.71
	Increase April 28, 2025	\$58.25	\$54.96	\$113.21	\$11.46	\$124.67
Region 4	Certification date	\$50.27	\$54.96	\$105.23	\$11.46	\$116.69
Region 5	Certification date	\$28.84	\$54.96	\$83.80	\$11.46	\$95.26
Region 6	Certification date	\$47.40	\$54.96	\$102.36	\$11.46	\$113.82
Region 7	Certification date	\$46.15	\$54.96	\$101.11	\$11.46	\$112.57
Region 8	Certification date	\$47.50	\$54.96	\$102.46	\$11.46	\$113.92

Region 9	Certification date	\$62.70	\$54.96	\$117.66	\$11.46	\$129.12
	Increase April 28, 2025	\$66.05	\$54.96	\$121.01	\$11.46	\$132.47
Region 10	Certification date	\$47.50	\$54.96	\$102.46	\$11.46	\$113.92

The current operating costs and truck rental rates may be reviewed by accessing DLI's website at https://dli.mn.gov/business/employment-practices/prevailing-wage-minimum-truck-rental-rates. Questions about the truck rental rates or the informal conference notice below can be answered by calling 651-284-5192.

The minimum truck rental rate for these four types of trucks in the State's 10 highway and heavy construction areas will be effective for all highway and heavy construction projects financed in whole or part with state funds advertised for bid on or after the day the notice of certification is published in the *State Register*.

Sincerely,

Nicole Blissenbach

DLI commissioner

DIVISION B - GENERAL REQUIREMENTS

B-1 APPROPRIATION & USE OF STATE WATERS

Before any waters of the State, surface or underground, are appropriated or used for construction purposes under this contract, the Contractor shall obtain written permission from the Department of Natural Resources, as required by Chapter 105.41, Minnesota Statutes. Application forms for the required permit may be obtained from the Department of Natural Resources, Centennial Building, St. Paul, MN 55101.

B-2 CERTIFICATE OF INSURANCE AND WITHHOLDING

The Contractor shall furnish the County with a Certificate of Insurance before construction operations begin and a Statement of Withholding before final payment is made.

The Contractor shall deposit with the Renville County Administrator, Certificates of Insurance verifying the coverage's and limits, as applicable to this project, of the Public

Liability and Property Damage Insurance and Extended Coverage Policies, required hereunder. The Contractor shall furnish Renville County with a certificate of insurance from the insurance company issuing the policies for Workers Compensation Insurance and such other insurance as is herein required. All policies and certificates shall provide that the policies remain in force and effect on sixty days (60) written notice to the County Administrator before cancellation. The above insurance policies shall be submitted at the same time as the Contract and Bond as provided in 1306.

The Contractor shall procure and maintain during the life of the Contract and until the Contract has been fully accepted, insurance policies as follows:

1. **Public Liability and Property Damage Insurance:**

For and in behalf of himself/herself, the County or Renville as joint assureds, and with a cross liability endorsement protecting the County of Renville from claims or damages for personal injuries, including accidental death, as well as for claims for property damage which may arise from operations under the Contract, whether such operations be by the Contractor or by a subcontractor or by anyone directly or indirectly employed by either of them.

Said Public Liability and Public Property Damage Insurance Policy shall provide that the insurance company waives the right to assert the immunity of Renville County as a defense to any claims under said insurance.

The amount of such insurance will be as follows: Public Liability insurance in an amount of not less than One Million Five Hundred Thousand Dollars (\$1,500,000.00) for all damages arising out of bodily injuries to, or death of one person and subject to the same limit for each person in a total amount of not less than One Million Five Hundred Thousand Dollars (\$1,500,000.00) on account of one accident, and property damage insurance in an amount of not less than One Million Five Hundred Thousand Dollars (\$1,500,000.00) on account of one accident, and property damage insurance in an amount of not less than One Million Five Hundred Thousand Dollars (\$1,500,000.00) for all damages to or destruction of property in any one accident and subject to that limit, a total limit of One Million

Five Hundred Thousand Dollars (\$1,500,000.00) for all damages to or destruction of property during the policy period.

2. Worker's Compensation Insurance:

For all his/her employees employed at the site of the project and, in case any work is sublet, the Contractor shall require the Subcontractor to provide Worker's Compensation Insurance for all his employees.

3. Automobile Public Liability Insurance:

One Million Five Hundred Thousand Dollars (\$1,500,000.00) for all damages arising out of bodily injuries to, or death of one person, and subject to that limit for each person, a total of One Million Five Hundred Thousand Dollars (\$1,500,000.00) for any one accident, and property damage liability insurance in an amount of not less than One Million Five Hundred Thousand Dollars (\$1,500,000.00) for all damages to or destruction of property during the policy period, if any motor vehicles are engaged in operations within the term of the contract on the site of work covering the use of all such motor vehicles unless such coverage is included in the insurance provided for under subsection "A" hereof.

The cost of all insurance required herein will be considered to be incidental expenses and no direct compensation will be made therefore.

4. Hold harmless and Indemnification Agreement:

The contractor agrees to defend, indemnify, and hold Renville County, its employees and officials harmless from any claims, demands, actions, or causes of action, including reasonable attorney's fees and expenses arising out of any act or omission on the part of the contractor, or its subcontractors, partners or independent contractors or any of their agents or employees in the performance of or with relation to any of the work or services to be performed or furnished by the contractor or the subcontractors, partners, or independent contractors or any of their agents or employees under the agreement.

B-3 EXISTING UTILITIES

All known existing utilities are shown on the plan in a general way only and the Owner does not warrant the exact locations. It shall be the Contractors responsibility to verify all existing utilities and to check with utility companies prior to bidding or starting work. The Contractor shall also be responsible for taking all necessary precautions to prevent damage to existing utility lines. The crossing, relocation, removal, shoring compaction and other protective procedures necessary to protect the utilities shall be considered incidental to the project.

The Contractor Shall:

1. Notify Gopher State One Call at 1-800-252-1166 or 811 prior to excavation for location of underground utility lines.

2. Notify local utility company personnel of schedule and sequence of work so that adequate control measures can be taken to locate and protect existing utility lines.

3. Cooperate with local utility company personnel in locating, moving, protecting and working around in place underground and above ground facilities.

B-4 <u>PRE-CONSTRUCTION CONFERENCE</u>

Prior to starting work, the Contractor shall meet with the Engineer to discuss the method and means of supply, a work schedule as to construction phases and a general review of the specifications. The schedule should address the phasing of construction so that inconveniences to property owners can be minimized.

B-5 <u>CLEANUP</u>

The Contractor shall be responsible for cleanup of the construction area and staging areas. All cleanup and restoration must be completed to the satisfaction of the Engineer prior to acceptance of the project and final payment.

B-6 <u>CONDITIONAL USE PERMITS</u>

All contractors are advised to familiarize themselves with chapter 7 of the Renville County Land Use Ordinance as it relates to Mining Regulations. This chapter along with any required interim use permit applications can be obtained from the Renville County Environment & Community Development Office at the County Office Building, 105 S. 5th St., Room 311, Olivia, MN 56277, (320) 523-3768. The cost of such permits shall be the responsibility of the contractor.

DIVISION S SPECIAL REQUIREMENTS SAP 065-601-017

S-1 <u>RESPONSIBLE CONTRACTOR</u>

The Department cannot award a construction contract in excess of \$50,000 unless the Bidder is a "responsible contractor" as defined in Minnesota Statutes §16C.285, subdivision 3. A Bidder submitting a Proposal for this Project must verify that it meets the minimum criteria specified in that statute by submitting the "Responsible Contractor Verification and Certification of Compliance" form. A company owner or officer must sign the "Responsible Contractor Verification and Certification of Compliance" form under oath verifying compliance with each of the minimum criteria. THE COMPLETED FORMS MUST BE SUMITTED WITH THE BID PROPOSAL.

A bidder must obtain a verification from each subcontractor it will have a direct contractual relationship with. At the Department's request, a bidder must submit signed subcontractor verifications. A contractor or subcontractor must obtain an annual verification from each motor carrier it has a direct contractual relationship with. A motor carrier must give immediate written notice if it no longer meets the minimum responsible contractor criteria. The requirement for subcontractor verifications does not apply to:

- Design professionals licensed under Minnesota Statutes §326.06; and
- A business or person that supplies materials, equipment, or supplies to a subcontractor on the Project, including performing delivering and unloading services in connection with the supply of materials, equipment, and supplies. But, a business or person must submit a verification if it delivers mineral aggregate such as sand, gravel, or stone that will be incorporated into the Work by depositing the material substantially in place, directly or through spreaders, from the transporting vehicle.

A bidder or subcontractor who does not meet the minimum criteria specified in the statute, or who fails to verify compliance with the criteria, is not a "responsible contractor" and is ineligible to be awarded the Contract for this Project or to work on this Project. Submitting a false verification makes the bidder or subcontractor ineligible to be awarded a construction contract for this Project. Additionally, submitting a false statement may lead to contract termination. If only one bidder submits a bid, the Department may, but is not required to, award a contract even if that bidder does not meet the minimum criteria.

S-2 WORKFORCE CERTIFICATE

The local agency cannot execute a contract for goods or services in excess of \$250,000 with a business that has 40 or more full-time employees in this state or a state where the business has its primary place of business on a single day during the prior 12 months, unless the business has a workforce certificate from the commissioner of human rights or has certified in writing that it is exempt. Bidders may find more information on the Workforce Certificate Requirement at Minnesota Statutes Section 363A.36 or at this website:

https://mn.gov/mdhr/certificates/workforce-certificate/

S-3 <u>PROTECTION OF FISH AND WILDLIFE RESOURCES</u> REVISED 03/28/25

S-3.1 Compliance with Environmental Documentation

The Project is located in an area with protected fish & wildlife resources and/or threatened & endangered species. The Contractor must protect these resources in accordance with State and Federal regulations and must implement all applicable avoidance and minimization measures (AMMs).

A POLLINATOR PROTECTION

Contractor must not apply insecticides or fungicides.

Contractor must minimize the use of herbicides. If herbicides are to be used, Contractor must apply herbicides via spot treatments. Contractor must not apply herbicides through broadcast applications, including but not limited to, aerial applications or vehicle mounted sprayers.

Contractor must contact the Department's wildlife ecologist (protectedspecies.dot@state.mn.us) if exceptions are requested.

B BALD EAGLE PROTECTION

Bald Eagles are protected by the Bald and Golden Eagle Protection Act. No Bald Eagle nests are known within the project limits. However, if a Bald Eagle nest is discovered during Project activities, Contractor must stop Work and immediately report Bald Eagle nests to the Department's wildlife ecologist at

protectedspecies.dot@state.mn.us. Contractor must not Work within 300 feet of a Bald Eagle nest at any time. This includes foot traffic, vehicle parking, and/or equipment or material staging.

C MIGRATORY BIRD PROTECTION

C.1 Soil Stockpiles

The Contractor must protect soil stockpiles when any surface remains unused for 72 hours or more. To prevent birds from nesting, the Contractor must either cover the surface with fabric or tarps or grade the surface to a slope no steeper than 65 degrees.

S-4 (1203) ACCESS TO PROPOSAL PACKAGE

The provisions of MnDOT 1203 are modified with the following:

The Department will provide Bidders with access to the Proposal Package through the Renville County OneOffice dashboard website: https://mn-co-renville.app.rtvision.com/oneoffice/bidding

S-5 (1206) PREPARATION OF PROPOSAL

The provisions of MnDOT 1206 are supplemented and/or modified with the following:

S-5.1 Paragraphs 1 and 2 of MnDOT 1206.1 are hereby deleted from the MnDOT Standard Specifications and replaced with the following:

The Bidder shall use the electronic submittal process. The Bidder shall submit the electronic Proposal in accordance with the instructions using BidVAULT.

The Bidder shall submit its Proposal by the date and time for opening Proposals. BidVAULT will not accept Proposal past the date and time of the opening of proposals.

S-5.2 MnDOT 1206.2 is hereby deleted from the MnDOT Standard Specifications:

S-6 (1302) AWARD OF CONTRACT

The provisions of Mn/DOT Spec. 1302 are hereby supplemented by the following:

- 1 The right is reserved to send to the successful bidder the necessary contract and bond forms and a notice that the contract has been awarded to him, at any time within 10 calendar days after the date on which Proposals are opened.
- 2 As a condition precedent to the award of contract, the bidder shall furnish proof that he is in compliance with Minnesota Statutes, Section 363, as amended by Laws of 1969, implementing the rules and regulations of the Minnesota Department of Human Rights.

S-7 (1404) MAINTENANCE OF TRAFFIC, (1707) PUBLIC SAFETY, AND (2563) TRAFFIC CONTROL

The provisions of 1404 are supplemented as follows:

The Contractor shall furnish, install, maintain, and remove all traffic control devices required to provide safe movement of vehicular and/or pedestrian traffic passing through the work zone during the life of the Contract from the start of Contract operations to the final completion thereof. The Engineer will have the right to modify the requirements for traffic control as deemed necessary due to existing field conditions.

Traffic control devices include, but are not limited to, barricades, warning signs, trailers, flashers, cones, drums, pavement markings and flaggers as required and sufficient barricade weights to maintain barricade stability.

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.	Renville County Public Works	(320) 523-3759
2.	Renville County Sheriff	(320) 523-1161

The Contractor shall, at the pre-construction conference, designate a Work Zone Safety Coordinator who shall be responsible for safety and traffic control management in the Project work zone. The Work Zone Safety Coordinator shall be either an employee of the Contractor such as a superintendent or a foreman, or an employee of a firm which has a subcontract for overall work zone safety and traffic control management for the Project. The responsibilities of the Work Zone Safety Coordinator shall include, but not be limited to:

- Coordinating all work zone traffic control operations of the Project, including those of the Contractor, subcontractors and suppliers.
- Establishing contact with local school district, government, law enforcement, and emergency response agencies affected by construction before work begins.
- Maintaining a record of all known crashes within a work zone. This record should include all available information, such as: time of day, probable cause, location, pictures, sketches, weather conditions, interferences to traffic, etc. These records shall be made available to the Engineer upon request.

The Contractor shall inspect, on a daily basis, all traffic control devices, which the Contractor has furnished and installed, and verify that the devices are placed in accordance with the Traffic Control Layouts, these Special Provisions, and/or the MN MUTCD. Any discrepancy between the placement and the required placement shall be immediately corrected. The person performing the inspection shall be required to make a daily log. This log shall also include the date and time any changes in the stages, phases, or portions thereof go into effect. The log shall identify the location and verify that the devices are placed as directed or corrected in accordance with the Plan. All entries in the log shall include the date and time of the entry and be signed by the person making the inspection. The Engineer reserves the right to request copies of the logs as he deems necessary.

Measurement and Payment:

No measurement will be made of the various Items that constitute Traffic Control but all such work will be construed to be included in the single Lump Sum payment under Item 2563.601 (Traffic Control).

S-7.1 BASIS OF PAYMENT

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

Traffic Control Partial Payments			
Percent of Original	Pay this Percentage		
Contract Completed	of Traffic Control		
5	50		
10	75		
50	95		
All Work Completed	100		
And All Traffic Control Removed			

Table SP2563-2

S-8 (1507) UTILITY PROPERTY AND SERVICE

The provisions of MnDOT 1507.3 are hereby deleted and replaced with the following:

The Contractor shall be held liable for damage to all utilities, known and unknown, underground or otherwise and any sub-surface drainage to be left in place.

S-9 (1515) CONTROL OF HAUL ROADS

The provisions of MnDOT 1515 are supplemented as follows:

The Contractor shall make arrangements with the haul road owner(s) prior to any hauling operations. The Contractor shall be responsible for all maintenance (blading, dust control, etc.) and restoration needed to return each haul road to a condition satisfactory to the haul road owner(s). Upon completion of the contract and prior to final payment the Contractor shall provide to the Engineer, a written haul road release from the haul road owner(s), relieving the Contractor of any further obligations to the haul road(s). All costs related to maintaining and restoring the haul road(s) shall be at the Contractor's expense.

S-10 (1601) SOURCE OF SUPPLY AND QUALITY

The provisions of Mn/DOT 1601 are supplemented as follows:

In conformance with the provisions of the U.S. Code of Federal Regulations 23CFR635.410 the Contractor will furnish and use only steel and iron materials that have been melted and manufactured in the United States,. Foreign source materials are any domestic products taken out of the United States for any process (e.g. change of chemical content, permanent shape or size, or final finish of product).

All bids must be based on furnishing domestic iron and steel, which includes the application of the coating, except where the cost of iron and steel materials incorporated in the work does not exceed one-tenth of one percent of the total Contract cost or \$2,500.00, whichever is greater. The state may approve the use of foreign iron and steel materials for particular Contract items, provided the bidder submits, a stipulation identifying the foreign source iron and/or steel product(s) and the estimated invoice cost of the product(s), for one or more of the

Contract bid items. The Contractor shall submit a "Stipulation for Foreign Iron or Steel Materials" form for each stipulation with the Contractor's proposal. If the Contractor chooses to use ANY non-domestic iron or steel, the Contractor must submit a stipulation with the proposal.

Prior to performing work the Contractor shall submit to the Engineer a certification stating that all iron and steel items supplied are of domestic origin, except for non-domestic iron and steel specifically stipulated and permitted in accordance with the paragraph above.

Source of Supply and Quality: MnDOT 1604 is supplemented as follows: All costs of shop inspection at plants outside the United States shall be borne by the Contractor. Monies due or to become due the Contractor will be reduced according to these costs.

<u>Partial Payment</u>: All provisions for partial payments shall apply to domestic materials only. The Contractor will not receive payment for materials manufactured outside of the United States until such materials are delivered to the job site.

<u>Alternate Bidding Process</u>. Unless an alternate bidding process is specified, use of foreign steel and iron products in quantities in greater than provided above is not permitted. When the alternate bidding process is permitted the Contract may be awarded to the bidder who submits the lowest total bid based on furnishing domestic iron or steel unless such total bid exceeds the lowest total bid based on foreign materials by more than 25 percent.

S-11 (1602) NATURAL MATERIAL SOURCES

Aggregate shall be produced in accordance with the provisions of Mn/DOT Spec. 3138 except as modified below:

The required aggregates shall be furnished by the Contractor from sources selected by him/her. The Contractor shall make his/her own arrangements with the pit owner for the purchase of aggregate and shall pay the owner directly for all materials removed. The Contractor shall insure the quality of aggregate material to meet specifications. Any cost incurred to correct a deficiency of aggregate shall be borne by the Contractor.

S-12 (1603.2) SAMPLING AND TESTING

The first paragraph is hereby deleted and replaced with the following:

Sampling and testing of materials for this project will be in accordance with the 2024 State Aid for Local Transportation (SALT) "Schedule of Materials Control – Local Government Agency" (SMC-LGA). This schedule establishes the size of samples and the minimum rate of testing, but in no way affects Specification requirements for the material.

The Certification of Aggregates shall be sent to the County Engineer <u>10 days</u> prior to placing Aggregate Base or Shoulder Base Aggregates

S-13 (1701) LAWS TO BE OBSERVED RESTORED AND REVISED 06/30/23 SP2020-33

S-13.1 Delete and replace the second paragraph of MnDOT 1701.5B with the following:

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-13.2 Add the following to MnDOT 1701:

1701.6 EQUAL PAY

The Department cannot execute a Contract in excess of \$1,000,000 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 website (mn.gov/mdhr/certificates/equalpay).

1701.7 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 "<u>Employment Taxes & Employer Responsibilities Seminar</u>" or similarly offered classes. You can find a schedule and more information on the <u>Department of Revenue</u> 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 website (www.revenue.state.mn.us).

1701.8 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-14 (1701) LAWS TO BE OBSERVED – CARGO PREFERENCE ACT, USE OF UNITED STATES - FLAGGED VESSELS REVISED 07/23/21

The provisions of 1701 are supplemented with the following:

S-14.1 The Contractor must comply with requirements of the Cargo Preference Act (46 USC §55305) and its implementing regulations (46 CFR §381).

S-14.2 The requirements of 46 CFR § 381.7 (a) and (b) are incorporated into this Contract by reference. The Contractor must include or incorporate this provision in all subcontracts.

S-15 (1707) PUBLIC CONVENIENCE AND SAFETY RESTORED 06/30/23 SP2020-43

S-15.1 Add the following to MnDOT 1707:

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-16 (1712) PROTECTION AND RESTORATION OF PROPERTY

Protection and Restoration of Property shall be performed in accordance with the provisions of Mn/DOT Spec. 1712 except as modified below:

Renville County shall not be held liable for any damage done by the Contractor to property located above or below the ground, within the Right of Way, even though the existence of such property was not shown in the Plans, indicated in the Special Provisions, or brought to the Engineer's attention before the damage was done.

S-17 (1717) AIR, LAND, AND WATER POLLUTION *NEW 06/28/24*

S-17.1 Add the following to MnDOT 1717.2:

The Contractor shall not use recycled concrete aggregate (RCA) in temporary work such as causeways, staging areas, or stockpiles that will be in contact with surface water or groundwater. The Contractor shall:

- 1) Manage stormwater runoff from temporary work such as laydown areas, staging areas, and stockpiles that contain RCA. Prevent any discharge outside of construction limits or into surface water of water that is turbid or has a pH of greater than 8.5 or less than 6.0.
- 2) Monitor runoff from temporary work containing RCA during every stormwater inspection. Check for pH and turbidity. Monitor more frequently if needed to maintain acceptable clarity and pH.
- 3) Provide a Site Management Plan showing how they will manage stormwater runoff, monitor the pH and clarity of runoff, and isolate crushed concrete from surface water and groundwater as described above.

S-18 (1801) SUBLETTING OF CONTRACT

The provisions of MnDOT 1801 are modified as follows:

S-18.1 For Projects in excess of \$50,000, the Contractor may sublet work only to subcontractors that meet the definition of "responsible contractor" in Minnesota Statutes §16C.285, subdivision 3. The Contractor shall obtain verifications of compliance with §16C.285 from subcontractors using a form provided by the Department. The Contractor must provide such verifications to the Department upon the Department's request.

S-18.2 The third paragraph of MnDOT 1801 is modified to read:

On Contracts with Disadvantaged Business Enterprise (DBE), the Contractor's organization shall perform Work amounting to not less than 30 percent of the total original Contract Amount. The Department will deduct specialty items from the total original Contract Amount before calculating the amount of Work that the Contractor shall perform.

S-19 (1803) PROSECUTION OF WORK

The provisions of Mn/DOT Spec. 1803 are modified to the extent that the "Progress Schedule" (bar chart or critical Path diagram) referenced to in 1803.1 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 1803.2; and (2) prosecuting the work diligently, as required therein, so as to assure satisfactory progress towards a timely completion of the Project.

S-20 (1806) DETERMINATION AND EXTENSION OF CONTRACT TIME

The Contract Time will be determined in accordance with the provisions of Mn/DOT Specification 1806 and the following:

S-20.1 Contract start date shall be 8 days after Notice of Contract Approval

S-20.2 Contractor must complete all Work for SAP 065-601-017 to meet the requirement of 1516.2 (Project Acceptance) under this Contract before September 12, 2025.

S-21 (1807) FAILURE TO COMPLETE THE WORK ON TIME

The provisions of MnDot Specification 1807.1 are supplemented with the following:

S-21.1 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 1516.2 (Project Acceptance). The Engineer will deduct liquidated damages based on the original Contract Amount and Table 1807.1-1.

S-22 (1903) COMPENSATION FOR INCREASED OR DECREASED QUANTITIES

The first paragraph of MnDOT 1903 Compensation for Altered Quantities is hereby deleted and replaced with the following:

If the Department pays for Work of a Contract Item on an actual quantity basis and the accepted quantities of works vary from the quantities in the contract, the Department will pay for the work of the Contract item as follows: Renville County reserves the right to increase or decrease quantities of any item without adjustments to the contract unit price.

S-23 (1906) PARTIAL PAYMENTS

The provisions of MnDOT 1906 are supplemented as follows:

Pursuant to Minnesota Statute 15.72, Partial payments in excess of 95 percent of the value of the completed contract prior to substantial completion will not be made under this contract.

S-24 (2016) QUALITY MANAGEMENT – INTELLIGENT CONSTRUCTION TECHNOLOGY METHODS

REVISED 09/27/24

<u>SP2020-70</u>

S-24.3 DESCRIPTION

This Work consists of using Intelligent Construction Technology (ICT) to monitor compaction and placement operations in accordance with MnDOT 2215 Stabilized Full Depth Reclamation (SFDR), 2390 Cold-In-Place Recycled (CIR) Bituminous and Cold Central Plant Recycling (CCPR) Bituminous, 2353 Ultrathin Bonded Wearing Course (UTBWC), 2360 Plant Mixed Asphalt Pavement and 2365 Stone Matrix Asphalt (SMA).

ICT consists of Paver Mounted Thermal Profile (PMTP) and Intelligent Compaction (IC) Methods.

PMTP Method continually monitors the surface temperature of the mat immediately behind the trailing edge of the paver screed during placement operations.

IC Method continually monitors compaction efforts during grading and/or asphalt paving operations.

A Definitions

For the purpose of the Work specified in this Special Provision, (2016) Quality Management – Intelligent Construction Technology Methods, the Department defines:

A.1 All ICT Methods

Driving Lane

See Traffic Lane.

Intelligent Construction Technology

Equipment that geo-references measurements using a Global Navigation Satellite System (GNSS) (e.g., IC, PMTP, automated machine guided milling, etc.).

Layer

Total thickness of each material type. It may be comprised of single or multiple Lifts.

Multi-Dimensional File

A digital file that consists of two or more dimensions (e.g., 2, 3, 4, or 5 dimensional [D]).

Site Calibration

Process of comparing GNSS measurements on known coordinates and creating a "best fit" (least squares adjustment) for the coordinate grid by scaling

and rotating grid to fit the measurements. This allows more accurate GNSS Work as a result of the site being adjusted to a "local" coordinate system.

Thru Lane

See Traffic Lane.

2D Horizontal Alignment

A Multi-Dimensional File that consists of a digital file that is two dimensional (2D). The horizontal alignment of a roadway is defined geometrically as a series of horizontal, straight-line tangents, circular curves, and spiral transitions. The curves allow for a smooth transition between tangent sections. **Veta**

Standardized intelligent construction data management (ICDM) software that stores, maps and analyzes geospatial data resulting from ICT. This software can perform standardized data processing, analysis and reporting to provide Project summary results from various ICT manufacturers. In particular, the software can provide statistics, histograms, correlations for these measurements, document coverage area and evaluates the uniformity of the ICT measurements as part of the Project Quality Control operations. Veta can be downloaded from the AMT Website.

A.2 PMTP Method

Paver Mounted Thermal Profile (PMTP) Method

This method continually monitors paving speeds and Surface Temperature Measurements of the mat immediately behind the paver screed during placement operations.

Standard Deviation (StDev)

The sample standard deviation of the Surface Temperature Measurements. This value reflects the variability of Surface Temperature Measurements within a data sublot.

Surface Temperature Measurements

The temperatures of the mat immediately behind the trailing edge of the screed plate during placement operations.

Thermal Profiles

Surface Temperature Measurements and associated GNSS coordinates and time stamps measured by the PMTP system.

Thermal Segregation Index (TSI)

A composite index of the variability of Surface Temperature Measurements (StDev) and the transverse variability of Surface Temperature Measurements (presence of longitudinal thermal streaking [TSV Index]) within a data sublot.

