OTTER TAIL COUNTY

505 SOUTH COURT STREET, SUITE 1
FERGUS FALLS, MN 56537

**********PROPOSAL**********

FOR HIGHWAY CONSTRUCTION
AND MAINTENANCE PROJECTS WITH
BIDS RECEIVED UNTIL **1:00 O'CLOCK P.M. ON THURSDAY, JUNE 5, 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 APPROVED DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2020 EDITION" (USING English UNITS), ON FILE IN THE OFFICE OF THE COMMISSIONER OF TRANSPORTATION EXCEPT AS STATED OTHERWISE IN THE SPECIAL PROVISIONS, WHICH ARE PART OF THIS PROPOSAL, FOR:

OTTER TAIL COUNTY PROJECT NO. 4053-035

STATE PROJECT NO. 056-635-043

LOCATION: CSAH 35 from TH 108 to CSAH 4

TYPE OF WORK: Stabilized Full Depth Reclamation, Grading, Bituminous Surfacing & Aggregate Surfacing

LENGTH: 10.796 Miles

STARTING DATE: **July 7, 2025 to July 12, 2025**

COMPLETION DATE: **September 20, 2025**

NOTICE TO BIDDERS: Submit bids in accordance with MnDOT 1206 through 1210 except as stated otherwise in the Special Provisions.

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.

KRYSTEN SAATELA FOSTER, P.E. – OTTER TAIL COUNTY ENGINEER

License Number 48757 Date: 4/30/25

****

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 TELEPHONE NO. (651) 296-1796

To Otter Tail County Board of Commissioners:

According to the advertisement of Otter Tail 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 Otter Tail 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 7 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 Otter Tail 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 Otter Tail 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.

INDEX TO SPECIAL PROVISIONS

PROJECT NO. S.A.P. 056-635-043
OTC NO. 4053-035
OTTER TAIL COUNTY

Attached:
Notice to Bidders (Advertisement for Bids)
Otter Tail County EEO Policy Statement
Final Estimate Statement
Notice to All Bidders (Bid Rigging)
Notice to Bidders Suspensions/Debarments
State Funded Only Construction Contracts Special Provisions Division A-Labor (14 pages)
Notice to Bidders (Prompt Payments to Sub-Contractors)
Wage Rates (State) (9 pages)
Notice of Certification of Truck Rental Rates (4 pages)

DIVISION S
SPECIAL PROVISIONS

INDEX TO SPECIAL PROVISIONS con't.

Attached:

Minnesota Department of Transportation (MnDOT) Right of Way Permit (20 pages)
NPDES-MPCA Stormwater Permit (20 pages)
NPDES-MPCA Stormwater Permit Transfer (2 pages)
Fuel Escalation Clause (4 pages)
Plant Certification Application Form
Notice to Bidders – Abbreviations of Schedule of Prices
Non-Collusion Affidavit
Certificate of Compliance with MN Statute 363
Attachment A – Prime Contractor Response (5 pages)
Schedule of Prices (3 pages)
Form 21126D

NOTICE TO BIDDERS:

Submit bids in accordance with MnDOT 1206 through 1210 except as stated otherwise in the Special Provisions. In submitting a bid, you must submit a complete proposal. You must electronically sign the Schedule of Prices and required documents in the Proposal and acknowledge addenda.

Notice to Bidders

Project No. SAP 056-635-043

Sealed bids will be received until **1:00 PM** on **Thursday, June 5, 2025**, by the County Auditor of Otter Tail County for CSAH 35 Resurfacing, Project No. SAP 056-635-043.; Stabilized Full Depth Reclamation, Grading, Bituminous Surfacing & Aggregate Surfacing. Electronic bids must be submitted through Otter Tail County's online bidding system (bidVault). Mailed or hand delivered bids will not be accepted.

Project No. SAP 056-635-043; CSAH 35 from TH 108 to CSAH 4; 10.796 miles

The major items of work are approximately:

REMOVE BITUMINOUS DRIVEWAY PAVEMENT	S Y	7157
REMOVE AGGREGATE	C Y	9745
EXCAVATION – COMMON	CY	15244
GRANULAR EMBANKMENT (CV)	CY	6630
COMMON EMBANKMENT (CV)	CY	14661
AGGREGATE SURFACING CLASS 1	TON	2762
AGGREGATE BASE CLASS 5	TON	2236.5
STABILIZED FULL DEPTH RECLAMATION	S Y	209375
TYPE SP 9.5 WEARING COURSE MIX (3,C)	TON	18477
TYPE SP 12.5 WEARING COURSE MIX (3,C)	TON	18477
6” CONCRETE WALK	SF	344
MAIL BOX SUPPORT	EACH	41
SIGN PANELS TYPE C	SF	50
SILT FENCE, TYPE MS	LF	7208
SOIL BED PREPERATION	ACRE	12.6
SEEDING	ACRE	12.6
HYDRAULIC BONDED FIBER MATRIX	LB	44010
6" SOLID LINE MULTI COMP GR IN (WR)	L F	111449
PAVT MSSG PREF TAPE GR IN	S F	291.65

Minimum Wage rates to be paid by the Contractors have been predetermined and are subject to the Work Hours Act of 1962, P.L. 87-581 and implementing regulations.

Bids will be opened and read publicly by the Otter Tail County Board of Commissioners or their designated representative, immediately after the hour set for receiving bids in the **Lida Lake Room** at the Otter Tail County Government Services Center, 500-600 Fir Avenue West, Fergus Falls Minnesota.

Physical copies of the proposal including plans may be examined and/or secured at the Office of the Otter Tail County Engineer, 505 South Court Street, Fergus Falls, MN 56537. Cost of physical copies of proposal including plans is $150.00 (Non-refundable)

Digital copies of the documents may be downloaded for no cost at https://mn-co-otter-tail.app.rtvision.com/oneoffice/bidding. To proceed you must click on "Bidding" and select “SAP 056-635-043_CSAH 35 Resurfacing”. A link to the website can also be found on the Highway Department webpage along with instructions.

To submit a bid online you must be a registered plan holder, you can create an account at https://connex.rtvision.com/.

Bids must be accompanied by a bidder's bond or certified check made payable to the County Treasurer, Otter Tail County, for at least five percent (5%) of the amount of the Proposal.

The County Board reserves the right to accept or reject any or all bids, portions, thereof, and to waive informalities.

Otter Tail County is an Equal Opportunity/Affirmative Action Employer.

OTTER TAIL COUNTY

EQUAL EMPLOYMENT OPPORTUNITY POLICY STATEMENT

This is to affirm Otter Tail County's policy of providing Equal Opportunity to all employees and applicants for employment in accordance with all applicable Equal Employment Opportunity/Affirmative Action laws, directives and regulations of Federal, State and Local Governing bodies or agencies thereof, specifically Minnesota Statutes 363.

Otter Tail County will use its best efforts to afford minority and female business enterprises with the maximum practicable opportunity to participate in the performance of subcontractors for construction projects that this County engages in.

FINAL ESTIMATE STATEMENT

(I) (We) understand and agree that any controversy which arises out of this Contract in respect to which controversy a party to the Contract would be entitled to redress against the County shall be brought in the District Court in Otter Tail County. Any such action shall be commenced within 90 days after the complaining party has been furnished by the County with a final estimate under the complaining party's Contract, or, at the election of the complaining party, within six (6) months after the work provided for under that Contract shall have been in all things completed. Each party furnishing materials or services to Otter Tail County pursuant to this contract hereby expressly waives any right to commence any action arising out of this contract venued in any place or at any time other than the place and time set forth above.

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.

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: https://www.sam.gov/SAM/ . You can use the "Search Records" function without registering for an account.

September 29, 2023

STATE FUNDED ONLY CONSTRUCTION CONTRACTS
SPECIAL PROVISIONS DIVISION A - LABOR

I. INTRODUCTION

A. **Policy Statement.** 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. **State Regulations Govern.** This Contract is subject to the Minnesota Prevailing Wage Act[2], Minnesota Fair Labor Standards Act[3], Minnesota Rules[4], Minnesota Department of Labor and Industry (MnDLI) Wage Decision(s), and the MnDLI Truck Rental Rate Schedule.

C. **Purpose.** 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. **Questions or Resources.** 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. **Apprentice.** 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. **Certified Payroll Report (CPR).** A report comprised of two components; (1) a payroll report, and (2) a statement of compliance report.[8]

D. **Contractor.** An individual or business entity that is engaged in construction or construction service-related 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. **Employer.** 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. **Independent Truck Owner/Operator (ITO).** 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]

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[1] Minn. Stat. 177.41
[2] Minn. Stat. 177.41 to 177.44
[3] Minn. Stat. 177.21 to 177.35
[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. **Truck Rental Rates Apply.** 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. **Prevailing Wage Terms Must Be Included in All Contracts.** 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. **Responsible for Understanding All Requirements.** 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. **E-Verify.** 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

Vendor Registration Required. A Contractor that performs Work, supplies material, or product must be registered with MnDOT. The Contractor must complete and submit a vendor form[27] 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. **Labor Classification Assignment.** 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. **Labor Classification Clarification & Disputes.** A Contractor needing assistance in determining a labor classification must submit a Classification Clarification Request[31] 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. **Performing Work in Multiple Labor Classifications.** 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. **Applicability of a Highway and Heavy Wage Decision.** 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.pdf or 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 US DOL 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 utility[33] 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. **Applicability of a Commercial Wage Decision.** 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. **Contract with One Wage Decision.** 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. **Contract with Multiple Highway/Heavy Wage Decisions.** 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 greatest[35] for the appropriate labor classification(s).

3. **Contract with Highway/Heavy and Commercial Wage Decision(s).** 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. **Must Pay Total Prevailing Wage Rate.** 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. **Missing Wage Rate.** 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. **Wage Rate Request.** A Contractor must complete a Request for Rate Assignment form[38] and submit it to the MnDOT LCU[39] for processing.

2. **No Contract Price Adjustment for Missing Wage Rate.** If MnDLI determines that a higher wage rate applies, the Department will not reimburse the Contractor.

F. **Salaried Worker.** 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. **Reduction in Standard (Private) Contractual Regular Rate of Pay Prohibited.** 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. **Prohibited Payment Practices.** A Contractor is prohibited from taking (accepting) a rebate for the purpose of reducing or otherwise decreasing the value of the compensation paid.

I. **Prohibited Deductions.** 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 177.24[42]

1. **Uniforms.** 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. **Equipment.** 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. **Supplies.** Consumable supplies required in the course of employment.

4. **Travel Expenses.** 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. **Work Performed Under the Contract.** A Worker performing Work is subject to prevailing wage for all hours associated with the Contract[43], unless the Worker is exempt under state law.[44]

B. **Wait Time Subject to Prevailing Wage.** 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. **Funded Fringe Benefit Plan Criteria.** 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. **Unfunded Fringe Benefit Plan Criteria.** 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. **Fringe Benefit Contributions for Hours Worked.** A Contractor that provides Fringe Benefits to a Worker must make contributions, not less than quarterly[47], 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. **Hourly Fringe Benefit Credit.** 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:

1. **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. **Wages In Lieu of Fringe Benefits.** 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. **Overtime**. 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. **Administrative Costs Not Creditable.** 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. **Federal, State & Local Fringe Benefit Credit Prohibited.** 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. **Wages in Lieu of Fringe Benefits Overtime.** Wages paid in Lieu of Fringe Benefits must be paid for all hours worked under the contract.

C. **Multiple Labor Classifications and Overtime.** 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. **Federal Fair Labor Standards Act (FLSA) and Overtime.** A Contractor subject to the FLSA may be subject to additional overtime compensation requirements.

X. PAYROLLS AND STATEMENTS

A. **Reporting.** Each Contractor that is performing Work must submit a CPR(s) to the Department.

1. **Payroll Report (Paper).** 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]

2. **Statement of Compliance (Paper).** 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. **Electronic Reporting.** 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. **Biweekly Payroll Reporting and Payment of Wages.** A CPR(s) must be submitted no later than 14 calendar days after the end of each Contractor's pay period[55] to the Department. A Contractor must pay its employees at least once every 14 calendar days.[56]

C. **Payroll Report Data.** 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. **Prime Contractor to Ensure Compliance.** 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. **Retention of CPR(s).** 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. **Retention of Employment-Related Records.** Each Contractor must keep employee records, including, but not limited to: Fringe Benefit statements, time cards, payroll ledgers, check registers and canceled checks[62] for at least three (3) years after the final payment is issued.[63] Other laws may have longer retention requirements.

G. **Detailed Earning Statement.** 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. **Reports and Records Request.** 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. **Apprentice.** 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. **Ratio Requirement.** 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. **Failure to Comply with Apprenticeship Requirements.** 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. **Trainee and Helper.** 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. **Independent Contractor.** 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. **Owners, Supervisors and Foreman.** An owner, supervisor, or foreman performing Work is subject to prevailing wage and must be properly classified, compensated and reported.[74]

XIII. TRUCKING

A. **Covered Hauling Activities.** 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(4)
[79] Minn. R. 5200.1106, Subpart 3B(5)
[80] Minn. R. 5200.1106, Subpart 3B(6)

B. **Hauling Activities Not Subject to Prevailing Wage or Truck Rental Rates.** 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. **Repair, Maintenance & Waiting to Load Time.** 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. **Month End Trucking Report.** 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. **Off-Site Facility Activities Subject to Prevailing Wage.** 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. **Off-Site Facility Activities Not Subject to Prevailing Wage.** 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. **Poster Board.** 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. **How to Obtain a Poster Board.** 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. **Employee Interviews.** The Contractor must permit representatives from the Department or other governmental entities[93] to interview Workers at any time during working hours on the project.[94]

XVII. CHILD LABOR

A. **No Worker under the Age of 18.** 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. **Parental Supervision.** 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. **Removal of Minor from Project.** 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. **Case-by-Case Enforcement.** The Department has the authority to enforce the prevailing wage law on a case-by-case.[98]

B. **Prime Contractor Responsible for Unpaid Wages.** The Prime Contractor will be held liable for any unpaid wages to its Workers or those of any lower tier Contractor.[99]

C. **Enforcement Options.** 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
[97] Minn. 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. **Withholding Payment.** The Department may withhold from the Prime Contractor payments relating to prevailing wage underpayments.[100]

2. **Non-Responsible Contractor.** 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. **Default.** 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. **Suspension or Debarment.** The Department may refer violations and matters of non-compliance by a Contractor to the Minnesota Department of Administration for suspension or debarment proceedings.[103]

5. **County Attorney.** The Department may refer suspected criminal violations by Contractor to the appropriate local county attorney for prosecution.[104]

6. **Financial Penalties.** 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]

7. **False Claims Act Violation.** 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 prosecution[107] and may be grounds for debarment proceedings.[108]

8. **Compliance Order.** 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. **Fringe Benefits; Misdemeanor.** 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

Salaried Workers. 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) x (12 months) = $7,200.00**
($7,200.00) / (2080 hours) = $3.46 per hour credit

Quarterly: **($600.00) x (3 months) = $1,800.00**
($1,800.00) / (520 hours) = $3.46 per hour credit

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

State Requirements. 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 Paid	Fringe Benefits Paid	Payment To Employee (PW * .5) + (HW) + (RF)	Fringe Payment + (F)	Total Payment = 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.

MINNESOTA DEPARTMENT OF LABOR AND INDUSTRY PREVAILING WAGES FOR STATE FUNDED CONSTRUCTION PROJECTS

THIS NOTICE MUST BE POSTED ON THE JOBSITE IN A CONSPICUOUS PLACE

Construction Type: Highway and Heavy

Region Number: 04

Counties within region:

- BECKER-03
- BIG STONE-06
- CLAY-14
- DOUGLAS-21
- GRANT-26
- MAHNOMEN-43
- OTTERTAIL-56
- POPE-61
- STEVENS-75
- SWIFT-76
- TRAVERSE-78
- WILKIN-84

Effective: 2024-11-18

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 CRAFTS 701 - 730)					
101	LABORER, COMMON (GENERAL LABOR WORK)	2024-11-18	32.23	22.88	55.11
		2025-05-01	34.50	24.26	58.76

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
102	LABORER, SKILLED (ASSISTING SKILLED CRAFT JOURNEYMAN)	2024-11-18	32.23	22.88	55.11
		2025-05-01	34.50	24.26	58.76
103	LABORER, LANDSCAPING (GARDENER, SOD LAYER AND NURSERY OPERATOR)	2024-11-18	25.00	0.00	25.00
104	FLAG PERSON	2024-11-18	27.50	20.74	48.24
105	WATCH PERSON	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
106	BLASTER	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
107	PIPELAYER (WATER, SEWER AND GAS)	2024-11-18	35.73	22.88	58.61
		2025-05-01	38.00	24.26	62.26
108	TUNNEL MINER	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
109	UNDERGROUND AND OPEN DITCH LABORER (EIGHT FEET BELOW STARTING GRADE LEVEL)	2024-11-18	29.00	20.74	49.74
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	21.39	14.90	36.29
111	TRAFFIC CONTROL PERSON (TEMPORARY SIGNAGE)	2024-11-18	23.04	17.10	40.14
112		2024-11-18	22.15	12.77	34.92

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
	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.				
SPECIAL EQUIPMENT (201 - 204)					
201	ARTICULATED HAULER	2024-11-18	33.58	26.79	60.37
		2025-05-05	34.60	29.17	63.77
202	BOOM TRUCK	2024-11-18	30.21	22.55	52.76
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	25.00	2.00	27.00
204	OFF-ROAD TRUCK	2024-11-18	51.13	3.48	54.61
205	PAVEMENT MARKING OR MARKING REMOVAL EQUIPMENT (ONE OR TWO PERSON OPERATORS); SELF-PROPELLED TRUCK OR TRAILER MOUNTED UNITS.	2024-11-18	35.00	13.24	48.24
HIGHWAY/HEAVY POWER EQUIPMENT OPERATOR					
GROUP 2		2024-11-18	34.94	26.79	61.73
		2025-05-05	36.03	29.17	65.20
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 BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR OTHER SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS THREE CUBIC YARDS AND OVER MANUFACTURER.S RATED CAPACITY INCLUDING ALL ATTACHMENTS. (HIGHWAY AND HEAVY ONLY)				
306	GRADER OR MOTOR PATROL				
307	PILE DRIVING (HIGHWAY AND HEAVY ONLY)				
308	TUGBOAT 100 H.P. AND OVER WHEN LICENSE REQUIRED (HIGHWAY AND HEAVY ONLY)				
GROUP 3		2024-11-18	33.92	26.79	60.71
		2025-05-05	34.96	29.17	64.13
309	ASPHALT BITUMINOUS STABILIZER PLANT				
310	CABLEWAY				
311	CONCRETE MIXER, STATIONARY PLANT (HIGHWAY AND HEAVY ONLY)				
312	DERRICK (GUY OR STIFFLEG)(POWER)(SKIDS OR STATIONARY) (HIGHWAY AND HEAVY ONLY)				
313	DRAGLINE, CRAWLER, HYDRAULIC BACKHOE (TRACK OR WHEEL MOUNTED) AND/OR SIMILAR EQUIPMENT WITH SHOVEL-TYPE CONTROLS, UP TO THREE CUBIC YARDS MANUFACTURER.S RATED CAPACITY INCLUDING ALL ATTACHMENTS (HIGHWAY AND HEAVY ONLY)				
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, ROAD MOLE, INCLUDING MUCKING OPERATIONS, CONWAY OR SIMILAR TYPE				
318	MECHANIC . WELDER ON POWER EQUIPMENT (HIGHWAY AND HEAVY ONLY)				
319	TRACTOR . BOOM TYPE (HIGHWAY AND HEAVY ONLY)				
320	TANDEM SCRAPER				
321	TRUCK CRANE . CRAWLER CRANE (HIGHWAY AND HEAVY ONLY)				
322	TUGBOAT 100 H.P AND OVER (HIGHWAY AND HEAVY ONLY)				
GROUP 4		2024-11-18	33.58	26.79	60.37
		2025-05-05	34.60	29.17	63.77
323	AIR TRACK ROCK DRILL				
324	AUTOMATIC ROAD MACHINE (CMI OR SIMILAR) (HIGHWAY AND HEAVY ONLY)				
325	BACKFILLER OPERATOR				
326	CONCRETE BATCH PLANT OPERATOR (HIGHWAY AND HEAVY ONLY)				
327	BITUMINOUS ROLLERS, RUBBER TIRED OR STEEL DRUMMED (EIGHT TONS AND OVER)				
328	BITUMINOUS SPREADER AND FINISHING MACHINES (POWER), INCLUDING PAVERS, MACRO SURFACING AND MICRO SURFACING, OR SIMILAR TYPES (OPERATOR AND SCREED PERSON)				
329	BROKK OR R.T.C. REMOTE CONTROL OR SIMILAR TYPE WITH ALL ATTACHMENTS				
330	CAT CHALLENGER TRACTORS OR SIMILAR TYPES PULLING ROCK WAGONS, BULLDOZERS AND SCRAPERS				
331	CHIP HARVESTER AND TREE CUTTER				
332	CONCRETE DISTRIBUTOR AND SPREADER FINISHING MACHINE, LONGITUDINAL FLOAT, JOINT MACHINE, AND SPRAY MACHINE				
333	CONCRETE MIXER ON JOBSITE (HIGHWAY AND HEAVY ONLY)				