Transverse Semivariogram (TSV) Index

This index reflects the transverse variability in Surface Temperature Measurements (i.e., presence of longitudinal thermal streaking).

A.3 IC Method

Cumulative Measurement Pass Count

The Gridded Final Coverage Data for pass count (the number of passes). The pass count reflects the number of roller passes in one area (e.g., 1 feet by 1 feet area), not the total number of passes across the width of the production area for a given roller.

Gridded Final Coverage Data

Data that summarizes the final (last) Measurement Pass recorded for a given grid (e.g., total pass count, last stiffness, last temperature). Grid sizes are typically at a mesh size of 1 feet in the X and Y direction for post-processed data.

Gridded All Passes Data

Includes all Measurement Passes recorded for a given grid.

Instrumented Roller

A self-propelled roller integrated with a GNSS and an onboard documentation system that can display real-time color-coded maps of roller location, number of passes, roller speeds, and amplitude and vibration frequencies of the roller drum. Some systems are also equipped with drum vibration instrumentation, temperature sensors, and/or automatic feedback control. The onboard documentation system on these rollers would also display real-time colorcoded maps of stiffness response or pavement surface temperatures, or both.

Intelligent Compaction

Compaction using an Instrumented Roller.

Measurement Pass

A roller pass performed by an Instrumented Roller where all required information, per this provision, is recorded in a data file.

Minimum Required Pass Count

The minimum number of passes required to achieve the Minimum Required Roller Coverage. The Minimum Required Pass Count is equal to 1 (Measurement Pass) times the number of Instrumented Rollers used for the given data lot. Instrumented Rollers working in tandem are counted as one Instrumented Roller.

Minimum Required Roller Coverage (RC)

The percent of required compaction area where the Minimum Required Pass Count is achieved.

S-24.4 MATERIALS – BLANK

S-24.5 CONSTRUCTION REQUIREMENTS

A General

The guides, forms and Veta software are available on the MnDOT Advanced Materials and Technology (AMT) Website.

A.1 Required Measurement Locations

ICT methods are required when the contract net length is greater than or equal to 2 miles for materials requiring the ICT.

Collect ICT measurements on 100 percent of Traffic Lanes, E-ZPass lanes (including buffer), continuous left turn lanes, and passing lanes.

ICT measurements are not required on the following: roundabouts (exclude the Traffic Lane between the roundabout and mainline transition prior to and after the radius point of the roundabout), Frontage Roads (or Streets), Traffic and Auxiliary Lane tapers, Ramps, Shoulders, cross-overs, right turn lanes, J-turns, non-continuous left Turn Lanes, Loops, bypass lanes, and acceleration/deceleration lanes.

ICT measurements are not required on areas of excavation (that are below the Layer requiring the ICT method) that are less than or equal to 750 linear feet.

A.2 2D Horizontal Alignment

The Engineer will provide the 2D Horizontal Alignment (in a LandXML format).

Convert the 2D Horizontal Alignment, as needed, for use with the Intelligent Construction Technology. The Department does not guarantee the accuracy and compatibility of electronic data after any electronic conversions are executed by the Contractor.

The Engineer is allowed five Working Days to review proposed modifications and/or to update files with the Engineer accepted changes requested by the Contractor.

Use the latest accepted version of the 2D Horizontal Alignment file(s). Load 2D Horizontal Alignment file onto the onboard data acquisition system of each Instrumented Roller and onto the onboard acquisition system of PMTP systems that allow for import of these files.

A.3 Equipment

Use a survey grade GNSS Rover Receiver during Site Calibration and coordinate checks. Data collector will use the MN County Coordinate system, zone and geoid model. Collect the XYZ coordinates in the MN County Coordinate system, zone and vertical datum used in the design and alignment file(s).

All ICT system(s) collect coordinates, unless otherwise specified, in MN County Coordinate System and zone used in design and alignment file(s) using NAD83 (adjustment as specified by the Department) and NAVD88 vertical datum.

All ICT systems require a modem, or Wi-Fi, an onboard data acquisition system, GNSS, and ability to connect to a local ground base station and VRS network. Use modem or Wi-Fi to transfer data to cloud storage and to connect to VRS network.

All ICT system data acquisition systems will: store data internally until data transfer, automatically transfer data to cloud storage, and allow operator to define data lot where ICT measurements are currently being collected per Tables SP2016-1 and SP2016-2.

A.4 Control Points

Engineer will set temporary control points (within the paving and/or compaction limits requiring the ICT), prior to the Project start date for use in the Site Calibration. Permanent control points can be used; however, the Engineer will verify coordinates for these points to confirm no disturbances. Set control points as follows:

- (1) 2D control points at an accuracy of 0.1 feet or less in the X and Y directions.
- (2) 3D control points at an accuracy of 0.1 feet or less in the X, Y and Z directions.
- (3) Clear line of site to satellites to allow for Site Calibration.
- (4) Alternating, maximum distance of one every 3 miles within 150 feet of the centerline.
- (5) A minimum of 5 control points.

A minimum of 3 of the 5 control points are equally spaced 3D, while the remaining control points are 2D or 3D.

Set 2 control points at both the starting and ending limits (totaling 4 control points). Set a minimum of 1 of the 2 control points at the starting limits and 1 of the 2 control points at the ending limits, as 3D.

Engineer will provide a Project map (indicating locations of control points) and control point coordinate information (in a *txt or *csv format), for both permanent and temporary control points. Engineer will include the following information in the coordinate file(s):

- (1) Point Name
- (2) X coordinate (Easting)
- (3) Y coordinate (Northing)
- (4) Z coordinate (Elevation)
- (5) Point Code / Description

Engineer will include available Department geodetic data sheets that are relevant to Project limits.

A.5 Site Setup and Calibration

Complete site setup and calibration prior to efforts requiring an ICT method.

Use the MN county coordinate system and zone for Site Calibration by connecting to a RTK-GPS using either a local, ground-based station(s) or the Departments VRS network.

A.6 Field Stationing

Field station markers, when used, will match the centerline stationing in design and alignment files.

A.7 Data Lot Establishment for ICT Measurement Data Establish data lots for ICT measurement data per Table SP2016-1.

Specification	Descriptio n	Day	Materia 1 Type	Lift	Centerlin e Offsets	Directio n of Travel
2353, 2360*, 2365*	Undivided Highway	Х	X	Х	Х	(Blank)
2353, 2360*, 2365*	Divided Highway	Х	X	Х	Х	Х
2215 (SFDR), 2390 (CIR and CCPR)	Undivided Highway	Х	X	Х	Х	(Blank)
2215 (SFDR), 2390 (CIR and CCPR)	Divided Highway	Х	Х	Х	Х	Х
* Centerline offsets (used in Veta) will reflect the offsets for the required traffic or auxiliary						

Table SP2016-1 Data Lot Establishment Criterion

lane paved by each paver when paving in echelon.

Name data lots using standardized format per Tables SP2016-2 and SP2016-3. Store data lot designations digitally with associated ICT measurement data.

Standardized Naming Co	nvention for Data Lots			
Standardized Format *	Definition			
ROUTE-MATL-L-LEFT-RIGHT	Undivided Highways			
ROUTE-MATL-L-LEFT-	Divided Highways			
RIGHT-DT †				
* Add an additional designation behind ROUTE for instances				
where more than one Site Calibration is needed within Project				
limits. For example, a Site Calibration was completed for the				
northern and southern limits of the Project – a "N" and "S" would				
be added immediately behind ROUTE [TH68N-HMA-L1-12L-CL,				
TH68S-HMA-L1-12L-CL]).				
Example of standardized format: TH68-HMA-L1-12L-CL				
[†] Example of standardized format: TH68-HMA-L1-12L-CL-NB				

Table SP2016-2 1 1.

Standardized Naming	Replacement	Full Name or Meaning of
Convention	Acronym	Replacement Acronym
Abbreviation	7 teronym	
ROUTE*	CR	County Road
ROUTE*	CSAH	County State Aid Highway
ROUTE*	MS	Municipal Street
ROUTE*	MSAS	Municipal State Aid Street
ROUTE*	TH	Trunk Highway
		(2215) Stabilized Full Depth
	CEDD D	Reclamation –
	SFDK-P	Initial Pulverization and Compaction
		per 2215.3.B
		(2215) Stabilized Full Depth
		Reclamation –
MATL	SFDR-I	Final Pulverization, Mixing
		(Injection) and Compaction per
		2215.3.C
MATL	CIR	(2390) Cold Inplace Recycled
		Bituminous
MATL	CCPR	(2390) Cold Central Plant Recycling
MATL	UTBWC	(2353) Ultrathin Bonded Wearing
		Course
MATL	HMA	(2360) Hot Mix Asphalt
MATL	WMA	(2360) Warm Mix Asphalt
MATL	SMA	(2365) Stone Matrix Asphalt
MATL	LVL	(2360) Leveling Courses
L†	L1, L2, L3,	Lift 1, Lift 2, Lift 3, Lift n
	Ln	
LEFT ‡,#	24L, 12L,	The example acronyms are for 24
	CL, 12R,	left, 12 left, centerline, 12 right, 24
	24R, etc.	right, etc.
RIGHT # ,§	24L, 12L,	The example acronyms are for 24
~	CL, 12R,	left, 12 left, centerline, 12 right, 24
	24R, etc.	right, etc.
DT **	NB	North Bound
DT **	SB	South Bound
DT **	EB	East Bound
DT **	WB	West Bound

Table SP2016-3 Standardized Abbreviations for Data Lots

Standardized Naming Convention Abbreviation	Replacement Acronym	Full Name or Meaning of Replacement Acronym		
* Replace "ROUTE" with route system, as designated by acronym,				
immediately followed b	y route number	(e.g., TH12).		
Replace "MATL" wi	th material type	, as designated by acronym (e.g.,		
Η̈́MA).				
† Replace "L" with Lift number, as designated by acronym (e.g., L1).				
‡ Replace "LEFT" with offset for left edge of production, or compaction area				
requiring ICT method (e.g., 12L).				
# The offset is the distance (rounded to the whole number) from the centerline				
to left or right edge of production area with respect to the centerline, facing in				
the direction of increasing stationing. Stationing typically increases from				
West to East and South to North.				
§ Replace "RIGHT" with offset for right edge of production, or compaction				
area requiring ICT method (e.g., 12R).				
** Replace "DT" with c	lirection of trav	el, as designated by acronym (e.g.,		
NB).				

A.8 ICT Measurement Data and Collection

Provide Engineer with access to cloud storage and cloud computing prior to start of using the ICT method. Cloud storage data is accessible until ninety Calendar days after final acceptance of all Work per 1516.2.

ICT measurements will meet requirements of AASHTO MP39 "File Format of Intelligent Construction Data" or be compatible with Veta software.

Date and time stamp of ICT measurements will reflect the local time zone for both mapped and exported data.

Use MN County Coordinate System and zone during ICT measurement collection using local ground base station(s) or VRS network.

Use local ground base station(s) when VRS network connection is intermittent, or not available.

Setup and use local ground base station within 2 hours of onset of MnDOT VRS Network problems and continue to use local ground base station until MnDOT resolves issue and Network becomes available for use again.

Export raw or gridded data as dbase ASCII or Text Format, directly into Veta (if a proprietary file format compatible with Veta is available), or through a direct transfer of data from cloud storage to Veta.

A.9 ICT Data Analyses and Mapping

A.9.a Required Training for Veta Software Operator

Provide a software operator that is knowledgeable in use of Veta and has taken class provided by Department. A list of Veta Software Operators that have completed the required training, along with expiration dates, is available on the AMT website. A.9.b Veta Software

Use Veta software to map and analyze ICT measurement data. Produce *.VETAPROJ filenames in the "SPXXXX-XXX ROUTE MATL Version Date Final" standardized format per Table SP2016-4.

Use the version of Veta at the time of letting, or the latest version at the Contractor's option, should a subsequent version become available that provides a more efficient Contractor operation. Download Veta software from the AMT Website.

Create a Veta Project per County (e.g., SP1234-56 TH78 HMA V6.0.40 07.10.19 FINAL Carlton; SP1234-56 TH78 HMA V6.0.40 07.10.19 FINAL Pine).

Table SP2016-4
Standardized Naming Convention for VETAPROJ Files *

Abbreviation	Definition	
SPXXXX-XXX	State Project Number	
ROUTE	Route Designation, see Table 2016-3 for listing of replacement acronyms.	
MATL	Material/Surface Type, see Table 2016-3 for listing of replacement	
	acronyms.	
VERSION	Version of the Veta software used to create the Veta Project.	
DATE	Date of Veta file (differentiates between each version of submittals). Use	
	the format MM.DD.YY	
FINAL	Add word "FINAL" to indicate final submittal for review by Engineer.	
* Example of filename: SP1234-56 TH78 HMA V6.0.40 07.10.19 FINAL.		
Add County name at end of Veta Project file name for instances where design and		
alignment files were created for multiple counties.		

 A.9.c Creation of Filter Groups and Operation Filter Names in Veta Create filter groups and operation filter names using the "LOT MMDDYY LOTNAME" standardized format per Table SP2016-5.

Standardized Naming Convention for Veta Filter Group and Operation Filter Names*

Abbreviation	Definition
	Data Lot Number. Data lot number is a two-digit number increasing
LOT	sequentially (01, 02, 03,, n). Create filter groups and operation
	filters in sequential order with respect to data lot dates.
MM	Month
DD	Day of Month
YY	Two-digit year
LOTNAME	Data Lot Name per Tables SP2016-2 and SP2016-3
* Example Filter G	roup and Operation Filter Names: 01 070915 TH12-HMA-L1-CL-12R,
02 071015 TH12-H	MA-L1-CL-12R

A.10 Submittals

A.10.a ICT Data Submittal

Store ICT measurement data internally on data acquisition system until automated transfer of data to cloud storage. Automatically transfers data directly from ICT system to cloud storage within 15-minute intervals, or a minimum of once per day when limited data cellular coverage.

A.10.b Data Lot Stationing

Engineer will provide data lot stationing daily using form AMT-106. Engineer will complete a separate AMT-106 form for each material type requiring an ICT.

A.10.c Veta Projects and Forms

Submit the first Veta Project(s) and the forms specified in Table SP2016-6 to Engineer no later than 3 Calendar Days after starting ICT method. Submit updated Veta Project(s) and forms to Engineer at least 2 non-consecutive days per calendar week. Submit the final version of the Veta Project(s) and required form(s) no later than 14 Calendar Days of completion of ICT method per material type.

Required Submittal Forms			
ICT Method	Forms*		
IC	AMT-103 (Roller Coverage), AMT-107-108 (Veta project review)		
DMTD	AMT-101 (thermal coverage), AMT-102 (Thermal		
Segregation Index), AMT-107-108 (Veta project review)			
* Use version of forms associated with version of Veta being used.			
Complete AMT-107-108 form using final submittal files.			

Table SP2016-6

B PMTP Method

Use PMTP method on 2360 (Plant Mixed Asphalt Pavement) and 2365 (Stone Matrix Asphalt) for lifts 1 inch or greater in thickness.

- B.1 Equipment Requirements
 - B.1.a PMTP System Requirements

Provide a PMTP system that functions independently from paving crew during normal paving operations and is calibrated according to Manufacturer's recommendations. Operator is not required for continuous data collection.

The following components are required:

- (1) Temperature sensor to continuously monitor surface temperature of mat.
 - (a) Longitudinal and lateral Surface Temperature Measurements are collected at 1-foot or less intervals at all paving speeds with an X-Y accuracy of plus or minus 1 inch.
 - (b) Surface Temperature Measurements are collected for entire width of required Traffic and Auxiliary Lanes paved in 1 pass.

- (c) Surface temperature sensor(s) has a temperature range of at least 140°F to 480°F. Sensor accuracy is plus or minus 3.6°F, or plus or minus 2.0 percent of sensor reading, whichever is greater.
- (2) GNSS to capture coordinates of the Surface Temperature Measurements. GNSS accuracy is plus or minus 2 inches or less in X and Y Directions. Include the GNSS accuracy level in the PMTP Veta imports, or do not include PMTP data in the Veta import for those locations where the GNSS accuracy exceeds plus or minus 2 inches in the X and Y directions.
- (3) Onboard data acquisition with a minimum of the following capabilities:
 - (a) Displays (in real-time) map of the Surface Temperature Measurements.
 - (b) Displays total distance, paver speed and location.
 - (c) Reports Surface Temperature Measurements and GNSS status.
 - (d) Provides real-time statistical summaries of Surface Temperature Measurements.

B.1.b PMTP System Setup on Paver(s)

Instrument pavers that are paving required Traffic and Auxiliary Lanes with PMTP System. Engineer has the right to waive use of PMTP system on secondary pavers temporarily used in echelon paving.

Collect measurements at a distance no less than 3 feet and no greater than 12 feet of trailing edge of screed plate.

Ride brackets and plates used for pavement Smoothness will not impede lateral Surface Temperature Measurements for more than 2, 10inch-wide lateral regions of Surface Temperature Measurements. Other objects will not obstruct Surface Temperature Measurements and GNSS accuracy.

B.2 Measurement Lifts

Collect PMTP measurements on 100 percent of each Lift for required Traffic and Auxiliary Lanes.

B.3 Data Sublot Establishment Using Veta

Divide data lot into 150-linear feet data sublots and last data sublots that are partial data sublots as follows:

- (1) Data lot is 150 linear feet or greater
 - (a) Combine a partial last data sublot that is less than 75 linear feet with the previous data sublot.

- (b) Treat a partial last data sublot that is 75 linear feet or greater as one data sublot.
- (2) Data lot is less than 150 linear feet. PMTP measurements from data lot are treated as one data sublot.

B.4 Veta Data / Operation Filters

Create data / operation filters for each data lot as follows, unless waived by Engineer:

- (1) Imported File Name: Select all files.
- (2) Sensor Location: Select all sensor locations.
- (3) Machine ID: Select corresponding PMTP system for data lot.
- (4) Data Lot Name: Select the appropriate data lot name(s).
- (5) Time Filter: Select the Specific Date or use the Range to capture the start and end date and time for instances of nighttime production.
- (6) Cold Edge and Ride Bracket Filter: Select Remove Ride Brackets.
- (7) Location Filter: Use offset location filter to trim PMTP data to required centerline offsets for data lot.
- (8) Exclusions: Use exclusion filter to remove exceptions and/or temporary exceptions per form AMT-106.
- (9) GNSS Accuracy: Exclude PMTP measurements where the GNSS accuracy exceeds plus or minus 2 inches in the X and Y directions, or where surface temperature measurements do not have associated GNSS coordinates.
- (10) Exclude PMTP measurements where the Surface Temperature Measurements are less than 180°F.
- (11) Exclude PMTP measurements within 2 feet prior to and 8 feet after paver stops that are greater than 1 minute in duration.
- B.5 Calculations
 - B.5.a Thermal Segregation

B.5.a(1) Thermal Segregation Index (TSI) Calculate the TSI for each data sublot using equations
2016-1 and 2016-2 after filtering of PMTP measurements per S24.5.B.4. Record data sublot TSI values (reported to the nearest tenth) into the "TS Sublot" worksheet for forms AMT-102.

Equation 2016-1: $TSI_0 = 0.77 \left[C \times \left(\frac{StDev}{StDev_{Severe Start}} \right) + (100 - C) \times \left(\frac{TSV}{TSV_{Severe Start}} \right) \right]$

	TSI_0 when TSI_0 is less than 100
Equation 2016-2: TSI = -	
	100 when TSI ₀ is 100 or greater

Where:

I

TSI ₀	=	Thermal Segregation Index value prior to capping at upper limit of 100 (rounded to nearest tenth)		
TSI =	=	Thermal Segregation Index – see S-24.3.A.2		
C =		percent contribution o Semivariogram Index	f Standard Deviation (value ranges from 0	to the Transverse to 100)
StDe	v =	Standard Deviation – hundredth degree)	see <mark>S-24.3</mark> .A.2 (round	ed to nearest
StDe	vSevere Start	 Standard Deviation segregation category 	at lower limits of sev	ere thermal
TSV	=	Transverse Semivario (rounded to nearest hu	gram Index as calcula Indredth; see <mark>S-24.3</mark> .A	ted in Veta 2.
TSVS	Severe Start =	Transverse Semivario thermal segregation ca	gram Index at lower la ategory	imits of severe
	setti	Use the followi	ng semivariogram ind analysis within Veta:	ex specification
		(1) TSI Moder	rate Start = 30	
		(2) TSI Severe	e Start = 70	
	(3) Standard Deviation Contribution = 50 percent			
	(4) Standard Deviation Moderate Start = 4.5° F			$art = 4.5^{\circ}F$
	(5) Standard Deviation Severe Start = 9.0° F			= 9.0°F
	(6) TSV Index Contribution = 50 percent			rcent
	(7) TSV Index Moderate Start = 10			
	(8) TSV Index Severe Start = 25			
	B.5.a(2) Thermal Segregation Category Categorize TSI values for each data sublot per Table			sublot per Table
SP2016-7.			-	
Table SP2016-7				
	Data	i Subiol Thermal Segre	Thormal	
	Г	SI Values	Segregation	
			Category	

Low

TSI of less than 30.0

	Thermal
TSI Values	Segregation
	Category
TSI of 30.0 or greater and less	Moderate-Low
than 50.0	
TSI of 50.0 or greater and less	Moderate-Severe
than 70.0	
TSI of 70.0 or greater	Severe

B.5.b Thermal Coverage

Calculate thermal coverage per data sublot using Equation 2016-3 after filtering of PMTP measurements per S-XX.3.B.4. Record data sublot thermal coverage values in the "TC Sublot" worksheet for form AMT-101.

Equation 2016-3: Thermal Coverage = $\left(\frac{\text{Actual Data Sublot Length (ft)}}{\text{Required Data Sublot Length (ft)}}\right) \times 100$

Where:

С

	Thermal Coverage =	ratio of linear length of PMTP measurements per data sublot, percent (reported to nearest whole number)
Actual Data Sublot Length		 = total length of PMTP measurements after data/operation filtering per S-24.5.B.4, feet (reported to nearest whole number)
	Required Data Sublot Leng	th = total length requiring PMTP measurements for the data sublot, feet (reported to nearest whole number)
	IC Method Use IC method on the follo	wing:
	(1) 2215 (Reclamation) SF	DR initial pulverization and compaction
(2) 2215 (Reclamation) SFDR final pulverization, mixing with additives, and compaction		
	(3) 2390 (Cold-In-Place Recycling [CCPR] Bitt	ecycled [CIR] Bituminous and Cold Central Plant minous)
	(4) 2353 (Ultrathin Bonded	HWearing Course [UTBWC])
	(5) 2360 (Plant Mixed Asp	halt Pavement)
	(6) 2365 (Stone Matrix Asp	phalt [SMA])
	C.1 Equipment Require Instrument all roller technology.	ments rs used in locations requiring the IC method with the
	Duesside Instance ent	d Dallana aalikustad aaaandina ta Manufaatunan'a

Provide Instrumented Rollers calibrated according to Manufacturer's recommendations and meeting the requirements of Table SP2016-8 and the following:

- (1) System uses a data mesh size of 18 inches or less in the X and Y directions for post-processed data.
- (2) Coordinates indicate the left and right edge of the roller drum or can be used to determine the left and right roller drum edge.
- (3) Use systems from the same Manufacturer on rollers working in tandem.
- (4) Mount accelerometer in or about the drum, per the manufacturer's recommendations, to measure the interactions between rollers and compacted Materials.
- (5) Self-propelled, vibratory, smooth, single-drum and double-drum steel rollers and self-propelled vibratory, pad (sheep's) foot rollers require an accelerometer.
- (6) Self-propelled, vibratory, smooth double-drum steel and self-propelled pneumatic rollers require temperature sensors for MnDOT 2353, 2360 and 2365. Instrument rollers with one non-contact, temperature sensor, mounted on or near, the front of the roller for measuring pavement surface temperatures. A second temperature sensor may be mounted on, or near, the rear.
- (7) Use an onboard data acquisition system with a minimum of the following capabilities:
 - (a) Displays real-time, color-coded maps of: line work (design file), roller drum location, number of roller passes, Intelligent Compaction Measurement Value (ICMV) for systems with an accelerometer, and pavement surface temperature for systems with temperature sensors.
 - (b) Displays and stores current value for: roller speed, vibration frequency, vibration amplitude, GNSS coordinates and pass count.

Required instrainented Rener Equipment recuracy			
Operating Parameter	Accuracy		
GNSS	plus or minus 2 inches in the X and Y		
	Direction		
Rolling Speed	plus or minus 0.3 miles per hour		
Frequency	plus or minus 2 Hertz		
Amplitude	plus or minus 0.008 inches		
Temperature	plus or minus 2.7 degrees Fahrenheit		

 Table SP2016-8

 Required Instrumented Roller Equipment Accuracy

C.2 Measurement Passes

Use the IC method during the duration of compaction efforts in areas requiring this method. Complete Measurement Passes on 100 percent of the required Traffic and Auxiliary Lanes per the requirements of Table SP2016-9.

Table SP2016-9 Required Measurement Pass Locations

Specification	Measurement Pass Location		
2215 (SFDR),			
2390 (CIR & CCPR)	All roller passes on each Lift.		
2353, 2360, 2365	-		

Complete Measurement Passes on control strips. Provide Engineer with the date, location and time frame that the control strip compaction was completed.

Turn data collection and recording off when not performing Measurement Passes.

Provide Engineer with immediate viewing of Measurement Pass data on the Instrumented Roller's onboard data acquisition system upon request.

C.3 Data Sublot Establishment Using Veta

Divide data lot into 600-linear foot data sublots and last data sublots that are partial data sublots as follows:

- (1) Data Lot is 600 linear feet or greater
 - (a) Combine a last partial data sublot that is less than 300 linear feet with the previous data sublot.
 - (b) Treat a partial last data sublot that is 300 linear feet or greater as one data sublot.
- (2) Data Lot is less than 600 linear feet. Measurement Pass data from data lot are treated as one data sublot.
- C.4 Veta Operation Filters

Create operation filters for each data lot as follows, unless waived by Engineer:

- (1) Imported File Name: Select all files.
- (2) Machine ID: Select all rollers.
- (3) Data Lot Name: Select the appropriate data lot name(s).
- (4) Time Filter: Select the Specific Date, or use the Range to capture the start and end date and time for instances of nighttime production.
- (5) Location Filter: Use offset location filter to trim the Measurement Pass data to the required centerline offsets for the data lot.
- (6) Exclusions: Use exclusion filter to remove exceptions and/or temporary exceptions per form AMT-106.

C.5 Calculations

C.5.a Minimum Required Roller Coverage

Calculate the Minimum Required Roller Coverage per data sublot using equation 2016-4 and record these values in the "IC Sublot" summary worksheet for form AMT-103.

The Minimum Required Roller Coverage is met when the Cumulative Measurement Pass Count is greater than or equal to the Minimum Required Pass Count.

Evaluate Minimum Required Roller Coverage for each manufacturer's intelligent compaction system independently.

Equation 2016-4: Minimum Required Roller Coverage = $\left(\frac{\text{Data Sublot Area Covered}}{\text{Required Data Sublot Area}}\right) \times 100$

Where:

Minimum Required Roller Coverage = ratio of data sublot area where the Minimum Required Pass Count is achieved for the data sublot, percent (reported to nearest whole number)

Data Sublot Area Covered = Measurement Pass area calculated using the Gridded Final Coverage Data (after operation filtering per S-24.5.C.4) for the associated Minimum Required Pass Count, square feet (reported to nearest whole number)

Required Data Sublot Area = total area requiring Measurement Passes for the data sublot, square feet (reported to nearest whole number)

S-24.6 METHOD OF MEASUREMENT

The Engineer will measure Quality Management as a lump sum in accordance with MnDOT 1901.12.