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
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	31.71	26.79	58.50

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
		2025-05-05	32.64	29.17	61.81
369	AIR COMPRESSOR, 600 CFM OR OVER (HIGHWAY AND HEAVY ONLY)				
370	BITUMINOUS ROLLER (UNDER EIGHT TONS)				
371	CONCRETE SAW (MULTIPLE BLADE) (POWER OPERATED)				
372	FORM TRENCH DIGGER (POWER)				
373	FRONT END, SKID STEER UP TO 1C YD				
374	GUNITE GUNALL (HIGHWAY AND HEAVY ONLY)				
375	HYDRAULIC LOG SPLITTER				
376	LOADER (BARBER GREENE OR SIMILAR TYPE)				
377	POST HOLE DRIVING MACHINE/POST HOLE AUGER				
378	POWER ACTUATED AUGER AND BORING MACHINE				
379	POWER ACTUATED JACK				
380	PUMP (HIGHWAY AND HEAVY ONLY)				
381	SELF-PROPELLED CHIP SPREADER (FLAHERTY OR SIMILAR)				
382	SHEEP FOOT COMPACTOR WITH BLADE . 200 H.P. AND OVER				
383	SHOULDERING MACHINE (POWER) APSCO OR SIMILAR TYPE INCLUDING SELF-PROPELLED SAND AND CHIP SPREADER				
384	STUMP CHIPPER AND TREE CHIPPER				
385	TREE FARMER (MACHINE)				
GROUP 6		2024-11-18	31.06	26.79	57.85
		2025-05-05	31.95	29.17	61.12
387	CAT, CHALLENGER, OR SIMILAR TYPE OF TRACTORS, WHEN PULLING DISK OR ROLLER				
388	CONVEYOR (HIGHWAY AND HEAVY ONLY)				
389	DREDGE DECK HAND				
390	FIRE PERSON OR TANK CAR HEATER (HIGHWAY AND HEAVY ONLY)				
391	GRAVEL SCREENING PLANT (PORTABLE NOT CRUSHING OR WASHING)				
392	GREASER (TRACTOR) (HIGHWAY AND HEAVY ONLY)				
393	LEVER PERSON				
394	OILER (POWER SHOVEL, CRANE, TRUCK CRANE, DRAGLINE, CRUSHERS, AND MILLING MACHINES, OR OTHER SIMILAR HEAVY EQUIPMENT) (HIGHWAY AND HEAVY ONLY)				
395	POWER SWEEPER				
396	SHEEP FOOT ROLLER AND ROLLERS ON GRAVEL COMPACTION, INCLUDING VIBRATING ROLLERS				
397	TRACTOR, WHEEL TYPE, OVER 50 H.P., UNRELATED TO LANDSCAPING				
TRUCK DRIVERS					
GROUP 1		2024-11-18	28.92	21.35	50.27
601	MECHANIC . WELDER				
602	TRACTOR TRAILER DRIVER				
603					

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
	TRUCK DRIVER (HAULING MACHINERY INCLUDING OPERATION OF HAND AND POWER OPERATED WINCHES)				
GROUP 2		2024-11-18	35.66	18.07	53.73
604	FOUR OR MORE AXLE UNIT, STRAIGHT BODY TRUCK				
GROUP 3		2024-11-18	31.93	25.00	56.93
605	BITUMINOUS DISTRIBUTOR DRIVER				
606	BITUMINOUS DISTRIBUTOR (ONE PERSON OPERATION)				
607	THREE AXLE UNITS				
GROUP 4		2024-11-18	31.93	25.00	56.93
608	BITUMINOUS DISTRIBUTOR SPRAY OPERATOR (REAR AND OILER)				
609	DUMP PERSON				
610	GREASER				
611	PILOT CAR DRIVER				
612	RUBBER-TIRED, SELF-PROPELLED PACKER 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	0.00	17.50
702	BOILERMAKERS	2024-11-18	46.00	31.93	77.93
		2025-01-01	48.35	31.93	80.28
703	BRICKLAYERS	2024-11-18	35.88	23.20	59.08
704	CARPENTERS	2024-11-18	36.49	28.29	64.78
		2025-01-01	36.49	28.29	64.78
		2025-05-01	41.69	28.29	69.98
705	CARPET LAYERS (LINOLEUM)	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
706	CEMENT MASONS	2024-11-18	45.17	24.22	69.39
707	ELECTRICIANS	2024-11-18	46.00	30.00	76.00
		2025-07-01	50.86	30.00	80.86

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
711	GROUND PERSON	2024-11-18	40.14	0.00	40.14
712	IRONWORKERS	2024-11-18	41.19	35.68	76.87
713	LINEMAN	2024-11-18	36.26	6.93	43.19
714	MILLWRIGHT	2024-11-18	44.38	28.92	73.30
		2025-01-01	44.38	28.92	73.30
		2025-05-01	48.13	29.41	77.54
715	PAINTERS (INCLUDING HAND BRUSHED, HAND SPRAYED, AND THE TAPING OF PAVEMENT MARKINGS)	2024-11-18	32.38	25.28	57.66
		2025-05-01	34.98	25.28	60.26
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	47.91	20.04	67.95
719	PLUMBERS	2024-11-18	44.78	23.04	67.82
721	SHEET METAL WORKERS	2024-11-18	27.00	3.33	30.33
723	TERRAZZO WORKERS	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
724	TILE SETTERS	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
725	TILE FINISHERS	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
727	WIRING SYSTEM TECHNICIAN	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
728	WIRING SYSTEMS INSTALLER	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			

LABOR CODE AND CLASS		EFFECT DATE	BASIC RATE	FRINGE RATE	TOTAL RATE
729	ASBESTOS ABATEMENT WORKER	FOR RATE CALL 651-284-5091 OR EMAIL DLI.PREVWAGE@STATE.MN.US			
730	SIGN ERECTOR	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 state-funded 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
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 S

SPECIAL PROVISIONS

S.A.P. 056-635-043

DIVISION S

SPECIAL PROVISIONS

PROJECT NO. S.A.P. 056-635-043

CSAH 35 Resurfacing
Stabilized Full Depth Reclamation, Grading, Bituminous Surfacing & Aggregate Surfacing

S-1 CONTRACT INFORMATION

Direct questions about this Project, including pre-bid questions, to Krysten Foster at 218-998-8475.

The deadline for pre-bid questions is 1:00 p.m. Central Standard Time (CST) on Tuesday, June 3, 2025.

S-2 GOVERNING SPECIFICATIONS

The Minnesota Department of Transportation Standard Specifications for Construction, 2020 Edition, shall apply on this Contract except as modified or altered in the following special provisions.

The 2024 SALT Schedule of Materials Control – Local Government Agency shall apply on this contract.

S-3 RESPONSIBLE CONTRACTOR

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 SUBMITTED 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-4 PROTECTION OF FISH AND WILDLIFE RESOURCES REVISED 03/28/25
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).

The Environmental Document for this Project is available. Contact the Project Engineer

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. BAT PROTECTION

The Project is located in an area inhabited by one or more protected bat species. The Contractor must ensure all operators, employees, and Contractors working in areas of known or presumed bat habitat are aware of environmental commitments and avoidance and minimization measures (AMMs) to protect both bats and their habitat. The Contractor must notify Project Subcontractors during the preconstruction meeting.

Contractor must direct temporary lighting, if used, away from wooded areas during the bat active season (April 15 to October 31, inclusive).

Contractor must immediately report (within 24 hours) all bat sightings, live or dead, to the Department's wildlife ecologist at protectedspecies.dot@state.mn.us.

B.1 Tree Clearing Requirements
Restrict all activities to avoid tree clearing. Tree removals must not occur on this project without additional coordination. Contact protectedspecies.dot@state.mn.us.

C 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.

D MIGRATORY BIRD PROTECTION

D.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-5 (1203) ACCESS TO PROPOSAL PACKAGE
The provisions of MnDOT 1203 are deleted and replaced with the following:

The Department will provide Bidders with access to the Proposal Package online through RTVISION (https://mn-co-otter-tail.app.rtvision.com/oneoffice/bidding). The Department may require a fee for Bidders to purchase and download copies of the Proposal Package.

S-6 (1206) PREPARATION AND DELIVERY OF PROPOSAL

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

Mn/DOT 1206.1 is hereby deleted from the Mn/DOT Standard Specifications and replaced with the following:

1206.1 PREPARATION AND DELIVERY

ELECTRONIC METHOD:

The Contractor shall provide bids electronically by going to the Otter Tail County Highway Department website: https://mn-co-otter-tail.app.rtvision.com/oneoffice/bidding. The Contractor will then be required to follow the bidding instructions listed at this website. Otter Tail County is not responsible for any errors or omissions in the submittal of electronic bids.

Bidder shall submit the Proposal and the Proposal Guaranty online.

The Bidder shall electronically sign and submit the following with the Proposal:

(1) The complete "Schedule of Prices".
(2) Form 21126D, "Proposal Signature Page" attached to the back of the Proposal with signatures and all Agenda acknowledged,
(3) Non-collusion affidavit.
(4) Responsible Contractor Verification
(5) Form OTC MN Statutes Section 363 Compliance, "EEO Clause;" and
(6) Any other forms included in the Proposal Package.

Proposals must be complete, digitally signed and submitted by the date and time for opening Proposals. Late submission in not allowed.

YOU MUST SUBMIT A COMPLETE PROPOSAL.

Mn/DOT 1206.2 is hereby deleted from the Mn/DOT Standard Specifications and replaced with the following:

1206.2 ALLOWABLE SUBSTITUTIONS

No substitutions are allowed. Any bids submitted differing from 1206.1 above shall be considered an invalid bid and will not be opened.

S-7 (1212) OPENING OF PROPOSALS

The provisions of Mn/DOT 1212 is modified by adding the following:

Proposal results can be viewed by going to the Otter Tail County Highway Department website: https://mn-co-otter-tail.app.rtvision.com/oneoffice/bidding

S-8 (1302) AWARD OF CONTRACT

The provisions of 1302 are hereby modified and supplemented by the following:

As a condition precedent to the award of contract, the bidder shall furnish proof that he/she 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-9 (1306) EXECUTION AND APPROVAL OF CONTRACT

Delete and replace the first paragraph of 1306 with the following:

The lowest responsible bidder shall sign and return the Contract with the required bonds no later than **seven** business days after notice of award.

S-10 (1404) MAINTENANCE OF TRAFFIC, (1707) PUBLIC CONVENIENCE AND SAFETY & (2563) TRAFFIC CONTROL

The provisions of 1404, 1707, and 2563 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 Pre-construction Conference. The Contractor shall also furnish the names, addresses, and phone numbers of those individuals to the following:

1. Otter Tail County Highway Department	(218) 998-8470
2. Otter Tail County Sheriff's Department	(218) 998-8555
3. Candor Township	(218) 342-3477
4. Dora Township	(651) 403-9001
5. Edna Township	(218) 234-9129
6. City of Dent	(218) 758-2233
7. City of Vergas	(218) 302-5996
8. Perham-Dent School	(218) 758-2000
9. Frazee-Vergas Schol	(218) 334-3181
10. Dent Postal Service	(218) 758-2020
11. Vergas Postal Service	(218) 342-2911

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.

The project will be open to through traffic during construction, except during the stabilizing agent setup period and centerline culvert work. No work will be performed after dark. All personnel and equipment will be off the highway prior to dark. Dark will be as determined by the Engineer or his designated representative.

Method of Measurement and Basis of 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).

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

Table SP2563-2
Traffic Control Partial Payments

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

S-11 (1507) UTILITY PROPERTY AND SERVICE
Construction operations in the proximity of utility properties shall be performed in accordance with the provisions of Mn/DOT 1507, and the following:

The Contractor shall coordinate his/her work and cooperate with the foregoing utility owners and their forces in a manner consistent with the provisions of Mn/DOT 1507 and the applicable provisions of Mn/DOT 1505.

PROTECTING UNDERGROUND AND SURFACE STRUCTURES
Temporary support, adequate protection, and maintenance of all underground and surface utility structures, drains, sewers and other obstructions encountered in the progress of the work shall be furnished by the Contractor at his/her own expense. When necessary to determine the location of existing pipes, valves or other underground structures, the Contractor, after an examination of available records shall make all explorations and excavation for such purposes.

Whenever existing utility structures, main sewers, drains, or other conduits, ducts, pipes or other structures present obstructions to the grade or alignment of the pipe, such structures shall be permanently supported, removed, relocated, or reconstructed by the Contractor through cooperation with the owner of the structures involved, and shall be considered incidental to the other Contract items. In those instances where relocation or reconstruction is impractical, a change in line and/or grade will be ordered by the Engineer and the change shall be made in the manner directed. No deviation shall be made from the required line or grade except by written consent from the Engineer.

The Contractor shall promptly repair at his/her own expense any break or damage to other utility mains, or to house service connections for water, sewer, and gas, caused by his/her work.

S-12 (1508) CONSTRUCTION STAKES, LINES AND GRADES
The Contractor will provide 48 hours notice, excluding non-working days, for all construction staking needs.

S-13 (1515) CONTROL OF HAUL ROADS

Control of haul roads shall be in accordance with the provisions of 1515, except as modified below:

The Contractor shall make all necessary arrangements concerning the use of all roads, except Trunk Highways, and shall be fully responsible to the road authority in control for any damages caused by his/her hauling operations, as well as for any other conditions created or imposed.

The Engineer can require the Contractor to furnish any material or equipment the Engineer determines is needed for the safe use of haul roads, both on or off the project, including the use of water for dust control. All materials, equipment, and water for dust control deemed necessary for haul road maintenance and safety shall be considered incidental and no direct compensation will be made therefore.

Haul road release form(s) from each road authority will be required before final payment is made on the contract.

S-14 (1517) CLAIMS FOR COMPENSATION ADJUSTMENT

Claims shall be handled in accordance with the provisions of 1517 and the following:

If the basis for the claim does not become apparent until the Contractor has proceeded with the work and it is not feasible to stop the work, the Contractor shall immediately notify the Engineer that work is continuing and that written notification of the intent to make claim will be submitted within ten (10) calendar days.

All claims by the Contractor for additional compensation shall be submitted in writing to the Engineer within sixty (60) working days after completion of the work on which the claim is based. Equipment costs shall be the Contractors actual cost for each piece of equipment, not to exceed the Commissioners' Equipment Rental Schedule published by Mn/DOT.

Within sixty (60) days after receipt of a properly written claim, the Engineer will give written notification to the Contractor indicating approval, partial approval, or disapproval of the claim for additional compensation.

S-15 (1701) LAWS TO BE OBSERVED

The provisions of MnDOT 1701 are supplemented and/or modified with the following:

Add the following to 1701, "Laws to be Observed":

1701.6 EQUAL PAY

The local agency cannot execute a contract for goods or services or an agreement for goods or services in excess of $1,000,000 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 an equal pay certificate or it has certified in writing that it is exempt. Bidders may find more information on the Equal Pay Certificate Requirement at Minnesota Statutes Section 363A.44 or at this website:

https://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 "Employment Taxes & Employer Responsibilities Seminar" or similarly offered classes. You can find a schedule and more information on the Department of Revenue 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).

S-16 (1702) PERMITS, LICENSES AND TAXES

The provisions of 1702 are hereby supplemented by the following:

The Contractor must comply with the requirements of the Minnesota Department of Transportation Permit No. 4-US-2025-113061, see attached.

The Contractor must comply with the requirements of the Minnesota Pollution Control Agency Authorization to Discharge Stormwater Associated with Construction Activity Under the Pollutant Discharge Elimination System (NPDES) / State Disposal System (SDS) Program, Permit No. C00071668, see attached.

S-17 (1707) PUBLIC CONVENIENCE AND SAFETY

The provisions of 1707 are hereby supplemented by the following:

MAILBOXES

Mailboxes located within the construction limits that require moving shall be temporarily relocated by the Contractor in such a manner that mail deliveries will not be unduly hampered. Upon completion of construction, the Contractor shall restore any relocated mailboxes to their original location. Mailbox relocation not indicated in the project plans shall be incidental to the contract and no direct compensation will be made therefore.

DUST CONTROL

The Contractor shall apply water for dust control as necessary for the safe use by forces working on the projects and the traveling public. All costs connected with dust control on the projects, or on any haul road or detour, shall be considered incidental to Traffic control and no direct compensation will be made therefore. The Contractor shall be required to respond within four hours to any call from the Engineer or his designated representative concerning any request for dust control. If the Contractor is negligent in providing dust control within four hours of notification the Contractor shall be subject to a daily charge assessed at a rate of $500.00 per day for each day or any portion thereof with which the Engineer determines that the Contractor has not complied.

ACCESS

The Contractor shall maintain reasonable access to all abutting properties while the Contract is in effect.

S-18 (1714) RESPONSIBILITY FOR DAMAGE CLAIMS; INSURANCE
The provisions of Mn/DOT 1714 are modified with the following:

In Sections 1714.3A (2) & (3) the Annual Aggregate shall be increased to $3,000,000.

The Contractor shall not commence work under the Contract until he/she has obtained the required insurance and such insurance has been approved by the Otter Tail County Attorney.

The Contractor shall deposit with the County Engineer the original, or a certified duplicate copy thereof as applicable to this project, of the Commercial General Liability Insurance and Extended Coverage Policies, required hereunder.

The Contractor shall furnish the County with a certificate of insurance from the insurance company issuing the policies for Worker's Compensation Insurance and such other insurance as is herein required. All policies and certificates shall provide that the policies shall remain in force and effect on thirty days written notice to the County Engineer before cancellation. The above insurance policies and certifications shall be submitted at the same time as the Contract and Bond as provided in 1306.

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

S-19 (1716) CONTRACTOR'S RESPONSIBILITY FOR WORK
1716 shall apply except as follows:

Any unforeseen causes beyond the control of the Contractor shall be determined by Otter Tail County.

S-20 (1717) AIR, LAND, AND WATER POLLUTION NEW 06/28/24
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-21 (1717) MPCA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION STORM WATER (CSW) PERMIT

The Contractor must prevent, control, and abate the pollution of natural resources of air, land and water caused by the Contractor's operations under this Contract in accordance with the rules, regulations, and standards adopted and established by the Minnesota Pollution Control Agency (MPCA), and in accordance with this Contract, the provisions of MnDOT 1717, 2573, 2575, and these Special Provisions including the following:

The **County of Otter Tail** has applied for and received coverage under the above mentioned permit by listing itself as both the Owner and Contractor in the permit application. Upon award of the Contract, the **County** and the Contractor shall execute the CSW Transfer Form (attached to these Special Provisions) to

transfer the contractor responsibilities to the Contractor. The Contractor shall submit the completed form to the MPCA which will amend it to the original permit, thereby making both the **County** and the Contractor co-permittees for the requirements of the Construction Stormwater General Permit (MN R100001). The Contractor is responsible for those portions of the permit referencing the "operator". This Permit establishes conditions for discharging storm water to waters of the State from construction activities that disturb 1 acre or more of total land area. A copy of the permit is available at http://www.pca.state.mn.us/water/stormwater/stormwater-c.html or by calling 651-296-6300.

There is no fee for the transfer of the permit. **The Contractor is not authorized to perform any Project work which disturbs soil or which involves work in waters of the state until the permit transfer forms are signed, dated, and sent to the MPCA. The Contractor must comply with all the requirements of the General Permit that apply to the Contractor's operations during the construction phase of the project.** The Contractor shall post the Permit and MPCA's letter of coverage on-site.

The Contractor must provide an Erosion Control Supervisor as per MnDOT 2573.3. The Contractor is solely responsible for all inspections, maintenance, and records required in the General Permit, Section 11. Contractor must use standard forms for logging all required inspection and maintenance activities. Contractor must submit all inspection and maintenance forms used on this Project to the Engineer weekly for retention in accordance with the permit. The Contractor must also have the forms available for on-site review.

The Contractor must immediately notify the Engineer of any site visits by Local Permitting Authorities performed in accordance with Section 24.10 of the permit. The Contractor must obtain the Engineer's approval before starting any work required by regulatory authorities which (1) the Contractor believes will result in additional compensation from **Otter Tail County**; or (2) will impact the design or requirements of the Contract documents or impact traffic.

The Contractor must use Emergency Best Management Practices to help minimize turbidity of surface waters and relieve runoff from extreme weather events. The Contractor must report a stormwater sediment release from the project site to the Minnesota Duty Officer and the Resident Engineer at the time the Contractor or Department discovers the release. The Contractor must also immediately contact the State Duty Officer (at 1-800-422-0798 or 1-651-649-5451) during any emergency situation involving an uncontrolled stormwater release.

The Contractor must review and abide by the instructions contained in the permit package. The Contractor will indemnify and hold **Otter Tail County** harmless for any fines or sanctions imposed by a regulatory authority and arising from the Contractor's acts or omissions in complying, or failing to comply, with the permit or erosion control provisions of this Contract.