S-24.7 BASIS OF PAYMENT

Interruptions in availability of satellite signals used with the ICT system will not result in any reduction to the data lot coverage (data lot area covered and required data lot area) or adjustments to the "Basis of Payment" for any construction items or to Contract Time.

The Contract Unit Price for Quality Management – Thermal Profiling and Quality Management – Intelligent Compaction includes setup of cloud storage and computing, conversion of design files, Site Calibration, ICT system and software setup, Equipment setup for satellite corrections, data lot establishment, system monitoring, remote server storage, cloud-based software accessibility, data package plans, analysis and organization of ICT measurements in Veta and completion of ICT submittal forms.

A Monetary Adjustment

The Department must apply Incentives and Disincentives and may apply Monetary Deductions for (2016) Quality Management-Intelligent Construction Technology Methods. The amounts of these adjustments are deemed reasonable.

A.1 Veta Project and Forms Submittals

A Monetary Deduction of \$500 per Calendar Day will be assessed for submitting the final version of the Veta Project(s) and required forms later than 14-Calendar Days of completion of the ICT method.

A.2 PMTP Method – Thermal Coverage (TC)

Calculate Monetary Deductions for thermal coverage (TC) per data sublot using Equation 2016-5. Prorate Monetary Deductions for data sublot linear lengths, as established in S-24.5.B.3, that are not equal to 150 linear feet.

Record the Monetary Deduction for thermal coverage in the "TC Sublot" worksheet for form AMT-101 and the final summary of total Monetary Deduction for thermal coverage in form AMT-101.

Equation 2016-5: PA_{TC} =

$$-\$30$$
 when TC ≤ 50
(0.8571 × TC - 72.857) when $50 < TC < 85$
 $\$0$ when TC ≥ 85

Where:

 PA_{RC} = Monetary Deduction for thermal coverage (rounded to nearest whole number) for each data sublot

TC = See equation 2016-3

A.3 PMTP Method – Thermal Segregation

Calculate incentives and disincentives for thermal segregation (PA_{TSI}) per Equation 2016-6. Prorate incentives and disincentives for data sublot linear lengths, as established in S-24.5.B.3, that are not equal to 150 linear feet.

Record the Incentives and Disincentives for each data sublot in the "TS Sublot" worksheet for form AMT-102 and the final summary of total incentives and disincentives for thermal segregation in form AMT-102.

Equation 2016-6: PATSI

$$\begin{cases} $40 \text{ when TSI} \le 10 \\ (50 - \text{TSI}) \ge 0.025 \le 40 \text{ when } 10 < \text{TSI} < 90 \\ -\$40 \text{ when } \text{TSI} \ge 90 \end{cases}$$

Where:

- PA_{TSI} = Incentives and Disincentives for thermal segregation (rounded to nearest whole number) for each data sublot
- TSI = See equations 2016-1 and 2016-2.
- A.4 IC Method Minimum Required Roller Coverage

Calculate Monetary Deductions for the Minimum Required Roller Coverage (PA_{RC}) per data sublot using Equation 2016-7. Prorate Monetary Deductions for data sublot linear lengths, as established in S-24.5.C.3, that are not equal to 600 linear feet.

Record the Monetary Deductions for each data sublot in the "IC Sublot" worksheet for form AMT-103 and the final summary of total Monetary Deduction for Minimum Required Roller Coverage in form AMT-103.

Equation 2016-7: $PA_{RC} =$

 $\begin{cases} -\$120 \text{ when } \text{RC} \le 50 \\ (3.4286 \times \text{RC} - 291.43) \text{ when } 50 < \text{RC} < 85 \\ \$0 \text{ when } \text{RC} \ge 85 \end{cases}$

Where:

 PA_{RC} = Monetary Deduction for the Minimum Required Roller Coverage (rounded to nearest whole number) for each data sublot

RC = See Equation 2016-4

B Schedule

Partial payments for Lump Sum Items 2016.601 (Quality Management – Thermal Profiling) and 2016.601 (Quality Management – Intelligent Compaction) will be made per Table SP2016-10:

i artiar i dyments bene	aute	
When	Percent of Estimated Quantity Completed	Pay Percent of Lump Sum Item
First Pay Estimate	(Blank)	10
Subsequent Pay Estimate *	5	15
Subsequent Pay Estimate *	15	30
Subsequent Pay Estimate *	50	50
Subsequent Pay Estimate *	75	75
Final Acceptance of Submittals	100	100
* Percent of Estimated Quantity Completed is based on	the pay quantity w	where the given
ICT method is required:		
2215.504 Stabilized Full Depth Reclamation		
2390.504 CIR – CCPR Bituminous		

Table SP2016-10	
Partial Payments Schedul	e

2353.504 Ultrathin Bonded Wear Course

2353.304 Olualini Donded wear Course

2360.509 Type SP Wearing Course Mixture

2360.509 Type SP Non-Wearing Course Mixture

2360.504 Type SP Wearing Course Mixture in [mm] Thick

2360.504 Type SP Non-Wearing Course Mixture in [mm] Thick

2365.509 Type SM Wearing Course Mixture

The Department will pay for Quality Management on the basis of the following schedule:

<u>Item No.</u>	Item	Unit
2016.601	Quality Management – Thermal Profilinglump	sum
2016.601	Quality Management – Intelligent Compactionlump	sum

S-25 (2357) BITUMINOUS TACK COAT REVISED 01/27/23

SP2020-130.1

S-25.1 Delete and replace the Emulsified Asphalt section of MnDOT 2357.2A with the following:

Emulsified Asphalt

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.

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

Table 2357.2-1 Residual Asphalt Content

S-25.2 Delete and replace Table 2357.3-1 in MnDOT 2357.3D with the following:

lack Coat Application Rates							
	Application Rates – gallon/square yard						
Material Type	CSS-1 or	CSS-1 or	CQS-1h	MC			
	CSS-1h	CSS-1h					
Surface Type	Undiluted	Diluted*	Diluted*	Cutback			
	Emulsion	Emulsion	Emulsion				
		(7:3), D30	(8.5:1.5),				
			D15				
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	0.06 to 0.09	0.09 to 0.135	0.09 to 0.11	0.09 to 0.11			
PCC							
Notes:							
* As provided by the asphalt emulsion supplier (see 2357.2A, "Bituminous Material")							

Table 2357.3-1 Tack Coat Application Rates

	Application Rates – gallon/square yard					
Material Type	CSS-1 or	CSS-1 or	CQS-1h	MC		
	CSS-1h	CSS-1h				
Surface Type	Undiluted	Diluted*	Diluted*	Cutback		
	Emulsion	Emulsion	Emulsion			
		(7:3), D30	(8.5:1.5),			
			D15			
Use when approved by the Engineer						
† Older than 1 year						

S-25.3 Delete and replace MnDOT 2357.5A with the following:

A 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-26 (2360) PLANT MIXED ASPHALT PAVEMENT

SP2020-132

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

- S-26.1 For SAP 065-601-017, Evaluate Pavement smoothness requirements using equation HMA-A as specified in MnDOT 2399.3D.
- S-26.2 Mix Designation Numbers for the bituminous mixtures on Project 065-601-017 are as follows:

Type 4.75 Non-Wearing Course SPNWD330B Type 12.5 Wearing Course SPWEB330B

S-26.3 MAT DENSITY INCENTIVE/DISINCENTIVE

Maximum Density Percentages and Mat Density Pay Factors shall follow the Tables 2360.5-4, 2360.5-5, 2360.5-6 and 2360.5-7 in the extent that any incentives accrued on a project shall offset any disincentives accrued on a project. Tons which have earned an incentive credit for G_{mm} greater than 93% may be used to offset the disincentive credit for tons which fall below 91.9% G_{mm} . There will be no excess incentive credits paid exceeding any disincentive credits for mat density. Payment for Maximum Mat Density will not exceed a net pay factor of 1.00 for any project.
S-26.4 The 1 feet of shoulder adjacent to the driving lane, as specified for in the plans for SAP's 065-601-017 shall be paved in conjunction with and considered a part of the driving lane. This area shall be compacted using the maximum density method including longitudinal joint density, and will be included in the daily driving lane tonnage for lot determination per Table 2360.21

S-27 (2360) PLANT MIXED ASPHALT PAVEMENT

S-27.1 Delete and replace the first paragraph of MnDOT 2360.2G.4.b.with the following:

Take QC samples at random tonnage or locations, quartered from a larger sample of mixture using a Gilson Company Model SP-55 Quatermaster Asphalt Sample Divider, or equal equipment. Sample randomly and in accordance with the Schedule of Materials Control. Determine random numbers and tonnage or locations using the Bituminous Manual, Section 720.4, or ASTM D3665, Standard Practice for Random Sampling of Construction Materials, Section 5, or, an Engineer approved alternate method of random number generation. Sample either behind the paver or from the truck box at the plant site. Other sampling locations can be approved by the Engineer. The Contractor must decide and notify the Engineer where samples will be taken before production begins. The Contractor and Engineer must both agree to a change of sampling location once production has begun. The procedure for truck box sampling is on the Bituminous Office website. The Contractor will obtain at least a 130 pound sample. Split the sample in the presence of the Inspector. When truck box sampling and testing is performed at the plant site, in order to account for asphalt absorption, the sample needs to be kept heated at the compaction temperature for 30 minutes before splitting and batching into test portions. The Inspector will retain possession of the portion of each split sample that is taken. Store compacted mixture specimens and loose mixture companion samples for 10 Calendar Days. Label these split companion samples with companion numbers.

S-27.2 Add the following to MnDOT 2360.2G.7.h.:

A Mix Moisture Content test shall be completed on the first sample taken for each day of production.

S-27.3 Delete and replace the first paragraph of MnDOT 2360.2G.8. with the following:

Maintain documentation, including test summary sheets and control charts, on an ongoing basis. Maintain a file of gyratory specimen heights for gyratory compacted samples and test worksheets. File reports, hand written records, electronic records, and diaries developed during the Work shall be provided to the Engineer <u>within 24 hours</u> following the day of production. These documents become the property of the Department.

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

SP2020-131.1

S-28.1 Delete and replace Table 2360.1-1 of MnDOT 2360.1B(4) with the following:

Traffic Levels		
Traffic Level	20 year Design ESALs	
2 *	< 1	
3	1-<3	
4	3-<10	
5	$10 - \le 30$	
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) 1×10^{6} ESALs		
* AADT < 2,300 AADT > 2,300 to < 6,000		

Table 2360.1

S-28.2 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-28.3 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-28.4 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-28.5 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-28.6 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 is required 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-28.7 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-28.8 Delete and replace 2360.2G.2(1) with the following:
 - (1) Conduct QA and verification testing
- S-28.9 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-28.10 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-28.11 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-28.12 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-28.13 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-28.14 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-28.15 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-28.16 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-28.17 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-28.18 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-28.19 Delete and replace Table 2360.3-3 of MnDOT 2360.3D.1.g with the following:

Lot Deter initiation		
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.		

Table 2360.3-3 Lot Determination

S-28.20 Delete and replace the first paragraph of MnDOT 2360.5B.6 with the following:

If the individual test result for adjusted AFT is less than 7.5 microns, the Department may either apply monetary deductions in accordance with Table 2360.5-2 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 Engineer may include the tonnage from the start of production that day with the tonnage subject to monetary deduction or removal and replacement.

S-28.21 Delete and replace Table 2360.5-2 of MnDOT 2360.5B.6 with the following:

Monetary Deduction Schedule for Individual Test Results, Adjusted AF			
Individual Adjusted	Monetary Deduction,		
AFT, microns	percent		
≥ 7.5	0		
7.4 - 7.0	10		
6.9 - 6.1	25		
≤ 6.0	Remove and replace at no expense to the		
	Department.		

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Table 2360 5-2

Delete and replace the second paragraph of MnDOT 2360.5B.10 with the S-28.22 following:

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 may consider Material with the moving average (n=4) of the Adjusted AFT is less than 8.0 microns as unsatisfactory and apply monetary deductions of 80

percent of the relevant Contract Unit Price. The Department may calculate the quantity of Material subject to replacement or monetary deductions as the tons placed from the sample point of all Individual Adjusted AFT results less than 8.0 micrometers, which contributed to the moving average value that was less than 8.0 microns, to the sample point where the Individual Adjusted AFT is at least 8.0 microns. If the failure occurs at the first test after the start of daily production, the Engineer will include the tonnage from the start of production that day with the tonnage subject to monetary deductions.

S-28.23 Delete and replace Table 2360.5-6 of MnDOT 2360.5B.13 with the following:

Longitudinal	Pay Factor B		Longitudinal Joint	Pay Factor C	
Joint	Longitudi	nal (Confined	(Unsupported Edge)	(Unsupported Edge)	
(Confined	E	dge)	Density, percent		
Edge) Density,	Traffic	Traffic Level		Traffic Level	Traffic Level
percent	Level	4 & 5		2 & 3	4 & 5
	2 & 3				
≥ 92.6	1.02†	1.03†	≥91.5	1.02†	1.03†
92.0 - 92.5	1.01†	1.02†	90.5 - 91.4	1.01*	1.02†
91.0 - 91.9	1.00	1.00	89.5 - 90.4	1.00	1.00
89.5 - 90.9	0.98	0.98	88.0 - 89.4	0.98	0.98
88.0 - 89.4	0.95	0.95	86.5 - 87.9	0.95	0.95
87.0 - 87.9	0.91	0.91	85.0 - 86.4	0.91	0.91
< 87.0	0.85	0.85	< 85.0	0.85	0.85

Table 2	360.5-6
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The Department will limit incentive payment for longitudinal joint density to lots with evaluated longitudinal joint densities.

Calculate the percent of maximum specific gravity to the nearest tenth.

Payment will only apply if the day's weighted average individual production air voids fall within $-\frac{1}{2}$ percent of the target air void value. Base the weighted average air voids on all the mixture production tests in accordance with 2360.2.G.7, "Production Tests" for the corresponding day and weight by the tons the corresponding test represents.

S-28.24 Delete and replace Table 2360.5-7 of MnDOT 2360.5B.13 with the following:

Longitudinal	Pay Factor B		Longitudinal Joint		
Joint (Confined	Longitudinal (Confined		(Unsupported Edge)	Pay Fa	actor C
Edge) Density,	Ē	dge)	Density, percent	(Unsuppo	rted Edge)
percent	Traffic Level 2 & 3	Traffic Level 4 & 5		Traffic Level 2 & 3	Traffic Level 4 & 5
≥93.6	1.02†	1.03†	≥ 93.0	1.02†	1.03†
93.0 - 93.5	1.01†	1.02†	92.0 - 92.9	1.01†	1.02†
92.0 - 92.9	1.00	1.00	90.5 - 91.9	1.00	1.00
90.5 - 91.9	0.98	0.98	88.0 - 90.4	0.98	0.98
89.0 - 90.4	0.95	0.95	87.0 - 87.9	0.95	0.95
88.0 - 88.9	0.91	0.91	86.0 - 86.9	0.91	0.91
< 88.0	0.85	0.85	< 86.0	0.85	0.85

 Table 2360.5-7

 Incentive and Disincentive Schedule for Longitudinal Joint Density, 3 percent Design Void*

* The Department will limit incentive payment for longitudinal joint density to lots with evaluated longitudinal joint densities.

Calculate the percent of maximum specific gravity to the nearest tenth.

Payment will only apply if the day's weighted average individual production air voids fall within ½ percent of the target air void value. Base the weighted average air voids on all the mixture production tests in accordance with 2360.2.G.7, "Production Test" for the corresponding day and weight by the tons the corresponding test represents.

S-29 (2399) PAVEMENT SURFACE SMOOTHNESS REVISED 1/25/21

MnDOT 2399 is herby modified as follows:

S-29.1 MnDOT 2399.1A shall be modified as follows:

A Definitions

The Department defines "HMA-D" as a single lift of bituminous pavement placed over a milled surface.

S-29.2 MnDOT 2399.2D.4 shall be deleted and replaced with the following:

D.3 Upon Completion of Pavement Placement

Within 5 Calendar Days of the placement of all mainline pavement and before beginningCorrective Work, submit a paper of Renville County's ProVAL summary report for each lane, indicating the results of the "Smoothness Assurance" analyses. Use the PPF filenames in accordance with 2399.2A, "Inertial Profiler (IP)" to create ProVAL summary reports.

If the summary reports indicate no ALR, or 0.1 mile Corrective Work segments, submit afinal *Profile Summary* worksheet in accordance with 2399.2D.5, "After Corrective Work."

S-29.3 MnDOT 2399.2D.5 shall be deleted and replaced with the following:

D.5 Before Corrective Work

If Renville County's summary reports indicate any ALR, submit a written Corrective Work Plan to the Engineer in accordance with 2399.3E, "Corrective Work." Include the beginning and ending points of the locations planned for correction in the Corrective Work Plan. Do not begin Corrective Work before the Engineer approves the Plan.

If the Department applies a monetary deduction for ALR in accordance with Table 2399.5-4 instead of requiring Corrective Work, submit a final Renville County *Profile Summary* worksheet in accordance with 2399.2D.5, "After Corrective Work."

S-29.4 MnDOT 2399.3B shall be deleted and replaced with the following:

B Exclusions

Table 2399.3-1 indicates areas that are excluded from Smoothness evaluation, but still require measurement withan IP, and are subject to evaluation for ALR and the 10 foot straightedge.

Table 2399.3-2 indicates areas that are excluded from surface testing with the IP, but are subject o evaluation with the 10 foot straightedge.

Areas Excluded from Smoothness Evaluation			
Pavement	Excluded Areas		
	Paving in areas with a posted vehicle speed less than or equal to 30 mph		
	Ramps, Loops		
Bituminous	Acceleration and deceleration lanes less than 1,000 feet in length		
or Concrete	Physically isolated segments less than 1,000 feet in length		
	Projects less than 1,000 feet in length		
	Bridge decks and approach panels – the occurrence of bridges shall not		

Table 2399.3-1 Areas Excluded from Smoothness Evaluation

	interrupt the continuity determination
Bituminous	Single Lift overlays placed directly on concrete
	Intersections constructed under traffic – begin and end exclusion 100 feet
Concrete	from
	the Intersection radius
	Doweled Shoulders greater than or equal to 10 feet in width

Table 2399.3-2

Areas Excluded from Smoothness and ALR Evaluation

Pavement	Excluded Areas		
	Paving in areas with a posted vehicle speed less than or equal to 30 mph		
	Paving in areas with a cautionary vehicle speed less than or equal to 30		
	mph		
Bituminous	Turn Lanes, crossovers		
or Concrete	20 feet on either side of obstructions in lane that obstruction is located		
	Side Streets, side connections		
	150 feet before stop signs at an Intersection		
	150 feet before yield signs at a roundabout		
	Paved Shoulders		
Bituminous Intersections where mainline profiles are merged or blended into			
	Streetprofile – begin and end exclusion 100 feet from the Intersection		
	radius		
	Doweled Shoulders less than 10 feet in width		
Concrete	Undoweled Shoulders		
	Headers adjacent to colored concrete		

S-29.5 MnDOT 2399.3D shall be deleted and replaced with the following:

D Pavement Surface Evaluations

D.1 Smoothness

Evaluate Smoothness requirements using the equations and criteria in accordance with Table 2399.5-1 for bituminous pavements, Table 2399.5-2 for concrete pavements, or Table 2399.5-3 for percent improvement Projects.

The Engineer will determine Incentive/Disincentive on the segment Smoothness value (or percent improvement value, for percent improvement Projects) measured at the completion of surface pavement, unless Corrective Work is required by the ProVAL summary report results. If a segment is less than 100 feet in length and Table 2399.5-1, Table 2399.5-2, or Table 2399.5-3 requires Corrective Work, the Engineer will waive the Corrective Work requirement for the segment and instead assess a prorated Disincentive. The Engineer will still subject the segment to ALR analysis in accordance with Table 2399.5-4.

For segments requiring Corrective Work, reprofile the entire 0.1 mile segment after performing Corrective Work as directed by the Engineer and enter the reprofiled Smoothness values into the final *Profile Summary* worksheet.

D.1.a Bituminous Pavements

See Section 2360, "Plant Mixed Asphalt Pavement" of the Special Provisions for the Smoothness equation requirements. If no Smoothness equation is specified in the Contract, evaluate with equation HMA-B.

D.1.b Concrete Pavements

Evaluate with equation PCC-A.

D.1.c

Percent Improvement Projects Calculate the segment percent improvement

in accordance with the following equation:

%I= <u>Smoothness Before Paving – Smoothness After Paving</u> x 100 Smoothness Before Paving

Determine the Smoothness Before Paving value before patching or other repair. Determine the Smoothness After Paving value after the completion of paving and any Corrective Work.

Correct segments with a percentage improvement of less than 0.0 percent atno additional cost to the Department as required by the Engineer.

D.2 Areas of Localized Roughness

The Engineer will consider areas of ALR acceptable if the reprofiled segment contains no ALR. The Department may apply monetary deductions for ALR remaining after reprofiling as determined by the Engineer and in accordance with Table 2399.5-4.

S-29.6 MnDOT 2399.5 shall be deleted and replaced with the following:

2399.5 BASIS OF PAYMENT

The Department will include the cost of the IP, testing, and traffic control in the relevant ContractUnit Price in accordance with

2301, "Concrete Pavement," and 2360, "Plant Mixed Asphalt Pavement."

A Monetary Adjustments

The Department must apply incentives and Disincentives and may apply monetary deductions for Pavement Surface Smoothness. The amounts of these adjustments are deemed reasonable.

A.1 Smoothness

A.1.a

Bituminous Pavements Table 2399.5-1 contains Smoothness

Incentive/Disincentive for bituminous pavements.

 Table 2399.5-1

 Smoothness Incentive/Disincentive and Corrective Work for Bituminous Pavements

Equation	Smoothness inches/mile	Incentive/Disincentive \$/0.1 mile
	< 25.0	415.00
ΗΜΔ-Δ	25.0 - 75.0	850.00 – 15.000 × Smoothness
	> 75.0	Corrective Work to ≤ 50.0 inches per
		mile
	< 30.0	300.00
HMA-B	30.0 - 80.0	600.00 – 10.000 × Smoothness
IIIVIA-D	> 80.0	Corrective Work to \leq 55.0 inches per
		mile
	< 35.0	200.00
HMA-C	35.0 – 90.0	414.00 – 6.000 x Smoothness
	> 90.0	Corrective Work to ≤ 60.0 inches per
		mile
	< 32.0	250.00
	32.0 - 82.0	500.00 – 8.000 x Smoothness
	> 82.0	Corrective Work to ≤ 50.0 inches per mile

For bituminous Projects, the Department will not pay any total Smoothness Incentive if greater than 25 percent of all mainline density lots for the Project fail to meet the minimum density requirements in accordance with 2360, "Plant Mixed Asphalt Pavement." Use the composite pay factor for mainline density lots with longitudinal joint density.

For bituminous projects, the Department will require a ½" mill and 1" SPWEA230C overlay on the entire project length if **25%** or more of the total segments require a monetary deduct and/or corrective work for Smoothness and/or Areas of Localized Roughness.

In addition to corrective work, area(s) where diamond grinding is performed as the corrective work method a \$3.00 per SY disincentive will be applied to the total area(s) milled.

A.1.b Concrete Pavements

Table 2399.5-2 contains SmoothnessIncentive/Disincentive for concrete pavements.

Table 2399.5-2

Smoothness Incentive/Disincentive and Corrective Work for Concrete Pavements

Equation	Smoothness inches/mile	Incentive/Disincentive \$/0.1 mile
	< 45.0	890.00
PCC-A	45.0 - 85.0	2892.50 – 44.500 × Smoothness
100 //	> 85.0	Corrective Work to ≤ 65.0 inches/mile

If the Contractor adds water to the pavement surface without approval by the Engineer, the Engineer will not pay any Incentives for 0.1 mile segments where the water was added and the Engineer may reject the pavement in accordance with 1512, "Unacceptable and Unauthorized Work."

A.1.c Percent Improvement Projects

Table 2399.5-3 contains Smoothness Incentive/Disincentive for percentimprovement Projects.

Equation	Percent Improvement(%I)	Incentive/Disincentive \$/0.1 mile		
	> 70.0	180.00		
Ы	0.0 to 70.0	-180.00 + 5.143 × (%I)		
	< 0.0	Corrective Work to %I of at least 0.0		

 Table 2399.5-3

 Smoothness Incentive/Disincentive and Corrective Percent Improvement Projects

For bituminous percent improvement Projects, the Department will not pay any total Smoothness Incentive if greater than 25 percent of all mainline density lots for the Project fail to meet minimum density requirements in accordance with 2360, "Plant Mixed Asphalt Pavement." Use the composite pay factor for mainline density lots with longitudinal joint density.

A.1.d Areas of Localized Roughness

Table 2399.5-4 contains monetary deductions for Areas of Localized Roughness.

E an ation	25 foot Continuous	Corrective Work or		
Equation	MRI inches/mile	Monetary Deduction, per		
		linear 1.0 foot		
	< 115.0	Acceptable		
		Corrective Work unless both the		
HMA-A or HMA-B,	≥ 115.0 to < 160.0	Engineer and the Contractor agree to		
and a posted vehicle speed		amonetary deduction of \$15.00		
> 30 mph		Corrective Work unless both the		
	\geq 160.0 to < 225.0	Engineer and the Contractor agree to		
		amonetary deduction of \$40.00		
		Corrective Work unless both the		
	\geq 225.0	Engineer and the Contractor agree to		
		a		
		monetary deduction of \$200.00		
	< 115.0	Acceptable		
PCC-A and a posted		Corrective Work unless both the		
	\geq 115.0 to < 160.0	Engineer and the Contractor agree to		
Vehicle speed > 30 mph		amonetary deduction of \$15.00		
		Corrective Work unless both the		
	\geq 160.0 to < 225.0	Engineer and the Contractor agree to		
		amonetary deduction of \$40.00		
	≥ 225.0	Corrective Work		
HMA-C, PI, Ramps,	< 225.0	Acceptable		
Loops, concrete				
Intersections constructed	> 225.0	\$40.00		
under traffic, or any paving				
with a posted				
venicie speed ≤ 45 mph	< 125.0	A (11		
	< 135.0	Acceptable		
and a posted	\geq 135.0 to < 170.0	\$20.00		
vehicle speed> 30 mph	≥225.0	\$40.00		

 Table 2399.5-4

 ALR Monetary Deductions and Corrective Work Requirements

For bituminous projects, the Department will require a ¹/₂" mill and 1" SPWEA230C overlay on the entire project length if **25%** or more of the total segments require a monetary deduct and/or corrective work for Smoothness and/or Areas of Localized Roughness.

In addition to corrective work, area(s) where diamond grinding is performed as the corrective work method a \$3.00 per SY disincentive will be applied to the total area(s) milled.

(2562) ADDITIONAL TRAFFIC CONTROL DEVICES AND EXTENDED **USE OF TRAFFIC CONTROL DEVICES REVISED 11/08/21**

SP2020-193

S-30.1 DESCRIPTION

This Work consists of providing additional traffic control devices in accordance with S-29 (2563) Traffic Control and as authorized by the Engineer.