The NPDES Permit refers to a Storm Water Pollution Prevention Plan (SWPPP). This Project's SWPPP requirement is addressed throughout the Contract, as well as this Project's Plan. The following table identifies NPDES permit requirements and cross-references where this Contract addresses each requirement. This table is for ease of reference only and may be incomplete.

NPDES Permit Requirements	Cross-Reference within this Contract
Obtain NPDES Permit; Permit Compliance; Submit Notice of Termination	MnDOT 1701, 1702; and 1717 Special Provisions: 1717 (National Pollutant Discharge Elimination System (NPDES) Permit)
Certified Personnel in Erosion / Sediment Control Site Management Develop a Chain of Command	MnDOT 1506, 1717, and 2573; Special Provisions: 1717 (National Pollutant Discharge Elimination System (NPDES) Permit)
Certified Personnel in Erosion / Sediment Control Site installation	MnDOT Specifications 2573
Project / Weekly Schedule (for Erosion / Sediment Control)	MnDOT 1717 and 2573;

NPDES Permit Requirements	Cross-Reference within this Contract
Completing Inspection / Maintenance Log / Records	Special Provisions: 1717 (National Pollutant Discharge Elimination System (NPDES) Permit); and
Project Specific Construction Staging	The Plans; MnDOT 1717; Special Provisions: 1717 (National Pollutant Discharge Elimination System (NPDES) Permit); and 1806 (Determination and Extension of Contract Time)
Temporary Erosion / Sediment Control	The Plans; MnDOT 2573, 2574 and 2575
Maintenance of Devices / Sediment removal Removal of Tracked Sediment Removal of Devices	The Plans; MnDOT 1717.2 and 2573.3K, 2573.3.R.; Special Provisions: 1514 (Maintenance During Construction), and 1717 (National Pollutant Discharge Elimination System (NPDES) Permit)
Dewatering	MnDOT 2573.3.A.6, 3875; May also require DNR Permit
Temporary work not shown in the Plans Grading areas (unfinished acres exposed to erosion)	MnDOT 1717, 2573, 2574 and 2575; Special Provisions: 1717 (National Pollutant Discharge Elimination System (NPDES) Permit), 2574.3.A.1
Permanent Erosion / Sediment Control and Turf Establishment	The Plans; MnDOT 1717, 2573, 2574, and 2575; Special Provisions: 1717 (National Pollutant Discharge Elimination System (NPDES) Permit)

S-22 PRE-CONSTRUCTION CONFERENCE

All Superintendents and Foreman that will be present on the project on a daily basis and Superintendents and Foreman responsible for making any decisions concerning this project must attend the pre-construction conference.

At the pre-construction conference, the Contractor shall submit:

a. His/her proposed progress schedule in the form of a bar chart for accomplishment of major items of work including erosion control, traffic control, cattle pass removal, full depth reclamation, stabilization full depth reclamation, bituminous surfacing, shouldering and seeding.

b. His/her proposed method and schedule of erosion control on haul roads and at borrow pits and his/her plans for disposal of waste material. No work shall be started until the applicable erosion control schedules and methods of operations have been accepted by the Engineer.

c. A map highlighting the proposed pits and a sketch showing the aggregate stockpile locations and class of aggregate in each stockpile. The Contractor shall also supply the Engineer with copies of gradations of all aggregate produced to date. This will also include the Contractor's source of temporary aggregate surfacing for special maintenance.

d. A Map highlighting the proposed haul roads.

e. A list of authorized representatives for signatures and their home and mobile phone numbers.

f. A list of all subcontractors/suppliers and the services/materials they will provide, along with phone numbers of their contacts and/or key personnel.

g. The name and phone number of the Work Zone Safety Coordinator who shall be responsible for safety and traffic control management in the Project work zone.

h. A list of names, addresses and phone numbers of at least three (3) individuals responsible for the placement and maintenance of traffic control devices.

i. The Contractor shall provide a priority list of survey work to be performed as stated in these provisions. If a change in priority of work is requested by the Contractor, there shall be at least 48 hours prior notice given to the survey crew, excluding non-working days.

j. The Contractor shall provide information on their Material Delivery Management System (E-Ticketing) and give examples of the information/deliverable the Engineer can be expected from said system.

S-23 SAFETY PROGRAM

The Contractor shall supply a copy of their company's Safety Program to the County. If the Contractor does not have a safety program, the Contractor shall abide by the Otter Tail County's Safety Program requirements.

S-24 DRUG AND ALCOHOL ABUSE AND TESTING PROGRAM

The Contractor shall supply a copy of their company's Drug and Alcohol Abuse and Testing Program to the County. If the Contractor does not have a Drug and Alcohol Abuse and Testing Program, the Contractor shall abide by the Otter Tail County's Drug and Alcohol Abuse and Testing Program requirements.

S-25 EROSION CONTROL

The Contractor shall supply the County with a copy of their Erosion Control Program for both temporary and permanent erosion control for the project.

S-26 IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

By signing this bid, the bidder will be deemed to have stipulated as follows:

a. That any facility to be utilized in the performance of this Contract unless such Contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et. Seq., as amended by Pub. L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. Seq., as amended by Pub. L. 92-500), Executive Order 11738, and regulations in implementation therefore (40 CFR, Part 15), is not listed on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

b. That the Otter Tail County Highway Department shall be promptly notified prior to Contract award of the receipt by the bidder of any communications from the Director, Office of Federal Activities, EPA, indicating that a facility to be utilized for the Contract is under consideration to be listed on the EPA List of Violating Facilities.

S-27 (1803) PROGRESS SCHEDULES

Standard Specification 1803.2C is hereby replaced with the following:

The contractor shall allow for normal weather delays when developing the Bar Chart Schedule. The Department will extend the Contract Time, except as limited by 1806.4, "Extension of Contract Ime Due to Weather on Calendar Day and Completion Date Contracts," for delays in excess of the anticipated Working days lost to inclement weather as specified in the table below. The days in the table below are cumulative and shall be prorated when Contract Time starts or ends mid-month.

Table 1803.2-1 is hereby deleted and replaced with the following:

Table 1803.2-1
Anticipated Work Days Lost Due to Weather per Time Period

Time Period	**Anticipated Work Days Lost** (due to weather)
January	*all*
February	*all*
March	*all*
April 1-15	*all*
April 16-30	4
May	4
June	3
July	3
August	3
September	3
October	4
November 1-14	4
November 15-30	*all*
December	*all*

S-28 (1804) PROSECUTION OF WORK (ADA) REVISED 01/21/22

Add the following to MnDOT 1804:

1804.3 ADA REQUIREMENTS

Pedestrian facilities on this Project must be constructed according to Public Right of Way Accessibility Guidelines (PROWAG) http://www.dot.state.mn.us/ada/pdf/PROWAG.pdf.The appropriate pedestrian ramp details for each quadrant are included in the Plan. The Engineer may provide additional details to those provided in the Plan that meet PROWAG and MnDOT ADA Standards (http://www.dot.state.mn.us/ada/pdf/MnDOT-ada-standards.pdf) as the need arises and field conditions dictate.

A Designate a certified person to assess proposed sidewalk layouts at each site at the preconstruction meeting. Certification is obtained by passing MnDOT's ADA Construction Certification Course, with in the past 3 years. For class dates and locations please refer to the following link at: http://www.dot.state.mn.us/ada/training.html.

A minimum of one person per project must possess a valid ADA Construction Certification card anytime ADA work is being performed on the project. If work on electrical components is the only ADA work taking place on the project the electrician must have in their possession a current MnDOT Signals and Lighting Certification.

ADA work includes: assessment of proposed sidewalk layouts at each site before work begins, determining and marking removal limits for work pertaining to pedestrian facilities, ADA related removals and grading, forming and finishing of concrete at pedestrian facilities, paving pedestrian crossings, placing bituminous pedestrian facilities, final grading, and pavement markings. Any ADA work not listed above can be added at the discretion of the Engineer. An ADA Certified person is not required on site if the only work being performed concerns electrical components such as traffic signals and Accessible Pedestrian Signal (APS) push button installations.

B Pedestrian facilities must be constructed to meet the following criteria:

(1) Pedestrian Access Routes (PAR) must be constructed to meet the following:

(a) Minimum 4 feet width.

(b) A maximum cross slope of 2.0%.

(c) Vertical discontinuities must be less than 1/4 inches.

(d) Must provide positive drainage without allowing any ponding and maintain existing drainage flow patterns unless indicated otherwise in the Plan.

(e) All grade breaks shall be constructed perpendicular to the path of travel.

(f) Maximum 5% running slope unless adjacent roadway profile exceeds 5%.

(2) Landings are part of the PAR and must be constructed to meet the following:

(a) 4 feet by 4 feet minimum width and shall match full width of incoming PAR.

(b) Maximum slope of 2.0% in all directions.

(c) Required at all locations where the PAR changes directions or inverse running slopes are greater than 2.0%.

(d) Must be connected to the PAR.

(e) Shall be constructed as a single plane surface having no grade breaks.

(3) Ramps are part of the PAR and must be constructed to meet either of the following criteria:

(a) Longitudinal slopes less than 5% in the direction of travel requires no landing at the top of the ramp (unless the PAR changes direction).

(b) Longitudinal slopes between 5 - 8.3% in the direction of travel require a landing at the top of the ramp.

C The Contractor and the Engineer shall work together to construct all pedestrian facilities set forth in the plans and in 1804.3B above.

Before any ADA construction begins the Project Engineer will schedule and facilitate an onsite pre-activity meeting that shall consist of a project walk through with the Prime Contractor and the Concrete Flatwork Contractor's MNDOT ADA Construction Certified person. This pre-activity meeting should discuss and document potential issues, any known plan changes, potential discrepancies, and any modifications to the construction plan. The project team should discuss the ADA construction schedule and incorporate into the requirements of MnDOT 1803 (Progress Schedules) including the 2-week look ahead meetings for ADA activities. The discussion should include the sequence of removals and grading, utility placement and relocations, concrete curb and gutter, curb ramp, sidewalk, driveway placements, signals and lighting, temporary pedestrian access including both commercial and residential access, Temporary Pedestrian Access Routes/Alternate Pedestrian Access Routes, and traffic control staging. The Contractor should discuss what equipment, formwork, and materials are to be utilized on the project and how the pedestrian facilities will be constructed.

Notify the Engineer if the plan or site conditions do not allow PROWAAG and MnDOT ADA standards to be met, the Contractor shall consult with the Engineer to determine a resolution. The Engineer shall respond to the Contractor, in a timely manner (up to 24 hours), with a solution on how to proceed. The Contractor shall mitigate any potential delays by progressing other available work on the project.

Pedestrian facilities constructed that are not in accordance with the Plan, do not meet requirements in 1804.3B above, or do not follow the agreed upon resolution with the Engineer, will be corrected by the Contractor at no expense to the Department.

The following Hold Points will be utilized in the construction of pedestrian facilities:

(1) Removal Limits

The Contractor and the Engineer shall use the appropriate ramp, sidewalk, and driveway details in the Plan, and calculate the removal limits for the sidewalk and curb and gutter. If it is determined that the removal limits will exceed the plan removal limits by more than 10 feet and the plan removal limits are not adequate to meet PROWAG and MnDOT ADA Standards the Contractor shall consult with the Engineer to determine a solution. Once the Engineer and the Contractor reach an agreement on how to proceed, the Contractor may finish the removals.

(2) Curb and Gutter at Quadrants

Prior to pouring the curb and gutter at curb ramps the Contractor and the Engineer must verify:

(a) that the curb and gutter will work with any vertical constraints (doorways, steps, bus stops, outwalks and landing areas).

(b) zero height curb, and curb transitions will be located as shown in the Plans and will provide an adequate detectable edge as shown on Standard Plan 5-297.250 (Sheet 4 of 6).

(c) verify curb tapers are constructed at correct heights so that positive boulevard slopes and drainage is maintained away from landings and sidewalks, to the newly constructed curb and gutter sections.

(d) gutter flow lines shall provide positive drainage, maintain existing drainage patterns including existing gutter inflows/outflows. The curb and gutter shall be constructed as detailed in the Plan with a defined flow line and have no vertical discontinuities over 1/4 inch. For required flow line corrections including curb line raises and curb ramp cross slope “tabling”, see Standard Plan 5-297.250 (Sheet 6 of 6). Curb shall be poured at 3 percent inflow around the radius or at a minimum distance of 10 feet from any zero height curb section when machine placed. The Contractor shall consult with the Engineer to determine a resolution if any of these conditions cannot be met. Once the Engineer and the Contractor reach an agreement on how to proceed, the Contractor may proceed with pouring the curb and gutter.

(3) Curb and Gutter at Roadway Sections

Prior to pouring curb and gutter at roadway sections the Contractor must verify:

(a) proposed curb and gutter heights will work with existing roadway and shoulder slopes.

(b) The Contractor shall verify prior to placing the pedestrian facilities that positive drainage is maintained. within public Right of Way (RW), as well as maintaining existing off RW drainage. The Contractor shall check to ensure all top back of curb elevations will allow for adequate boulevard slopes, PAR slopes, and widths as shown on Standard Plan 5-

297.254 (Sheet 4 of 4) while maintaining vertically constrained match points (doorways, steps, bus stops, outwalks and landing areas).

(c) The Contractor shall check all driveway locations and widths and conform to construction plans, Sidewalk & Driveway Standard Plan 5-297.254 and Driveway Table for all driveway details including curb heights and curb tapers. Driveway curb sections and aprons shall be constructed to minimize changes in the sidewalk width, alignment, and profile. The Contractor shall consult with the Engineer to determine a resolution if any of these conditions cannot be met. Once the Engineer and the Contractor reach agreement on how to proceed, the Contractor may proceed with pouring the curb and gutter.

(d) When curb ramps are adjacent to bituminous roadways the concrete curb and gutter and curb ramps including concrete flares shall be tied. Drill and grout of tie bars will be required as per MNDOT 2321 and in accordance with the details shown in Standard Plan 5-297.250 (Sheet 6 of 6).

(4) Grading, Forming and Finishing

Foundation Preparation work shall consist of constructing all necessary Subgrade Preparation, Aggregate Base, and Grading as indicated in MNDOT 2106, 2112, 2211, MNDOT Standard Plans 5-297.250 (Sheet 6 of 6), and project plans. The testing for pedestrian facilities grading shall be in accordance with the Schedule of Materials Control.

After the curb and gutter has been correctly poured, and the Contractor has set the sidewalk forms, the Contractor shall verify prior to placing the curb ramps and sidewalks that positive drainage is maintained within public RW, as well as maintaining existing off RW drainage, and that all the requirements in 1804.3B above will be achieved.

(a) Ramps

In addition, the longitudinal slopes shown in the Construction Plans and the Standard Plan shall be utilized unless these conditions cannot be met. The starting point for setting the forms on the controlling ramp leg, landing, and sidewalk slopes should be the following:

Steep (S) = 7%

Flat (F) = 4%

Landing = 1%

Sidewalk Cross Slope = 1.5%

If any of these requirements cannot be met the Contractor shall meet with the Engineer to determine the best solution. Once the Engineer and the Contractor reach an agreement on how to proceed, the Contractor may proceed with the curb ramp and sidewalk pour.

(b) Landings

An initial landing is the first required landing of a pedestrian ramp. All initial landings required at the top of a ramped sloped surface (greater

than 2% longitudinal slope), shall be formed and placed separately in an independent concrete pour. This does not include initial landings placed at roadway grade such as depressed corners, parallel ramps, rural flat landings, or flat cut-throughs. Secondary landings consist of all landings beyond the initial landing. These secondary landings do not require a separate landing pour. The Contractor shall verify initial landing alignments and elevations to ensure ramp slopes are correct prior to placing curb and gutter. At a minimum this must include string line verification or the setting of landing forms

(c) Driveways

Driveways with concrete aprons matching into concrete sidewalks shall form and place the apron independent of the concrete sidewalk placement. The Contractor shall consult with the Engineer if separate concrete placements for specific driveway locations must be placed monolithic to maintain project schedule or maintain usage of commercial driveways.

All subgrade preparation and grading for the driveways, including placement of select grading materials and aggregate base, shall be completed prior to constructing any concrete driveway flatwork including both concrete walk sections and concrete apron sections.

All necessary subgrade preparation and aggregate base placement for the entire ramp construction limit shall be done before the initial landing is constructed at each location.

D It shall be the responsibility of the Contractor, or Contractor's Surveyor if applicable, to lay out all proposed work at each intersection in accordance with the Plan and requirements listed in this Special Provision. The Contractor may confer with the Engineer for guidance in laying out the proposed work, but it will be the Contractor's responsibility to ensure the proposed work meets all the requirements of this Special Provision. This layout includes, but is not limited to placement of grade breaks, curb transitions, gutter flow lines, truncated dome placement, crosswalk marking placement, flares, landing limits, removal limits, driveway tie in limits, and ramp limits. It is important that the Contractor lay out this work properly to achieve the construction of a compliant pedestrian facility. The Department's surveyor will only stake points and elevations provided in the Plan. For custom designs, other than specific dimensions provided in the Plan, the Contractor shall be expected to scale dimensions from the Plan as needed to construct the facility. If scaled dimensions do not allow for a facility to be constructed to meet the requirements of this Special Provision, the Contractor shall follow the process listed in1804.3C above. This layout work shall be incidental.

E The Contractor shall utilize measures and methods when working near existing buildings that will avoid damaging the building's face or structure. The contractor will be responsible for any damage to the building's face or structure, both below and above ground. Any damage resulting from Contractor's operations will be repaired at the Contractor's expense to the satisfaction of the Engineer.

F The Contractor shall sawcut all concrete curb ramp, sidewalk, and driveway contraction joints. The only exception to the saw cutting contraction joints requirements will be for tooling relief joints on large driveway placements, and long sidewalk placements to prevent random cracks, and for tooling joints on minor repairs.

The Contractor shall snap chalk lines for contraction joint layouts and discuss with the Engineer the locations of all saw cutting, tooled contraction relief joints, and any modifications to Standard Plans.

The Contractor and Engineer shall coordinate and agree on all expansion joint layouts before any concrete placements.

The Contractor shall saw cut curb and gutter contraction joints within the PAR including contraction joints at zero-inch height curb locations.

G The Contractor will round all joints and edges with a 1/4 inch radius grooving or edging tool within the PAR where minor tooling is permitted. This requirement includes all curb and gutter joints at zero inch height curb sections at curb ramps. Contraction joints shall extend to at least 30 percent of walk thickness. The Contractor shall also have the option of providing saw cuts to construct the sidewalk joints. If saw cutting, provide 1/8 inch wide contraction joints within the PAR, including all curb and gutter joints at zero inch height curb sections. When greater than 50 feet of continuous sidewalk runs are constructed the Contractor shall saw cut all joints. This work shall be incidental.

The top grade break of walkable flares needs a visual joint to indicate a change in grade. To eliminate the use of excessive contraction joints in the quadrant the visual joint shall meet MnDOT 2521.3D.2, except the depth requirement is reduced to 1/4 inch.

All saw cutting, tooling, expansion joint material, and separation joint material shall be incidental to payment of curb and gutter, sidewalks, driveways, curb ramps, and landings.

The Contractor shall use an approved ¼ inch Separation Material Type F at back of curb in sections where there is concrete boulevard or driveways as per Standard Plans 5-297.254 (Sheet 3 of 4). Separation material shall match the full height dimension of adjacent concrete.

The Contractor shall use an approved 1/2 inch expansion material meeting MNDOT Specification 3702 type A- E between the outside edge of sidewalk and existing building or structures. No expansion or separation material shall not be placed in the longitudinal joint between the sidewalk and boulevard joint, unless it is necessary to provide expansion at fixed structures.

At locations where sidewalk is adjacent to existing buildings, extend walk up to the edge of building and place 1/2 inch preformed joint filler 1/2 inch lower than top of walk whenever possible. Furnish and install Backer Rod of appropriate diameter when joints are 1/4 inch wide or greater, clean surfaces and apply approved Silicone Joint Sealant to flush with top of walk. If the transverse sidewalk and boulevard joint layouts cannot be aligned, use approved preformed joint filler with a maximum 1/8 inch width and place between the sidewalk and boulevard to prevent contraction joints from migrating into the adjacent concrete panels.

H The minimum continuous and unobstructed clear width of a Pedestrian Access Route shall be 4.0 feet. All new or reconstructed sidewalk widths shall match or exceed in place sidewalk and in no case shall it be less than 5.0 feet in width except at locations where obstructions cannot be moved or at driveways where slopes exceed the maximum allowable grades. The cross slope of the sidewalk or shared use path shall not exceed 2%, and shall be measured perpendicular to the path of travel across the entire surface width of the sidewalk or shared use path. Curb ramps should match proposed sidewalk PAR width and shall match full shared use path widths. Whenever possible, the entire landings should be placed in a single concrete placement. If this is not possible due to construction staging, follow requirements for reinforcement bar placement and tie adjacent landings together.

In areas where the sidewalk is to be constructed around fixed structures and the grade has been changed, the sidewalk shall be finished around these structures to the satisfaction of the Engineer at no additional cost.

I Longitudinal joint reinforcement- Concrete sidewalks and trails with one or more unrestricted edges that are greater than 7 ft. wide for 4-inch concrete walk, and greater than 10 ft. wide for 6-inch concrete walk shall be constructed according to Concrete Walk Adjacent to Turf detail per Standard Plan 5-297.254 (Sheet 3 of 4).

4-inch concrete walk that requires longitudinal joint reinforcement shall be constructed monolithic as a full width concrete placement using cast in place tie bars.

6-inch concrete walk that requires longitudinal joint reinforcement may use drill and grout or cast in-place tie bars for multiple adjacent concrete placements.

Place tie bar steel to the depth and location shown on the plans. Do not place tie bars within 1' of transverse joint over transverse contraction joints.

Architectural elements such as brick pavers, concrete stamping, and multiple colored concrete placements shall be kept outside the curb ramps and landing areas. Any architectural elements that do not maintain a consistent flat smooth surface shall not be used within the PAR.

S-29 (1806) DETERMINATION AND EXTENSION OF CONTRACT TIME

The Contract time will be determined in accordance with the provisions of 1806 and the following:

All references to working day charges are hereby deleted.

This contract allows for a flexible starting date between **July 7, 2025, and July 12, 2025**, or no later than eight (8) working days after Notice of Contract Approval, whichever is later. The Contractor must not begin payable work before written Notice of Contract Approval. The Contractor shall determine their construction starting date between the above listed dates. The Contractor must notify the Engineer, in writing, at the Pre-Construction conference

The Contractor must complete all Work to meet the requirements of 1516.2 (Project Acceptance) under this Contract before **September 20, 2025**.

No work is permitted on Labor Day unless preapproved by the Engineer. Work on Labor Day Holiday weekend shall be complete by 3:00 P.M. Friday and no work on Saturday or Sunday of these holiday weekends.

The Department based Contract Time on an anticipated six-day Work week, Monday through Saturday, and extended working hours. No work shall be done after 3:00 P.M. on Saturdays, unless approved by Engineer.

The Contractor must complete all Work to meet the requirements of 1516.3, (Completion of the Work) under this Contract within ninety (90) Calendar Days of receipt of the Semi-Final Estimate in accordance with 1908.2, "Semi-Final Estimate Following Project Acceptance."

S-30 (1807) FAILURE TO COMPLETE THE WORK ON TIME

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.

The Department will assess the Contractor a monetary deduction in an amount equal to $200 for each Calendar Day that any work specified under 1516.3 (Completion of the Work) are not met after the expiration of the 90 day period of the Semi-Final Estimate requirements.

S-31 (1902) SCOPE OF PAYMENT RESTORED 06/30/23

Delete and replace MnDOT 1902 with the following:

The Contractor will receive compensation provided for in the Contract as full payment for providing Materials and performing Work in accordance with the Contract requirements. This includes compensation for all risk, loss, damage, and expense incurred by the Contractor for performing the Work required by the Contract. Payment is subject to 1720, "No Waiver of Legal Rights." The Department prohibits the Contractor from accepting payment from any other party for performing the Work required by the Contract, including any Incentive or bonus payment. The Department does not prohibit the following payments from third parties:

(1) Payments from sureties
(2) Quantity-based rebates or credits from suppliers
(3) Payments under another contract for excess material removed under this Contract

S-32 (1903) COMPENSATION FOR ALTERED QUANTITIES

The provisions of this requirement shall not apply to this contract. Overruns and Underruns in estimated quantities in any amount will be paid without a change in the unit price.

If it is found that the quantity of bituminous mixture(s) overruns the contract quantity, the cost of such an overrun shall be borne by both the Contractor and the County on a 50/50 basis, unless a representative of the County in the field has authorized such overrun. It is the intent of this specification to place the responsibility for yield monitoring and control primarily in the hands of the Contractor and not the County.

S-33 (1906) PARTIAL PAYMENTS

Partial payments in excess of 95 percent of the value of the completed work will not be made under this Contract until all physical work is completed.

S-34 (1908) FINAL ESTIMATE AND PAYMENT

The following shall be added to the provisions of 1908:

Before final payment is made for the work on this project, the Contractor must make a satisfactory showing that he/she has made a settlement with the owner or owners of the gravel, sand, binder soil, borrow soil, sod or rock deposits for which the Contractor selects the sources of the material. An affidavit signed by the owner or owners to the effect that the Contractor has paid in full for all materials removed, which were used on this project, and that the material source location has been left in a satisfactory condition to the property owner or owners, shall be provided to the County Engineer.

Before final payment is made, the County shall receive from the Minnesota Department of Revenue the completed IC-134 form, Affidavit for obtaining Final Settlement of Contract with the State of Minnesota and any Political or Governmental Subdivisions thereof. This Form shall be submitted to the Department of Revenue by the Contractor and his/her subcontractor(s) to verify proper withholding of income tax on wages that have been paid.

Before final payment is made, the Contractor shall obtain haul road release form(s) from each road authority.

S-35 (2061) MATERIAL DELIVERY MANAGEMENT SYSTEM – E-TICKETING

NEW 01/27/23 – OTC MODIFIED

DESCRIPTION

This work will consist of capturing source, hauler, and loading and delivery event data associated with the delivery of material to a contract in a standardized, digitalized format.

DEFINITIONS

For the purpose of the Work specified in **Error! Reference source not found.**30, "Quality M anagement – E-Ticketing (Material Delivery Management System)," the Department defines:

Breadcrumb Trail	Latitude, longitude, and associated time stamp for the truck's location recorded at pre-defined intervals.

Category	Subsection of a project with different funding sources.
Contract Geofence	Static virtual perimeter around the limits of the work to be completed in the contract (e.g., boundary of jobsite).
Contract to Source Time	Duration of time spent in transit between contract and source as calculated using time stamps of when truck exits contract geofence and enters source geofence.
Contract Total by Material Code Quantity	Cumulative quantity per material code and contract.
Daily Running Total by Material Code Quantity	Cumulative daily quantity per material code.
Digitalized	Data provided in a database format.
Dump	Truck exchange where source material is delivered.
Dump Geofence Name	Name of geofence where material was dumped within.
E-Ticket (Source Data)	Exportable, digitalized source data.
Loading and Delivery Event Data	Data generated such as dumping details, date and time stamps for given event types, and durations.
Geofence (Geographic Boundary)	virtual geographic perimeter that indicates when a mobile device enters or exits a predefined area.
Hauler Data	Data generated by the Hauler (e.g., truck ID, driver name, broker name, DOT number, etc.). The Hauler for the given truck identification may be the Contractor, Independent Truck Operator (ITO), or Managed Truck Operator (MTO).
Hypertext Transfer Protocol (HTTP)	Protocol used for transmitting data over the internet.
Item Identification	Unique identifier assigned to each pay item in reference list for each specification book.
JavaScript Notation (JSON)	JavaScript object notation in a lightweight, human-readable data-interchange format.
Material Code	A unique identifier assigned to each construction material in the system. In some places, this field also displays the material description.
Material Delivery Management System (MDMS)	System that manages source, Hauler, loading and delivery events, testing and contract administration, and agency verification data associated with delivery of material to a contract.
Mix Design Identification	Unique identifier for a mix design (e.g., mix designation report number).
OAuth 2.0	Industry standard protocol for authorization.
Overweight Weight	Weight of material exceeding the maximum allowable gross weight of the transport vehicle.
Paper Weight Ticket	Also called Bill of Lading. Printed copy of weight ticket created by load-out software. Includes Certificate of Compliance for MnDOT 2461 and computerized batch tickets for MnDOT 2301.
Project	Subsection of the contract with specialized geographic designations (e.g., control section numbers).
Project-Category Geofence	Static virtual perimeter around the limits of a project and funding category.
Representational State Transfer (REST)	Architectural style that applies standards in the HTTP protocol creating the capability of exposing APIs over the internet.
RESTful	REST requires the following 6 guiding constraints to be considered RESTful: 1) client server; 2) stateless; 3) cacheable; 4) uniform interface; 5) layered system; 6) code on demand (optional).
Source Data	Data generated by the source's loadout software, such as contract, project, source, and mix design identification, material code, ticket identification, and loading and weight information. This data is considered as the E-Ticket.
Source Geofence	Static virtual perimeter around boundary of source (e.g., boundary around plant).
Source Identification	AASHTOWare Project or State assigned source identification (e.g., pit/plant identification, BP001, RMX001, GS79103).

Source to Contract Time	Duration of time spent in transit between source and contract as calculated using time stamps of when truck exits source geofence and enters contract geofence.
Split Load	Loads split at delivery for use at more than one location, such as for patching, entrances, multiple piers, multiple intersections for curb and gutter, etc.
Supplier	Company providing material to multiple Contractors.
System Failure	Contractor's MDMS does not collect and/or store data per the requirements of this Standard or when data cellular coverage is limited.
Testing and Contract Administration Data	Data generated by the Engineer and/or Contractor, such as acceptance/rejection, wasted material quantity, water and concrete admixture quantities added in field to ready-mixed concrete, sampling information, split load pay items and quantities, testing results, etc.
Time at Contract (TimeAtContract)	Duration of time spent inside contract boundary as calculated using time stamps of when truck enters and exits contract geofence.
Time at Source (TimeAtSource)	Duration of time spent at source as calculated using time stamps when truck enters and exits source geofence.
Transit from Contract to Source (ContractToSource)	Duration of time spent in transit between contract and source as calculated using time stamps of when truck exits contract geofence and enters source geofence.
Transit from Source to Contract (SourceToContract)	Duration of time spent in transit between source and contract as calculated using time stamps of when truck exits source geofence and enters contract geofence.
Truck Driver Classification	Description of truck classification as defined by the Federal Wage System. For example: Tractor Trailer Driver; Four or More Axle Unit, Straight Body Truck; Three Axle Units, or Two Axle Unit.
Veta	Standardized intelligent construction data management (ICDM) software that stores, maps and analyzes geospatial data resulting from intelligent construction technology (ICT) such as intelligent compaction, paver mounted thermal profiling, dielectric profile method and spot test data (e.g., density, moisture). 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.

MATERIALS - BLANK

CONSTRUCTION REQUIREMENTS

A. REQUIRED USE OF MDMS
Use the MDMS on the following:
(1) 2360 (Plant Mixed Asphalt Pavement) – ton

B. Equipment and Software – Contractor's MDMS
Use system with a minimum of the following components:
(1) Software to digitalize source data and to standardize data fields generated from varying loadout software platforms for inclusion as the E-Ticket in the Contractor's MDMS. See Table SP2061-1 (E-Ticketing) for required source data fields and standardized naming conventions.
(2) When feature available, allows entry of source identification data, per Table SP2061-9 (E-Ticketing), and ability to edit the truck identification contained within the E-Ticket should trucks get out of order during the loading process.
(3) Allows manual entry (or import from load-out software) of hauler data associated with E-Tickets, per Table SP2061-11 (E-Ticketing), into Contractor's MDMS.
(4) Ability to manually accept dump event.
(5) Portable, or hardwired, GNSS to track truck locations. The GNSS:
(a) Is powered independently, and/or through use of an adapter.

(b) Provides an indication of instances where there is interruption of satellite signals used to track truck locations.
(c) Is associated with corresponding truck identification and ticket identification.
(d) Sends and saves breadcrumb trail at 1 minutes, or less, intervals.
(e) Provides playback features to display transit routes for each breadcrumb trail.

(6) Static Geofences
(a) Establishes static geofence around source(s) and contract(s).
(b) Records geofence name, and date and time stamps, associated with truck when entering and exiting the *source* and *contract* geofences (see Table SP2061-13 (E-Ticketing)).
(c) Calculates duration of time spent within the source and contract geofence, and transit times between the "source to contract" and "contract to source" (see Table SP2061-13 (E-Ticketing)).

(7) Ability to trigger a dump event for recording dump time and location (see Table SP2061-13 (E-Ticketing)).

(8) Data Generated at Source
(a) Suppliers and Contractor owned sources will provide source data to Contractor's MDMS in 2 minutes or less of point of sale.
(b) Contractor's MDMS will provide source data (data fields contained in Table SP2061-1 (E-Ticketing)) to Contractor's MDMS user interface in 1 minute or less of receipt of data.
(c) Contractor owned permanent and portable sources will provide source data through a solution of the Contractor's MDMS or per 0B.8(d).
(d) Suppliers and Contractor owned permanent and portable sources will provide source data to Contractor's MDMS per the following method. Suppliers, Contractor owned permanent and portable sources, and MDMS vendors will use:
(1) REST APIs (secured using the OAuth 2.0 Standard) exposed by the Contractor's MDMS for transmittal of source data to the Contractor's MDMS.
(2) JSON data interchange language as the format for data sent and received from the REST APIs.
(3) JSON request body format will contain the source data per ticket per Table SP2061-1 (E-Ticketing).
(4) Contractor's MDMS will allow import of more than one ticket per JSON message should batch queuing occur as a result of unexpected issues by Supplier or Contractor owned source.
(e) When interface available, Contractor's MDMS will transmit source, Hauler, and loading and delivery event data to Veta, using REST APIs and a JSON data interchange language, in 4 minutes or less of point of sale.

(9) MDMS Data Generated at Contract Geofence and During Dump Event
(a) When interface available, Contractor's MDMS will transmit loading and delivery event data to Veta, in 1 minute or less of recorded event, using REST APIs and a JSON data interchange language.

(10) File Downloads
All Contractor's MDMS source, Hauler, and loading and delivery event data, per Tables SP2061-1 (E-Ticketing), SP2061-11 (E-Ticketing), and SP2061-13 (E-Ticketing), are exportable by Engineer as a dbase ASCII, CSV, XLSX, or text format within 15 minutes intervals from Contractor's MDMS. Loading and delivery event data, collected in systems separate from Contractor's MDMS must include ticket identification, source identification, and loading date and time for cross referencing to source and Hauler data.

(11) Engineer has viewing in 3 minutes or less of the point of sale (using a web- and/or application-based user interface) of the following information in Contractor's MDMS when adequate data cellular coverage is available:
(a) Number of trucks at source, in transit from source to contract, at contract (and/or dump), and in transit from contract to source.
(b) When feature available, tabular summary of ticket status (e.g., ticket identification, loaded, in transit, dumped).
(c) Source data per Tables SP2061-1 (E-Ticketing) and SP2061-9 (E-Ticketing).

(d) Hauler data per Table SP2061-11 (E-Ticketing).

(12) Instrument appropriate components of MDMS on the following to meet requirements of Table SP2061-17 (E-Ticketing):

(a) Sources providing material to contract.

(b) Dump locations.

(c) All trucks delivering material to contract.

Table SP2061-1 (E-Ticketing)
Required Source (E-Ticket) Data Fields in Contractor's MDMS for each Data Block

Ref Field No.	JSON Field` Name	Long Description	Examples	Data Type	Unit Category	Data Field Required for: Aggregate (MnDOT 2118)	Data Field Required for: Asphalt Paving (MnDOT 2353, 2360, 2363, 2365)	Data Field Required for: Concrete Paving (MnDOT 2301) and Ready-Mixed Concrete (MnDOT 2461)
1	ticketId	Ticket Identification	5126349, 101R, 539-19	String (up to 20 characters)	None	Yes	Yes	Yes
2	contractId	Contract Identification	180181, R-37463	String (up to 20 characters)	None	Yes	Yes	Yes
3	projectId	Agency Project Identification	SP1234-56, SAP047-609-012	String (up to 20 characters)	None	Yes	Yes	Yes
4	contractorName	Contractor Name	Al Fresco Contracting	String (up to 256 characters)	None	Yes	Yes	Yes
5	sourceId	Source Identification	BP001, RMX001, GS79103 (e.g., pit / plant identification)	String (up to 20 characters)	None	Yes	Yes	Yes
6	scaleId *	Scale Identification	2, A2	String (up to 20 characters)	None	Yes	Yes	No
7	siloId *	Silo Identification	5, A3	String (up to 20 characters)	None	No	Yes	No
8	sourceOperatorName	Source Operator Name	Adam Zapel (e.g., weighmaster)	String (up to 256 characters)	None	Yes	Optional	Optional
9	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)
10	sourceNote	Source Notes	First Load, Last Load, Warnings	String (up to 3999 characters)	None	Optional	Optional	Optional
11	mixDesignId	Mix Design Identification	02-2020-184, RMX135-030, (e.g., mix design report number)	String (up to 40 characters)	None	No	Yes	Yes
12	materialCode	Material Code	SPWEA340C, DMF #1932480001, SMI3F52, Class 5,	String (up to 20 characters)	None	Yes	Yes	Yes

Ref Field No.	JSON Field` Name	Long Description	Examples	Data Type	Unit Category	Data Field Required for: Aggregate (MnDOT 2118)	Data Field Required for: Asphalt Paving (MnDOT 2353, 2360, 2363, 2365)	Data Field Required for: Concrete Paving (MnDOT 2301) and Ready-Mixed Concrete (MnDOT 2461)
			(e.g., material description, classification)					
13	itemId ‖ §§	Pay Item Identification	2231509/00010	String (up to 20 characters)	None	Yes	Yes	Yes – Paving Only
14	loadNumber †	Load Number	75	Number	None	Yes	Yes	Yes
15	truckId ‡	Truck Identification	51.6046, 88tb, T-1, T1	String (up to 20 characters)	None	Yes	Yes	Yes
16	trailerId ‡	Trailer Identification	51.6046, 88tb, T-1, T1	String (up to 20 characters)	None	Yes	Yes	Yes
17	voidedTicket	Voided Ticket	See Table SP2061-2 (E-Ticketing)	String (up to 10 characters)	None	Yes	Yes	Yes
18	loadDateTime # §	Loading Date and Time	2007-04-05T12:30:45-02:00	String (up to 40 characters)	Time	Yes	Yes	Yes
19	grossWt **	Gross Weight	44.33	Number	Mass	Yes	Yes	No
20	netWt **	Net Weight	26.83	Number	Mass	Yes	Yes	No
21	truckTareWt ** ‖ ‖	Truck Tare Weight	17.5	Number	Mass	Yes	Yes	No
22	overweightWt ** ††	Overweight Weight	0.33	Number	Mass	Yes	Yes	Yes
23	dailyRunningTotalByMatlCodeQty ** ††	Daily Running Total By Material Code Quantity	1900.64, 11	Number	Mass or Volume	Yes	Yes	Yes
24	contractTotalByMatlCodeQty ** ††	Contract Total by Material Code Quantity	2400.45, 22	Number	Mass or Volume	Yes	Yes	Yes
25	batchedQty **	Batched Quantity	11	Number	Mass or Volume	No	No	Yes
26	ingredientCode ‡‡	Ingredient Code	See Table SP2061-4 (E-Ticketing)	String (up to 30 characters)	None	No	No	Yes

Ref Field No.	JSON Field` Name	Long Description	Examples	Data Type	Unit Category	Data Field Required for: Aggregate (MnDOT 2118)	Data Field Required for: Asphalt Paving (MnDOT 2353, 2360, 2363, 2365)	Data Field Required for: Concrete Paving (MnDOT 2301) and Ready-Mixed Concrete (MnDOT 2461)
27	ingredientSourceName ‡‡	Ingredient Source Name	See Table SP2061-8 (E-Ticketing) for Ingredient Source Names for Water. Temper, Riverstone Cordova Concrete Sand, Master Builders MasterPolyheed 1020, GCP Applied Technologies Daravair 1000	String (up to 50 characters)	None	No	No	Yes
28	targetBatchIngredientQty ** ‡‡	Target Batch Ingredient Quantity	2685, 9, 24.5	Number	Varies	No	No	Yes
29	actualBatchedIngredientQty ** ‡‡	Actual Batched Ingredient Quantity	2685, 9, 24.6	Number	Varies	No	No	Yes
30	batchedQtyVarience ‡‡	Batched Quantity Variance	-2.11, -0.37, 0.5, 1.34	Number	Percent	No	No	Yes
31	aggregateAbsorptionPercent	Aggregate Absorption Percent	1.2	Number	Percent	No	No	Yes
32	totalAggregateMoisturePercent	Total Aggregate Moisture Percent	3.3	Number	Percent	No	No	Yes
33	waterAddedSourceQty **	Water Added at Source Quantity	3	Number	Mass or Volume	No	No	Yes
34	waterAvailableAddQty **	Water Available to Add Quantity	34.992	Number	Volume	No	No	Yes
35	waterToCementitiousRatioAfterWaterAddedAtSource	Water to Cementitious Ratio after Water Added at Source	0.38	Number	None	No	No	Yes

Ref Field No.	JSON Field` Name	Long Description	Examples	Data Type	Unit Category	Data Field Required for: Aggregate (MnDOT 2118)	Data Field Required for: Asphalt Paving (MnDOT 2353, 2360, 2363, 2365)	Data Field Required for: Concrete Paving (MnDOT 2301) and Ready-Mixed Concrete (MnDOT 2461)
36	maximumDesignWaterToCementitiousRatio	Maximum Design Water to Cementitious Ratio	0.45	Number	None	No	No	Yes
37	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)
38	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)	(Blank)
39	qualityControlSignature ## §§	Quality Control Signature	Dan D. Lyon	String (up to 256 characters)	None	No	No	Yes – Ready-Mixed Only
40	qualityControlId ## §§	Quality Control Identification	Dan D. Lyon	String (up to 256 characters)	None	No	No	Yes
41	qualityControlTechnicalCertificationId ## §§	Quality Control Technical Certification Identification	12345SX	String (up to 20 characters)	None	No	No	Yes

* Scale and silo identifications are only required when source provides material using multiple scales and silos.