The Engineer is authorized to:

- (1) Require extra traffic control devices in addition to the traffic control devices shown in the Traffic Control Plan or in the Field Manual.
- (2) Require additional traffic control devices for EXTRA WORK.
- (3) Require extended use for all traffic control devices which are impacted by excusable and compensable delays, as defined in MnDOT 1806.2B.
- (4) Negotiate compensation for a Lump Sum Payment.

S-30.2 **MATERIALS**

Devices must meet Contract requirements, quality standards detailed in the Field Manual, and be in functional and legible condition. Maintain sufficient crashworthy standards. Devices not meeting these requirements must be immediately replaced or repaired.

S-30.3 CONSTRUCTION REQUIREMENTS Furnish the additional traffic control devices as ordered by the Engineer.

S-30.4 METHOD OF MEASUREMENT

Driven post supports and all mounting hardware for 48"X48" signs and Standard Signs are included in the Traffic Control Pay Item.

Standard Signs with Portable Supports will be calculated and paid for as follows: Total Standard Sign Sq. Ft. + Portable Support Cost (listed in Table SP2562-1) = Standard Signs with Portable Supports Cost per day.

Construction Sign-Special will be measured by the sign face area furnished, installed including supports, maintained, and removed. Install with square tube steel posts and slip bases meeting MASH crashworthy standards.

Flaggers and Police Officers will be measured by the number of hours each is in service on the job. The Police Officer must be properly uniformed including a reflectorized high-visibility safety vest and fully equipped including police car.

S-30.5 **BASIS OF PAYMENT**

The Department will not use the predetermined Unit Prices listed in Table SP2562-1 if payment for a device is specifically provided for elsewhere in the Contract.

А Devices, Flaggers and Police Officers:

The Engineer and Contractor are authorized to negotiate the terms of compensation for additional traffic control devices and extended use of traffic control devices. If the Engineer and Contractor are unable to agree on compensation using Contract Unit Prices

S-30

or by negotiation, the Department will pay for traffic control devices according to the schedule of pre-determined prices in the following schedule:

Item Number	Item	Unit	Pre-determined Price	
2562.602	Impact Attenuator*	Each	\$66.00	
2562.603	Pedestrian Channelizer*	Linear Foot	\$0.32	
2562.603	Portable Precast Concrete Barrier Design 8337*	Linear Foot	\$0.08	
2562.610	Flagger	Hour		
2562.610	Police Officer†	Hour		
2562.613	Sidewalk Barricade	Unit Day	\$1.43	
2562.613	Type III Barricade	Unit Day	\$2.59	
2562.613	Flasher Type A (Low Intensity)	Unit Day	\$0.50	
2562.613	Tubular Marker	Unit Day	\$0.43	
2562.613	Type A Cone Channelizer	Unit Day	\$0.31	
2562.613	Type A Weighted Channelizer	Unit Day	\$0.69	
2562.613	Opposing Traffic Lane Divider	Unit Day	\$3.38	
2562.613	Reflectorized Drum	Unit Day	\$0.86	
2562.613	Flashing Arrow Board	Unit Day	\$33.73	
2562.613	Portable Changeable Message Sign [‡]	Unit Day	\$75.00	
2562.613	Vehicle Speed Feedback Sign	Unit Day	\$37.85	
2562.613	48"X48" Sign	Unit Day	\$1.54	
2562.613	48"X48" Sign with Supports	Unit Day	\$2.37	
2562.613	Portable Sign Support	Unit Day	\$0.80	
		Square		
2562.618	Standard Sign*	Foot	\$0.24	
		Square	***	
2562.618	Construction Sign Special (Additional)	Foot	\$37.27	
2562 612	Construction Sign Special (Enter ded Dynation)*#	Square	¢0.25	
2502.015	Construction Sign Special (Extended Duration)*#		\$0.33	
2562.613	Audible Message Device	Unit Day	\$1.11	
2562.613	Temporary Pedestrian Ramp	Unit Day	\$7.25	
2562.613	Portable Rumble Strips (set of 3)	Unit Day	\$50.00	

Table SP2562-1 Additional Traffic Control Devices, Flaggers and Police Officers

* Item will be paid by the item unit per each day in use.

| Will be paid in accordance with MnDOT 1904.4A.

† Will be paid at the invoice price plus 10%.

[‡] Type C Trailer Mounted Message Sign.

Only to be paid when used for extended duration and a compensable delay is approved.

B Labor and Equipment:

The Engineer and Contractor are authorized to negotiate the terms of compensation for labor and Equipment to furnish, install and remove additional traffic control devices listed in Table SP2562-1. If the Engineer and Contractor are unable to agree on compensation by negotiation, the Department will pay for labor and Equipment according to the following mileage-based method: The Department will pay \$500.00 for the first 30 miles for mobilization and installation of additional traffic control devices. The Engineer will determine mileage based on the distance from the Traffic Control Contractor's closest office location to the Project limits (most direct route) plus mileage from the Project limits to the furthest location of the additional placement(s), round trip. The Department will pay a minimum of \$500.00.

The Department will pay \$2.40 per mile traveled over 30 miles. The Engineer will determine mileage based on the distance from the Traffic Control Contractor's closest office location to the Project limits (most direct route) plus mileage from the Project limits to the furthest location of the additional placement(s), round trip.

The Department will pay \$500.00 for the first 30 miles for de-mobilization and removal of additional traffic control devices. The Engineer will determine mileage based on the distance from the Traffic Control Contractor's closest office location to the Project limits (most direct route) plus mileage from the Project limits to the furthest location of the additional removal(s), round trip. The Department will pay a minimum of \$500.00.

The Department will pay \$2.40 per mile traveled over 30 miles. The Engineer will determine mileage based on the distance from the Traffic Control Contractor's closest office location to the Project limits (most direct route) plus mileage from the Project limits to the furthest location of the additional removal(s), round trip.

The Department will not pay for labor and Equipment for the installation/removal of additional traffic control devices when additional traffic control Work is combined with Plan-provided traffic control devices installation/removal during the original Contract period, unless a Contract revision meets the requirements listed in MnDOT 1402.3 and the Plan does not contain Item 2563.601 (Traffic Control).

The Department will not pay for labor and Equipment to inspect and maintain additional traffic control devices during the original Contract period, unless a Contract revision meets the requirements listed in MnDOT 1402.3 and the Plan does not contain Item 2563.601 (Traffic Control).

The Department will pay for labor and Equipment to inspect and maintain all traffic control devices when an extension of Contract Time is due to an excusable and compensable delay in accordance with MnDOT 1806.2B.

The Department will not pay for labor and Equipment to remove existing traffic control devices, provided under Section S-31 (2563) Traffic Control, when Contract Time is extended.

S-31 (2563) TRAFFIC CONTROL *REVISED* 04/14/23

SP2020-195

S-31.1 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 Department will maintain Detour Roads established by the Commissioner for through traffic diverted from the Project unless otherwise indicated in the Plan.

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-31.2 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. In place 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: <u>http://www.dot.state.mn.us/products/signing/sheeting.html</u>

C Truck/Trailer Mounted Attenuators

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

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. <u>https://techmemos.dot.state.mn.us/techmemo.aspx</u>

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-31.3 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.

A.4 Provide the names, addresses, and phone numbers of at least three individuals responsible for placing and maintaining traffic control devices to the Engineer at the Pre-construction Conference. These individuals will be "on call" 24 hours per day, seven days per week during the times any temporary traffic control devices are in place.

A.5 Inspect all traffic control devices on a daily basis, including one nighttime inspection per week. Verify that the devices and pavement markings are placed in accordance with the Traffic Control Plan, these Special Provisions, and the MN MUTCD. Immediately correct discrepancies between the actual placement and the required placement. Respond immediately to any call from the Engineer concerning any request for improving or correcting traffic control devices.

A.6 Make a daily log of required inspections. This log must indicate the date and time any changes in the stages, phases, or portions go into effect. The log must identify the location and verify that the devices and pavement markings are placed as directed or corrected in accordance with the Plan. The person making the inspection must sign the log and include the date and time of the entry. Provide copies of the inspection logs on a weekly basis and at the request of the Engineer.

B Traffic Control Signs and Devices

B.1 Roll-up signs are not allowed unless authorized by the Engineer.

B.2 Cover, modify, or remove all signs that are not consistent with traffic operations. Cover the entire sign or that part of the legend that is inappropriate. Sign covers must conform to the Typical Temporary Sign Covering Details Sheet found in the Plan or at the following link:

http://www.dot.state.mn.us/trafficeng/workzone/wz-ltta/pdf/tempsigncover.pdf

B.3 Maintain Street identification signage at all times. Signs may be installed on temporary supports if the permanent sign Structures are affected by operations. This is necessary to maintain the 911 emergency system.

B.4 Post mount all signs that will remain in the same location for more than 30 consecutive days. This does not include portable signs which are set up and taken down at the beginning and end of each Work shift.

When the proper location of a sign is on pavement, do not core through the surface. If there is a conflict with underground utilities, attempt to move the sign while maintaining its visibility to traffic. If it is not possible to drive posts into the ground, mount signs on portable supports as approved by the Engineer.

When signs are removed, the sign posts and stub posts must also be removed from the Right-of-way. Posts left in place for future use or removal at a later date must be properly delineated with tubular markers, flags, or other delineation as approved by the Engineer at no additional cost. B.5 At the beginning of the Project, store at least 12 extra Type III barricades and 20 extra retroreflective drums to be used at the Engineer's discretion. Store the devices at a location approved by the Engineer.

If the Engineer orders additional devices, beyond the quantity specified above, the Department will compensate the Contractor according to S-30 (2562) ADDITIONAL TRAFFIC CONTROL DEVICES AND EXTENDED USE OF TRAFFIC CONTROL DEVICES.

B.6 Signs and Structures damaged by the Contractor shall be replaced at the Contractor's expense.

C Traffic Safety

C.1 Do not suspend material, Equipment, tools or personnel over lanes or pedestrian facilities open to traffic.

C.2 Do not place Bridge deck concrete over lanes open to traffic or over active pedestrian facilities.

C.3 Protect traffic and pedestrians from excavations, drop-offs, falling objects, splatter or other potential construction hazards.

C.4 Do not store Materials or Equipment in the Work zone clear zone unless approved by the Engineer. If Materials or Equipment must be stored within the Work zone clear zone, protect with temporary barrier. If the Engineer agrees that temporary barrier is not practical, delineate with Type B channelizers.

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 Flagging Operations

F.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: <u>http://www.dot.state.mn.us/const/wzs/flagger.html</u>

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.

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

F.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.

F.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 SAP 065-601-017.
- (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.

F.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 will include: CSAH 4 and CSAH 17. All other intersecting cross roads, at minimum, will require advance signing in accordance with layout 6K-19b of the Temporary Traffic Control Field Manual.

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

G Milling, Sealcoating, and Paving Operations

G.1 Milling and paving operations must be completed over the full width of all traffic carrying lanes, including turn lanes, bypass, etc., under construction at the end of each day's production.

G.2 Traffic will be allowed on the milled surface.

G.3 When traffic is allowed to drive on the milled and newly paved surfaces, install interim striping and provide appropriate warning signs such as "GROOVED PAVEMENT" and "BUMP" with "Advisory Speed" plaques as shown on Layouts 35 and 66 of the Field Manual.

G.4 Taper and/or chamfer any drop-off where traffic will cross from or to the inplace surface, or from or to the milled surface, so as to provide for the safe passage of traffic.

G.5 Schedule construction operations to minimize traffic exposure to uneven lanes, milled edges, and edge drop-offs. If these conditions cannot be avoided, provide and maintain the appropriate traffic control in accordance with the "LONGITUDINAL DROP OFF GUIDELINES" in the Field Manual.

G.6 Do not mill any notches for surfacing tapers until immediately prior to paving. The Engineer may allow notches if temporary bituminous is installed and maintained to provide for the safe passage of traffic until the surfacing is completed. Constructing and milling tapers and/or chamfers is included in the Pay Item 2360.509 TYPE 12.5 WEARNING COURSE MIXTURE.

H Maintenance and Staging of Traffic Control

H.1 Maintain the existing traffic movements at the following Intersections: CSAH 4 and CSAH 17

S-31.4 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-31.5 BASIS OF PAYMENT

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

I raffic Control Partial Payments					
Percent of Original	Pay this Percentage				
Contract Completed	of Traffic Control				
5	<mark>50</mark>				
10	<mark>75</mark>				
50	<mark>95</mark>				
All Work Completed	<mark>100</mark>				
And All Traffic Control Removed					

Table SP2563-2 offic Control Partial Payment

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 on the basis of the following schedule:

Item No.	Item	Un	it
2563.601	Traffic Control	Lump Su	m

1910 Fuel Escalation Clause

The provisions set forth in 1910, "Cost Escalation" are hereby supplemented with the following:

This provision provides for compensation adjustments in the cost of motor fuels (diesel and gasoline) consumed in prosecuting the Contract work. The Engineer will calculate the Fuel Cost Adjustments. Payments or credits will be applied to progress, semi-final, and final payments for work items set forth herein.

The Department will establish a Base Fuel Index (BFI) for fuel to be used on the Contract. The BFI will be the average of the high and low rack prices shown for Ultra Low Sulfur Diesel Undyed in the "DTN FastRack" for the day of the Contract letting.

A Current Fuel Index (CFI) in cents per gallon will be established for each week. The CFI will be the average of the high and low rack prices shown for Ultra Low Sulfur Diesel Undyed in the "DTN FastRack" indicated each Wednesday.

The Engineer will compute the ratio of the CFI to the BFI (CFI/BFI) each week. If that ratio is between 0.85 and 1.15, no fuel adjustment will be made for the week following the CFI computation. If the ratio is less than 0.85, a credit to the Department will be computed. If the ratio is greater than 1.15, additional payment to the Contractor will be computed.

Credit of additional payment will be computed as follows:

- 1. The Engineer will estimate the quantity of work done in that week under each of the Contract items listed in Table 1910-1.
- 2. The Engineer will compute the gallons of fuel used in that week for each of the Contract items listed in Table 1910-1 by applying the unit fuel usage factors shown.
- 3. The Engineer will determine the Fuel Cost Adjustment (FCA) from the following formulas
 - a. If the CFI is greater than the BFI: [(CFI/BFI)-1.15]*Q*BFI = amount of FCA to be paid to the Contractor.
 - b. If the CFI is less than the BFI: [(CFI/BFI)-0.85]*Q*BFI = amount of FCA to be credited to the Department
 - i. FCA = Fuel Cost Adjustment (cents)
 - ii. CFI = Current Fuel Index (cents per gallon)
 - iii. BFI = Base Fuel Index (cents per gallon)
 - iv. Q = Weekly total gallons of fuel per item

Basis of Payment

A FCA payment to the Contractor will be made as a price adjustment to each eligible item for each payment period based on the last published CFI. An FCA credit to the Department will be deducted each payment period

from any monies due the Contractor. Only items shown in Table 1901-1 will be considered for compensation adjustments.

Table 1901-1 Schedule of Work Items

Specification Number	Item	Unit	Gallons of Fuel per Unit
2105	Common Excavation	СҮ	0.17
2105	Rock Excavation	СҮ	0.27
2105	Muck Excavation	СҮ	0.17
2105	Subgrade Excavation	СҮ	0.17
2105	Unclassified Excavation	СҮ	0.23
2105	Granular Borrow (EV)	СҮ	0.17
2105	Granular Borrow (CV)	СҮ	0.19
2105	Granular Borrow (LV)	СҮ	0.14
2105	Select Granular Borrow (EV)	СҮ	0.17
2105	Select Granular Borrow (CV)	СҮ	0.19
2105	Select Granular Borrow (LV)	СҮ	0.14
2105	Common Borrow (EV)	СҮ	0.17
2105	Common Borrow (CV)	СҮ	0.19
2105	Common Borrow (LV)	СҮ	0.14
2105	Topsoil Borrow (EV)	СҮ	0.17

Specification Number	Item	Unit	Gallons of Fuel per Unit
2105	Topsoil Borrow (CV)	СҮ	0.19
2105	Topsoil Borrow (LV)	СҮ	0.14
2106	Excavation – Common	СҮ	0.17
2106	Excavation – Subgrade	СҮ	0.17
2106	Excavation – Rock	СҮ	0.27
2106	Excavation – Muck	СҮ	0.17
2106	Common Embankment (CV)	СҮ	0.19
2106	Granular Embankment (CV)	СҮ	0.19
2106	Select Granular Embankment (CV)	СҮ	0.19
2106	Select Granular Embankment (CV) Modified (%) (CV)	СҮ	0.19
2211	Aggregate Base	Ton	0.55
2211	Aggregate Base (LV)	СҮ	0.77
2211	Aggregate Base (CV)	СҮ	0.99
2211	Open Graded Aggregate Base (CV)	СҮ	0.99
2211	Shoulder Base Aggregate, Class	Ton	0.55
2211	Shoulder Base Aggregate (LV), Class	СҮ	0.77
2211	Shoulder Base Aggregate (CV), Class	СҮ	0.99

Specification Number	Item	Unit	Gallons of Fuel per Unit
2232	Mill Bituminous Surface t inches	SY	0.019* <i>t</i>
2301	Concrete Pavement <i>t</i> inches	SY	0.027* <i>t</i>
2301	Place Concrete Pavement <i>t</i> inches	SY	0.027* <i>t</i>
2360	Type SP () Wearing Course Mixture	Ton	0.90
2360	Type SP () Wearing Course Mixture	Ton	0.90
2360	Type () Mixture <i>t</i> inches thick	SY	0.051* <i>t</i>
2501	Pipe Culvert	Lin Ft	0.70
2501	Pipe Arch Culvert	Lin Ft	0.70
2501	Pipe Culvert Des 3006	Lin Ft	0.70
2503	Pipe Sewer	Lin Ft	0.70
2503	Pipe Arch Sewer	Lin Ft	0.70
2503	Pipe Sewer Des 3006	Lin Ft	0.70

t = Thickness in inches

The Department will not pay adjustments for pipes less than 12" in diameter, jacked pipes, or directionally drilled pipes.

The Department will not pay adjustments for fuel used for drying or heating aggregates.

2024

SALT Schedule of Materials Control



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Introduction

This Schedule of Materials Control (SMC) outlines the **MINIMUM** testing requirements for State Aid Funded and/or Federal Aid Projects **OFF** the National Highway and Trunk Highway System. Optional to this SMC is the MnDOT Materials Control Schedule. Usage of either schedule must be defined in the project proposal.

The SMC – LGA serves as a guide for material testing with allowable acceptance "as directed by the Engineer" detailed in Specification 1501.1(1) – Authority of the Engineer. These testing rates are a minimum and additional test may be taken at the Engineer's discretion. A minimal testing rate does not always ensure a quality product; field observations and attention to detail is crucial. Materials not listed on an approved products list may be sampled and tested as directed by the Engineer. Materials listed on a Qualified Products list may be accepted or tested at the discretion of the Engineer.

Federal Aid projects require Independent Assurance Inspection. Contact the MnDOT District IA Inspector when the job starts to provide the proper servicing of your project.

***Agencies using MnDOT Metro Inspection Services will be sampled at the current MnDOT Schedule of Materials Control rates and will be billed accordingly.

***Contact the MnDOT District IA Inspector to provide servicing for your federal aid project.

Definitions

Schedule of Materials Control

Schedule of Materials Control (SMC) are inserted into project proposals to direct how materials are to be sampled and tested. The SMC is updated yearly. Each SMC is project specific. Therefore, one needs to refer to their specific proposal.

Approved/ Qualified Products List

Products are "approved" when they have been found to routinely meet all applicable standards and specifications. The product is placed on the list based upon established successful manufacturer's quality control and warranties, but the listing may expire or require periodic renewal to verify the product has not changed over time. The approval process for the individual product should specify any expiration requirement. Testing may still be on at the Engineers discretion.

Certified Sources

Certified Sources must comply with each individual product's defined "certification procedure". Acceptance of products from certified sources follows the same sampling and testing as "approved/ qualified" products.

Quality control (QC): The activities performed by the **Contractor/Producer** that have to do with making sure the quality of a product or process meets the relevant contract requirements. All testing shall be performed by a certified tester.

Quality assurance (QA): The activities performed by the **Department/Agency** that have to do with making sure the quality of a product or process meets the relevant contract requirements. All testing shall be performed by a certified tester.

Verification Testing: Sampling and testing performed as called out herein to validate the quality of the product(s). **Part of QA.**

Material Acceptance Summary Instructions

STATE AID FOR LOCAL TRANSPORTATION MATERIAL ACCEPTANCE SUMMARY

Rev. February 2019

SP/SAP(s)

	Item Description			A	pproved/	Certifi	cate	Accep	ted by	
Bid Item/				(Qualified	of		Engi	neer*	
Spec No.					Pr	oduct List	Compl	iance	(da	ite)
					(dat	te checked)	(date r	ec'd)		
2105.604	Geotextile Fabric		+		5/2	6/18	5/261	8	6/6/18	
2105.604	Soil Stabilized Geogrid				5/3	918	5/30/1	8	6/6/18	
2357.506	Bituminous Material for Tack	Coat			6/6	18	6/6/18	3	6/6/18	
2573.503	Silt Fence, Type MS	Example		5/14/18		5/14/1	8	6/6/18		
2582.503	Epoxy Pavement Marking	Pro	oject		1/3	0/18	7/30/1	8	7/31/1	8
3592	Drop-on Glass Beads				7/3	0/18	7/30/1	8	7/31/1	8
2574.508	Fertilizer Type 3			1			8/6/18	}	8/6/18	
2575.508	Seed Mixture 22-111		V	1	8/6	/18	8/6/18	3	8/6/18	
				/						
			/	/						
							1			
						Dat		Da	te accepted	
		Date c	hecked	the				by the		
		Approv	ed/Qual	ified					engineer	£
		produce and f	ct list. P	rint						
		appro	ved list	on		Date	ate the			
		accep	tance da	ate.	certification received. S specification		tion was			
							ion 160	on 1603.3		

* This item is hereby accepted by the Engineer as materially compliant for use on this project per the terms of specification 1501.1, subset (1).

Approved by Project Engineer:	Date:
Print Name:	

Material Acceptance Summary

STATE AID FOR LOCAL TRANSPORTATION MATERIAL ACCEPTANCE SUMMARY

Rev. February 2019

SP/SAP(s)

Bid Item/ Spec No.	Item Description	Approved/ Qualified Product List (date checked)	Certificate of Compliance (date rec'd)	Accepted by Engineer* (date)
		·		
-				
-				

* This item is hereby accepted by the Engineer as materially compliant for use on this project per the terms of specification 1501.1, subset (1).

Approved by Project Engineer:	Date:		
Print Name:	Phone:		

For an electronic Word version of this form, please visit the State Aid Construction webpage at: https://edocs-public.dot.state.mn.us/edocs_public/DMResultSet/download?docId=19623193

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		
s for the (2)	Bulk Specific Gravity	2360.2.G.7.b				
	Maximum Specific Gravity	2360.2.G.7.c	1 test per 500			
	Air Voids (calculated)	2360.2.G.7.d	tons 55 lb.	 (3) (10) 1 Verification Mixture Sample test per day, all Verification samples are from a split (QC/QA) sample. 		
ate ns (Asphalt Content	2360.2.G.7.a	sample 2 full cylindor			
g R to	Adj. Asphalt Film Thickness (AFT)	2360.2.E.7.e	5 Tull Cylinder			
tin 200	Gradation	2360.2.G.7.f	(7)			
Tes 2(Fines to Effective Asphalt Ratio (calculated)	2360.2.G.7.a/f	(*)			
Up 1st	Coarse Aggregate Angularity (CAA)	2360.2.G.7.g	1 test per 1000			
rt-I	Fine Aggregate Angularity (FAA)	2360.2.G.7.h	tons			
Sta	Added AC/Total AC Ratio (calculated)	2360.2.G.7.a	(4) (5) (6) (7)			
	Bulk Specific Gravity	2360.2.G.7.b				
	Maximum Specific Gravity	2360.2.G.7.c	1 test per 1000			
	Air Voids (calculated)	2360.2.G.7.d	tons 55 lb.	(3) (10) Verification		
es	Asphalt Content	2360.2.G.7.a	sample 3 full	Mixture Sample test per day/ mix type, submit companion to the QC – CAA & FAA		
tate	Adj. Asphalt Film Thickness (AFT)	2360.2.E.7.e	cylinder molds			
l gr	Gradation (minimum of 1 per day)	2360.2.G.7.f	(7)			
stir	Added AC/Total AC Ratio (calculated)	2360.2.G.7.a				
Production Te	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 cont	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 p	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	
Gradation	2363	1 per 1,000 Ton with a minimum 1	1 per day 35 lbs	
PASSRC & PASB	3139.3	per day.	i per day. 55 lbs.	
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.	
% Crushing – CAA	2363	1 per 1,000 Ton with a minimum 1	1 per day from gradation test. 35	
PASSRC & PASB	3139.3	per day.	lbs.	
Moisture / Aggregate	2354	Machine Hopper: 1/500 Tons (min		
Micro-Surfacing	3139.5	3/day)	1/day 2lbs	
Sand Equivalence	2254		Test at Engineer discretion, 25 lbs.	
Micro-Surfacing	2354	1/day		
Flakiness Index		Completelyon from first lood on first	Agency will test at their discretion, see Lab Manual 1223	
Bituminous Seal Coat & Bituminous Underseal	2356	day, submit to Agency: 30 lbs.		
Bituminous Mixture	2353	1/500 Tons, min 1/day. %AC,	1/day, 20 lbs. 1 cylinder from truck	
UTBWC	3151.2G	Gradation, Max SpG, Adj.AFT	box.	
PASSRC & PASB	3151 2363	Asphalt spot check: min 1/day	-	
Stone Matrix Asphalt – SMA		Tests , %AC,gradation, Gmm, Gmb, Voids, VMA, CAA, Draindown, VCA, fines/effective asphalt.	Tests: %AC, Gradation, Gmm, Gmb,	
Lab Manual 1203, 1204, 1205, 1211, 1214, 1806, 1807, 1808, 1813, 1853,	2365	Rate, (1/1000 tons, min.1/day) Agg SpG, mix moisture, TSR to be tested as directed by Engineer.	fines/effective asphalt. Agency is not required to do drain down. Copy MDR to Project Engineer and Grading & Base Engineer.	
1854, 1855, AI SP-2 AASHTO T305		Submit companion 1 per day to agency: 3 full 6" by 12" cylinders		
Asphalt Binder Tests		Asphalt Emulsion List	Asphalt Binder List	
UTBWC	2353 3151			
Micro-Surfacing	2354	 Asphalt Binder: Sample first load, then 1/250,000 gallons. Sample size of 1 quart metal container. Emulsified Asphalt: Sample first load, then 1/50,000 gallons. Sample size of ½ gallon wide screw top plastic container. 		
Seal Coat, Underseal & Otta Seal	2356			
Tack Coat	2357			
PASSRC & PASB	3151			
Asphalt Binder Rate	2354	Verify Application Rate 3/day	Verify Application Rate 1/day	
Micro-Surfacing			,	
Fog Seal	2355		Verify Application Rate 1/day	
Seal Coat, Underseal & Otta Seal	2356	Verify Application Rate 1/day		
Bit Tack Coat	2357			

Specification 2215 – Cold Inplace Recycling (CIR), Stabilized Full Depth Reclamation (SFDR) and Cold Central Plant Recycling Bituminous (CCPR)

Test Type	Contractor/Producer QC Testing Rates	Agency QA Testing Rates	<u>Grading & Base</u> <u>Manual/Form</u>
Gradation SFDR (Simple) Pre- ground un-stabilized material	1 per mile – report sieves 2" & 3"	Run gradation at the discretion of the Engineer	.215 / 101 report sieve 2" & 3"
Gradation (Entire) (Material to be stabilized)	ntire) (Material to One per day, give split Run gradation at sample to the Engineer discretion of the En		.215 / 101 report sieve 2", 1.5", 1.25", 1", ¾", 3/8",#4, #10, #30.
Gradation (Simple) (Material to be stabilized)	1 per mile for SFDR & CIR. 1 per 2,000 ton for CCPR.	Run gradation at the discretion of the Engineer	.215 & .293 / 101 report sieve 2" & 1.5" for SFDR, 1.5" and 1.25" for CIR
CIR & SFDR Depth Check – Unstabilized and Stabilized	None	1 per day	.284 / 401
SFDR & CCPR Moisture – before injecting with bituminous.	1 per mile of anticipated daily production and after rain. 1 per mile for SFDR after mechanical drying.	Run moisture at the discretion of the Engineer	.245 Speedy tester not allowed.
Penetration Index (DCP) – SFDR only Unstabilized.	2 per mile	1 per mile	.255 / 205
Calibrate: mineral stabilizing agent application rate.	Once using design rate per vane feeder.	Observe contractor calibration	.286 or .287
Moisture: before injecting liquid bituminous material	1 per mile of daily anticipated SFDR & one after rain or mechanical drying out (disking, etc.).	none	.281 / 105
Yield: Mineral Stabilizing Agent and/or Liquid Bituminous Material	1 per transport load each type	1 per day each type	.286 & .287 / 402 & 403
Compaction: Nuclear density for SFDR stabilized and CIR	10 per lane mile, (see note below).	Observe the Contractor.	.282
Control Strip: SFDR Stabilized and CIR	Minimum of once per project	Observe the Contractor.	
Bituminous Material Samples		. 1 per 50,000 gallons; sample first load	1 quart each sample
Mineral Stabilizing Agent Samples	None	1 sample	none
Foaming asphalt checks expansion ratio & half life	1 per load	Observe the Contractor.	.285
Moisture (stabilized) – before placement of next layer during curing.	2 per day until moisture stabilizes & placement of HMA.	None	Grading & Base Manual

Note: The Engineer may require a Contractor to perform additional nuclear density tests in areas that the Engineer believes are failing density requirements.
Grading and Base Construction Items (1 of 4)

		Material Type	Spec.	Contractor / Producer QC Testing Rates	Contractor/ ProducerMinimum Required Agency QA TestingQC TestingRatesRates	
		Aggregate Surfacing	3138	1 / 1,000 CY	> 250 yd ³ (CV) or 500 Tons and < 2000 yd ³ (CV)	
		Aggregate Base	3138	stockpile	(5). Test two random samples from each lot	1/2000
		Shoulder Base Aggregate	3138	only required for	> 2000 yd ³ (CV) or 4000 Tons. Divide into lots with lot size (5) no greater than 2000 yd ³ (CV)	30 lb.
		Drainable Aggregate Base (OGAB & DSB)	3136	material on hand.	or 4000 Tons. Test two random samples from each lot and average.	
sting (2) (3)		Granular and Select Granular Material (borrow/embankment)	3149.2B	1/10,000 CY (CV) only required for	1/40,000 yd³ (CV)	1/source 30 lb.
F	lest	Stabilizing Aggregate	3149.2C	material on hand.		
Gradation		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 –		
		Backfill Materials	3149.2D	before		
		Granular Bedding	3149.2F	the project	1/ source	
		Aggregate Bedding	3149.2G	Only		1/source 30 lb.
		Coarse Filter Agg.	3149.2H	required for		
		Filter Aggregate	3149.2J	materials on		
		Sand Cover	3149.2K	hand. Spec 1906.2		
Proctor		Non-Granular Material Used to determine optimum moisture & maximum density.		None	1 per major soil, subgrade prep specified density requires 100% of proctor density.	1 sample 25 lb.
and Cone, Nuclear Density or LWD	Specified Density *	Non-Granular Material For non-granular material, i.e., material that does not meet 3149.2B.1	AGENCY TESTING: Roadway Embankment: On test rolled, One test per 10,00 Material anular material t meet 3.1 3.1 Sidewalks and Trails: 1 per 500 feet. Subgrade Preparation: One per 25 road stations.		 TING: Roadway Embankment: One test per 4,000 test rolled, One test per 10,000 yd3 (CV) Iverts & abutments: 1 test per every 2 feet of fill. d Longitudinal Trenches: One test per 300 feet of e fill. d Trails: 1 per 500 feet. paration: One per 25 road stations. 	yd3 (CV) <u>or if</u> each structure
ŝ						

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	
* Q	Aggregate Base Shoulder Base Aggregate	3138 2211.3C		1 DCP tests per 500 yd ³ (CV) or 1 per 1000 Tons. If test rolled, 1 test / 1,500 yd3 (CV) or 3000 Tons.	None	
) or LV	Reclamation FDR	3135.2B 2215.2C	None	1 DCP test per 3,000 yd ² . If test rolled, 1 test / 10,000 yd ²		
d (DCP	Walks & Trails	2521	521 1 per 500 feet of Sidewa			
Penetration Index Metho	Granular Materials Subgrade Preparation (for materials meeting 3149.2B1)	3149.2B	AGENCY TESTING Roadway Embar per 6,000 yd3 (C Transverse culve Structures and L per 2 feet per fil Sidewalks and T Subgrade Prepa	AGENCY TESTING: Roadway Embankment: One test per 2,000 yd3 (CV) or if test rolla per 6,000 yd3 (CV) Transverse culverts & abutments: 1 test per every 2 feet of fill. Structures and Longitudinal Trenches: One test per 300 feet of ea per 2 feet per fill. Sidewalks and Trails: 1 per 500 feet.		
Iring All Compaction (4)	Aggregate Base, Shoulder, Surfacing & Walks			For 2118, 2211,2221, and 2521: 1 / 1,000 yd3 up to 10 Maximum		
	Drainable Aggregate Base (OGAB & DSB)	3138	None	adjacent structures, may test once, use judgement For Quality Compaction: Test as directed by Engineer.	None	
Test D lethod	Reclamation FDR	3135.2B	None	1 / 20,000 γd²		
re Content [.] M	All Embankment Materials	2106 3149	None	1/10,000 yd3 up to 10 Maximum For Quality Compaction: Test as directed by Engineer.		
Moistu	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	equired for aterial on and, Spec 1906.2		
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: Non-granular subgrade (2106) Granular subgrade that does not meet 3149.2.B.2 (2106) Base (2211) and shoulder base (2221) Non-Stabilized Full Depth Reclamation (FDR) (2215) Minimum 12' width and 300' length. Agency to observe test rollin 		

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)

<u>Guidelines</u> for Required Crushing & Aggregate Quality Tests

	3149 Granular Materials	3138 Aggregate for Surface and Base	3136 Drainable Bases
Crushing	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.
Bitumen Content	At the discretion of the Engineer	At the discretion of the Engineer	Not applicable
LAR	Not applicable	Yes , if source is carbonate quarry and does not contain bitumen.	Yes
Insoluble Residue	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.
Litho Exam & Shale Float Test	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 <u>SALT Construction website</u>.

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/form 001_08_043019.xlsx

Certified Ready-Mix Concrete (1 of 3)

The Prime Contractor is responsible to assure that all ready-mix concrete used is produced by an annually Certified Ready-Mix plant as detailed in Specification 2461.3F.

Material Spec.		Test Type (Concrete Manual)	(Contractor / Produc	cer QC Testing	Rates	<u>Form</u>	
bridge 2406.2 2411.2 2461.2 2461.3 general 2301** 2452.2 2461.2 2461.3 2506.2		Gradation (5-694.145) (5-694.148) 3126, 3131, 3137	1 per fraction yd3 per day, tak <u>Bridge Deck Co</u> 1 per fraction p yd3 produced	Concrete Agg. Work				
2511.2 2514.2 2520.2 2521.2	ates *		Departme Verification 1 per fraction pe	nt Plant Monitor T Sample: When we er source per week, Cont	esting Rates: Vo ekly concrete qu split and tested ractor	erification only uantity is ≥ 20 yd³: I by both Agency and	sheet, Agg. Grad. Control Charts,	
2531.2 2533.2 2545.2 2554.2 2557.2	ction Testing R	Moisture Content (5-694.142)	QC rates:	1 every 4 hours When Daily Concrete Quantity ≥ 20 yd ³	QA rates:	None	R-M Plant QC workbook. R-M Plant QA Workbook	
2564.2 2565.2	rodu	Test Type		Agency QA Te	sting Rates (1)		WORKBOOK	
	oncrete Plant Pi	Aggregate Quality (5-694.146) Coarse Aggregate (% Passing 200) (5-694.146)	Minimum of 1 same 30-day t <u>poured during</u> coarse aggrega Gradation re	Minimum of 1 per each fraction - use of MnDOT test results for the same 30-day time period is acceptable. For all bridge deck concrete poured during the month: Test monthly quality to 3137.2D2 for each coarse aggregate fraction. Designate 3137.2D2 on the sample card. Gradation results will be included with the monthly quality tests.				
	Ŭ	Minimum Aggreg	ate Sample Size	All Aggregate Grada	ation and Qualit	ty samples require	2410	
		Aggregate Size	Gradation	Ouality	Moisture	% -200 Course Agg.	2410 Sample ID	
		3/4" Plus. #4	30 lb.	50 lb.	2000 g	5000 g	Card	
		3/4" Minus, #67	10 lb.	30 lb.	2000 g	2500 g		
		#7, CA-70	6 lb.	20 lb.	2000 g	2500 g		
		CIA to meet #67	6 lb.	20 lb.	500 g	500 g		
		CIA to meet JMF, FIA, CS, FS	500 g	20 lb.	500 g	500 g		
		CA-80, #89	1.1 lb. (500 g)	20 lb.	500 g	500 g		
		Fine Aggregate	1.1 lb. (500 g)	20 lb.	500 g	-		

Certified Ready-Mix Concrete (2 of 3)

Spec.		Test Type Agency QA Testing Rates (1)			
		Sampling Location First load each da further discharge concrete <u>must h</u> specimens from the are n Subse	ons for Air, Slump (when required), Temperature and Cylinder Testing by per mix - Take sample after discharging approximately 1/4 yd3, stop e until both slump and air content test are completed. The first load of have passing air content and slump prior to placement. Cast strength same load as the air content and slump test. Test whenever adjustments hade to the mix. Take all tests at the point of placement. equent tests - Sample from the middle portion of the load.		
bridge 2406.2 2411.2 2461.3 general 2301** 2452.2 2461.3 2506.2 2511.2 2514.2 2520.2 2521.2 2531.2 2531.2 2533.2 2545.2 2554.2 2554.2 2554.2 2554.2 2555.2		Air Content - Type 3 Concrete (5-694.541)	1 test per 100 yd3. Test first load each day per mix. Test when adjustments are made to the mix.		
		Slump (5-694.531)	Test first load each day per mix, then as necessary to verify passing slump. For Bridge Concrete: 1 test per 100 yd3. No testing required for slip form placement.		
	ing Rates	Air and Concrete Temperature (5-694.550)	Record temperature each time air content, slump or compressive strength specimen is performed/fabricated.		
	te Field-Testi	Compressive Strength (5-694.511) Standard cylinder size is 4 x 8, use 6 x 12 with aggregate greater than 1 1/4". Review 2461.3G.5 Test Methods and Specimens.	<u>General Concrete Grades F, G, M, P, and R:</u> 1 set of 3 cylinders per 300 yd3 per mix per day.		
	Concre		<u>Bridge Concrete Grades B, S, and Y</u> : 1 set of 3 cylinders per 100 yd3, then 1 set of 3 cylinders per 300 yd3 per mix per day	2409 Concrete	
			Agency will break 1 set of 3 cylinders at 28 days. Agency will cast up to 3 control cylinders, any additional control cylinders are the responsibility of the Contractor.	Cylinder ID Card	
			Cellular Concrete: 1 set of 4 cylinders (28 days) per day, fill in 2 equal lifts, <u>do not rod</u> , lightly tap the sides, cover and move to area with no vibration. Do not disturb for 24 hours.		

NOTES:

(1) Review the requirements of 2461.3F Certified Ready-Mix Concrete, 2461.3G Concrete Placement and 5-694.010 Inspector's Checklist in the Concrete Manual.

*Small Quantity Requirements are for less than 20 yd3 per day, Plant Monitoring is not required but <u>Concrete</u> <u>Field Testing is required</u>.

****Concrete Pavement:** Use Certified Ready-Mix Concrete testing rates when: a) The entire concrete paving project is less than 3,500 cu. yd. b) When a secondary plant is used to provide minor work.

Certified Ready-Mix Concrete (3 of 3)

The Prime Contractor is responsible to assure that all ready-mix concrete used is produced by an annually Certified Ready-Mix plant as detailed in Specification 2461.3F.

Guidelines

- The testing rates shown in this Schedule of Materials Control are minimums. Take as many tests as necessary to ensure quality concrete. Should circumstances arise on a project which makes the testing rate impractical, contact the Concrete Engineering Unit.
- All samples shall be taken in a random manner using an appropriate number generator.
- The first load of concrete for any pour must have passing air content and slump results, prior to placing.
- If batching or field adjustments are made, test the adjusted load for air content and if suspect, slump, before it gets into the work. The Engineer will determine if additional testing is required after each water adjustment made during slip form placement. Continue to test for air content and slump, if suspect, when test results are inconsistent or marginal.
- If any field test fails, reject the concrete or if the Producer adjusts the load to meet requirements, record the adjustments on the Certificate of Compliance. Retest the air content of the load, slump if required, and record the adjusted test results. Test the next load for air content and slump, if required, before it gets into the work.
- Material not meeting requirements shall not knowingly be placed in the work. If failing concrete inadvertently gets placed in the work, review either the MnDOT Standard Specifications for Construction or contact the Concrete Engineering Unit for monetary deduction recommendations.

Best practices

- It is recommended that the Agency Plant Monitor be present during critical pours, such as superstructure or paving concrete (i.e., 3A21, S mixes, JMF mixes).
- It is recommended that the Agency representative continually monitor the progress of all concrete pours in the field and review Certificate of Compliances. It is not a recommended practice to only perform minimum testing requirements and leave the pour.
- It is recommended to make standard strength cylinders after the first load of concrete unless that is the only load of concrete for that mix that day.
- The Agency is responsible for verification sampling. For safety and consistency in sampling and splitting of the sample, it is recommended that the agency and the producer/contractor obtain the verification sample in tandem. This will allow the producer/contractor to witness the sampling process and take possession of the verification companion.

Concrete Plant and Field Materials

All materials must come from certified or qualified sources. All certified sources must state so on the delivery invoices. The most current list of certified/approved sources can be found at MnDOT Material website. Materials listed on the Approved/Certified Products List <u>are not required</u> to be sampled but need to be listed on the Material Acceptance Summary detailed in the SALT SMC. Samples can be submitted as directed by the Engineer.

	Material	Spec. No.	Agency QA Field Sampling Rate	Form No.
	Portland Cement	3101	Shall be a Certified Supplier - For certified ready-mix and	24300
erials	Slag	3102	concrete paying sample rates: 1 sample when the plant is certified. Take additional samples f the plant changes sources or as the contract requires. The producer obtains a	ID Card Cement
ıg Mat	Blended Cement	3103	5 lb. sample and stores the sample in a sealed container provided by the Agency and includes the supplier's delivery	Samples
Concrete Plant Batchi	Fly Ash	3115	invoice from which the sample is obtained.	24308 Fly Ash
	Admixtures (Acceleration, Retarding, Water- Reducing, Air- Entraining, etc.)	3113	 For all concrete: 1 sample of Air Entrainment and Type A Water Reducer in a 1/2-pint plastic container provided by the Agency when the plant is certified. Take additional samples if the plant changes sources or as the contract requires. The Producer should agitate the admixture tank prior to obtaining samples form dispensing tubes and store the samples in sealed plastic containers provided by the Agency. 	2410 Sample ID Card
	Water 390		1 Non-Potable Water sample in a 1-gallon clean glass or plastic container from a questionable source. Clarified Water: 1 per month during Department production	
	Preformed Joint Filler	3702	Visual Inspection	
	Preformed Elastomeric 3721 Type			
s	Silicone Joint Sealer	3722	1 per lot. Only materials from a qualified source.	
erial	Hot Poured Elastomeric	3723	Link to Approved Products List.	
Mat	Туре	3725		2410 Sample
ield	Burlap	3751	Visual Inspection	ID Card
Concrete Fi	Colored Concrete Membrane Curing Compound	3752	Visual Inspection - Use only from qualified source.	
	Membrane Curing Compound	3753 3754 3755	Visual Inspection - Use only pre-approved curing compounds.	
	Plastic	3756	Visual Inspection - Must be white opaque and free from holes.	
	Refer to the	schedule for sampling requirements for concrete reinforcemer	t.	

Test Type (concrete manual)	Spec.	Concrete Paving Batch PlantCertified Ready-Mix PlantAgency QA TestingAgency QA Testing		<u>Form</u>	
Gradation (1) (5-694.145) (5-694.148)	3126 3131 3137	Daily Concrete Quantity ≥ 500 Agency QA Testing Rates: Verification only Verification Sample: -, *1 per fraction per source per day, split and tested by both Agency and Contractor	Daily Concrete Quantity ≥ 100 yd3 Agency QA Testing Rates: Verification only Verification Sample: -, *1 per fraction per source per week, split and tested by both Agency and Contractor	JMF Concrete Aggregate Workbook	
Aggregate Moisture - QC Verification (2) (5-694.142)	2301	If w/c incentives apply: 1 per 1000 yd3 or every 4 hours, whichever is greater. Take initial sample within the first 250 yd3.	If w/c incentives apply: 1 per 200 yd ³ or every 4 hours, whichever is greater. Take initial sample within the first 100 yd ³ .	Concrete	
Water Content, Microwave Oven Verification (3) (5-694.532)	<u>2301</u>	Take initial sample within the first 250 yd ³ . At least one additional verification test should be taken if more than 1000 yd ³ is produced in a day.	Take initial sample within the first 100 yd ³ . At least one additional verification test should be taken if more than 400 yd ³ is produced in a day.	W/C Ratio Work sheet	
Coarse Aggregate, -200 sieve (5-694.146)	3131 3137	Test Verification sample on the first da Contractor mobilizes the plant, chan cleanliness of the coarse aggregate is in thereafter200 test may be performed discretion of th	JMF Concrete Aggregate Workbook		
Coarse and Fine Aggregate Quality (4)	3126 3131 3137	During concrete production: 1 random 20,000 yd ³ of production. Split the Qu quarters of the sample to the producer/ sample to the lab for quality testing inc coarse agg	2410 Sample ID Card		
Alkali Silica Reactivity (ASR) Testing	2301	1 per paving project per sand source. P supplementary cementitious materia "Project Specific ASR Testing" on all 3 required if the entire project is	2410 24300 24308		
Coarse Aggregate		If coarse aggregate quality incentives apply: Test the Class B aggregates for % absorption and Class C aggregates for % carbonate including any other test necessary to make those determinations. Sample the 2 largest fractions in accordance with the following table and 2301:			
Quality Testing of Incentive / Disincentive	3137	Plan Concrete Cubic Yards 3,500 - 7,500 7,501 - 10,000 10,001 - 25,000 25,001 - 50,000	Samples per fraction 3 5 10 15	 Disincentive Work sheet 2410 Sample ID Card 	
		50,001 +	20	•	

Concrete Pavement – Agency (1 of 2)

*Use Certified Ready-Mix Concrete testing rates when: a) The entire concrete paving project is less than 3,500 cu. yd. b) When a secondary plant is used to provide minor work.

Concrete Pavement – Agency (2 of 2)

Test Type	Spec.	Concrete Field Testing - Agency QA Testing	Form
Air Content before consolidation	rete site	1 correlation air test per day	
Concrete Temperature	<u>Concr</u>	Record temperature each time air content, slump or strength test specimen is performed/fabricated by the Agency.	
Flexural Strength	<u>Review</u> Manua	Supply beam boxes or cylinder molds. Cure and test beams and cylinders MnDOT standard beam box size is 6" x 6" x 20" unless others are approved by the Concrete Engineer.	2162 Test Beam Data
Opening to Traffic Strength		Supply beam boxes or cylinder molds for field control testing. Cure and test beams and cylinders.	
Concrete Pavement Texture		Determine texture testing locations using random numbers. Observe Contractor Testing when possible.	Duching
Thickness		Determine probing and coring locations using random numbers. Initial pavement at core locations and re-initial the sides of specimens after coring to clearly verify their authenticity. Field measure cores to the nearest 1/8". Transport to the MnDOT Office of Materials and Road Research for final thickness determination	Coring, Texture and MIT-Scan T2 Report
Surface Smoothness/ Dowel and Tie Bar Steel Location		Observe Contractor Testing when possible	

NOTES:

(1) All gradation samples shall be taken in the presence of the Agency, unless otherwise authorized by the Engineer. All samples shall be taken off the belt leading to the weigh hopper unless otherwise approved by the Engineer. All gradations and quality tests require companion samples. If Coarse Aggregate Quality Incentive / Disincentives apply: The Agency may also use the QA samples for incentive / disincentive testing. Notify the Contractor/Producer to double the QC/QA sample size. If well-graded aggregate incentives apply: Use the Contractor's gradation results for well-graded aggregate incentive. Use the Well-graded Concrete Agg. Worksheet.

(2) If w/c incentives apply: Use aggregate moisture results for determining the water content to calculate the w/c incentive/disincentive. Use the Concrete W/C Ratio Calculation Worksheet and do not leave sample unattended. Microwave oven verification testing to verify the w/c ratio is completed in conjunction with Agency aggregate moisture testing. Do not leave samples unattended.

(3) If w/c incentives apply: Microwave oven verification testing to verify the w/c ratio is completed in conjunction with Agency aggregate moisture testing. Do not leave samples unattended.

(4) Prior to concrete production: Obtain pre-production samples for quality testing at least 16 hours prior to concrete production. Samples may be taken from the stockpile and -200 test may be performed at the lab instead at the plant at the discretion of the Engineer. If the entire project is <3,500 yd3, pre-production sampling is not required.

Minimum Aggregate Sample Size *companion required, double sample					
Aggregate Size	Gradation*	Quality*	Moisture	% -200 C.Agg	
3/4" Plus, #4	30 lb.	50 lb.	2000 g	5000 g	
3/4" Minus, #67	10 lb.	30 lb.	2000 g	2500 g	
#7, CA-70	6 lb.	20 lb.	2000 g	2500 g	
CIA to meet #67	6 lb.	20 lb.	500 g	500 g	
CIA to meet JMF	500 g	20 lb.	500 g	500 g	
FIA, CS, FS	500 g	20 lb.	500 g	-	
CA-80, #89	500 g	20 lb.	500 g	500 g	
Fine Aggregate	500 g	20 lb.	500 g	-	

Test Type (concrete manual)	Spec.	Concrete Paving Batch Plant Contractor/Producer QC Testing	Certified Ready-Mix Plant Contractor/Producer QC Testing	
Gradation (1) (5-694.145) (5-694.148)	3126 3131 3137	When > 250 yd ³ produced/ day: 1 per 2500 yd ³ per fraction per source. Take initial samples for aggregate gradation testing within the first 500 yd3.	When 20-400yd ³ produced/ day: 1 per fraction per source. If over 400 yd3 per day, take a second gradation after the total exceeds 400 yd3.	
		Test the verification companion sample on the day the sample was taken.	Test the verification companion sample on the day the sample was taken.	
Coarse Aggregate -200 sieve (5-694.146)	3131 3137	Test the verification companion sam	ple. Test these samples at the plant.	
Aggregate Moisture QC Verification (2) (5-694.142)	2301	If w/c incentives do not apply: 1 per 1000 yd ³ , or 1 completed every 4 hours, whichever is the higher sampling rate.	If w/c incentives do not apply: 1 completed every 4 hours.	
Water Content, Microwave Oven Verification	Review	If w/c incentives apply: Obtain the plastic o Manual (5	concrete sample at the plant. See Concrete 5-694.532)	
Unit Weight QC	<u>Concrete</u> <u>Manual</u>	Test one load of concrete per day at the	plant. See Concrete Manual (5-694.542)	
Air Content QC (5-694.541)	<u>2301</u>	Test the first load of concrete at the plant		
Coarse Aggregate Quality	3126 3131 3137	Test at Producer/Co	ontractor Discretion	
Unit Weight		Test 1 load of concret	e per day at the plant.	
Air Content for Type 3 Concrete (QC)		Test the first load of	concrete at the plant.	
Coarse Aggregate Quality Testing for Incentive / Disincentive	3137	Test at the Contractor's discretion.		

Concrete Pavement – Producer/Contractor (1 of 2)

* Use Certified Ready-Mix Concrete testing rates when: a) The entire concrete paving project is less than 3,500 cu. yd. b) When a secondary plant is used to provide minor work.

Concrete Pavement – Producer/Contractor (2 of 2)

NOTES:

(1) Performing testing on representative material at the end of the most recent day of production is allowed. If well-graded aggregate incentives apply: Use the Contractor's gradation results for well-graded aggregate incentive calculations as verified by Agency testing. Washing the fine aggregate gradation (QC) sample is not required when the result on the -#200 sieve of the unwashed sample is less than 1.0%. Wash all fine aggregate Verification Companion samples.

(2) Complete the initial moisture content and adjust the batch water prior to the start of concrete production each day. If weather conditions allow, performing moisture testing on representative material at the end of production the prior evening is allowed. Enter results into the batching system in real time.

Test Type	Spec.	Concrete Field Testing - Contractor QC Testing
Air Content before consolidation for Type 3 concrete	<u> Vebsite</u>	1 per 300 yd ³ or 1 per hour, whichever is less. Test first load each day per mix.
Slump	1anual /	Test slump if concrete is suspected to be outside of required slump range as directed by the Engineer.
Concrete Temperature	icrete N	Record temperature each time air content, slump or strength test specimen is performed/fabricated by the Contractor.
Flexural Strength	Review Con	For information only: 1 beam (28-day) per week per mix. 1 cylinder (28-day) per week per mix may be substituted at the discretion of the Engineer. Provide moist curing environments, fabricate beams or cylinders, deliver to curing site, and clean beam boxes
Opening to Traffic		For opening to traffic: Make field control beams within the last hour of concrete poured each day. Substitute field control cylinders for field control beams at the discretion of the Engineer. Maturity testing is allowed in lieu of field control cylinders or beams. Fabricate beams or cylinders, deliver to curing site, and clean beam boxes.
Concrete Pavement Texture		Perform texture testing at locations determined by the Engineer in accordance with the Contract
Thickness		Probe, scan and core at locations determined by the Engineer in accordance with the Contract
Surface Smoothness		Measure smoothness of the final concrete as required by the Contract. Perform all profiling in the presence of the Engineer unless otherwise approved by the Engineer.
Dowel Bar and Tie Bar Steel Location		For Concrete projects greater than 3500 yd3. On the first day and each day of slip form pavement: (1) Verify the adequacy of the dowel bar anchoring by scanning seven random doweled contraction joints in each sublot. (2) Verify the presence and alignment of tie bar steel by scanning 75 lin. Ft. in each sublot. If the Engineer determines the first day's dowel bar anchoring and tie bar placement processes are acceptable, the Engineer may allow a reduction in scanned joints in each sublot as follows: (1) Verify the adequacy of the dowel bar anchoring by scanning four random doweled contraction joints per sublot. (2) Verify the presence and alignment of tie bar steel by scanning 25 lin. ft. out of every sublot.