‖ Data field is provided by either the source's loadout software, or Contractor's MDMS for paving applications. Not all loadout software will allow population of pay item identification associated with the given material code. This data field is provided by Veta for aggregate and ready-mixed concrete (that is not used for paving) applications.

† Load numbers are generated in sequential order and not shared sequences with other projects.

‡ Truck/trailer ID visible on outside of truck/trailer and is clearly identifiable as it pertains to the information on the E-Ticket.

Includes UTC offset. Use the following format: YYYY-MM-DDThh:mm:ss±hh:mm.

§ For concrete applications, the loading date and time reflects the batch time when water is added to the cementitious materials for concrete applications.

** See Table SP2061-3 (E-Ticketing) for lookup table for units of measurement. Include unit of measurement in JSON data interchange language (see 0B(8)(d)).

‖ ‖ Required when a load cell is not used on hoppers beneath a surge or storage bin.

†† Data field is calculated by either source's loadout software, or Contractor's MDMS. This information is not provided in a digitalized format by some source loadout software.

‡‡ Can be up to 14 ingredient codes and associated ingredient source names, target batch ingredient quantities, actual batched ingredient quantities, and batch quantity percent variances. Push fields as an array in JSON coding.

Contractor's MDMS will have a unique log-in and password associated with each quality control personnel.

§§ Provide data when data field is available in MDMS.

Table SP2061-2 (E-Ticketing)
Lookup Table for Voided Tickets *

Description
Voided – Material not loaded for delivery to project – source ticket identification voided.
Valid – Material loaded for delivery to project.
Orphan – Source ticket identification generated, but does not have associated material loaded for delivery to project.
* Data block value is provided by database as an identifier.

Table SP2061-3 (E-Ticketing)
Lookup Table for Units of Measurement *

Unit Category	Description
Volume	Cubic Meter
Volume	Cubic Yard
Volume	Gallons
Mass	Kilogram
Mass per Volume	Kilograms per Cubic Meter
Mass	Metric Tons
Length	Millimeters
Length per Mass	Millimeter per Kilogram
Volume	Ounces
Volume per Volume	Ounces per Cubic yard
Volume per Mass	Ounces per 100 Pound Cementitious
Mass	Pounds
Mass per Volume	Pounds per Cubic Yard
Area	Square Yard
Area per Length	Square Yard per Inch
Mass	US Tons
* Data block value is provided by database as an identifier.	

Table SP2061-4 (E-Ticketing)
Lookup Table for Ingredient Code

Description	Data Block Value
Additive / Admixture	See Table SP2061-5 (E-Ticketing)
Aggregate	See Table SP2061-6 (E-Ticketing)
Cementitious	See Table SP2061-7 (E-Ticketing)
Water	Water *
* Data block value is provided by database as an identifier.	

Table SP2061-5 (E-Ticketing)
Lookup Table for Ingredient Code for Additives and Admixtures *

Description
Air Entraining Admixtures
Calcium Chloride
Color
Fibers
Glass
Ground Tire Rubber
Lime
Liquid Anti-Stripping
Plastic

Description
Recycling Agent
Recycled Asphalt Shingle
Type A—Water Reducing Admixtures †
Type B—Retarding Admixtures †
Type C—Accelerating Admixtures †
Type D—Water-Reducing and Retarding Admixtures †
Type E—Water-Reducing and Accelerating Admixtures †
Type F—Water-Reducing, High Range Admixtures †
Type G—Water-Reducing, High Range, and Retarding Admixtures †
Type S—Specific Performance Admixtures †
Warm Mix Additive
* Data block value is provided by database as an identifier. ‖ AASHTO M154 Standard Specification for Air-Entraining Admixtures for Concrete † See ASTM C 494 Standard Specification for Chemical Admixtures for Concrete

Table SP2061-6 (E-Ticketing)
Lookup Table for Ingredient Code for Aggregate *

Description
Coarse Aggregate
Fine Aggregate
Intermediate Aggregate
Recycled Asphalt Pavement
Recycled Concrete Aggregate
* Data block value is provided by database as an identifier.

Table SP2061-7 (E-Ticketing)
Lookup Table for Ingredient Code for Cementitious *

Description
Asphalt Cement
Fly Ash
Metakaolin
Natural Pozzolan
Portland Cement
Silica Fume
Slag
* Data block value is provided by database as an identifier.

Table SP2061-8 (E-Ticketing)
Lookup Table for Ingredient Source Names for Water *

Description
Clarified Water
Cold Water
Hot Water
Reclaimed Water
Temper Water
Wash Out Water
* Data block value is provided by database as an identifier.

Table SP2061-9 (E-Ticketing)
Required Fields in Contractor's MDMS for Source Identification Data

JSON Field Name	Long Description	Examples	Data Type
sourceId	Source Identification	BP001, RMX001, GS79103 (e.g., pit, plant identification)	String (up to 20 characters)
sourceName	Source Name	John Asphalt, John Asphalt 3 Burnsville, John Plant 7 (e.g., long description of plant name)	String (up to 256 characters)
portable	Portable Plant	See Table SP2061-10 (E-Ticketing) for lookup table for portable plant	String (up to 5 characters)
sourceAddress	Source Address	12345 Marvel Street NW, MN 56738	String (up to 3999 characters)
sourcePhoneNumber	Source Phone Number	777-777-7777	String (up to 20 characters)
Latitude *	Latitude	45.072644	Number
Longitude *	Longitude	-93.868772	Number
spatialReferenceAuthority *	Spatial Reference Authority	EPSG	String (up to 20 characters)
spatialReferenceId *	Spatial Reference Identification	4326	Number
* Provide data when data field is available in MDMS.			

Table SP2061-10 (E-Ticketing)
Lookup Table for Portable Plant *

Portable Plant Description
Yes – Material is from a portable plant
No – Material is not from a portable plant (i.e., material is from a permanent plant)
* Data block value is provided by database as an identifier.

Table SP2061-11 (E-Ticketing)
Required Hauler Data Fields in Contractor's MDMS for each Data Block

Reference Field No.	JSON Field Name	Long Description	Examples	Data Type	Unit Category	Data Field Required for: Aggregate (MnDOT 2118), Asphalt Paving (MnDOT 2353, 2360, 2363, 2365), and Concrete Paving (MnDOT 2301)	Data Field Required for: Ready-Mixed Concrete (MnDOT 2461)
300	ticketId	Ticket Identification	5126349, 101R, 539-19	String (up to 20 characters)	None	Yes	No
301	sourceId	Source Identification	BP001, RMX001, GS79103 (e.g., pit, plant identification)	String (up to 20 characters)	None	Yes	No
302	loadDateTime *	Loading Date and Time	2007-04-05T12:30:45-02:00	String (up to 40 characters)	Time	Yes	No
303	haulerCompanyName #	Hauler Company Name	Don Key Contracting	String (up to 256 characters)	None	Yes	No
304	brokerName ‖ #	Broker Name	Max E Mumm	String (up to 256 characters)	None	Yes	No
305	truckDotNumber #	Truck DOT Number	US DOT 33136	String (up to 20 characters)	None	Yes	No
306	truckId †	Truck Identification	51.6046, 88tb, T-1, T1	String (up to 256 characters)	None	Yes	No
307	truckDriverClass ‡ #	Truck Driver Classification	See Table SP2061-12 (E-Ticketing)	Number	None	Yes	No
308	overweightPermitNumber #	Overweight Permit Number	033I9021331	String (up to 20 characters)	None	Yes	No
309	maximumGrossWt	Maximum Gross Weight	44	Number	Mass	Yes	No
310	driverName ‖ #	Driver Name	Stan Dupp	String (up to 256 characters)	None	Yes	No

Reference Field No.	JSON Field Name	Long Description	Examples	Data Type	Unit Category	Data Field Required for: Aggregate (MnDOT 2118), Asphalt Paving (MnDOT 2353, 2360, 2363, 2365), and Concrete Paving (MnDOT 2301)	Data Field Required for: Ready-Mixed Concrete (MnDOT 2461)

* Includes UTC offset. Use the following format: YYYY-MM-DDThh:mm:ss±hh:mm.
‖ Data field required only for MTO / ITO.
† Truck Identification must match that used with source data in E-Ticket.
‡ Tie truck driver classification to truck identification.
# Provide data when data field is available in MDMS.

Table SP2061-12 (E-Ticketing)
Lookup Table for Truck Driver Classification *

Format
Tractor Trailer Driver
Four or More Axle Unit, Straight Body Truck
Three Axle Units
Two Axle Unit
* Data block value is provided by database as an identifier.

Table SP2061-13 (E-ticketing)
Required Loading and Delivery Event Data Fields in Contractor's MDMS for each Data Block *

Reference Field No.	JSON Field Name	Long Description	Examples	Data Type	Unit Category
400	ticketId	Ticket Identification	5126349, 101R, 539-19	String (up to 20 characters)	None
401	sourceId	Source Identification	BP001, RMX001, GS79103 (e.g., pit/plant identification)	String (up to 20 characters)	None
402	loadDateTime ‖	Loading Date and Time	2007-04-05T12:30:45-02:00	String (up to 40 characters)	Time
403	geofenceId † ‡	Geofence Identification	See Table SP2061-14 (E-Ticketing)	String (up to 100 characters)	None
404	geofenceType §	Geofence Type	See Table SP2061-15 (E-Ticketing)	String (up to 10 characters)	None

Reference Field No.	JSON Field Name	Long Description	Examples	Data Type	Unit Category
405	eventDateTime ‖	Event Date and Time	2007-04-05T12:30:54-02:00	String (up to 40 characters)	Time
406	eventType	Event Type	See Table SP2061-16 (E-Ticketing)	String (up to 20 characters)	None
407	latitude ‡	Latitude	45.072644	Number	None
408	longitude ‡	Longitude	-93.868772	Number	None
409	spatiaReferenceAuthority ‡ §	Spatial Reference Authority	EPSG	String (up to 20 characters)	None
410	spatialReferenceId ‡ §	Spatial Reference Identification	4326	Number	None
411	timeSpan # §	Time Span	00:05:00	String (up to 10 characters)	Time
412	machineId §	Machine Identification	SX43201J, Mainline Paver	String (up to 256 characters)	None

***** See Table SP2061-17 (E-Ticketing) to determine which material types require loading and delivery event data fields.
‖ Includes UTC offset. Use the following format: YYYY-MM-DDThh:mm:ss±hh:mm.
† Veta records the dump geofence identification per standardized requirements of Table SP2061-14 (E-Ticketing) using project-category geofences provided by Veta, and dump latitude and longitude provided by Contractor's MDMS.
‡ Only required for "Event Type" = "Dump"
# Use the following format: HH:MM:SS.
§ Provide data when data field is available in MDMS.

Table SP2061-14 (E-Ticketing)
Standardized Naming Convention for Geofence Identification

Geofence	Geofence Identification (Standardized Naming Convention)	Example(s)	Geofence Identification Recorded By: Contractor's MDMS	Geofence Identification Recorded By: Veta *
Source	SourceID_CountyName	BP001_StLouis	Yes	No
Contract	ContractID_ProjectNumber_County_RouteName ‖	CN200078_SP6901-29_StLouis_TH1, CN200078_SP3101-37_Itasca_TH1, CN200078_SP6931-01_StLouis_TH73	Yes	No

Geofence	Geofence Identification (Standardized Naming Convention)	Example(s)	Geofence Identification Recorded By: Contractor's MDMS	Geofence Identification Recorded By: Veta *
Project-Category	ProjectNumber_CountyName_Category	SP3101-37_Itasca_CAT0001, SP6901-29_StLouis_CAT0001, SP6931-01_StLouis_CAT0001, SP6931-01_StLouis_CAT0002	No	Yes

* Geofence identification is record by Veta using dump latitude and longitude recorded by Contractor's MDMS.

‖ Split the contract geofence into smaller subsections for larger contracts to assist with more accurate flow rate calculations and/or with uniform truck counts. Add an acronym to the standardized geofence naming convention by adding an underscore followed by a distinguishing acronym.

Table SP2061-15 (E-Ticketing)
Lookup Table for Geofence Type *

Description	Geofence Identification Recorded By: Contractor's MDMS	Geofence Identification Recorded By: Veta ‖
Contract – Limits of jobsite.	Yes	No
Project-Category – Location where material is delivered (dumped/discharged).	No	Yes
Source – Location where material is loaded.	Yes	No
Transit – Transit between source and contract geofences.	Yes	No

* Data block value is provided by database as an identifier.

‖ Geofence type is record by Veta using dump latitude and longitude recorded by Contractor's MDMS.

Table SP2061-16 (E-Ticketing)
Lookup Table for Loading and Delivery Event Type *

Description	Event Type Required for: Aggregate (MnDOT 2118)	Event Type Required for: Asphalt Paving (MnDOT 2353, 2360, 2363, 2365)	Event Type Required for: Concrete Paving (MnDOT 2301)	Event Type Required for: Ready-Mixed Concrete (MnDOT 2461)
Duration of time at contract **	Yes	Yes	Yes	No
Duration of time at source **	Yes	Yes	Yes	No
Duration of time in transit from contract to source **	Yes	Yes	Yes	No
Duration of time in transit from source to contract **	Yes	Yes	Yes	No
Duration of time in truck ‖ † **	No	No	Yes	Yes
Material is dumped (delivered/discharged) ‡	Varies #	Yes §	Yes §	Varies #
Time at end of dump (final discharge) † **	No	No	Yes	Yes
Time at start of dump (discharge) † **	No	No	Yes	Yes
Time when truck enters source or contract geofence **	Yes	Yes	Yes	No
Time when truck exits source or contract geofence **	Yes	Yes	Yes	No

* Data block value is provided by database as an identifier.
‖ "Duration of time in truck" equals the duration of time between the time at end of dump and the loading time (TimeInTruck = TimeAtDumpEnd - LoadDateTime)
† Ready-mixed concrete supplier will send TimeAtDumpStart, TimeAtDumpEnd, and TimeInTruck to Contractor's MDMS.
‡ End of dump is considered the dump event for ready-mixed concrete applications as determined by drum rotation sensors.
\# Optional, or manually recorded using Veta.
§ Dump event data is automatically recorded.
** Provide data when data field is available in MDMS.

Table SP2061-17 (E-Ticketing)
Required MDMS Data Collection

Data Type	Items	Required for: Aggregate (MnDOT 2118)	Required for: Asphalt Paving (MnDOT 2353, 2360, 2363, 2365)	Required for: Concrete Paving (MnDOT 2301)	Required for: Ready-Mixed Concrete (MnDOT 2461) *
Hauler	Data fields per Table SP2061-11 (E-Ticketing).	Yes	Yes	Yes	No
Loading and Delivery Events	Breadcrumb trail per 0.B(5).	Yes	Yes	Yes	No

Data Type	Items	Required for: Aggregate (MnDOT 2118)	Required for: Asphalt Paving (MnDOT 2353, 2360, 2363, 2365)	Required for: Concrete Paving (MnDOT 2301)	Required for: Ready-Mixed Concrete (MnDOT 2461) *
Loading and Delivery Events ‖	Data fields per Table SP2061-13 (E-Ticketing).	See Table SP2061-16 (E-Ticketing)	See Table SP2061-16 (E-Ticketing)	See Table SP2061-16 (E-Ticketing)	See Table SP2061-16 (E-Ticketing)
Source	E-Tickets per Table SP2061-1 (E-Ticketing).	Yes	Yes	Yes	Yes

* Applications include all ready-mixed concrete applications (e.g., curb and gutter, sidewalk, bridge decks, piles, footings, median, etc.), except for concrete paving. See concrete paving for requirements when ready-mixed concrete is used during paving operation for ready-mixed concrete quantities are greater than or equal to 3500 cy.

‖ Loading and delivery event data will require establishment of static geofences per sections 0.B(6) and ability to trigger dump event per 0.B(7).

C Preconstruction Activities

(1) Source Identification Data
Enter source identification data per Table SP2061-9 (E-Ticketing) into Contractor's MDMS, along with other needed startup information.

(2) Internet (or Satellite) Connectivity
Set up internet (or satellite) connectivity at all sources used to provide material to contract.

(3) Geofences
Contractor will set up the following geofences in Contractor's MDMS:
(a) Source Geofence(s) – Set up source geofence to include road (and/or area) outside of source limits where trucks que before entering source for loading.
(b) Contract Geofence(s)
Contractor will name geofences using standardized naming convention per Table SP2061-14 (E-Ticketing).

(4) Dump Event
Set up trigger for recording dump time and location.

(5) Training
Provide training to Engineer no later than 7 calendar days prior to start of work requiring MDMS. Training will include instruction and viewing of a minimum of the following:
(a) Contractor's MDMS web- and/or application- based platforms.
(b) Geofence boundaries and naming conventions used for contract and source.
(c) Data fields included in Contractor's MDMS data collection and export.
(d) Real-time viewing of items listed in 0B(11).
(e) Playback of breadcrumb trails.
(f) Example export of Contractor's MDMS data per 0B(10).

D MDMS Data
Provide Engineer access to Contractor's MDMS prior to start of delivery of material and until 90 days after final acceptance of all work.
Collect all data associated with equipment and software requirements per this special provision.

By noon the following day of bituminous paving, the Contractor shall provide the Engineer with a digital copy of the previous day's bituminous tickets.

E System Failure
Notify Engineer when system failure occurs and immediately after resolution of issues. Provide Engineer with resolution to the issues and an acceptable time frame for completing the resolution prior to resuming next day's paving operation.
Source will revert to other means approved by the Engineer, for sharing source data during system failures.

F Documentation
Engineer will use paper weight ticket(s) for MnDOT 2360.5 Basis of Payment and for requirements of the Schedule of Materials Control.

METHOD OF MEASUREMENT
No direct measurement will be made for Material Delivery Management System – E-Ticketing

BASIS OF PAYMENT
Interruptions in availability of data cellular coverage and/or satellite signals used with this system will not result in adjustments to the "Basis of Payment" for any construction items or to Contract time.

(2061) Material Delivery Management System – E-Ticketing includes data entry of project information, setup of appropriate MDMS components, system setup to push source data into MDMS, internet or satellite connectivity at permanent and portable sources, setup of geofences, system monitoring, assigning

and distribution of truck asset trackers, monitoring of yields rates recorded by MDMS, remote server storage, cloud-based software accessibility and data package plans.

Any costs for Material Delivery Management System – E-Ticketing will be considered incidental to 2360 (Plant Mixed Asphalt Pavement) and no direct compensation will be made therefore.

S-36 (2104) REMOVING PAVEMENT AND MISCELLANEOUS STRUCTURES

The removal of existing bituminous pavement by full depth reclamation shall be performed in accordance with the provisions of 2104, except as modified below:

Full depth reclamation material may be used as Aggregate Base, Class 5 or Aggregate Surfacing Class 1 if it meets MnDOT Specifications. Any removed bituminous not reused or recycled on the project shall become the property of the Contractor.

DISPOSAL WITHIN RIGHT-OF-WAY

No materials or debris shall be disposed of within the right-of way.

S-37 (2104) REMOVE AGGREGATE

This work shall consist of removing reclaimed material to the planned specified thickness.

This work includes all material, labor, and equipment to remove excess reclaimed bituminous pavement. Any excess reclaimed material shall become the property of the Contractor.

Compensation for removal of aggregate will be paid for on the basis of in-place volume

S-38 (2106) DISPOSAL OF WASTE AND/OR SURPLUS EXCAVATION

There may be waste and/or surplus excavation on this project.

The Contractor shall be responsible for securing a waste disposal area and obtain any permits required for the waste disposal site.

Any costs for the disposal of waste and/or surplus excavation, including permits, seeding and restoration will be considered incidental work, and no direct compensation will be made therefore.

S-39 (2108) GEOSYNTHETIC CONSTRUCTION MATERIALS REVISED 06/28/24

Delete and replace note (5) in MnDOT 2108.1 with the following:

(5) Provide confinement of granular materials.

Delete and replace MnDOT 2108.3B with the following:

B Geotextile

If multiple pieces of geotextile are required, overlap geotextiles a minimum of 36-inches. In lieu of overlapping, the Contractor may sew the geotextile provided there is a passing Departmental Quality Assurance sewing test prior to installation.

Use a "double spool" machine capable of sewing a Federal Type 401 locking stitch per *ASTM D6193-16, Standard Practice for Stitches and Seams*. Sew a flat, "J," or butterfly seam per *ASTM D6193-16, Standard Practice for Stitches and Seams,* using thread with a minimum strength of 25 pounds, with 1-2 rows of stitching and 5-7 stitches per inch. Meet the required seam strength for the specified geotextile type. Install the geotextile, using the same geotextile, seamstress, thread, and sewing machine as used for the test.