Test Type (Concrete Manual)	Spec.	Contractor/Producer QC Testing		Agency QA Testing	<u>Form</u>
Gradation, Quality, Coarse Agg -200 QC/Verification (5-694.145) (5-694.146) (5-694.148)	3126 3137	Prior to production: The Contractor shall provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source. Test Agency companion samples are Contractor's discretion. No quality tests are required.	Pr tin site f ag Ide "Q' the	ior to production and each ne aggregate is delivered to : 1 gradation and quality per fraction prior to concrete production and each time gregate is delivered to the site. entify quality samples with a ' on the Sample ID Card and Quality companion sample.	2410 Sample ID Card
Air Content - Type 3 Concrete (Verification) (5-694.541)		None	1 p	er 15 yd ³ , Test at beginning of pour each day.	Weekly
Slump (Verification) (5-694.531)	2431	None	1 pe po fro mix slui	er 15 yd ³ Test at beginning of our each day. For concrete om a concrete mobil, allow to hydrate 5 minutes before mp test to assure all cement is saturated.	of Low Slump Concrete
Compressive Strength (5-694.511)		None	1 c stai	ylinder (28 day) per 30 yd ³ , ndard cylinder mold size is 4 x 8 inch.	2409 Cyl. ID Card
Cement	3101	None	Ea to sup wh	ch time cement is delivered site. Obtain a 5 lb. sample. Store sample in a sealed container and include the plier's delivery invoice from nich the sample is obtained.	2430 Sample ID Card
Admixtures	3113	None	ad Ob th	Each time new lot/batch mixture is delivered to site: tain a ½ pint sample. Store e sample in a sealed plastic container.	2410 Sample ID Card
Test	All grad sample s	Minimum S ation and aggregate quality test ize. Samples taken at location i pla	amp ts rec ident nt.	le Size quire companion samples tified on Contact Report lo	, double ocated at
Gradation		6 lb. for # 7, 500 g for CA-80		500 g for Sand	
Quality	30 lb. for Coarse Aggregate			20 lb. Fine Aggregat	te

Concrete Wearing Course for Bridges

Test Type	Spec.	Contractor/Producer QC Testing	For	Agency QA Testing volumetric batching only.	<u>Forms</u>
Gradation, Quality, Coarse Agg -200	3126 3137	Prior to production : The Contractor shall provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source. No quality test results are required. Test companion samples at Contractor's discretion.	frod 1 prod prod Qua 1 t sou gra So req qua Sa	Gradation: Prior to concrete uction and each time aggregate is delivered to the site. ber aggregate fraction prior to uction and each time aggregate is delivered to the site. lity Testing & Coarse Agg -200: est per aggregate fraction per urce. The Agency may use the adation results for the Quality amples as a substitute for 1 uired field gradation. Identify lity samples with a "Q" on the mple ID Card and the Quality companion sample.	2410 Sample ID Card
Air Content - Type 3 Concrete (Verification)		None	: wł sam	L per 15 yd ³ or 1 per 4 hours hichever results in the highest pling rate. Test at beginning of pour each day.	21412
Slump (Verification)	<u>Review</u> <u>Concrete</u> <u>Manual</u> <u>Website</u>	None	1 p k hydra to a Test to	er 15 yd ³ , Test at beginning of pour each day. Allow mix to ate 5 minutes before slump test assure all cement is saturated. slump if concrete is suspected be outside of required slump range.	Weekly Report of Low Slump Concrete
Compressive Strength		None	1 se yd ^{3.} (3) f cy	t of 3 cylinders (28 day) per 30 The Agency will cast up to three ield control cylinders, standard linder mold size is 4 x 8 inch.	2409 Cyl. ID Card
Type 1 Cement	3101	None	Fo Eac site sar in inv	br Volumetric batching only: th time cement is delivered to a. Obtain a 5 lb. sample. Store nple in a sealed container and iclude the supplier's delivery oice from which the sample is obtained.	2430 Sample ID Card
Admixtures	3113	None	Each is de sa	time new lot/batch admixture livered to site: Obtain a ½ pint ample. Store the sample in a sealed plastic container.	2430 Sample ID Card
Test	Minimum Sample Size All gradation and aggregate quality tests require companion samples, double sample size. Samples taken at location identified on Contact Report located at plant.				
Gradation		6 lb. for # 7, 500 g for CA-80		500 g for Sand	
Quality		30 lb. for Coarse Aggregate	20 lb. Fine Aggregate	2	

Concrete Pavement Repair – CPR for 3U18

Dowel Bar Retrofit – (DBR)

Test Type	Spec.	Contractor/Producer QC Testing	Agency QA Testing	Form
Gradation Testing (Verification), Quality Testing including, Coarse Agg -200	3137	Prior to production: The Contractor shall provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source. No quality test results are required. Test companion samples are Contractor's discretion.	Gradation: Prior to concrete production and each time aggregate is delivered to the site. 1 per aggregate fraction prior to production and each time aggregate is delivered to the site. Quality Testing & Coarse Agg -200: 1 test per aggregate fraction per source. The Agency may use the gradation results for the Quality Samples as a substitute for 1 required field gradation. Identify quality samples with a "Q" on the Sample ID Card and the Quality companion sample.	2410 Sample ID Card
T T				
Test Type	Spec.	Agency Q	A Testing	Form
lest lype	Spec.	Agency Q Contractor Testing: Any additior responsibility of	A Testing nal field control cylinders are the i the Contractor.	Form
DBR Material Compressive Strength	<u>Review</u> <u>Concrete</u> <u>Manual</u>	Agency Q Contractor Testing: Any addition responsibility of Agency 1 set of 3 cylin The Agency will cast up to three (3) fie mold size is	A Testing nal field control cylinders are the the Contractor. Testing: nders (28 day) eld control cylinders, standard cylinder s 4 x 8 inch.	2409 Cylinder ID Card
DBR Material Compressive Strength Test	Spec. <u>Review</u> <u>Concrete</u> <u>Manual</u> All grada	Agency Q Contractor Testing: Any addition responsibility of Agency 1 set of 3 cylin The Agency will cast up to three (3) fie mold size is Minimum S tion and quality tests require companio at location identified on Con	A Testing nal field control cylinders are the the Contractor. Testing: nders (28 day) eld control cylinders, standard cylinder s 4 x 8 inch. Cample Size on samples, double sample size. Sampl tact Report locates at plant.	2409 Cylinder ID Card
DBR Material Compressive Strength Test Gradation	Spec. Review Concrete Manual	Agency Q Contractor Testing: Any addition responsibility of Agency 1 set of 3 cylin The Agency will cast up to three (3) fie mold size is Minimum S tion and quality tests require companio at location identified on Con 500 g for #	A Testing hal field control cylinders are the the Contractor. Testing: hders (28 day) eld control cylinders, standard cylinder is 4 x 8 inch. Cample Size on samples, double sample size. Sampl tact Report locates at plant. 89 & Sand	2409 Cylinder ID Card

Landscaping and Erosion Control Items

Kind of Material	Spec. #	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Manufactured Topsoil Borrow, Salvaged Topsoil (stockpiled)	3877.2	As directed by the Engineer
<u>Plant Stock & Landscape</u> <u>Materials</u>	3861 and 2571.2A1	Materials must be in accordance with the Inspection and Contract Administration Guidelines for MnDOT Landscape Projects of which determines the minimum and maximum criteria thresholds. Certificate of Compliance, Nursery stock certificate registered with MN Dept. of Agriculture. Out of state products subject to pest quarantines must accompanied by documentation certifying all products are free of regulated pests.
Erosion Control Blanket	3885	
Erosion Control Netting	3885	Visual Inspection and Check approved products
<u>Silt Fence</u>	3886	or approved vendors list - As directed by the Engineer.
Erosion Stabilization Mat	3885	
Flotation Silt Curtain	3887	Accepted, based on manufacturers certification of compliance. Check weight of fabric.
Filter Logs	3897	Visual Inspection
Flocculants	3898	Obtain copy of Certificate of Compliance and MSDS
Fertilizer	3881	Obtain copy of invoice of blended material stating analysis.
Agricultural Lime	3879	Contractor must supply amount of ENP (Equivalent Neutralizing Power) for each shipment.
Mulch - Type 3		Certified Weed Free (Certified sources only) Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
Mulch - Type 6 - Woodchips	3882	All wood chips supplied by a supplier outside the Emerald Ash Borer quarantine area or have an Emerald Ash Borer Compliance Agreement with the MDA
Seeds	2076	(Certified Vendors Only) (Mixes 100-299) Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
Native Seed	3870	(Mixes 300-399) certified seed only. Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
Sod	3878	Visual Inspection - Check approved products list - As directed by the
Compost (from Certified Source)		Association (MCIA) for salt tolerant sod.
Compost (from Non- Certified Source)	3890	Visual Inspection - As directed by the Engineer.
Hydraulic Soil Stabilizer	3884	Check Approved/Qualified Products List - As directed by the Engineer.

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
Magnesium Chloride	3912	listing on Qualified Products website.
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
Waterproofing Materials		
Membrane Waterproofing System	3757	Visual Inspection - Check qualified products list.
Waterproofing Materials - Three	Ply System	
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
Paints		
<u>Waterborne Latex - Traffic Paint</u>	3591	
Epoxy Traffic Paint	3590	Visual Inspection - Check qualified products list - retain Certificate of Compliance.
Traffic Marking Paint	Special Provisions	
Non-Traffic Striping Paints	3500 Series	Retain Certification of Compliance
Bridge Structural Steel Paint	3520	
Exterior Masonry Paint	3584	Visual Inspection - Check approved products list - retain Certificate of Compliance.
Noise Wall Stain	Special Provisions	
Drop-on Glass Beads	3592	Visual Inspection - Check qualified products list. Retain Certificate of Compliance.
	3354	
Pavement Marking Tape	3355	Visual Inspection - Check qualified products list. Retain Certificate
	Special Provisions	or compliance.
Signs and Markers	3352	Visual Inspection - Check qualified products list.

Metals (1 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate) *
Guard Rail		
Fittings - Splicers, Bolts, Posts etc.	3381	
Structural Plate Beam	3382	Visual Inspection - Materials shall be approved before use.
Non-High Tension Guard Rail Cable	3381	Call MnDOT inspector at 218-846-3613 to see if material has been approved.
High Tension Guard Rail	Special	
Cable	Provisions	
Steel Posts		
Steel Signposts	3401	Visual Inspection - As directed by the Engineer. Retain Certificate of Compliance in Project file.
Formes Dests, Dress Dave	3403	Visual Inspection - As directed by the Engineer.
Rails and others	3406	Retain Certificate of Compliance and certified
	3379	mill analysis in project file.
Fence		
Barbed Wire		
Woven Wire		
Chain Link Fabric		
Components: cup, cap, nut, bolt, end clamp, tension band, truss rod tightener, hog ring, tie wire, tension stretcher bar, truss rod, clamp & tension wire	3376	Visual Inspection Retain Certification of Compliance, As directed by the Engineer.
Gates	3379	
Ріре		
Water Pipe and other Piping Materials	3364, 3365, 3366 & Special Provisions	Visual Inspection - As directed by the Engineer.
Reinforcing Steel - Inspec	ted by MnDO	OT & will be charged back to the Local Agency.
Uncoated Bars	3301	Retain Certificate of Compliance & Certified Mill Analysis
Epoxy Coated Bars	3301	For Epoxy-Coated bars, steel will be tagged "Inspected" when it has been sampled and tested by Mn/DOT prior to shipment, & it will be tagged "Sampled" when testing has not been completed prior to shipment. If the
Spirals	3305	Epoxy-Coated bars are not tagged "Sampled" or "Inspected", submit samples (1 bar 3ft long for each size for each day's coating production), Certificate of Compliance, & Certified Mill Analysis for testing. Maintain original Cert. of Compliance & Certified Mill Analysis in project file.
Stainless Steel Bars	Special Provisions	Visual Inspection Testing as directed by the Engineer (2 bars 3 ft. long per heat per bar size). Certified Mill Test Reports to be filed.

Metals (2 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptanc (Field Testing Rate) *	e Testing	
Reinforcing Steel - Inspec	Reinforcing Steel - Inspected by MnDOT & will be charged back to the Local Agency.			
Steel Fabric	3303	2 sq. ft. if epoxy coated.	Visual	
Dowel Bars	3302	One dowel bar and basket from each shipment.	Inspection -	
Prestress/Post Tension Strands	3348 Spec Prov	One sample of 2 strands by 6 ft. from each heat/production lot.	Certificate of Compliance.	
Castings				
Desire as Costines	3321			
Drainage Castings	2471	Visual Inspection - Check approved / qualifie	ed list.	
<u>Electrical</u>	2565			
Anchor Rods (Cast in Place) and Structural Fasteners	3385 3391	Visual Inspection - Check approved / qualified list. Testi the Engineer (see notes below)	ng as directed by	
Notes: Manufacturer must have one yearly passing test from the Department for each anchor rod or bolt type. Prior to installation, obtain copy of MnDOT passing test report from supplier. Specs 3385.2 A, B, & C require anchor rod markings per ASTM F 1554 S3. The end of each anchor bolt intended to project from the concrete must be die stamped with the grade identification as follows: Grade 36 = AB36, Grade 55 = AB55, Grade 105 = AB105.			olt type. Prior to chor rod t be die stamped	
Anchorages (Drilled In)	Provisions	Visual Inspection - Check qualified products	s list.	
Structural Steel		nspected by MnDOT & will be charged back to the Local Ag	gency.	
Steel Bridge - Beams, Girders, Diaphragms, etc.				
Concrete Girders- Diaphragms and sole plates		Structural Metals Inspection Tag and field inspection for	damage/defects	
Expansion Joints	2474	check dimensions for contract compliance	ce.	
Steel Bearings	2471	Review approved products list as directed by the	Engineer.	
Railing-Structural tube and ornamental		Note: Structural metals products will be inspect	ed at the	
Drainage Systems		Inspection Tag. An inspection confirmation r	eport	
Protection Angles		will be completed by Structural Metals Inspe	ection	
Overhead Sign structures	2564 2471	staff and sent to the field personnel. Only ap suppliers are allowed to supply Structural N products. A list of approved suppliers can be	oroved letals found	
High Mast Lighting Structures	2545 2471	on the <u>Bridge Office website</u> .		
Monotube Signal Structures	2565 2471			

*Check domestic steel requirement under 1601 Special Provision.

Geosynthetics, Pipe, Tile, Precast/ Prestressed Concrete

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)	
Corrugated Metal Products			
Culvert Pipe Under Drains Erosion Control Structures	3225 thru 3229, 3351, 3399	Make certain pipe is Certified on Invoice, retain certificate of compliance and certified mill analysis in project file.	
Structural Plate	3231		
Aluminum Structural Plate	3233	Retain the Certificate of Compliance and mill analysis in project file.	
Ріре			
Clay Pipe	3251	Visual Inspection	
Reinforced Concrete Pipe and Arches, Precast Cattle Pass Units, Sectional Manhole Units	3236	Field Inspection: Check for damage and defects. Check dimensions and class as required.	
Non-Reinforced Concrete Pipe	3253		
Drain Tile (Clay or Concrete)	3276	Visual Inspection - Acceptance as directed by the Engineer.	
Thermoplastic (TP) Pipe ABS and PVC	3245	Obtain Certificate of compliance. Check for approved marking printed on pipe. Field Inspect for damage or defects.	
Corrugated Polyethylene Pipe	3278	Check for markings (AASHTO M 252) Certificate of Compliance. Field Inspect for damage or defects.	
Corrugated Polyethylene Pipe - Dual Wall 12"-48"	3247	Visual Inspection - Check approved products list. Obtain Certificate of Compliance.	
Precast/Prestressed Concrete Structures - Inspected by MnDOT & will be charged back to the Local Agency.			
Reinforced Precast Box Culvert	3238		
Precast/Prestressed Concrete Structure (beams, posts, etc.)	2405	Field Inspection: Check for damage and defects. Check dimensions as required. Check for the "MnDOT" stamp and signature on the certification document.	
Manholes and Catch Basins	2506 3622		
Sewer Joint Sealing Compound	3724	Visual Inspection - Acceptance as directed by the Engineer.	
Preformed Plastic Sealer for Pipe	3726 Type b	Visual Inspection - Acceptance as directed by the Engineer.	
Bituminous Mastic Joint Sealer for Pipe	3728		
EPS Geofoam	Special Provisions	Visual Inspection - Acceptance as directed by the Engineer. Check for yellow aged material, uniformity and dimensions.	
Geotextile Fabric and Geogrid Reinforcement	3733 and Special Provisions	Obtain Certificate of Compliance stating minimum average roll values (MARV). MARV must meet Project requirements. Fabric must be listed on	
Geotextile Small Quantity Acceptance List		Geotextile Small Quantity Acceptance List.	
Silt Fence	3886	Visual Inspection - Check approved products list.	

Electrical and Signal Equipment Items (1 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)	
Lighting Standards (Aluminum or Steel)	3811	Visual Inspection - Obtain Certificate of Compliance. The Fabricator will submit "Certificate of Compliance," on a per project basis, to the Project Engineer.	
	2545	Visual Inspection - Check approved/qualified products list. Traffic signal	
Hand Holes (Precast, PVC and LLDPF)	2550	and street lighting projects require hand holes to be listed on the MnDOT Signals Approved Products List (APL) For cast iron frame and cover: see	
	2565	Metals - Drainage and Electrical Castings	
Foundation	2545	Slump as needed, 1 cylinder per 25 cu. yds. Rebar is required in concrete foundations as specified in the Contract documents for all traffic control signals and roadway lighting projects.	
Steel Screw In Foundations	2545 2565	See Approved/Qualified Products List for Roadway Lighting and Signals.	
Conduit and Fittings			
Metallic	3801		
Wietanic	3802	Visual Inspection - Conduit shall be labeled as being listed by a National Recognized Testing Laboratory (NRTL) For traffic signal and street lighting	
Non-Metallic	3803	projects, specific requirements are contained in the Special Provision	
(Rigid and HDPE)	Special Provisions	each project.	
Anchor Rods and Bolts (Cast in Place)	3385	Visual Inspection - Manufacturer must have one yearly passing test from the Department for each anchor rod or bolt type. Prior to installation, obtain copy of Mn/DOT passing test report from supplier. Specs 3385.2 A, B, & C require anchor rod markings per ASTM F 1554 S3. The end of each anchor bolt intended to project from the concrete must be die stamped with the grade identification as follows: Grade 36 = AB36, Grade 55 = AB55, Grade 105 = AB105.	
Anchorages (Drilled In)	Special Provision	Visual Inspection - Check qualified products list.	
<u>Miscellaneous</u> <u>Hardware</u>	2545 2565	 Visual Inspection - Check approved products list. Will carry "Inspected" tag if sampled and tested prior to shipment. No sample necessary if "Inspected". Do not use if not tested. Field sample at sampling rate for laboratory testing. For traffic signal and street light lighting projects, various miscellaneous hardware is required to be listed on the MnDOT Signals and Lighting Approved Products Lists (APL). The Contract documents indicate, which items must be on the Signals and/or Lighting APL. 	

Electrical and Signal Equipment Items (2 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)			
Cable and Conductors	Cable and Conductors				
Power Conductors	3815.2B1	Visual Inspection - Make certain the conductors are the type specified.			
Loop Detector Conductors (No Tubing)	3815.2B2 (a)	Submit Field Inspection report showing type and quantities used. Shall be labeled as being listed by a National Recognized Testing Laboratory (NRTL) and type where applicable.			
	3815.2B2(b) 3815.2B3	Visual Inspection - Usually inspected at the distributor. Documentation showing project number, reel number(s), & MnDOT test number(s) will be			
	3815.2B5	included with each project shipment. If such documentation is not received from Contractor, submit sample for testing along with material			
Electrical Cables and Single Conductors	3815.2C1 thru .2C8	certification from manufacturer. Do not use if not tested. Pre-inspected materials will not be tagged; an inspection report will be sent by the			
with Jacket	3815.2C14	MnDOT inspector for each shipment. Project inspectors should verify that the shipping documents agree with this inspection report. Call Steve			
	Special Provisions	Grover at 651-366-5540 or Cindy Schellack at 651-366-5543 with questions. For traffic signal and street lighting projects, the Special Provisions for each project contain electrical cable and conductor specifications.			
Fiber Optic Cables	3815.2C13	Visual Inspection - Check approved products list for Traffic Management Systems.			
Ground Pods	2545	Visual Inspection - Check approved products list. Shall be labeled as being			
Ground Rous	2565	on Materials Acceptance Summary.			
Luminaires and Lamps	3810	Visual Inspection - Check approved products list. Traffic signal and street lighting projects require luminaries and lamps to be listed on the MnDOT Lighting Approved/Qualified Products List (APL). The conductors shall be labeled as being listed by a National Recognized Testing Laboratory (NRTL) and type, where applicable.			
Electrical Systems	2565	Electrical Systems are to be reported as a "System" using the LIGHTING, SIGNAL AND TRAFFIC RECORDER INSPECTION REPORT. To be certified by the Project Engineer.			
Traffic Signal Systems	2565	Traffic Signal Systems are to be reported as a "System" using the LIGHTING, SIGNAL AND TRAFFIC RECORDER INSPECTION REPORT. To be certified by the Project Engineer.			

Brick, Stone, and Masonry Units

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)	
Brick			
Sewer (clay) and Building	3612 to 3615	Visual Inspection - Acceptance as directed by the Engineer.	
Sewer (Concrete)	3616	Visual Inspection - Acceptance as directed by the Engineer. Air entrainment required. Obtain air content statement from supplier.	
Concrete Masonry Units	Concrete Masonry Units		
Sewer Construction	3621	Visual Inspection - Acceptance as directed by the Engineer. Air entrainment required. Obtain air content statement from supplier.	
<u>Modular Block Retaining</u> <u>Walls</u>	Review Current Special Provisions	Visual Inspection - Note: All lots of blocks upon delivery shall have Manufacturer or Independent laboratory test results to verify passing both compression and freeze-thaw requirements. * Wall units and cap units are considered separate block types.	
Reinforced Concrete Cribbing	3661	Visual Inspection - Acceptance as directed by the Engineer. Will be stamped when inspected prior to shipment.	
Stone for Masonry or Rip-Rap	2511, 3601 and Special Provisions	Visual Inspection - Acceptance as directed by the Engineer.	

Remarks: each source shall be approved by Project Engineer or supervisor for quality, prior to use. For questions on quality, contact District Materials or Geology Unit.

Miscellaneous Materials

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)	
Timber, Lumber Piling & Posts	3412 to 3471 & 3491	Visual Inspection - Acceptance as directed by the Engineer. Untreated materials shall be inspected in the field. Treated materials shall be Certified on the Invoice or Shipping Ticket. Material is inspected and stamped by an Independent Agency as per Specification 3491. Contact Laboratory for additional information.	
Miscellaneous pieces and Hardware (Galvanized)	3392 3394	Visual Inspection - Acceptance as directed by the Engineer.	
Insulation Board	3760		
Elastomeric Bearing Pads - Plain or Laminated	3741 and Special Provisions	3741 and	Check dimensions. Check repair of tested pad. Obtain copy of Certificate of Compliance
Cotton Duck Bearing Pads		DO NOT USE ANY PADS THAT ARE NOT CERTIFIED.	

Approved/Qualified Products & Resources

Approved/Qualified Products

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

Additional Resources

- <u>SALT Construction webpage</u>
- <u>Bituminous Engineering</u>
 - o Asphalt Binder Certified Supplier
 - o <u>Asphalt Emulsion Certified Supplier</u>
- <u>Concrete Engineering</u>
 - o <u>MnDOT Concrete Manual</u>
 - o QC & QA RM Plant Workbooks
 - o MnDOT Certified Ready-Mix Program
- Grading & Base Engineering
 - Testing procedures in the <u>Grading & Base Manual</u>
 - o Forms and worksheets at the Grading & Base website
 - o Gradation worksheets on the SALT Construction website

2024 SALT Schedule of Materials Control – Local Government Agency

Contacts

MnDOT Construction and Materials State Aid Contacts

Districts 1, 2, 3, 4 Ross Hendrickson, State Aid Construction Specialist ross.hendrickson@state.mn.us 218-766-3745

Districts 6, 7, 8 Rollin Larson, State Aid Construction Specialist rollin.larson@state.mn.us 507-205-6403

Metro

Michael Pretel, State Aid Construction Engineer michael.pretel@state.mn.us 651-755-3346

MnDOT Specialty Offices Contacts

Grading & Base

Terry Beaudry terry.beaudry@state.mn.us	Grading & Base Engineer	651-366-5456
John Bormann john.bormann@state.mn.us	Grading & Base Specialist	651-366-5596

Bituminous*

John Garrity	Bituminous Engineer	651-366-5577
Greg Johnson Greg.johnson@state.mn.us	Asst. Bituminous Engineer	651-366-5464
Chelsea Bennett Chelsea.bennett@state.mn.us	Asst. Bituminous Engineer	651-366-5482
Joel Ulring joel.ulring@state.mn.us	Pavement Preservation	651-366-5432
Mike Skurdalsvold	Bituminous Mix Design Specialist	612-499-2998
Ray Betts ray.betts@state.mn.us	Bituminous Trial Mix Lab Tech	651-366-5469
Rich Kane <u>richard.kane@state.mn.us</u>	Bituminous Plant & Lab Testing	612-437-3005

*See website for the contact list by topic

Concrete*

Maria Maston		
	Concrete Engineer	651-334-4015
maria.masten@state.mn.us		
Jacob Gave	Acet Concrete Engineer	612-554-9289
jacob.gave@state.mn.us	Asst. Concrete Engineer	
Rob Golish	Aast Commete Engineer	651-216-0516
robert.golish@sate.mn.us	Asst. Concrete Engineer	
Matt Herbst	Concrete Engineering Specialist	651-283-7127

Matt.herbst@state.mn.us		
Brad Swenson brad.swenson@state.mn.us	Concrete Engineering Specialist	218-232-1012
Gordy Bruhn gordon.bruhn@state.mn.us	Concrete Field Engineering Specialist	651-398-9597
Mike Daniels michael.daniels@state.mn.us	Concrete Engineering Specialist	320-293-9421

*See website for the contact list by topic

Contacts for other materials can be found on the Materials and Road Research Contacts webpage.

Contacts for Approved Products can be found at the <u>Approved/Qualified Products Contact webpage</u>.

Materials Lab. Contacts	Independent Assurance
District 1, Duluth	
Leila DeLuca	Kris Westerbur Phone: 218-725-2737
Phone: 218-725-2738	Cell: 218-348-6297
D1.duluth.lab.dot@state.mn.us	kristopfer.westerbur@state.mn.us
District 2, Bemidji	
Jason Kissel Phone: 218, 755, 6542	
jason.kissel@state.mn.us	
Mike Murphy (Concrete & Aggregates) Phone: 218-755-6593 <u>mike.murphy@state.mn.us</u>	Ray Wesley Cell: 218-766-6949 <u>raymond.wesley@state.mn.us</u>
Dustin Reese (Bituminous)	
Phone: 218-755-6593	
dustin.reese@state.mn.us	
District 3A, Baxter	
Tom Boser	Matt Miles
Phone: 218-828-5755	
tom.boser@state.mn.us	Coll. 119 222 6749
	matt.miles@state.mn.us
District 3B, Saint Cloud	
Nick Fisher	
Phone: 320-2236500	Travis Frickson
nicholas.fisher@state.mn.us	
Andy Kostreba	Cell: 320-291-3582
Phone: 320-223-6554	travis.erickson@state.mn.us
andy.kostreba@state.mn.us	
District 4, Detroit Lakes	Casey Clarke
Bruce Bryngelson	
Phone: 218-846-3614	
bruce.bryngelson@state.mn.us	Cell: 218-849-7393
Wayne Koons	

2024 SALT Schedule of Materials Control – Local Government Agency

Phone: 218-846-3617 wayne.koons@state.mn.us	<u>casey.clarke@state.mn.us</u>
Metro District, Maplewood Lab Brent Sculley Phone 651-366-5409 <u>brent.scolley@state.mn.us</u>	Waters Edge Phone: 651-234-7356 Zachary Lyrek-Hanks Phone: 651-775-1018 zachary.Lyrek-Hanks@state.mn.us Zachary.Lyrek-Hanks@state.mn.us Xarl Sinclair Phone: 651-775-0998 karl.sinclair@state.mn.us Kris Westerbur Phone: 651-755-1151 kristopher.westerbur@state.mn.us Kaleb Kollmann Phone: 651-478-0339 kaleb.kollmann@state.mn.us Kaleb.kollmann@state.mn.us
District 6, Rochester Scott Swanson Phone: 507-286-7580 scott.a.swanson@state.mn.us Jeff Bale (Aggregates) Phone: 507-286-7586 jeff.bale@state.mn.us Joe Drees (Bituminous) Phone: 507-286-7582 joe.drees@state.mn.us Gary Vinge Phone: 507-286-7585 gary.vinge@sate.mn.us	Dennis Hayes Cell: 507-251-0138 <u>dennis.hayes@state.mn.us</u>
District 7, Mankato Lee McLaughlin Phone: 507-304-6189 lee.mclaughlin@state.mn.us	Mitch Jordahl Cell:507-380-9619 <u>mitch.jordahl@state.mn.us</u>
District 8, Willmar and Marshall Jon Vlaminck Phone: 320-214-6348 Cell: 320-894-7409 jon.vlaminck@state.mn.us District 8B, Marshall Matt Steinbronn Phone: 507-537-2068 matthew.steinbronn@state.mn.us	Paul Janke Cell: 320-212-5739 paul.janke@state.mn.us

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
vð 3	30	Aggregate for Gradation (Companion sample from 60 lb. split).
adin _§ Base	25	Moisture Density Test – Proctor (Companion from 50 lb. split).
Gra	30	Aggregate Quality/Percent Crushing Test - 1 per source
	25	Gradation 3/4" plus
	10	Gradation 3/4" minus
	6	Gradation CA 70 & #7
	1	Gradation - Sand (500 g), CA 80, #89.
ete	4.4	Moisture Test Coarse Aggregate (2000 g)
1. 50 30 30 30 5 5 5 5	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.

EQUAL EMPLOYMENT OPPORTUNITY (EEO) SPECIAL PROVISIONS

This section of Special Provisions contains the Equal Employment Opportunity (EEO) rules and regulations for highway construction projects in Minnesota which are federally and/or State funded.

The source of funding determines which EEO regulations and goals (Federal and/or State goals) apply to a specific project. When a project contains funding from both Federal and State sources, both sets of regulations apply, and the Minnesota Department of Transportation (MnDOT) monitors and reviews projects at both levels.

If the project contains any Federal funding, and has a total dollar value exceeding \$10,000, Federal EEO regulations and goals apply (pages 2, 6, 7-8, 9-14, 15, 16-17, 22-26, 27-38). The MnDOT Office of Civil Rights monitors and reviews these projects on behalf of the Federal Highway Administration (FHWA), under Federal statutes (23 USC 140) and rules (23 CFR 230).

If the project contains any State funding, and has a total dollar value exceeding \$100,000, State EEO regulations and goals apply (pages 2, 3, 4, 5, 6, 9-14, 16-22). MnDOT's Office of Civil Rights monitors and reviews these projects in conjunction with the Minnesota Department of Human Rights under Minnesota Statutes \$363A.36 and its accompanying rules.

MnDOT has established a single review and monitoring process which meets both Federal and State requirements.

Please note that Pages 23-38 of these Special Provisions may be omitted from projects with <u>no</u> Federal funding.

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NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (23 USC 140, 23 CFR 230 and Minnesota Statute §363A.36)

- The offerer's or bidder's attention is called to the "Minnesota Affirmative Action Requirements" (EEO Page 4), the "Specific Federal Equal Employment opportunity Responsibilities" (EEO Pages 7-8), the "Standard Federal and State Equal Employment Opportunity Construction Contract Specifications" (EEO Pages 9-14), the "Equal Opportunity Clause" (EEO Page 15) and "Required Contract Provisions - Federal-Aid Construction Contracts" (EEO Pages 27-38).
- 2. The goals and timetables for minority and women participation, expressed in percentage terms of hours of labor for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as shown on EEO Pages 16-17.

These goals are applicable to all the Contractor's construction work (whether or not it is State or State assisted, Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the regulations in 41 CFR Part 60-4, and/or Minnesota Statutes §363A.36 and its accompanying rules shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a) for Federal or federally assisted projects, and Minnesota Statutes §363A.36, and its accompanying rules for State or State assisted projects, and its efforts to meet the goals established for the geographical area where the contract resulting from this solicitation is to be performed. The hours of minority and women employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority and women employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4 for Federal or federally-assisted projects and/or Minnesota Statutes §363A.36 and its accompanying rules for state or state-assisted projects. Compliance with the goals will be measured against the total work hours performed.

- 3. If the contract is federally funded, the Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs (OFCCP) within ten working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. If the contract is state funded, the Contractor shall provide written notification to the Compliance Division, Minnesota Department of Human Rights, Freeman Building, 625 Robert Street North, Saint Paul, Minnesota 55155 within ten working days of award of any construction subcontract in excess of \$100,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the Subcontractor; employer identification number of the Subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
- 4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is the county or counties of the State of Minnesota where the work is to be performed.

NOTICE TO ALL PRIME AND SUBCONTRACTORS PRE-AWARD REPORTING REQUIREMENTS

In order to ensure compliance with Federal and State laws and regulations (23 USC 140, and 23 CFR 230, and Minnesota Statutes §363A.36) and to ensure Mn/DOT's ability to monitor and enforce compliance efforts, the following requirements apply if the apparent low bid exceeds \$ 5,000,000.00:

- The Apparent Low Bidder ("ALB") must provide to Mn/DOT the "EEO-8 Form" (also entitled "EEO Compliance Review Report"), which must provide detail on the contractor's total company workforce in the State of Minnesota during the twelve month period preceding July 30th of the previous year (Office and/or clerical personnel need not to be included).
- 2) The ALB must provide to Mn/DOT a work plan for meeting the minority and women employment goals established by the Minnesota Department of Human Rights, for the project in question. The work plan must include, at a minimum (1) how the ALB will incorporate its current minority and women employees in the ALB's efforts to meet the established goals; and (2) a contingency plan if the ALB has determined that its current workforce is not sufficient in order to achieve the established employment goals. If the ALB relies in whole or in part upon unions as a source of employees, then the ALB must (1) include a list of established organizations that are likely to yield qualified minority and women candidates if those union(s) are unable to provide a reasonable flow of minority and women candidates in their work plan; and (2) document the method by which these organizations will refer candidates to the ALB for employment opportunities. All bidders are hereby notified that the U.S. Department of Labor has determined that a contractor will not be excused from complying with the Federal and State laws and regulations cited above based solely on the fact that a contractor has a collective bargaining agreement with a union providing for the union to be the exclusive source of referral and that the union failed to refer minority employees. A contractor may obtain a list of organizations likely to yield qualified minority and women candidates from the Mn/DOT Office of Civil Rights.
- 3) The ALB must provide to Mn/DOT the ALB's total workforce and labor projections for the project (represented in hours), the ALB's projected total number of minority hours for the project, and the ALB's projected total number of women hours for the project. The details must include the trade(s) that will be utilized in order to complete the project.

The ALB must submit documents as required to comply with this section no later than five business days after the date that bids for the contract are opened. The five day period starts the business day following the date that bids were opened. The required documents must be received prior to Contract Award, and must be sent to the Mn/DOT Office of Civil Rights – 395 John Ireland Blvd., Mail Stop 170 St. Paul, MN 55155-1899. Submittal of the documents described in (1), (2) and (3) is required for contract award to the ALB. The submitted documents will be used as a tool to assist contractors in meeting employment goals; the content itself will not be evaluated for the purpose of determining contract award.

MINNESOTA AFFIRMATIVE ACTION REQUIREMENTS

- 1. It is hereby agreed between the parties to this contract that Minnesota Statutes, Section §363A.36, and its accompanying rules are incorporated into any contract between these parties based upon this specification or any modification of it. A copy of Minnesota Statutes, Section §363A.36, and its accompanying rules is available upon request from the contracting agency. The Contractor hereby agrees to comply with the rules and relevant orders of the Minnesota Department of Human Rights issued pursuant to the Minnesota Human Rights Act.
- 2. It is hereby agreed between the parties to this contract that this agency requires that the Contractor meet affirmative action criteria as provided for by Minnesota Statutes §363A.36 and its accompanying rules. It is the intent of the Minnesota Department of Transportation to fully carry out its responsibility for requiring affirmative action, and to implement sanctions for failure to meet these requirements. Failure by a contractor to implement an affirmative action plan, meet project employment goals for minority and women employment or make a good faith effort to do so may result in revocation of his/her Certificate of Compliance or suspension or revocation of the contract (Minnesota Statutes §363A.36).
- 3. Under the affirmative action obligation imposed by the Human Rights Act, Minnesota Statutes, Section §363A.36, contractors shall take affirmative action to employ and advance in employment minority, female, and qualified disabled individuals at all levels of employment. Affirmative action must apply to all employment practices, including but not limited to hiring, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation, and selection for training, including apprenticeship. The Contractor shall recruit, hire, train and promote persons in all job titles, without regard to race, color, creed, religion, sex, national origin, marital status, status with regard to public assistance, physical or mental disability, sexual orientation or age except where such status is a bona fide occupational qualification. These affirmative action requirements of the Minnesota Human Rights Act are consistent with but broader than the Federal requirements as covered in this contract.
- 4. Affirmative Action for disabled workers. The Contractor shall not discriminate against any employee or applicant for employment because of a physical or mental disability in regard to any position for which the employee or applicant for employment is qualified. The Contractor agrees to take affirmative action to employ, advance in employment, and otherwise treat qualified disabled individuals without discrimination based upon their physical or mental disability in all employment practices such as employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training (including apprenticeship). In the event of the Contractor's noncompliance with the requirements of this clause, actions for noncompliance may be taken in accordance with Minnesota Statutes, section §363A.36 and the rules and relevant orders of the Minnesota Department of Human Rights pursuant to the Minnesota Human Rights Act.
- 5. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the commissioner of the Minnesota Department of Human Rights. Such notices shall state the Contractor's obligation under the law to take affirmative action to employ and advance in employment minority, women and qualified disabled employees and applicants for employment, and the rights of applicants and employees. A poster entitled "Contractor Non-discrimination is the Law" may be obtained from: Compliance Unit, Minnesota Department of Human Rights, Freeman Building, 625 Robert Street North, Saint Paul, Minnesota 55155. (651) 539-1100, TTY 296-1283, Toll Free 1-800-657-3704.
- 6. The Contractor shall notify each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract understanding, that the Contractor is bound by the terms of Minnesota Statutes, section §363A.36 of the Minnesota Human Rights Act, and is committed to take affirmative action to employ and advance in employment minority, women and qualified physically and mentally disabled individuals.

APPROPRIATE WORK PLACE BEHAVIOR ON Mn/DOT CONSTRUCTION PROJECTS UTILIZING STATE FUNDS

It is the Minnesota Department of Transportation's (MnDOT's) policy to provide a workplace free from violence, threats of violence, harassment and discrimination. MnDOT has established a policy of zero tolerance for violence in the workplace. Contractors who perform work on MnDOT construction projects, or local government entities or public agencies utilizing state funds on highway construction projects, shall maintain a workplace free from violence, harassment and discrimination. (See definitions, below).

Definitions:

1. <u>Violence</u> is the threatened or actual use of force which results in or has a high likelihood of causing fear, injury, suffering or death. Employees are prohibited from taking reprisal against anyone who reports a violent act or threat.

2. <u>Harassment</u> is the conduct of one employee (toward another employee) which has the purpose or effect of 1) unreasonably interfering with the employee's work performance, and/or 2) creating an intimidating, hostile or offensive work environment. Harassment is not legitimate job-related efforts of supervisor to direct/evaluate an employee or to have an employee improve work performance.

A. <u>Unlawful discriminatory harassment</u> is harassment which is based on these characteristics: race, color, creed, religion, national origin, sex, disability, age, marital status, status with regard to public assistance or sexual orientation. Managers, supervisors and employees shall not take disciplinary or retaliatory action against employees who make complaints of sexual harassment.

Sexual harassment is unwelcome sexual advances, requests for sexual favors, or sexually motivated physical contact, or other verbal or physical conduct or communication of a sexual nature, when submission to that conduct or communication is 1) made a term or condition, either explicitly or implicitly, of obtaining employment; or 2) is used as a factor in decisions affecting an individual's employment; or 3) when that conduct or communication has the purpose or effect of substantially interfering with an individual's employment or creating an intimidating, hostile or offensive work environment, and the employer knows or should have known of the existence of the harassment and fails to take timely and appropriate action. Examples include but are not limited to insulting or degrading sexual remarks or conduct; threats, demands or suggestions that status is contingent upon toleration or acquiescence to sexual advances; displaying in the workplace sexually suggestive objects, publications or pictures, or retaliation against employees for complaining about the behavior cited above or similar behaviors.

B. <u>General harassment</u> is harassment which is not based on the above characteristics. Examples may include, but are not limited to: physically intimidating behavior and/or threats of violence; use of profanity (swearing), vulgarity; ridiculing, taunting, belittling or humiliating another person; inappropriate assignments of work or benefits; derogatory name calling.

3. <u>Discrimination</u> includes actions which cause a person, solely because of race, color, creed, religion, national origin, sex, disability, age, marital status, status with regard to public assistance or sexual orientation to be subject to unequal treatment.

Prime Contractors who work on MnDOT projects shall ensure that their managers, supervisors, foremen/women and employees are familiar with MnDOT's policy on appropriate work place behavior; and shall ensure that their subcontractors are familiar with this policy. Managers, supervisors and foremen/women will respond to, document, and take appropriate action in response to all reports of violence, threats of violence, harassment or discrimination. Failure to comply with this policy may result in cancellation, termination or suspension of contracts or subcontracts currently held and debarment from further such contracts or subcontracts as provided by statute. If you need additional information or training regarding this policy, please contact the Office of Civil Rights at (651) 366-3073.

NOTICE TO ALL PRIME AND SUBCONTRACTORS REPORTING REQUIREMENTS

 In order to monitor compliance with Federal Statutes 23 USC 140 and 23 CFR 230, and Minnesota Statutes §363A.36, all prime contractors and subcontractors are required to complete a Mn/DOT Monthly Employment Compliance Report each month for each project (Form EEO-13, sample copy at EEO Pages 20-21.) Prime contractors are also required to complete a Contractor Employment Data Report (Form EEO-12, sample copy at EEO Pages 18-19) once prior to work commencing on the project, unless one has been completed already within the calendar year.

The prime contractor of each project collects Monthly Employment Compliance Reports from each subcontractor who performed work during the month, and completes a Monthly Employment Compliance Report on its own work force. For the month of July only, an EEO-13 is required for each payroll period within the month of July. The prime contractor submits the EEO-13 forms to the Mn/DOT Project Engineer by the 15th day of the subsequent month.

Failure to submit the required reports in the allowable time frame will be cause for the imposition of contract sanctions.

It is the intent of Mn/DOT to implement monitoring measures on each project to ensure that each prime contractor and subcontractor is promoting the full realization of equal employment opportunities. Any project may be scheduled for an in depth on-site contract compliance review. During the scheduled on-site review, the Contractor will be required to provide to Mn/DOT documentation of its "good faith efforts" as shown in EEO Pages 10-13, at 7 a-p of this contract.

- 2. If a Federally funded project requires On-the-Job-Training (OJT) participation, information is provided in the contract and can be located by referring to the Table of Contents for Division S. (OJT is also listed as a bid line item under Trainees.) When a contract requires OJT participation, the Prime Contractor shall submit a training plan as indicated in the Proposal. The training plan shall include the job classification titles of trainees, planned training activities and the approximate start date of trainees.
- 3. When a Contractor selects a trainee applicant for OJT, the Contractor completes an On the Job Training Program-Trainee Assignment form (sample copy at EEO Page 23) and submits it to the Contract Compliance Specialist (CCS) assigned to the project for approval. The CCS notifies the Contractor and Project Engineer when the applicant is approved.
- 4. Hours of work performed by OJT employees shall be documented on a monthly basis on the Certification of On-The-Job Training Hours form, (Mn/DOT Form No. 21860, sample copy at EEO Page 24). The Contractor shall submit the original and one copy to the Project Engineer, and one copy to the CCS assigned to the project.

Do not remove forms from this contract. Please duplicate forms from the copies in this contract, or <u>the Mn/DOT</u> Office of Civil Rights will provide these forms upon request. Please call the Office of Civil Rights, (651) 366-3073.

SPECIFIC FEDERAL EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 CFR 230, Subpart A, Appendix A, FAPG June 6, 1996)

1. General.

a. Equal employment opportunity requirements not to discriminate and to take affirmative action to assure equal opportunity as required by Executive Order 11246 and Executive Order 11375 are set forth in Required contract Provisions (Form PR-1273 or 1316, as appropriate) and these Special Provisions which are imposed pursuant to Section 140 of title 23, U.S.C., as established by Section 22 of the Federal-Aid Highway Act of 1968. The requirements set forth in these Special Provisions shall constitute the specific affirmative action requirements for project activities under this contract and supplement the equal employment opportunity requirements set forth in the Required Contract Provisions.

b. The contractor will work with the State highway agencies and the Federal Government in carrying out equal employment opportunity obligations and in their review of his/her activities under the contract.

c. The contractor and all his/her subcontractors holding subcontracts not including material suppliers, of \$10,000 or more, will comply with the following minimum specific requirement activities of equal employment Opportunity: (The equal employment opportunity requirements of Executive Order 11246, as set forth in volume 6, Chapter 4, Section 1, Subsection 1 of the Federal-Aid Highway program Manual, are applicable to material suppliers as well as contractors and subcontractors.) The contractor will include these requirements in every subcontract of \$10,000 or more with such modification of language as is necessary to make them binding on the subcontractor.

2. Equal Employment Opportunity Policy.

The contractor will accept as his operating policy the following statement which is designed to further the provision of equal employment opportunity to all persons without regard to their race, color, religion, sex, or national origin, and to promote their full realization of equal employment through a positive continuing program:

It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, or national origin. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre apprenticeship, and/or on-the-job training.

3. Equal Employment Opportunity Officer. The contractor will designate and make known to State highway agency contracting officers an equal employment opportunity officer (hereinafter referred to as the EEO Officer) who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of equal employment opportunity and who must be assigned adequate authority and responsibility to do so.

4. Dissemination of Policy.

a. All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action will be made fully cognizant of, and will implement, the contractor's equal employment opportunity policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

(1). Periodic meetings of supervisory and personnel office staff will be conducted before the start of work and then not less often than once every six months, at which time the contractor's equal employment opportunity policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

(2). All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer or other knowledgeable company official, covering all major aspects of the contractor's equal employment opportunity obligations within thirty days following their reporting for duty with the contractor.

(3). All personnel who are engaged in direct recruitment for the project will be instructed by the EEO officer or appropriate company official in the contractor's procedures for locating and hiring minority group employees. **b.** In order to make the contractor's equal employment policy known to all employees, prospective employees and potential sources of employees, i.e., schools, employment agencies, labor unions (where appropriate), college placement officers, etc., the contractor will take the following actions:

Notices and posters setting forth the contractor's equal employment opportunity policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.
 The contractor's equal employment opportunity policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

5. Recruitment.

a. When advertising for employees, the contractor will include in all advertisements for employees the notation "An Equal Opportunity Employer." All such advertisements will be published in newspapers or other publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

b. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants, including, but not limited to, State employment agencies, schools, colleges and minority group organizations. To meet this requirement, the contractor will, through his/her EEO Officer, identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with equal employment opportunity contract provisions. (The U.S. Department of Labor has held that where the implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

c. The contractor will encourage his present employees to refer minority group applicants for employment by posting appropriate notices or bulletins in areas accessible to all such employees. In addition, information and procedures with regard to referring minority group applicants will be discussed with employees.

6. Personnel Actions. Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, or national origin. The following procedures shall be followed:
a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each
SPECIFIC FEDERAL EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (cont.)

classification to determine any evidence of discriminatory wage practices. c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found. the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons. **d.** The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his/her obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all his avenues of appeal.

7. Training and Promotion.

a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees and applicants for employment. **b.** Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e. apprenticeship, and on-thejob training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event the Training Special Provision is provided under this contract, this subparagraph will be superseded as indicated in Attachment 2.

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The Contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.

8. Unions. If a contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:

a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group members and women so that they may qualify for higher paying employment. **b.** The contractor will use best efforts to incorporate an equal employment opportunity clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, or national origin. **c.** The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the State highway department and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, or national origin; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The U.S. Department of Labor has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the State highway agency.

9. Subcontracting.

a. The contractor will use his best efforts to solicit bids from and to utilize minority group subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of minority-owned construction firms from State highway agency personnel.
b. The contractor will use his best efforts to ensure subcontractor compliance with their equal employment opportunity obligations.

10. Records and Reports:

a. The contractor shall keep such records as necessary to determine compliance with the contractor's equal employment opportunity obligations. The records kept by the contractor will be designed to indicate:

(1) The number of minority and non minority group members and women employed in each work classification on the project.

(2) The progress and efforts being made in cooperation with unions to increase employment opportunities for minorities and women (applicable only to contractor's who rely in whole or in part on unions as a source of their work force),
(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees, and

(4) The progress and efforts being made in securing the services of minority group subcontractors with meaningful minority and female representation among their employees.

b. All such records must be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the State highway agency and the Federal Highway Administration.

c. The contractors will submit an annual report to the State highway agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form PR-1391. If on-the-job training is being required by a "Training Special Provision", the contractor will be required to furnish Form FHWA 1409.

STANDARD FEDERAL AND STATE EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (41 CFR 60-4.3 and Minnesota Statute §363A.36)

Unless noted, the following apply to both Federal/federally assisted projects <u>and</u> State/state assisted projects. Item 3 applies to Federal/federally assisted projects only

- 1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer Identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- 2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 (\$100,000 for State projects) the provisions of these specifications and the Notice which contains the applicable goals for minority and women participation and which is set forth in the solicitations from which this contract resulted.
- 3. If the Contractor is participating (pursuant to 41 CFR 60-4, 5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work on the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
- 4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7(a) to (p) of these specifications (itemized as 4 [a] to [o], Minnesota Rules

5000.3535). The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minorities and utilization the Contractor should (shall, for State or state assisted projects) reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor shall make substantially uniform progress toward its goals in each craft during the period specified. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Federal goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any office of Federal Contract Compliance programs or from Federal procurement contracting officers. State goals are published periodically in the State Register in notice form, and may be obtained from the Minnesota Department of Human Rights or the Minnesota Department of Transportation Office of Civil Rights. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.

- 5. Neither the provisions of any collective bargaining agreement nor the failure by a union, with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications and Executive Order 11246 and its associated rules and regulations for Federal or federally assisted projects, and Minnesota Statutes, Section §363A.36 of the Minnesota Human Rights Act, or the rules adopted under the Act for State or state assisted projects.
- 6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees shall be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees shall be trained according to training programs approved by the Minnesota Department of Human Rights, the Minnesota Department of Labor and Industry, or the United States Department of Labor.
- 7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications must be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following (referred to in Minnesota Rules 5000.3535 as items 4(a) to (o):
- (a) Ensure and maintain, or for State or state assisted projects make a good faith effort to maintain, a working environment free of harassment, intimidation, and coercion at all sites and in all facilities at which the Contractor's employees are assigned to work. For

Federal or federally assisted projects, the Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or women individuals working at such sites or in such facilities.

- (b) Establish and maintain a current list of minority and women recruitment sources, provide written notification to minority and women recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- (c) Maintain a current file of the names, addresses, and telephone numbers of each minority and woman off-the-street applicant and minority or woman referral from a union, a recruitment source, or community organization and of what action was taken with respect to each individual. If the individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore along with whatever additional actions the Contractor may have taken.
- (d) Provide immediate written notification to the commissioner of the Minnesota Department of Human Rights for State or state assisted projects, or the director of the Office of Federal Contract Compliance for Federal or federally assisted projects, when the union, or unions with which the Contractor has a collective bargaining agreement, has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- (e) Develop on-the-job training opportunities and/or participate in training programs for the areas which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the State of Minnesota for State or state assisted projects or the Department of Labor, for Federal or federally assisted projects. The Contractor shall provide notice of these programs to the sources compiled under (b).
- (f) Disseminate the Contractor's equal employment opportunity policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its equal employment opportunity obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and women employees at least once a year; and by posting the company equal employment opportunity policy on bulletin boards accessible to all employees at each location where construction work is performed.

- (g) Review, at least annually, the company's equal employment opportunity policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions; including specific review of these items with onsite supervisory personnel such as superintendents, general foremen, etc., prior to the first day of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- (h) Disseminate the Contractor's equal employment opportunity policy externally by including it in any advertising in the news media, specifically including minority and women news media, and providing written notification to and discussing the Contractor's equal employment opportunity policy with other contractors and subcontractors with whom the Contractor does or anticipates doing business.
- (i) Direct its recruitment efforts, both oral and written, to minority, women, and community organizations; to schools with minority and women students; and to minority and women recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations, such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- (j) Encourage present minority and women employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and women youth, both on the site and in other areas of a Contractor's work force.
- (k) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3. (This requirement applies only to Federal and federally assisted projects.)
- Conduct, at least annually, an inventory and evaluation at least of all minority and women personnel for promotional opportunities; and encourage these employees to seek or to prepare for, through appropriate training, such opportunities. (This is Item 4(k) in Minnesota Rules.)
- (m) Ensure that seniority practices, job classifications, work assignments, and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment-related activities to ensure that the equal employment opportunity policy and the Contractor's obligations under these specifications are being carried out. (This is item 4(1) in Minnesota Rules.)