The Contractor may use adhesives listed on the "Geosynthetic products/Adhesive seams" APL in lieu of overlapping or sewing for Types 3, 4, and 5 geotextiles. Apply adhesive per the Adhesive Seams Guidelines found on the "Geosynthetic products/Adhesive seams" APL.

Delete and replace MnDOT 2108.5 with the following:

The Contract Unit Price for Geosynthetic Construction Materials is compensation in full for Equipment, Materials, and labor required to complete the Work and includes the cost of providing, placing, overlapping, or sewing or gluing, testing, anchoring, and any needed repairs.

The Department will pay for Geosynthetic Construction Material based on the following schedule:

Item No.	Item	Unit
2108.504	Geotextile Fabric Type *	square yard
2108.504	Geogrid Type ‖	square yard

Notes:
* Specify Type: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, or 13.
‖ Specify Type: 1 or 2

S-40 (2112) SHOULDER PREPARATION

DESCRIPTION
This work consists of removing vegetation and topsoil from shoulders of the existing road surface. This to include all equipment, materials and personnel to complete said work.

MATERIALS – N/A

CONSTRUCTION REQUIREMENTS
Contactor to remove existing vegetation and topsoil from the road shoulders prior to reclamation activities starting. Contractor shall take all precautions necessary not to remove existing shoulder aggregate.

BASIS OF PAYMENT
All work to prepare the shoulder prior to reclamation shall be considered incidental to the project and no direct compensation will be made.

S-41 (2211) AGGREGATE BASE
Aggregate base courses shall be constructed in accordance with the provisions of Mn/DOT 2211 except as modified below:

Compaction shall be achieved by the "Quality Compaction Method" described in Mn/DOT 2211.3D.

Water used at the direction of the Engineer in conjunction with compaction operations will be considered incidental work and no direct compensation will be made therefore.

The equipment used in shaping the Aggregate Base shall be equipped with operational Laserplane automatic grade and cross-slope controls or an approved equal. The automatic controls and their use will be considered incidental, and no direct compensation will be made therefore.

The County may choose to increase the rate of sampling/testing at the discretion of the Engineer.

S-42 (2215) RECLAMATION
Reclamation shall be constructed in accordance with the provisions of MnDOT 2215 except as modified below:

Delete and replace MnDOT 2215.2B.2 with the following:

B.2 Portland Cement or Blended Hydraulic Cement ..... 3101 or 3103

Delete and replace the second paragraph of MnDOT 2215.3F.4 with the following:

Stabilize when: the atmospheric temperature is 50°F and rising when using emulsions or foamed bituminous, or 40°F and rising when using cement only; it is not foggy or rainy; and freezing temperatures are not predicted within 48 hours after placement of SFDR. Atmospheric temperature and predicted weather requirements are determined by the Engineer.

Initial full depth reclamation operation to remove existing bituminous pavement and mix with existing aggregate base shall be considered incidental to stabilized full depth reclamation, and no direct payment will be paid to the Contractor for said work.

S-43 (2215) STABILIZED RECLAMATION USING BASE ONE 2/26/2020

Replace 2215 with the following:

2215.1 DESCRIPTION

Construct a stabilized full depth reclamation (SDFR) layer by:

Pulverizing and blending the in-place bituminous pavement with a portion of the underlying aggregate, mixing it with BASE ONE®, and additional material if required in the Contract, spreading, watering, shaping, compacting, and maintaining to the specified profile and cross section.

The process is performed in two steps: an initial pulverization and compaction, and a final pulverization, injection/mixing of the pulverized material with BASE ONE®, shaping, and compaction to producing a uniform product.

A Definitions

A.1 Pulverized (un-stabilized) Material

Pulverized Material is produced by grinding the bituminous pavement with a portion of the underlying granular material.

A.2 Liquid Stabilized Material

Liquid Stabilized Material is pulverized material that has a liquid stabilizing agent added to it. It may include additional stabilizing materials such as add rock.

2215.2 MATERIALS

A Gradation
Meet the following graduation requirements:

Unstabilized Portion: 3” Sieve Size = 100% passing

2” Sieve Size = 90 – 100% passing

B Liquid Stabilizing Agent

BASE ONE®, a liquid based stabilization product produced by Team Laboratory Chemical Corporation, Detroit Lakes that is diluted with water.

C Additional Aggregates

Provide additional aggregate, as required in the Contract.

D Water

Provide mixing water that meets 3906, “Water for Concrete and Mortar” at a rate meeting the optimum moisture content as determined by the required QC moisture test.

E Design Requirements

Inject BASE ONE® at a rate of 0.005 gallons per square yard per inch of stabilized reclamation depth. Dilute BASE ONE® with water to bring the reclaimed material to the required moisture content for compaction.

Pulverize to the plan depth for both the initial and final depths as listed in the Contract.

2215.3 CONSTRUCTION REQUIREMENTS

A General

All forms and the Grading and Base Manual are available on the Grading and Base Website. Unless otherwise designated all test procedures are in the Grading and Base Manual.

Repair structures damaged by Contractor operations or negligence.

Correct and re-test all failing areas.

Any failure to meet a requirement creates a Hold Point, whereby no additional material may be placed until Corrective action and passing retest(s) have occurred, or accepted by the Engineer. All additional material placed before corrective action and passing retest(s) occur constitutes Unauthorized Work per 1512.2.

Place geotextiles, if required in the contract or if directed by the Engineer, comply with the requirements of 2105, "Excavation and Embankment".

Remove all vegetation and topsoil adjacent to the surface prior to the start of pulverization.

Provide water in order to obtain maximum density.

Stabilize when:

1. The atmospheric temperature is above 40 degrees F and rising.
2. It is not foggy or rainy
3. Freezing temperatures are not predicted within 48 hours after injection of BASE ONE®. Atmospheric temperature and predicted weather requirements are determined by the Engineer.

A.1 Contractor Quality Control (QC) Testing

1. Submit test results to the Engineer within one business day of sampling.
2. Submit to the Engineer the following items:
   a. A preliminary Grading and Base Report (G&B-001) (required before work commences),
   b. A final Grading and Base Report (G&B-001) (required within two weeks of completion of project), and
   c. A weekly summary report of tests completed and retests of failing materials (G&B-003) (required the first working day of the following week).
3. Correct and retest all failing areas, which fail either Quality Control or Quality Assurance Testing.

Perform the following requirements for QC testing, in lieu of the requirements in the Schedule of Materials Control and submit all required forms:

   a. Depth Check during pulverization and at second reclamation pass with placement of BASE ONE® at a rate of one test per 1,000 feet of reclaimer width. Use Form G&B-401.
   b. DCP compaction testing of unstabilized material at a rate of one test per ½ lane mile.
   c. Yield Check of BASE ONE® – One per transport. Yield check must be within 1% of design. Use Form G&B-403.
   d. Compaction – Control Strip – Minimum one per project
   e. Compaction Testing – Nuclear Density Gauge – 1/500 feet of lane width. Use Form G&B-405.
   f. Proctor test of material to be stabilized – at a rate of at least one per project.
   g. Moisture test of the material to be stabilized at a rate of one per lane mile.

h. A report showing the following: beginning and ending stationing of each BASE ONE® tote, dilution rate to meet optimum moisture, and the amount of water added.

A.2 Agency Quality Assurance (QA)

Perform the following requirements for QA testing, in lieu of the requirements in the Schedule of Materials Control.

Perform the following Contractor QA tests and submit all required forms.

a. Gradation: Test at Engineer's Discretion. Form G&B-101.
b. Moisture Content Test During Compaction – 1/10,000 yd^2. Form G&B-105.
c. Depth Check during initial pulverization and at time of placement of BASE ONE® – 1/Day. Form G&B- 401.
d. Yield Check of BASE ONE® – One per day. Yield check must be within 1% of design.
e. Compaction – Control Strip – Observe Contractor.
f. Compaction Testing – Nuclear Density Gauge – Observe Contractor.

B Equipment

B.1 Reclaiming Machine

Use a self-propelled reclaiming machine with the ability to:

1. Uniformly pulverize the pavement and the underlying layer to the specified depth and gradation requirements.
2. Thoroughly mix the reclaimed pavement while injecting the liquid stabilizing additive and automatically metering it with a variation of not more than +/- 0.2 percent by weight of the BASE ONE®.
3. Automatically control cross-slope and control cutting depth to within +/- ½ inch of the depth shown in the plans.
4. Maintain the designed content of overlapped mixtures by adjusting the application of liquid stabilizing mixture for the width of pulverized layer. Automatically maintain the designed application rate regardless of machine speed, depth of cut, and number of operating nozzles. Provide means for automatically cleaning nozzles and continual observation and measurement by the operator.
5. The injection system shall accurately and uniformly add the specified percent of water/BASE ONE® mixture to the reclaimed material.

B.2 Rollers

B.2.a Pneumatic Tired Roller

Compact with pneumatic tired roller that meets the requirements of 2360.3.B.2.e(2) and having a minimum weight of 25 tons**.**

B.2.b Pad Foot Vibratory Roller

Compact with a pad foot roller weighing at least 12.5 ton.

B.2.c Steel-Wheeled Roller

Compact with steel-wheeled vibratory rollers equipped with a water spray system meeting the requirements of 2360.3.B.2.e(1).

B.3 Motor Grader

Use a self-propelled motor grader with a minimum 12 foot wide blade.

C Pulverization

Pulverize (grind) and uniformly blend the in-place bituminous pavement with the underlying granular base to the depth specified in the plans and to the gradation requirements in 2215.2.A.

If required in the Contract, uniformly spread additional material across the roadway surface to be reclaimed before incorporating it into the reclaim mixture.

Correct reclaim sections that do not comply with the gradation requirements by re-pulverizing.

D Spreading and Compaction of the Unstabilized Material

Spread, shape and compact the pulverized material to the profile and cross-section shown in the plans.

Maintain the moisture content from 3 to 7 percent by dry weight during compaction.

Place and compact pulverized (unstabilized) materials in maximum 6 inch lifts.

Compact the initial pulverized layer to a maximum penetration index value of 10 mm as measured by the MnDOT standard Dynamic Cone Penetrometer (DCP) device.

Blend, add water, spread, compact and shape pulverized material by the end of each workday, and before any significant rainfall events occur.

E Mixing/Injecting

Produce the BASE ONE® stabilized layer by mixing and injecting the liquid stabilizing additive and water into the pulverized pavement.

Inject BASE ONE® at the rate of listed in 2215.2.E and dilute with water to bring the reclaimed material to the required moisture content for compaction. Re-pulverize to the depth listed in the Contract.

Use a minimum 6-inch overlap between passes of the reclaimer.

Demonstrate that the liquid stabilizing additive is uniformly blended. If the first mixing is not uniform, remix the stabilized layer until uniformity is achieved.

Obtain the Engineer's approval to apply the liquid stabilizing additive greater or less +/- 0.2 percent by weight compared to the manufacturer's recommendations.

Incorporate BASE ONE® into the material through the reclaimer by the injection process.

F.1 Compaction of the Stabilized Material

Complete the initial compaction directly behind the reclaimer with a pad foot vibratory roller. Compaction of the stabilized material shall be by the Quality Compaction Method.

F.2 Control Strip

Use a control strip to establish a rolling pattern for the stabilization phase. The control strip should represent a homogenous roadway section and have the following characteristics:

- Minimum area of 400 square yards
- Remain in-place and become a part of the completed work.

Use the following to establish a rolling pattern after initial breakdown is complete:

1. Randomly select three test points in the control strip and use a nuclear density device (ASTM D2950) to determine a wet density at each point after each finish (steel) roller pass.
2. Ensure that that the nuclear gauge rests on a flat surface. The density at each point is defined as the average of two readings offset 180 degrees.
3. Continue compacting until additional roller coverage does not produce appreciable increase in density. Provide documentation of the growth curve and maximum target density to the Engineer. Use this for QA/QC process.
4. Roll the remainder of that course in accordance with the pattern developed in the control strip for that roller**.**

Use this rolling pattern until a new control strip is performed.

Establish a new rolling pattern by performing a new control strip when there are changes in the mixture that cause the original control strip to no longer be representative; changes may include:

- In-place materials variation, including sections with varying thickness, construction history, etc.
- Changes in RAP gradation
- 97% of Target Density is not achieved on two consecutive QC or QA readings.

G Shaping and Compacting of the Stabilized Material

Remove any remaining pad foot marks and spread the material. Commence final grading and compaction while the stabilized material is still workable; use a motor grader and pneumatic tired roller. Adjust the reclaimer, roller, and motor grader production rates to match the capacity of other equipment used in the train. Place and compact the material to within ±0.05 feet of the profile and so that the cross section has no variations greater than ½ inch within 10 feet. Complete final grading and compaction completed by the end of each day's production.

H Workmanship, Quality, Repair and Maintenance

Maintain the compaction, quality, integrity, the profile and cross-section to within the criteria of 2215.3G and properties of the SFDR layer during the curing period until the placement of the next layer.

Place the next layer of material (HMA, seal coat, etc.):

(1) No sooner than three calendar days and no later than 10 calendar days after the application of Base One in each location (note that the 10 calendar day requirement may be extended with concurrence of the Engineer, if large rainfall events hinder the curing),
(2) When the surface does not deflect under construction equipment and meets quality compaction per 2106.3.G.2,
(3) When the surface is capable of meeting the required strength to place and compact the next layer, and the moisture content of the surface does not cause a failure to the next material placement, and
(4) When the moisture content of the surface is low enough to not migrate into and damage the new surface.

Traffic will be allowed to travel on the surface upon completion of compaction.

Immediately prior to placement of the next layer, clean the surface to remove loose aggregate.

Repair ruts, potholes, washboarding and other distortions.

Prior to paving, apply water for dust control, if directed by the Engineer.

2215.4 METHOD OF MEASUREMENT

The Engineer will measure the liquid Stabilized Full Depth Reclamation (SFDR) by the square yard.

Measure additional aggregates by the ton.

2215.5 BASIS OF PAYMENT

The contract unit price for the stabilized full depth reclamation by the square yard includes the cost of BASE ONE®, production; placement; shaping; blading; placement of additional rock; compaction; water for compaction, mixing, and dust control; repairing ruts, potholes, washboarding, and other distortions; cleaning the surface to remove loose aggregate; occasional variations in the bituminous pavement thickness; removing vegetation and topsoil adjacent to the surface; and adding the BASE ONE® chemical to the water to construct the stabilized material.

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

Item No.	Item	Unit
2215.504	Stabilized Full Depth Reclamation	Square Yard
2211.509	Aggregate Base, Class __	Ton

S-44 (2357) BITUMINOUS TACK COAT

Delete and replace section MnDOT 2357.2 with the following:

a. Bituminous Material……3151

The Bituminous Material for tack coat will be limited to one of the following kinds of emulsified asphalt. Use of medium cure cutback asphalt (MC-250) is allowed during the early and late construction season with it is anticipated the air temperature may drop below 32 degrees Fahrenheit.

Allowable grades are as follows:

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.

Table 2357.2-1
Residual Asphalt Content

	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

Cutback Asphalt

Medium Cure Liquid Asphalt MC-250

Use only sources listed on the *Approved/Qualified Products List* for "Asphalt Products."

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

Table 2357.3-1
Tack Coat Application Rates

	Application Rates – gallon/square yard			
Material Type	**CSS-1 or CSS-1h**	**CSS-1 or CSS-1h**	**CQS-1h**	**MC‖**
Surface Type	**Undiluted Emulsion**	**Diluted* Emulsion (7:3) , D30**	**Diluted* Emulsion (8.5:1.5), D15**	**Cutback**
New Asphalt	0.04 to 0.06	0.06 to 0.09	0.05 to 0.07	0.05 to 0.07
Old Asphalt† and PCC	0.05 to 0.09	0.07 to 0.135	0.08 to 0.10	0.09 to 0.11
Milled Asphalt and Milled PCC	0.06 to 0.09	0.09 to 0.135	0.09 to 0.11	0.09 to 0.11

Notes:
* As provided by the asphalt emulsion supplier (see 2357.2A, "Bituminous Material")
‖Use when approved by the Engineer
† Older than 1 year

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 may deduct up to 5 percent of the mixture Unit Price for failures related to 3151, "Bituminous Material".

Tack will not be placed until Mn/DOT Certified Flaggers are present for the associated paving operations.

S-45 (2360) PLANT MIXED ASPHALT PAVEMENT (LOCAL GOVERNMENT UNIT)
REVISED 06/30/22
Add the following to MnDOT 2360.1B:

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

Type SP 9.5 Wearing Course	SPWEA340C
Type SP 12.5 Wearing Course	SPWEB330C

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

A County representative shall be present at the pits for the sampling of aggregate material to be used for the development of the Mixture Design.

No Bituminous mixture shall be placed until the Engineer has reviewed and approved the trial mix recommendations.

The Contractor shall complete each lift of bituminous prior to starting the next lift.

No paving will be allowed when the air temperature is 32 degrees Fahrenheit or below.

All driveways, county highway, state highway, township roads and city streets connections will be paved once per lift. No cold joints will be allowed on the final lift at the above mentioned highways, roads and streets connections and at any turn lane, bypass lane or shoulder paving area.

The compaction method for bituminous mixtures on this Project are as follows:

Type SP 9.5 & 12.5 Wearing Course shall be compacted by the Maximum Density Method.

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

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

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

Delete MnDOT 2360.3.D.1.j and replace with the following:
The Department will select at least one of the two companion cores per lot to test for verification.

Delete and replace MnDOT 2360.3D.1.n with BLANK.

Delete and replace MnDOT 2360.3D.1.p with BLANK.

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

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

The Contractor must furnish a copy of all test results to the Engineer by noon of the day following production by email to the Engineer.

S-46 (2461) STRUCTURAL CONCRETE REVISED 12/20/24

Delete and replace the second sentence of MnDOT 2461.2E.1.e with the following:

Use "EX" for exposed Aggregate mixes, "CO" for colored concrete mixes, and "FRC" for fiber reinforced concrete mixes.

Delete and replace Table 2461.2-5 of MnDOT 2461.2E.2.a(2) with the following:

Table 2461.2-5
Concrete Mix Design Requirements for Grout and Lean Mix Backfill Mixes

Mix Number	Maximum W/C Ratio	Water Content (pounds)	Cement Content (pounds)	Fly Ash Content (pounds)	Fine Aggregate Calculation (pounds)	Coarse Aggregate Calculation (pounds)	Percent Air Content	Slump Range	Minimum 28-Calendar Day Compressive Strength, f'c
1A Grout*	0.50	379	758	0	100 percent †	0	3.0	As needed	4000 psi
3A Grout *	0.44	379	865	0	100 percent †	0	10.0	As needed	4000 psi
Lean Mix‖	1.00	375	125	250	50 percent†	50 percent† ǂ	N/A	10 inches ± 1 inch	#

* Do not provide 1A or 3A grout containing coarse Aggregate or fly ash.
‖ Coarse Aggregate quality meets requirements of 3137.2D.1, "Coarse Aggregate for General Use."
† After adding the specified quantities of cement, fly ash, and water, provide the remaining Aggregate to an absolute volume 27.00 – 27.27 cubic feet.
ǂ Meeting #67 gradation as shown in Table 3137.2-4.
\# Maximum 28-Calendar Day compressive strength of 1500 psi.

Delete and replace the first sentence of MnDOT 2461.2E.2 with the following:

Acceptance of concrete is contingent on meeting all specification requirements, including but not limited to requirements related to field placement and performance.

Delete and replace the second paragraph of 2461.2E.2.b with the following:

The Contractor assumes full responsibility for the concrete mix design and performance of the concrete, including meeting all specification requirements.