- (n) Ensure that all facilities and company activities are non segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes. (This is item 4(m) in Minnesota Rules.)
- (o) Document and maintain a record of all solicitations or offers for subcontracts from minority and women construction contractors and suppliers, including circulation of solicitations to minority and women contractor associations and other business associations. (This is item 4(n) in Minnesota Rules.)
- (p) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's equal employment opportunity policies and affirmative action obligations. (This is item 4(o) in Minnesota Rules.)
- 8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7(a) to (p) for Federal or federally assisted projects, and 4(a)-(o) for State or state assisted projects). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7(a) to (p) or 4(a) to (o) of these specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and women work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's noncompliance.
- 9. A single goal for minorities and a separate single goal for women have been established. The Contractor however, is required to provide equal employment opportunity and to take affirmative action for all minority groups both male and female, and all women both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order for Federal or federally assisted projects, or Minnesota Rules for State or state assisted projects, if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order or Minnesota Rules part 5000.3520 if a specific minority group is under-utilized).
- 10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, creed, religion, sex, or national origin. Minnesota Statutes §363A.36, part 5000.3535 (Subp. 7) also prohibits discrimination with regard to marital status, status with regard to public assistance, disability, age, or sexual orientation.

- 11. The Contractor shall not enter into any subcontract with any person or firm debarred from government contracts under the federal Executive Order 11246 or a local human rights ordinance, or whose certificate of compliance has been suspended or revoked pursuant to Minnesota Statutes, Section §363A.36.
- 12. The Contractor shall carry out such sanctions for violation of these specifications and of the equal opportunity clause, including suspension, termination, and cancellation of existing contracts as may be imposed or ordered pursuant to Minnesota Statutes, Section §363A.36, and its implementing rules for State or state assisted projects, or Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs for Federal or federally assisted projects. Any contractor who fails to carry out such sanctions shall be in violation of these specifications and Minnesota Statutes, Section §363A.36, or Executive Order 11246 as amended.
- 13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications (paragraph 4 in Minnesota Rules 5000.3535), so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of these Specifications or Minnesota Statutes, Section §363A.36 and its implementing rules, or Executive Order 11246 and its regulations, the commissioner or the director shall proceed in accordance with Minnesota Rules part 5000.3570 for State or state assisted projects, or 41 CFR 60-4.8 for Federal or federally assisted projects.
- 14. The Contractor shall designate a responsible official to monitor all employment-related activity to ensure that the company equal employment opportunity policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Minnesota Department of Human Rights or the Government, and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (for example, mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- 15. Nothing provided in this part shall be construed as a limitation upon the application of other state or federal laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents.

EQUAL OPPORTUNITY CLAUSE

(41 CFR Part 60-1.4 b, 7-1-96 Edition)

The applicant hereby agrees that it will incorporate or cause to be incorporated into any contract for construction work, or modification thereof, as defined in the regulations of the Secretary of Labor at 41 CFR Chapter 60, which is paid for in whole or in part with funds obtained from the Federal Government or borrowed on the credit of the Federal Government pursuant to a grant, contract, loan, insurance, or guarantee, the following equal opportunity clause:

During the performance of this contract, the Contractor agrees as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and, selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the State Highway Agency (SHA) setting forth the provisions of this nondiscrimination clause.

2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

3. The Contractor will send to each labor union or representative of workers with which the Contractor has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. The Contractor will comply with all provisions of Executive Order 11246, Equal Employment Opportunity, dated September 24, 1965, and of the rules, regulations (41 CFR Part 60), and relevant orders of the Secretary of Labor.

5. The Contractor will furnish all information and reports required by Executive Order 11246 and by rules, regulations, and orders of the Secretary of Labor, pursuant thereto, and will permit access to its books, records, and accounts by the Federal Highway Administration (FHWA) and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

6. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract, or with any of such rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part, and the Contractor may be declared ineligible for further Government contracts or federally-assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions as may be imposed and remedies invoked as provided in Executive Order 11246 or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

7. The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraph (1) through (7) in every subcontract or purchase order so that such provisions will be binding upon each subcontractor or vendor, unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246. The Contractor will take such action with respect to any subcontract or purchase order as the Secretary of Labor, SHA, or the Federal Highway Administration (FHWA) may direct as a means of enforcing such provisions, including sanctions for noncompliance. In the event a contractor becomes a party to litigation by a subcontractor or vendor as a result of such direction, the contractor may request the SHA to enter into such litigation to protect the interest of the State. In addition, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided*, that if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

Minority and Women Employment Goals

	Federal Goals		State Goals			
County	Minority Goal	Women Goal	Minority Goal	Women Goal		
Aitkin	2.2%	6.9%	5%	6%		
Anoka	2.9%	6.9%	22%	6%		
Becker	0.7%	6.9%	6%	6%		
Beltrami	2.0%	6.9%	6%	6%		
Benton	0.5%	6.9%	3%	6%		
Big Stone	2.2%	6.9%	4%	6%		
Blue Earth	2.2%	6.9%	4%	6%		
Brown	2.2%	6.9%	4%	6%		
Carlton	1.2%	6.9%	5%	6%		
Carver	2.9%	6.9%	22%	6%		
Cass	2.2%	6.9%	6%	6%		
Chippewa	2.2%	6.9%	4%	6%		
Chisago	2.9%	6.9%	3%	6%		
Clay	0.7%	6.9%	6%	6%		
Clearwater	2.0%	6.9%	6%	6%		
Cook	1.2%	6.9%	5%	6%		
Cottonwood	0.8%	6.9%	4%	6%		
Crow Wing	2.2%	6.9%	6%	6%		
Dakota	2.9%	6.9%	22%	6%		
Dodge	0.9%	6.9%	4%	6%		
Douglas	2.2%	6.9%	6%	6%		
Faribault	2.2%	6.9%	4%	6%		
Fillmore	0.9%	6.9%	4%	6%		
Freeborn	0.9%	6.9%	4%	6%		
Goodhue	2.2%	6.9%	4%	6%		
Grant	2.2%	6.9%	6%	6%		
Hennepin	2.9%	6.9%	32%	6%		
Houston	0.6%	6.9%	4%	6%		
Hubbard	2.0%	6.9%	6%	6%		
Isanti	2.2%	6.9%	3%	6%		
Itasca	1.2%	6.9%	5%	6%		
Jackson	0.8%	6.9%	4%	6%		
Kanabec	2.2%	6.9%	3%	6%		
Kandiyohi	2.2%	6.9%	3%	6%		
Kittson	2.0%	6.9%	6%	6%		
Koochiching	1.2%	6.9%	5%	6%		
Lac Qui Parle	2.2%	6.9%	4%	6%		
Lake	1.2%	6.9%	5%	6%		
Lake of the Woods	2.0%	6.9%	6%	6%		
Le Sueur	2.2%	6.9%	4%	6%		
Lincoln	0.8%	6.9%	4%	6%		
Lyon	0.8%	6.9%	4%	6%		

Minnesota Department of Transportation EEO Special Provisions Office of Civil Rights

	Federal Goals		State Goals			
County	Minority Goal	Women Goal	Minority Goal	Women Goal		
Mahnomen	2.0%	6.9%	6%	6%		
Marshall	2.0%	6.9%	6%	6%		
Martin	2.2%	6.9%	4%	6%		
McLeod	2.2%	6.9%	3%	6%		
Meeker	2.2%	6.9%	3%	6%		
Mille Lacs	2.2%	6.9%	3%	6%		
Morrison	2.2%	6.9%	6%	6%		
Mower	0.9%	6.9%	4%	6%		
Murray	0.8%	6.9%	4%	6%		
Nicollet	2.2%	6.9%	4%	6%		
Nobles	0.8%	6.9%	4%	6%		
Norman	2.0%	6.9%	6%	6%		
Olmsted	1.4%	6.9%	4%	6%		
Otter Tail	2.2%	6.9%	6%	6%		
Pennington	2.0%	6.9%	6%	6%		
Pine	2.2%	6.9%	3%	6%		
Pipestone	0.8%	6.9%	4%	6%		
Polk	1.2%	6.9%	6%	6%		
Pope	2.2%	6.9%	6%	6%		
Ramsey	2.9%	6.9%	32%	6%		
Red Lake	2.0%	6.9%	6%	6%		
Redwood	0.8%	6.9%	4%	6%		
Renville	2.2%	6.9%	3%	6%		
Rice	2.2%	6.9%	4%	6%		
Rock	0.8%	6.9%	4%	6%		
Roseau	2.0%	6.9%	6%	6%		
Scott	2.9%	6.9%	22%	6%		
Sherburne	0.5%	6.9%	3%	6%		
Sibley	2.2%	6.9%	4%	6%		
St. Louis	1.0%	6.9%	5%	6%		
Stearns	0.5%	6.9%	3%	6%		
Steele	0.9%	6.9%	4%	6%		
Stevens	2.2%	6.9%	6%	6%		
Swift	2.2%	6.9%	4%	6%		
Todd	2.2%	6.9%	6%	6%		
Traverse	2.2%	6.9%	6%	6%		
Wabasha	0.9%	6.9%	4%	6%		
Wadena	2.2%	6.9%	6%	6%		
Waseca	2.2%	6.9%	4%	6%		
Washington	2.9%	6.9%	22%	6%		
Watonwan	2.2%	6.9%	4%	6%		
Wilkin	0.7%	6.9%	6%	6%		
Winona	0.6%	6.9%	4%	6%		
Wright	2.9%	6.9%	3%	6%		
Yellow Medicine	2.2%	6.9%	4%	6%		

Minnesota Department of The Office of Civil Rights Contractor Employment E	1. Contractor Name and Address: Phone:						
		Phone:					
2. Employment Dataa) Name: Last Name, First Name, MI	b) Social Security #	c) New Hire (Y or N)	d) Ethnicity	e) Gender (M or F)	f) Trade/Foreman, Supervisors, Managers	g) Level (A, J, or T)	
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27.							

EEO SP Rev. 07/12

INSTRUCTIONS FOR EEO-12 CONTRACTOR EMPLOYMENT DATA

This form should be submitted at the Pre-Con to the Project Engineer prior to the start of your first MnDOT construction project for the calendar year (Prime and Subs)

- 1. <u>Contractor Name</u> and Address self-explanatory.
- 2. <u>Employment Data</u> information will coincide with your employment records.
 - 2a. <u>Name</u> should be listed First Name, Middle Initial, and Last Name. This will enable MnDOT EEO staff to readily identify individuals on all projects.
 - 2b. <u>Social Security Number</u> self-explanatory.
 - 2c. <u>New Hire</u> is to be indicated with a "Y" for Yes or an "N" for No. "New Hire" is an employee who has not worked for you in any capacity or on any other project within the current calendar year.
 - 2d. <u>Ethnicity</u> can be indicated by Black (B), Hispanic (H), American Indian/Alaskan Native (AI), Asian/Pacific Islander (AP), or White (W).
 - 2e. <u>Gender</u> is to be indicated with an "M" for Males or an "F" for Females.
 - 2f. <u>Trade/Foreman, Supervisors, Managers</u> self-explanatory. List trade that applies unless the employee fits one of the other three categories.
 - 2g. <u>Level</u> "A" is for an Apprentice, "J" is for a Journey Worker, and "T" is for a MnDOT approved Trainee.

If you have questions about filling out this form, contact the Office of Civil Rights at (651) 366-3073. (Please make copies as you need them.)

This information can be submitted electronically via the web, through MnDOT's Work force Information Tracking Initiative (WITI) Program. To open a free account to gain access to WITI or to find out more about this possibility please contact MnDOT's Office of Civil Rights at (651) 366-3015.

Revised 07/12

			1. SP		3. Contrac	tor Name:		4. Prin Subo	ne 🗌 contractor 🗌		
			(Check one)		Federal	Tax ID:		(cheo	ck one)		
	Minnesota Department of Transporta Office of Civil Rights	ation	SP# County or City		Street Add	ress:		5. Dolla	r Amount of (Contract:	
	Monthly Employment Compliance Re EEO-13	eport	2. Reporting Period to		City, State	City, State Zip			6. Percent of Completion:		
7. Emp a) N	oloyment Data ame: Last, First Middle Initial		b) Social Security #	c) New Hire (Y or N)	d) Ethnicity	e) Gender M or F)	Trade/Foreman Supervisors, M	, anagers	g) Level (A, J or T)	h) Hours Worked This Period	
1.											
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<i>J</i> . 4											
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8. Cor	ntract Goals	9. Prepared	by: (Signature)			10. Review	wed by: (Signatu	re)			
MINN	ESOTA GOALS %OBTAINED										
	<u>%</u> Minority <u>%</u>	Print Name:				Print Nam	e:				
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		Phone:		Fax:		Phone:		1	ax:		

INSTRUCTIONS FOR EEO-13

MONTHLY EMPLOYMENT COMPLIANCE REPORT

- 1.-5. Self-explanatory State Project #, county project is located in, are you a prime or sub, and contract value.
- 6. <u>Percent of Completion</u> is the estimated percentage of work completed including this reporting period.
- 7. <u>Employment Data</u> information will coincide with your employment records. All professional, supervisory and managerial hours actually worked on the project site must be included, whether or not they appear on the certified payroll.
 - 7a. <u>Name</u> should be listed Last Name, First Name, and Middle Initial. This will enable MnDOT EEO staff to readily identify individuals on all projects.
 - 7b. <u>Social Security Number</u> self-explanatory.
 - 7c. <u>New Hire</u> is to be indicated with a "Y" for Yes or an "N" for No. "New Hire" is an employee who has not worked for you in any capacity or on any other project within the current calendar year.
 - 7d. <u>Ethnicity</u> can be indicated by Black (B), Hispanic (H), American Indian/Alaskan Native (AI), Asian/Pacific Islander (AP), or White (W).
 - 7e. <u>Gender</u> is to be indicated with an "M" for Males or an "F" for Females.
 - 7f. <u>Trade/Foreman, Supervisors, Managers</u> list the trade that applies unless the employee fits one of the other three categories.
 - 7g. <u>Level</u> "A" is for an Apprentice, "J" is for a Journey Worker, and "T" is for a MnDOT approved Trainee.
 - 7h. <u>Hours Worked for This Period</u> will be all hours worked by the individual, for each trade, during the specified reporting period.
- 8. <u>Contract Goals</u> are the percent of total project hours to be worked by minority and women employees. The goals are determined by the geographic location and source of funding for the project. Projects in excess of \$100,000 with any State funding must meet the State Employment Goals. Projects in excess of \$10,000 with any Federal funding must meet the Federal Employment Goals. (See chart on EEO Pages 16-17.) Minority and women employee hours shall be distributed evenly throughout the length of the project and in every trade and craft that performs work on the project.

<u>% Obtained</u> is the percent of the total project hours worked by minority and women employees, up to and including this reporting period.

- 9. <u>Prepared by Contractor Designee</u> is the signature of the prime or subcontractor's EEO officer/designee.
- 10. <u>Reviewed by Project Engineer</u> is the signature of the MnDOT staff monitoring the project.

The Prime Contractor will submit EEO-13 forms for its workforce and all subcontractors to the MnDOT Project Engineer by the 15th day of the month following the month when work was performed. If you have questions about filling out this form, contact the Office of Civil Rights at (651) 366-3073. (Please make copies as you need them.)

This information can be submitted electronically via the web, through MnDOT's Workforce Information Tracking Initiative (WITI) Program. To open a free account to gain access to WITI or to find out more about this possibility please contact MnDOT's Office of Civil Rights at (651) 366-3321.

EEO COMPLIANCE REVIEW REPORT

Total Company Workforce (For 12 Month Period Preceding July 30th of the previous year)

Name and Address of Contractor

Name and Title of Corporate Officer

Name of EEO Officer

	To Empl	tal oyees	To Mino	otal orities	Bla	icks	Asi Pacif	ian/ fic Is.	Ame Ind	rican lian	Hisp	oanic	On-the Train	e-Job nees
Job Categories	М	F	М	F	М	F	М	F	М	F	М	F	М	F
Officials (Managers)														
Supervisors														
Foremen/Women														
Clerical														
Equipment Operators														
Mechanics														
Truck Drivers														
Iron Workers														
Carpenters														
Cement Masons														
Electricians														
Pipefitters & Plumbers														
Painters														
Laborers														
Misc. Trades														
Total														
On-the-Job Trainees														

EEO-8 Rev. 07/07

RENVILLE COUNTY, MINNESOTA

TO: BIDDERS ON THIS CONTRACT

To conform with:

- 1. Title VII of the Federal Civil Rights Acts of 1964 as amended by the Equal Employment Opportunity Act of 1972.
- 2. The Federal Age Discrimination in Employment Act of 1967.
- 3. The Minnesota Human Rights Act.

The County of Renville, Minnesota, is hereby notifying all subgrantees, contractors, and vendors with which it does business that it has adopted a policy that it will not discriminate in employment practices on the basis of race, sex, color, religion, national origin, marital status, and status with regard to public assistance; that it has agreed to take affirmative action to recruit minorities and women into its employment; and that it will transact business only with firms who have adopted similar non-discriminatory and Affirmative Action Policies.

PLEASE INFORM US OF THE FOLLOWING:

- The number of employees in your firm ______.
 (If your firm has 39 or less employees every day in the last 12 months, it is not necessary to complete items 2, 3 and 4.)
- 2. Has your business filed the most recent yearly Annual Compliance Report, which is due each year of your company's 4-year certification period on the anniversary date of your company's Certificate of Compliance? Yes_____ No_____
- 3. Has your business adopted a written Affirmative Action Program? Yes_____ No_____

If yes, has your plan been subject to federal equal opportunity review? Yes No

- 4a. Submit your Workforce Certificate of Compliance as issued by the Minnesota Department of Human Rights with your bid. More info can be found here: https://mn.gov/mdhr/certificates/workforce-certificate/
- 4b. Or, my company has applied for a Workforce Certificate of Compliance with the Department of Human Rights on ______ and is still pending. My business will submit the certificate to Renville County prior to contract execution.

Signature of Firm Representative

AN EQUAL OPPORTUNITY EMPLOYER

TO THE

COUNTY OF RENVILLE, MINNESOTA

DEPARTMENT OF HIGHWAYS

"I hereby certify that I am either in compliance with Minn. Stat Section 363A.44 or am

not subject to it, because my company (check one of the three below, as applicable):



Had 39 or less full-time employees every day in the last 12 months and therefore is not subject to the above law.



Has an Equal Pay Certificate issued by the Department of Human Rights. Your Equal Pay Certificate as **issued by the Commissioner of Human Rights must be submitted with your bid.** More info can be found here: <u>https://mn.gov/mdhr/certificates/equalpay/</u>



Has applied for an Equal Pay Certificate with the Minnesota Department of Human Rights and the application is still pending. My business will submit the certificate to Renville County prior to contract execution.

Signature of Bidder

POSITION

NAME OF COMPANY_____

DATE

This form may be used to furnish proof of necessary compliance with Minnesota Statues, 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, Freeman Bldg., 625 Robert St. No., St. Paul, MN 55155, Telephone 651-539-1100 or 800-657-3704.

065-601-017 On Renville CSAH 1 from 500-ft South of CSAH 4 t Mill and Overlay	o US Hwy 212				
Description	Category	Units	Quantity	Unit Price	Total Price
	065-601-017				
QUALITY MANAGEMENT - THERMAL PROFILING	Participating	LS	1		
QUALITY MANAGEMENT - INTELLIGENT COMPACTION	065-601-017 Participating	LS	1		
MOBILIZATION	065-601-017 Participating	LS	1		
SHOULDER BASE AGGREGATE CLASS 1	065-601-017 Participating	TON	12,887		
MILL BITUMINOUS SURFACE (1.50")	065-601-017 Participating	SY	1,774		
TYPE SP 4.75 NONWEARING COURSE MIX (3,B)	065-601-017 Participating	TON	5,595		
TYPE SP 12.5 WEARING COURSE MIX (3,B)	065-601-017 Participating	TON	22,434		
TRAFFIC CONTROL	065-601-017 Participating	LS	1		
INTERIM PAVEMENT MARKING	065-601-017 Participating	LS	1		
6" SOLID LINE PAINT	065-601-017 Participating	LF	85,817		
4" SOLID LINE PAINT	065-601-017 Participating	LF	17,440		
	065-601-017		2.000		
	D65-601-017 On Renville CSAH 1 from 500-ft South of CSAH 4 t Mill and Overlay QUALITY MANAGEMENT - THERMAL PROFILING QUALITY MANAGEMENT - INTELLIGENT COMPACTION MOBILIZATION MOBILIZATION MILL BITUMINOUS SURFACE (1.50") MILL BITUMINOUS SURFACE (1.50") TYPE SP 4.75 NONWEARING COURSE MIX (3,8) TYPE SP 12.5 WEARING COURSE MIX (3,8) TYPE SP 12.5 WEARING COURSE MIX (3,8) Grade Solid Line PAINT A" SOLID LINE PAINT	Ubs-build CSAH 1 from 500-ft South of CSAH 4 to US Hwy 212 Mill and Overlay Description Category QUALITY MANAGEMENT - THERMAL PROFILING 065-601-017 Participating QUALITY MANAGEMENT - INTELLIGENT 065-601-017 Participating QUALITY MANAGEMENT - INTELLIGENT 065-601-017 Participating QUALITY MANAGEMENT - INTELLIGENT 065-601-017 Participating MOBILIZATION 065-601-017 Participating NOBILIZATION 065-601-017 Participating NILL BITUMINOUS SURFACE (1.50") 065-601-017 Participating TYPE SP 4.75 NONWEARING COURSE MIX (3,B) 065-601-017 Participating TYPE SP 12.5 WEARING COURSE MIX (3,B) 065-601-017 Participating TRAFFIC CONTROL 065-601-017 Participating INTERIM PAVEMENT MARKING 065-601-017 Participating 6" SOLID LINE PAINT 065-601-017 Participating 4" SOLID LINE PAINT 065-601-017 Participating	U05-601-017 On Renville CSAH 1 from 500-ft South of CSAH 4 to US Hwy 212 Mill and Overlay Units QUALITY MANAGEMENT - THERMAL PROFILING 065-601-017 LS QUALITY MANAGEMENT - INTELLIGENT 065-601-017 LS QUALITY MANAGEMENT - INTELLIGENT 065-601-017 Participating LS MOBILIZATION 065-601-017 Participating LS MOBILIZATION 065-601-017 Participating TON SHOULDER BASE AGGREGATE CLASS 1 065-601-017 Participating TON MILL BITUMINOUS SURFACE (1.50") 065-601-017 Participating S Y TYPE SP 4.75 NONWEARING COURSE MIX (3,B) 065-601-017 TON TYPE SP 12.5 WEARING COURSE MIX (3,B) 065-601-017 TON TRAFFIC CONTROL 065-601-017 Participating LS INTERIM PAVEMENT MARKING 065-601-017 Participating LS 6" SOLID LINE PAINT 065-601-017 Participating LF 4" SOLID LINE PAINT 065-601-017 Participating L F	UDS-001-017 On Renville CSAH 1 from 500-ft South of CSAH 4 to US Hwy 212 Mill and Overlay Description Category Units Quantity QUALITY MANAGEMENT - THERMAL PROFILING 065-601-017 1.5 1 QUALITY MANAGEMENT - INTELLIGENT 065-601-017 1.5 1 QUALITY MANAGEMENT - INTELLIGENT 065-601-017 1.5 1 MOBILIZATION 065-601-017 1.5 1 MOBILIZATION 065-601-017 1.5 1 SHOULDER BASE AGGREGATE CLASS 1 065-601-017 TON 12,887 MILL BITUMINOUS SURFACE (1.50") 065-601-017 SY 1,774 TYPE SP 4.75 NONWEARING COURSE MIX (3,B) 065-601-017 TON 5,595 TYPE SP 12.5 WEARING COURSE MIX (3,B) 065-601-017 TON 22,434 TRAFFIC CONTROL 065-601-017 1.5 1 INTERIM PAVEMENT MARKING 065-601-017 L.5 1 G* SOLID LINE PAINT 065-601-017 L.F 85,817 4" SOLID LINE PAINT 065-601-017 L.F 17,440	U05-001-017 On Revulte CSAH 1 from 500-ft South of CSAH 4 to US Hwy 212 Mill and Overlay Units Quantity Unit Price QUALITY MANAGEMENT - THERMAL PROFILING 065-601-017 LS 1

GRAND TOTAL \$

The <u>undersigned</u> hereby acknowledges that all requirements included in the hard copy proposal, addenda, amendments, plans, standard specifications, and supplemental specifications are a part of this bid and contract.

Signed:

<u>PROPOSAL GUARANTY required by 1208 of the Specifications</u>: "A (certified check) (bond), prepared as required by 1208 of the Specifications and payable to the Renville County Treasurer, in an amount equal to at least 5% of the total amount of the bid is submitted herewith as a proposal guaranty.

<u>NON-COLLUSION AFFIDAVIT</u>: A Non-Collusion Affidavit is found in this proposal which must be signed by each bidder.

RECEIPT OF ADDENDA as required by 1210 of the Specifications:

The undersigned hereby acknowledges receipt of and has considered:

Addendum No	_Dated	Addendum No.	_ Dated

 Addendum No.
 Dated

 Addendum No.
 Dated

Signed:

EXECUTION OF PROPOSAL as required by 1206 of the Specifications:

This proposal	dated the day of	, 20	
Signed:	, P.O. Address		as an individual.
Signed:	, P.O. Address		as an individual.
doing business	s under the name and style of		
Signed:	, for		a partnership.
	NAME	BUSINESS ADDRESS	
_			
Signed:	, for		a corporation,

incorporated under the laws of the State of <u>1</u>	Minnesota
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.)

HUMAN RIGHTS CERTIFICATE

is in compliance with the standards of equal employment and anti-discrimination as cited in the Civil Rights Act of 1964 as amended in 1972 by the Equal Employment Opportunity Act and also with Minnesota Statutes Section 363 as amended.

Therefore, I certify that it is the policy and intent of ______

Name of Firm

to provide equality of opportunity in all phases of employment to all persons. This policy prohibits discrimination because of race, color, religion, national origin, place of residence, political affiliation, disability, marital status with regard to public assistance, sex or age in all aspects of its personnel policies, programs, practices and operations.

NAME OF BIDDER:

OFFICIAL ADDRESS:

SIGNATURE BY:

TITLE and/or POSITION:

DATE: _____

- We are an Equal Opportunity Employer -

NON-COLLUSION AFFIDAVIT

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

State Project 1	No		
Federal Proje	ct No		
State of Minn	esota)	
) ss	
County of)	
	I,	person signing this affidavit)	, do state under penalty of
norium under ($\frac{1746}{28}$	of the laws of the United States:	
perjury under 2	28 U.S.C. 1740 C	of the laws of the Officed States.	
(1)	that I am the aut	horized representative of	

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

and that I have the authority to make this affidavit 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/her 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 said surety prior to the official opening of the proposal, and

that I have fully informed myself regarding the accuracy of the statements (4)made in this affidavit.

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)	The Contractor:
	(i) is in compliance with workers' compensation and unemployment insurance requirements;
	(ii) is in compliance with Department of Revenue and Department of Employment and Economic Development registration requirements if it has employees;
	(iii) has a valid federal tax identification number or a valid Social Security number if an individual; and
	(iv) has filed a certificate of authority to transact business in Minnesota with the Secretary of State if a foreign corporation or cooperative.
(2)	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, 181.13, 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:
	(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;
	(ii) has been issued an order to comply by the commissioner of Labor and Industry that has become final;
	(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;
	(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;
	(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
	(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;*

(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 CONTRUCTION 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.

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

*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. ...

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

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

SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-2

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

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.

Authorized Signature of Owner or Officer:	Printed Name:
Title:	Date:
Company Name:	