Delete and replace Table 2461.2-6 of MnDOT 2461.2E.2.b(1) with the following:

Table 2461.2-6
Concrete Mix Design Requirements (Not applicable to High-Performance Concrete or Mass Concrete)

Concrete Grade	Mix Number	Intended Use *	Maximum W/C Ratio ‖	Maximum Cementitious Content (pounds/ cubic yard)	Maximum percent SCM (Fly Ash/ Slag/Ternary)	Design Slump Range (inches)	Minimum 28-day Compressive Strength, f'c	3137, "Coarse Aggregate for Portland Cement Concrete."
B Bridge Substructure	3B52	Abutment, stems, wingwalls, paving brackets, pier columns, pier caps, pier struts	0.45	750	30/35/40	2 - 5	4000 psi	2D.1
F Flatwork	3F32	Curb and gutter	0.42	750	30/35/0	1/2 - 3 #	4500 psi	2D.1
	3F52 3F57EX † 3F52CO ‡	Sidewalk, curb and gutter, slope paving, median Sidewalk, driveway entrances, ADA pedestrian Sidewalk	0.45	750	25/30/0	2 – 5	4500 psi	2D.1
G General Concrete	1G52	Footings and pilecap	0.55	750	30/35/40	2 - 5	4500 psi	2D.1
	3G52	Footings, pilecap, walls, cast-in-place manholes and catch basins, fence posts, signal bases, Light Pole foundations, erosion control Structures, cast-in-place box culverts, Culvert headwalls, open flumes, cast-in-place wall stems	0.45	750	30/35/40	2 - 5	4500 psi	2D.1
M Median Barrier	3M12	Slipform barrier, Median barrier, non-bridge	0.42	750	30/35/40	1/2 - 1 #	4500 psi	2D.1
	3M52	Barrier, Median barrier, non-bridge	0.45	750	30/35/40	2 – 5	4500 psi	2D.1
P Piling	1P42	MSE and gravity wall leveling pad	0.63	750	30/35/40	2 – 4	3000 psi	2D.1
	1P62	Piling, spread footing leveling pad	0.63	750	30/35/40	3 – 6	3000 psi	2D.1
R Pavement Rehabilitation	3R52	CPR – Full-depth concrete repairs, concrete base	0.45	750	30/35/40	2 – 5	4000 psi	2D.3
S Bridge Superstructure	3S12	Slipform Bridge barrier, parapets, end post	0.42	750	30/35/40	1/2 - 1 #	4000 psi	2D.2
	3S52	Median barrier, raised median, pilaster, curb, Sidewalk, approach panel, formed Bridge barrier, parapet, end post, collar	0.45	750	30/35/40	2 - 5	4000 psi	2D.2
X Miscellaneous Bridge	1X62	Cofferdam seals, rock sockets, drilled shafts	0.45	750	30/35/40	3 – 6	5000 psi	2D.1
	3X62	Drilled shafts above the frost line	0.45	750	30/35/40	3 – 6	5000 psi	2D.1
Y Bridge Deck	3Y42-M § 3Y42-S §	Bridge decks, integral abutment diaphragms, pier continuity diaphragms, expansion joint replacement mix	0.45	750	30/35/40	2 - 4	4000 psi	2D.2
	3Y47 **	Deck patching mix	0.45	750	30/35/40	2 – 4	4000 psi	2D.2

Concrete Grade	Mix Number	Intended Use *	Maximum W/C Ratio ‖	Maximum Cementitious Content (pounds/ cubic yard)	Maximum percent SCM (Fly Ash/ Slag/Ternary)	Design Slump Range (inches)	Minimum 28-day Compressive Strength, f'c	3137, "Coarse Aggregate for Portland Cement Concrete."
If the intended use is not included elsewhere in the Specification or Special Provisions, use mix 3G52, unless otherwise directed by the Engineer. ‖ The minimum Water/Cement (W/C) ratio is 0.30. † Mix 3F57EX requires the use of Coarse Aggregate Designation "7", "2" or "3" for the 4th digit in accordance with Table 2461.2-3. ‡ Identify the specific color used on the Certificate of Compliance. Colored concrete is only allowed when specified in the Plans or the Contract. # Adjust slump in accordance with 2461.3G.7.a, "Concrete Placed by the Slip-Form Method," for slip-form concrete placement. § The "-S" indicates a Bridge deck with a structural slab and "-M" indicates a monolithic Bridge deck. ** Mix 3Y47 requires the use of Coarse Aggregate Designation "7" or "3" for the 4th digit in accordance with Table 2461.2-3.								

Delete and replace the first sentence of MnDOT 2461.2E.2.b(2) with the following:

Design High-early (HE) concrete to achieve the minimum design strength and time required in accordance with Table 2461.2-7.

Delete and replace Table 2461.2-7 of MnDOT 2461.2E.2.b(2) with the following:

Table 2461.2-7
High-Early (HE) Concrete Requirements
(Not applicable to Bridge Superstructure or Mass Concrete)

Mix Number	Concrete Grades Allowed	Minimum Design Time	Maximum W/C Ratio	Maximum Cementitious Content (pounds/ cubic yard)*	Slump Range	Minimum Design Strength	Minimum 28-Calendar Day Compressive Strength, f'c	3137 "Coarse Aggregate for Portland Cement Concrete"
1PHE62 ‖	P	-	0.63	750	3 – 6 inches	-	3000 psi	2.D.1
3HE32	F	48 hours	0.42	750	1/2 – 3 inches †	2000 psi	4500 psi	2.D.1
3HE52	F	48 hours	0.42	750	2 – 5 inches	2000 psi	4500 psi	2.D.1
3HE52	B and G	48 hours	0.42	750	2 – 5 inches	3000 psi	4500 psi	2.D.1
3YHE52	Y (Repairs Only)	48 hours	0.42	750	2 – 5 inches	3000 psi	4000 psi	2.D.2
3RHE52	R (Repairs Only)	48 hours	0.42	750	2 – 5 inches	2000 psi	4000 psi	2.D.3

* Supplementary cementitious Materials allowed.
‖ Used only for placing concrete in piles during freezing temperatures, provide 30 percent additional cement to the concrete mix for concrete 10 feet below the ground line or water line in accordance with 2451.3D.6, "Cast-in-Place Concrete Piles."
† Adjust slump in accordance with 2461.3G.7.a, "Concrete Placed by the Slip-Form Method."

Delete and replace Table 2461.2-8 of MnDOT 2461.2E.2.b(3) with the following:

Table 2461.2-8
Project Specific Contractor Designed Mixes

Concrete Grade	Intended Use	Specification	3137 "Coarse Aggregate for Portland Cement Concrete"
A	Concrete Pavement	2301, "Concrete Pavement"	2.D.3
M, V, W, Z	Precast Concrete	2462, "Precast Concrete"	Varies
HPC	High Performance Concrete	2401, "Concrete Bridge Construction"	2.D.2
MC	Mass Concrete	Special Provision 2401	Varies
SCC	Self-consolidating Concrete	Special Provision 2401	Varies
CLSM, LCCF	Cellular Concrete Grout	2519, "Cellular Concrete"	None
Non-MnDOT Designated	Per Contract	Per Contract	Per Contract
All concrete grades	Delivery Time is > 90 minutes	2461.3G.3.a, "Delivery Time Beyond 90 minutes"	Varies

Delete and replace the first, second, and third paragraphs of MnDOT 2461.2E.3 with the following:

At least 21 Calendar Days before initial placement of the concrete, submit the appropriate General concrete mix design form to the Concrete Engineer for review. Use the most current forms, specific gravity, and absorption data available from the MnDOT Concrete Engineering website.

Design the concrete mix to an absolute volume of 27.00 – 27.27 cubic feet.

MnDOT will review the Contractor's proposed mixture design solely for compliance with applicable mix design properties in 2461.2. The Department makes no guaranty or warranty, either express or implied, that compliance with mix design properties ensures compliance with any other requirements.

Delete and replace Table 2461.2-11 of MnDOT 2461.2E.4 with the following:

Table 2462.2-11
Mix Design Adjustments/Requirements

	Type of Change or Adjustment	Mix Design Resubmittal Requirements
Level 1 mixes	Cementitious Sources Admixture Sources Admixture Dosage Rate	No resubmittal required
	Aggregate Sources Aggregate Proportions Any cementitious proportion (≤ 15% max fly ash)	Resubmittal of Mix Design
	Any cementitious proportion (> 15% max fly ash)	Resubmittal in accordance with 2461.2E.3.a, "Preliminary Test Data Requirements for Level 2 Mixes"
Level 2 mixes	Cementitious Sources Admixture Dosage Rate	No resubmittal required
	Aggregate Source, no change in Aggregate Class ≤ 5% Total Cementitious ≤ 10% Individual Aggregate Weights	Resubmittal of Mix Design
	Aggregate Source and Class of Coarse Aggregate Supplementary Cementitious Proportion > 5% Total Cementitious > 10% Individual Aggregate Weights Admixture Sources	Resubmittal in accordance with 2461.2E.3.a, "Preliminary Test Data Requirements for Level 2 Mixes"
* Only one (1) increase in total cementitious allowed per mix design, next adjustment requires resubmittal in accordance with 2461.2E.3.a, "Preliminary Test Data Requirements for Level 2 Mixes"		

Delete and replace MnDOT 2461.2E.5 with the following:

E.5 MnDOT Review of Continual Acceptance of Contractor Mix Designs
The Concrete Engineer will review test results relating to each individual Contractor concrete mix design. The Concrete Engineer will review the following test results:

(1) Plant and Field Test Results
(2) Compressive Strength at 28 Calendar Days
(3) Monthly Aggregate Quality Testing

Provided the concrete continues to meet specification requirements, the Contractor will have that mix design available for future use.

Add the following to MnDOT 2461.3D.1:

D.1.g Fiber Proportioning
Do not incorporate fiber packaging materials into the Concrete. The Engineer considers the following fiber addition methods acceptable on all jobs:

(1) Open bag and distribute fibers on Aggregate belt at Ready-mix Concrete plant

(2) Open bag, break apart any fiber clumps, and introduce fibers into Ready-mix Concrete truck in a well-distributed manner

Any alternate methods to add fibers to the concrete mix must be submitted for acceptance by the Engineer and demonstrated by a successful trial placement.

Ensure fibers are uniformly dispersed in the Concrete to avoid balling. Balling of fibers is defined as a 2 inch diameter or greater conglomerate of fibers at the point of placement. The

Engineer will consider any balling more prevalent than 1 per load of Concrete as unacceptable and may reject the load of concrete.

Delete and replace MnDOT 2461.3D.1.b with the following:

D.1.b Weighing Equipment and Tolerances
Weigh or measure concrete mixture ingredients using load cells or meters for Ready-mix and paving concrete to within the targeted batch weight in accordance with the following:

(1) Water – 1 percent
(2) Cement – 1 percent or 30 pounds, whichever is greater
(3) Other cementitious Materials – 3 percent or 30 pounds, whichever is greater
(4) Aggregates – 2 percent
(5) Admixtures – 3 percent

In accordance with 1503, the Producer will make plant adjustments when out of tolerance values are reoccurring on the same day or over a period of 7 calendar days.

Delete and replace MnDOT 2461.3F.1.a(7) with the following:

(7) Supply a working email address, including an active internet connection with availability for Department use, at the certified ready-mix plant.

Delete and replace the first paragraph of MnDOT 2461.3F.2 with the following:

Provide one computerized Certificate of Compliance with each truckload of ready mixed concrete at the time of delivery. The Department defines computerized to mean a document that records mix design quantities from load cell and meters.

Delete and replace the second sentence of MnDOT 2461.3F.2 with the following:

If the computer that generates the Certificate of Compliance malfunctions, the Engineer may allow the Contractor to finish any pours in progress if the Producer issues a handwritten or computer-generated Department Form 0042, *Certificate of Compliance* with each load. The Engineer will not allow the Producer to begin new pours without a working computerized Certificate of Compliance.

Add the following to MnDOT 2461.3F.2:

(22) Fibers, brand, and dosage per cubic yard
(23) Ready-Mix Sheet Number (RMX###-###), JMF Sheet Number (JMF##-###), or PS Sheet Number (PS##-###)
(24) MnDOT Designation Plant/Unit Number (RM###)

Delete and replace MnDOT 2461.3F.3.c with the following:
Place concrete meeting the aggregate gradation requirements in the Work.
Identify QC companion gradation samples with the following information:

(1) Date
(2) Test number
(3) Time
(4) Type of Material
(5) Plant
(6) Sampling Location

If any gradation fails, immediately take second gradation. If the second gradation passes, resume testing as required. The Engineer will not allow the second gradation as a substitute for the next

required QC gradation. If the second gradation fails, refer to Table 2461.5-1 for additional requirements. The Engineer will not allow a verification companion gradation as a substitute for a QC gradation.

Delete the second paragraph of MnDOT 2461.3F.3.d.

Delete and replace the first and second paragraphs of MnDOT 2461.3F.3.e with the following:

The Producer will complete and maintain the Concrete Ready-mix Plant QC Workbook in Real Time for all materials and sources incorporated into the concrete mix, using their full name for the diary and each test performed.

Add the following to MnDOT 2461.3G after the third paragraph:

Do not start concrete placement when it is raining or snowing.

Add the following to MnDOT 2461.3G.2:

The Contractor and Engineer will perform random sampling and testing in accordance with ASTM C172, Standard Practice for Sampling Freshly Mixed Concrete; ASTM C1064, Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete; and the Schedule of Materials Control.

Add the following to MnDOT 2461.3G.5:

For all cast-in-place concrete as specified in 2461, including HE concrete, place concrete meeting the strength requirements of Table 2461.2-6 and Table 2461.2-7 unless otherwise specified in the Contract into the Work. Unless otherwise included in the Plans, HE concrete requires approval of the Engineer before incorporation into the Work.

Delete 2461.3G.5.b(2) and replace with the following:

(2) Mark cylinder for identification of the represented unit or section of concrete

Delete and replace Table 2461.3-3 of MnDOT 2461.3G.6.a(1) with the following:

Table 2461.3-3
Chronological Testing Ages of Strength Specimens

Type of Concrete	Testing Ages*
Concrete Pavement as defined in 2301, "Concrete Pavement"	Test at least 2 sets of strength specimens before and the remaining sets after the anticipated opening strength
Normal Strength Concrete as defined in 2461, "Structural Concrete"	1, 3, 7, 14, and 28-Calendar Days
High-early (HE) Concrete as defined in 2461, "Structural Concrete"	12 hours, 1, 2, 7, and 28-Calendar Days
Ultra High-Early (UHE) Concrete as defined in 2302, Concrete Pavement Rehabilitation"	3, 4, and 8 hours, 1 and 14-Calendar Days
* The Contractor may adjust the testing ages if approved by the Engineer, in conjunction with the Concrete Engineer.	

Delete and replace the second sentence of MnDOT 2461.3G.7 with the following:

The Contractor and Engineer will perform random sampling and testing in accordance with ASTM C172, Standard Practice for Sampling Freshly Mixed Concrete; ASTM C143, Standard Test Method for Slump of Hydraulic-Cement Concrete; ASTM C1611, Standard Test Method for Slump Flow of Self-Consolidating Concrete; and the Schedule of Materials Control.

Delete and replace the second sentence of MnDOT 2461.3G.8 with the following:

The Contractor and Engineer will perform random sampling and testing in accordance with *ASTM C172, Standard Practice for Sampling Freshly Mixed Concrete*; *ASTM C231, Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method*; and the Schedule of Materials Control.

Delete and replace the fourth paragraph of MnDOT 2461.3G.8 with the following:

Test the air content at the point of delivery (eg., end of concrete chute) unless otherwise specified in the Contract.

Delete and replace MnDOT 2461.5A.2.d with the following:

A.2.d Moving Average Below f'c

If the moving average of 3 consecutive strength tests is less than the required f'c, the Concrete Engineer will review the strength test results and determine if a new mix design is required in accordance with Table 2461.2-6 or Table 2461.2-7.

The Concrete Engineer in conjunction with the Engineer will remove any strength test results from the moving average if the following occurs:

(1) After investigation, the cause for the deficient concrete strength is due to improper handling, curing, or testing of the cylinder
(2) Cylinders kept in the field longer than 7-Calendar Days that negatively impact the moving average calculation
(3) The suspect concrete was removed and replaced
(4) Dispute resolution coring identified the concrete acceptable to remain in place

For the quantity of non-conforming concrete not meeting the moving average of 3 consecutive strength tests, the Engineer will make determinations regarding the disposition, payment, or removal of the concrete in accordance with Table 2461.5-5.

Table 2461.5-5
All Concrete Grades

Moving average of 3 consecutive strength tests	**Monetary Deductions for Moving Average Failure ***
> 96.0 percent of f'c	No deductions for the Materials placed as approved by the Engineer.
91.0 percent to 96.0 percent of f'c	$20.00 per cubic yard or 10 percent of the Contractor-provided invoice for quantity represented by test that brought moving average into non-conformance.
≥ 87.5 percent and ≤ 91.0 percent of f'c	$50.00 per cubic yard or 25 percent of the Contractor-provided invoice for quantity represented by test that brought moving average into non-conformance.
< 87.5 percent of f'c	Remove and replace concrete in accordance with 1503, "Conformity with Contract Documents," and 1512, "Unacceptable and Unauthorized Work," as directed by the Engineer. If the Engineer, in conjunction with the Concrete Engineer, determines the concrete can remain in-place, the Engineer will adjust the concrete at a reduction of $100.00 per cubic yard or 50 percent of the Contractor-provided invoice for quantity represented by test that brought moving average into non-conformance.

S-47 (2531) TRUNCATED DOMES

DESCRIPTION
This Work consists of furnishing and installing Truncated Dome Systems at pedestrian curb ramps in accordance with MnDOT 2531, MnDOT 2521, (1804) PROSECUTION OF WORK (ADA), and Standard Plate 7038.

MATERIALS

Detectable Warning Surfaces ..... APL

CONSTRUCTION REQUIREMENTS
No cutting of coated colored truncated domes is allowed. Obtain Engineer's acceptance prior to cutting uncoated uncolored truncated domes. Minimum cut section surface area is two square feet. Grind cut edges smooth. A maximum of one cut section is allowed per pedestrian ramp.

Firmly press truncated domes into concrete filling the vent holes on the truncated dome plates.

Finish the concrete surface flush to within a tolerance of 1/16 inch with the detectable warning surface plate edge. Provide a 3-inch maximum concrete border around the edges of the truncated domes surface in accordance with Standard Plans No. 5-297.250.

Place the detectable warning surface plates flush to within a tolerance of 1/16 inch with adjacent plates.

The zero-inch height curb locations may be adjusted up to 6 inches laterally if radial dome sections are used.

Truncated domes shall provide a visual contrast to the concrete ramp of either dark on light or light on dark.

METHOD OF MEASUREMENT
The Engineer will measure the area of truncated domes installed in accordance with MnDOT 1901.2.

The Engineer will measure the length of radial truncated domes along the long chord.

BASIS OF PAYMENT
The Contract Unit Price for Truncated Domes is compensation in full for Equipment, Materials and labor required to complete the Work.

The Department will pay for Truncated Domes on the basis of the following schedule:

Item No.	Item	Unit
2531.618	Truncated Domes	square foot

S-48 (2540) MAILBOX SUPPORTS

DESCRIPTION
This Work consists of removing existing mailbox supports and furnishing and installing new mailbox supports or salvaging and relocating existing mailbox supports in accordance with mailbox detail located in the project plans.

MATERIALS

Low-Carbon Structural Steel ..... MnDOT 3306

Structural Steel Pipe ..... MnDOT 3362

Fasteners ..... MnDOT 3391

Galvanized Hardware ..... MnDOT 3392

Flanged Channel Sign Posts ..... MnDOT 3401

Galvanized Structural Shapes ..... MnDOT 3394

Square Tubular Sign Posts ..... MnDOT 3402

Contractor shall provide the security chain on newly furnished installed mailbox supports.

CONSTRUCTION REQUIREMENTS
Coordinate with postal patron and the local postal authority to establish and install permanent mailbox supports.

Removal and replacement of mailbox supports shall cause no interruption of mail delivery if possible. In no case shall the postal patron be without a mailbox for more than 24 hours.

MEASUREMENT
The Engineer will measure Mail Box Support and Relocate Mail Box Support by the each.

BASIS OF PAYMENT
The payment for relocate mail box support Pay Item is compensation in full for costs of Materials, Equipment, and labor required to complete the work to the satisfaction of the Engineer.

The payment for mail box support Pay Item is compensation in full for costs of Materials, Equipment, and labor required to complete the work to the satisfaction of the Engineer.

S-49 (2563) TRAFFIC CONTROL

The Contractor shall be responsible for traffic control on the Project, and shall furnish, erect, maintain, and remove all necessary traffic control devices required to provide safe movement of vehicular traffic through the Project, in accordance with the Traffic Control Plan and the following:

a. Prior to the start of any construction operations that necessitate traffic control signing that is the Contractor's or Sub-contractor's responsibility, the Contractor shall make available for inspection (24 hours prior to installation) all traffic control devices to be furnished and used by the Contractor

b. 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

Contractor shall modify his/her proposed traffic control devices as deemed necessary by the Engineer.

c. Traffic control devices include, but are not limited to, barricades, warning signs, lane marking, trailers, flashers, cones, and drums, as required, and enough barricade weights to maintain barricade stability.

d. The Contractor shall install and maintain flashing lamps on all advance warning signs.

e. The Contractor shall provide surveillance at least once every 24 hours of the traffic control devices to ensure that they are properly placed and in good condition. The Contractor shall immediately repair or replace any traffic control device that is damaged, moved, stolen, or destroyed. Traffic control devices shall be maintained in such a manner that the cleanliness, reflectorization, and position is acceptable to the Engineer.

f. The Contractor shall submit to the Engineer a checklist certifying that the daily inspection of the traffic control devices has been taken. The checklist shall be in a form approved by the Engineer.

f. The names, addresses, and telephone number (not long distance) of at least two local individuals, who will be available during non-working hours to maintain or replace traffic control devices, shall be furnished to the Engineer. These individuals shall have some knowledge of the maintenance and the proper placement of traffic control signs and devices.

g. No hand lettered signs will be approved for installation.

h. Detour signs shall be removed or covered within 24 hours after work causing the necessity for said detour has been completed.

If at any time the Contractor fails to adequately maintain any of the traffic control devices, the Department may proceed to perform the maintenance and deduct the cost thereof from any monies due or coming due the Contractor.

The Contractor shall provide Mn/DOT Certified Flaggers and/or pilot car operations when, in the opinion of the Engineer, his/her operations may constitute a hazard to traffic. The use of Mn/DOT Certified Flaggers and/or pilot car operations shall be as directed by the Engineer and will be considered to be incidental to Traffic Control and no direct compensation will be made therefore. The contractor must submit proof of Flagger Certification prior to the work being performed.

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

As a minimum Two Mn/DOT Certified Flaggers will be used for the following:

Paving operation, one Mn/DOT Certified Flagger no more than one mile either side of the equipment.

The Contractor’s attention is directed to the Special Provisions S-10 Traffic Control and Protection and the Traffic Control Plan (See Plan Sheets) for additional traffic control requirements.

The Contractor will be responsible for traffic control to maintain traffic thru project completion.

All construction signing warning the public that they are entering the project area, shall remain in place until after project completion and project acceptance by Otter Tail County.

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 for which payment is made.

Payment for furnishing, installing, maintaining, relocating and subsequently removing traffic control devices (including flaggers and/or pilot car operations) as required will be made as a lump sum under Item No. 2563.601 (Traffic Control) and according to the following schedule:

a. When 5 percent of the contract amount is earned, 50 percent of the amount bid for traffic control will be paid.

b. When 10 percent, or more, of the contract amount is earned, an additional 25 percent of the amount bid for traffic control will be paid.

c. When 50 percent, or more, of the contract amount is earned, an additional 20 percent of the amount bid for traffic control will be paid.

d. The remaining 5 percent bid for traffic control will be paid when all work has been completed and accepted.

e. In all items above, the original contract amount shall be the total value of all contract items including the traffic control item, but the total percentage earned in each case shall be exclusive of the Traffic Control item.

S-50 (2563) RAISED PAVEMENT MARKERS TEMPORARY

This Work consists of furnishing, installing, maintaining and removal of temporary raised pavement markers (TRPMs) and the selected mounting system in accordance with S-49 (2563) TRAFFIC CONTROL

Contractor to provide TRPMs listed on MnDOT approved products list (APL)

This work consisting of furnishing, installing, maintaining and removal of temporary raised pavement markers (TRPMs) shall be measured and paid for by the each.

S-51 (2574) COMMON TOPSOIL BORROW

Common Topsoil Borrow shall meet the requirements of Section 2574 and shall be constructed as follows:

The topsoil used (if needed) on the project shall be screened, 100% of the material shall pass the 1" sieve. Topsoil shall be free of rocks, lumps or other objectionable material. The contractor shall assume the responsibility of removing rocks, lumps, or other objectionable material exceeding 1" diameter at no expense to the County. Topsoil will not be combined with other materials. Materials not meeting these requirements will not be paid for.

All locally available topsoil approved by the Engineer will be accepted for use as "Topsoil Borrow". The stockpile will be inspected by the County prior to hauling to the project. Materials not approved by the Engineer will not be paid for. The provisions of Mn/DOT 3877 are waived.

S-52 (2575) ESTABLISHING VEGETATION AND CONTROLLING EROSION

Add the following language to 2575.3 A General

> Permanent erosion and sediment control devices shall be constructed in accordance with the provisions of 2575, the "MPCA General permit Authorization to Discharge Storm Water", and as shown in the Plans, and modified below:

Delete and replace Table 2575.3-1 with the following:

Table 2575.3-1
Seeding Dates

Seed Mixture	Spring	Fall
Oats	May 1 – August 1	
Winter Wheat	---	August 1 – October 1
Oats and Peas	Year round	---
Two-year Cover Crop*	April 1 – July 20	July 20 – October 20
Boulevard and Turfgrass mixes, Snow Fence Ground Cover, Inslope mixes, Patch mix*	April 1 – June 1	July 20 – September 20
Roadside and Wet Ditch mixes	April 15 – July 20	September 20 – October 20
*Plant these mixes from April 15 through September 20 when working on or north of TH 2.		

Add the following language to 2575.3 B Placing Seed

All erosion control measures for seeding, and fertilizer shall be completed within 10 calendar days of spreading of the topsoil.

Delete and replace the first paragraph of MnDOT 2575.3 B.2 Seeding Turf Mixes with the following:

B.2 Seeding Cover Crop and Turfgrass Mixtures

Mechanically sow or hydraulically apply Cover Crop, Boulevard, Turfgrass, Snow Fence, Inslope, and Patch mixes uniformly at the adjusted bulk application rate of each mixture. Only use hand operated mechanical spreaders on areas too small for or inaccessible by the specified equipment.

Delete and replace MnDOT 2575.3 B.3 with the following:

B.3 Seeding Roadside and Wet Ditch Mixtures

Seed Roadside and Wet Ditch mixes with a native seed drill, a drop type seeder, or a hydro seeder uniformly at the adjusted bulk application rate of each mixture.

Use a drill or drop seeder with separate seed boxes for fluffy seed and small flowable seed, capable of accurately metering seed of various sizes, and capable of maintaining a uniform mixture of seeds during planting.

Seed drills must have separate seed boxes for fluffy seed and small flowable seed, be capable of accurately metering seed of various sizes, and be capable of maintaining a uniform mixture of seeds during planting. They must also have disc furrow openers and a packer assembly that compacts the soil directly over the drill row. Plant seeds in rows no greater than 8 inches apart and at a depth of between 1/8 inch and 3/8 inch. Drill perpendicular to the direction of surface drainage.

Drop seeders must have separate seed boxes for fluffy seed and small flowable seed, be capable of accurately metering seed of various sizes, and be capable of maintaining a uniform mixture of seeds during planting. They must also have a packer assembly that firms the soil immediately after the seed lands on it or be followed immediately by a separate cultipacker.

Use cyclone or spinner-type seeders on areas no greater than 1 acre or on areas inaccessible to other Equipment as approved by the Engineer.

Delete and replace the second paragraph of MnDOT 2575.3L. “Turf Establishment” with the following:

Unless otherwise shown on the Plans, establish vegetative cover by sodding or by seeding and mulching. Fertilize the areas with a slow release fertilizer in accordance with 3881.2B.3 "Type 3 – Slow Release Fertilizer" at a rate recommended by supplier or indicated in the plans. If seeding, provide and place Mesic Inslope seed mixture as specified in 3876 "Seed." Stabilize seeded areas with Type 3 Mulch in accordance with 3882 "Mulch Material" and disc anchoring. Stabilize slopes steeper than or equal to 3h:1v, ditch bottoms, and other areas of concentrated flow with category 25 Rolled Erosion Prevention Product.

Delete and replace the first sentence of MnDOT 2575.3 L.1, Subsurface Drain Outlets with the following:

As per 2502 "Subsurface Drains," plant the area around subsurface drain outlets with the seed mixture shown in the Plans. Plant Mesic Inslope Seed Mixture in accordance with 3876 "Seed" if no seed mixture is shown in the Plans.

Add the following language to 2575.3 Q, Workmanship and Quality

In the event the Contractor delays seeding so that the areas to be seeded become infested with weeds, the Contractor shall, at no cost to the Department, destroy such weed growth and make the areas suitable for seeding by removing the weeds to the satisfaction of the Engineer.

Add the following to 2575.5K, Schedule:

Item No.	Item	Unit
2575.608	Seed _____	pound

Add the following language to MnDOT 2575.5, Basis of Payment

L Withholding of Payment and Pay Deductions

If the Contractor fails to perform critical erosion control work, including silt fence and bale checks, as ordered by the Engineer, the Engineer will issue a written notice detailing the required action. The Contractor shall start the required erosion control work within 3 working days after receiving the notice or be subject to a $5,000/calendar day deduction in payment.

No payment will be made if the Contractor removes necessary equipment and manpower from the Project prior to completion of the work.

S-53 (2582) PAVEMENT MARKING

Add the following language to MnDOT 2582.3B.3, Bituminous Surface Cure

Cleaning shall be accomplished with rotary brooms, air blast, hand brooms, scrapers, or whatever combination of equipment that is necessary to produce a clean surface without damage. Particular care shall be taken to remove vegetation and soil from the areas to be edge striped. Should other methods fail, hand scraping or brushing will be required to secure an acceptable surface. Preparation of the pavement surface shall be considered incidental to other work items and no additional compensation shall be made.

Add the following language to MnDOT 2582.3B.3, Bituminous Surface Cure

All pavement marking work shall be completed on each project no sooner than 5 calendar days or later than of 15 calendar days after final paving.

Delete and replace the fourth paragraph of MnDOT 2582.3B.7.b with :

For Pref Tape Gr In provide a recess depth between 150 mil to 200 mil. For Pref Thermo Gr In provide a recess depth of 110 mil ± 10 mil.

Delete and replace MnDOT 2582.3C.3 with :

C.3 Retroreflectivity

Initial pavement marking retroreflectivity is defined as the pavement marking dry and wet retroreflectivity when measured between 14 Calendar Days and 44 Calendar Days after pavement marking installation, prior to snow and ice maintenance operations.

C.3.1 Dry Retroreflectivity

Provide pavement markings meeting the following minimum initial pavement marking dry retroreflectivity when tested using 30-meter geometry in accordance with *ASTM E1710, Standard Test Method for Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer*.

Table 2582.3-2
Minimum Initial Pavement Marking Dry Retroreflectivity

	White	Yellow
Pref Tape	600 millicandela/square meter/lux	500 millicandela/square meter/lux
Pref Thermo	300 millicandela/square meter/lux	200 millicandela/square meter/lux
Pref Thermo, ESR (Enhanced Skid Resistance)	250 millicandela/square meter/lux	150 millicandela/square meter/lux
Multi Comp	300 millicandela/square meter/lux	200 millicandela/square meter/lux
Paint	275 millicandela/square meter/lux	180 millicandela/square meter/lux

C.3.2 Wet Retroreflectivity

When recessed, provide linear pavement markings in the field meeting minimum initial pavement marking wet retroreflectivity as listed in Table 2582.3-2A in accordance with ASTM E 2832, *Standard Test Method for Measuring the Coefficient of Retroreflected Luminance of Pavement Markings in a Standard Condition of Continuous Wetting.*

Table 2582.3-2A
Minimum Initial Pavement Marking Wet Retroreflectivity

	White	Yellow
All Materials	200 millicandela/square meter/lux	200 millicandela/square meter/lux

Add the following to MnDOT 2582.3, Construction Requirements

G Traffic Control and Protection

Whenever pavement markings are applied in the presence of traffic, the Contractor shall furnish and place all necessary warning and directional signs to maintain traffic and shall provide such protection to the uncured markings as may be needed until traffic can cross them without damage.

When necessary, a pilot car and flagmen shall be used to provide adequate control and direction of traffic. Warning signs and barricades shall be placed only where marking operations are in progress and they shall be relocated as often as necessary and shall not be left in place overnight.

Traffic shall be allowed to keep moving at all times and the striping equipment shall be operated in a manner that will not make it necessary for traffic to cross uncured markings. Protective devices such as "cones" shall be of an approved type that will not cause damage to the vehicle when accidentally struck.

S-54 (3113) ADMIXTURES FOR CONCRETE RESTORED 06/30/23

Delete and replace MnDOT 3113.2A with the following:

Provide Class I admixtures from the Approved Products List meeting the requirements of *ASTM C494, Standard Specification for Chemical Admixtures for Concrete*.

Department identifies the following as Class I admixtures:

(1) Type A — Water reducing
(2) Type B — Retarding
(3) Type C — Accelerating
(4) Type D — Water reducing and retarding
(5) Type E — Water reducing and accelerating
(6) Type F — Water reducing, high range
(7) Type G — Water reducing, high range and retarding
(8) Type S — Specific performance admixtures

Provide Class II air-entraining admixtures from the Approved Products List meeting the requirements of *AASHTO M 154, Standard Specification for Air-Entraining Admixtures for Concrete,* except the tests for bleeding, bond strength, and volume change are not required.

Provide Class III corrosion inhibiting chloride admixtures from the Approved Products List meeting the requirements of *ASTM C1582, Standard Specification for Admixtures to Inhibit Chloride-Induced Corrosion of Reinforcing Steel in Concrete*.

S-55 (3115) FLY ASH FOR USE IN PORTLAND CEMENT CONCRETE NEW 03/29/24

Delete and replace MnDOT 3115 with the following:

3115.1 SCOPE

Provide fly ash or coal ash for use in concrete and other applications.

3115.2 REQUIREMENTS

Provide fly ash or coal ash from the certified source listed on the Approved/Qualified Products List.

Provide materials meeting the requirements of ASTM C618, "Standard Specification for Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete."

Ensure the following standardized Certification Statement is included with delivery invoices: "(insert company name) certifies that the (material name) produced at (insert plant and location) conforms to MnDOT Specification 3115 for Class (insert class) coal ash."

3115.3 SAMPLING AND TESTING

Provide samples for testing meeting the requirements of the Schedule of Materials Control.

S-56 (3116) NATURAL POZZOLAN NEW 06/28/24

SCOPE

Provide natural pozzolan for use in concrete and other applications.

REQUIREMENTS

Provide raw or calcined natural pozzolan material listed on the *Approved/Qualified Products List,* meeting the requirements of *ASTM C618, Standard Specification for Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete.*

Include the following standardized Certification Statement with delivery invoices: "(insert company name) certifies that the (material name) produced at (insert plant and location) conforms to MnDOT 3116 for Class N Natural Pozzolan."

SAMPLING AND TESTING

Provide samples for testing meeting the requirements of fly ash in the *Schedule of Materials Control*.

S-57 (3131) INTERMEDIATE AGGREGATE FOR PORTLAND CEMENT CONCRETE NEW 09/29/23

Add the following to the first paragraph of MnDOT 3131.2D:

If the CIA is <15 percent of the total aggregate in the mix, Table 3137.2-3(b) is modified to a maximum of 50.0 percent by weight of Carbonate in Class C aggregate.

S-58 (3137) COARSE AGGREGATE FOR PORTLAND CEMENT CONCRETE NEW 03/29/24

Delete MnDOT 3137.2C and replace with the following:

C Washing
Wash Class B, Class C, Class D, and Class R coarse Aggregate to comply with the requirements of Table 3137.2-1(i). Wash Class A aggregate as needed to comply with the requirements of Table 3137.2-1(i), except always wash Class A aggregate for use in Concrete Pavement.

In Table 3137.2-1, delete the "#" footnote and replace with the following:

Each individual fraction at the point of placement consists of dust from fracture and free of soil (eg., clay and silt) and shale.

S-59 (3733) GEOSYNTHETIC MATERIALS REVISED 03/28/25

Delete and replace MnDOT 3733.2B with the following:

Provide geotextiles made from woven, nonwoven, or knit fabric of polymeric filaments or yarns, such as polypropylene, polyethylene, polyester, or polyamide. Except for Type 1b (knit sock), provide geotextiles in compliance with the National Transportation Product Evaluation Program (NTPEP).

For Types 1, 3-13 meet the applicable requirements in Table 3733.2-1 through Table 3733.2-4.

Table 3733.2-1
Geotextile Properties for Types 1, 3, 4, 5, 6, 7

Geotextile Property	ASTM Test Method Units	Type *						
		1		3	4	5	6	7 †
		Fabric	Knit sock ‖					
B1 Grab Tensile Strength minimum, each principal direction	*D4632* Pounds	100	—	100	200	250	‡	300
B2 Elongation minimum, each principal direction	*D4632* Percent	—	—	50	50	—	‡	50
B3 Seam Breaking Strength minimum #	*D4632* Pounds	90	—	90	180	180	‡	270
B4 Apparent Opening Size (AOS) §	*D4751* U.S. Sieve	40	40 as applied	50	50	30	20	50
B5 Permittivity minimum**	*D4491* sec^{-1}	0.7	2.75 relaxed	0.5	0.5	0.60	0.05	0.5
B6 Puncture strength minimum	*D6241* Pounds	—	180	—	—	1000	—	—
B7 Wide Width Strip Tensile Strength minimum each principal direction	*D4595* pounds/feet	—	—	—	—	2460	‡	—

* Minimum Average Roll Values (MARV) based on an average of at least three tests per swatch.

‖ Provide socks made of knit polymeric Materials and meeting the requirements of *ASTM D6707-06, Standard Specification for Circular-Knit Geotextile for Use in Subsurface Drainage Applications*, for Type H as given for properties B4, B5, and B6 fabric. Ensure the sock exhibits minimum snag or run potential, is factory-applied to maintain uniform installed mass, and conforms to the outside diameter of the tubing with a snug fit.

† Needle-punched nonwoven. Do not use thermally bonded (heat-set) fabric.

‡ Requirements are site-specific and will be as specified in the Contract. The property values for B1 and B3 may not be less than shown for Type 5. If the Contract does not specify either B1 or B7, use a default value of 300 pounds for B1. If the Contract does not specify seam strength, use a default value of 270 pounds for B3.

Adhere to this requirement if the Contract requires or allows seams. Strength Specifications apply to factory and field seams. Use thread for sewing that has the strength of at least 25 pounds. Sew seams with a Federal Type 401 stitch (*ASTM D6193-16, Standard Practices for Stiches and Seams*) using a two-spool sewing machine and install seams facing upward. For seaming with adhesives, see the *Approved/Qualified Products List* available on the Department's website.

§ For U.S. Sieve sizes, the AOS Number must be equal to or greater than the Sieve size specified.

** Permittivity: P = K/L, where K = fabric permeability and L = fabric thickness.

Table 3733.2-2
Type 8 Geotextile Properties

Property	Requirements	Test Procedure
Geotextile type	Nonwoven, needle-punched geotextile, no thermal treatment (calendaring or IR)	Manufacturer Certificate of Compliance
Color	Uniform/Nominally same-color fibers	Visual Inspection
Mass per unit area	≥ 14.7 ounce/square yard	*ASTM D5261**
Thickness under load (pressure)	At 0.29 psi: ≥ 0.12 inches At 2.9 psi: ≥ 0.10 inches At 29 psi: ≥ 0.04 inches	*ASTM D5199*‖
Wide-width tensile strength	≥ 685 pounds/feet	*ASTM D4595*†
Wide-width maximum elongation	≤ 130 percent	*ASTM D4595*†
Water permeability in normal direction under load (pressure)	At 2.9 psi: ≥ 3.3×10^{-4} feet/second	*ASTM D5493* MnDOT Modified‡ or *ASTM D4491#*
In-plane water permeability (transmissivity) under load (pressure)	At 2.9 psi: ≥ 1.6×10^{-3} feet/second At 29 psi: ≥ 6.6×10^{-4} feet/second	*ASTM D6574* MnDOT Modified§ or *ASTM D4716***
Weather resistance	Retained strength ≥ 60 percent	*ASTM D4355*‖‖ at 500 hours exposure
Alkali resistance	≥ 96 percent polypropylene/polyethylene	Manufacturer certification of polymer

Table 3733.2-3
Types 9, 10, 11, and 12 Geotextile Properties

Properties	Test Method	Unit	Type 9		Type 11		Type 12	
			Minimum Average Roll Value					
			MD	CD	MD	CD	MD	CD
Tensile Strength at Ultimate	ASTM D4595	lbs/ft	3,500	3,200				
Tensile Strength @ 2% Strain	ASTM D4595	lbs/ft			600	1,000	480	1,800
Tensile Strength @ 5% Strain	ASTM D4595	lbs/ft			1,800	2,200	1,400	4,300
Cyclic Tensile Modulus @ 2% Strain	ASTM D7556 "Method C"	lbs/ft			50,000	70,000	50,000	120,000
Interaction Coefficient: Ci*	ASTM D6706				0.89		**0.90**	
Properties	Test Method	Unit	Maximum Roll Value					
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve	30		40		**40**	
Properties	Test Method	Unit	Minimum Average Roll Value					
Permittivity	ASTM D4491	sec^{-1}	0.5		0.90		**1.0**	
Flow Rate	ASTM D4491	$gal/min/ft^2$	40		75		**75**	
Properties	Test Method	Unit	Minimum Roll Value					
UV Resistance (at 500 hours exposure)	ASTM D4355	% Strength Retained	70		90		**90**	
Seam Breaking Strength	*ASTM D4884*	Pounds/ inch	200‖					
For Type 10, meet the requirements of AASHTO M288 Class 4A – Geotextile.								

* Perform test with a normal pressure of 1.0 psi. Use material in the mold consisting of GW or SP with a maximum internal angle of friction of 34 degrees.

‖ If required, use thread with a minimum strength of 25 pounds. Sew seams with a *ASTM D6193* Federal Type 401 stitch using a two-spool sewing machine, and install seams facing upward.

Table 3733.2-4
Type 13 Geotextile Properties

Properties	Test Method	Unit	Minimum Average Roll Value MD and CD
Wide Width Max Elongation	ASTM D4595	%	20
Permittivity	ASTM D4491	Sec^{-1}	0.4
Minimum wet front movement in vertical direction	ASTM 1559 (modified for geotextiles)	Inches	4
Minimum wet front movement in horizontal direction:	ASTM 1559 (modified for geotextiles)	Inches	70
Wide Width Tensile Strength	ASTM D4595	lbs/Ft	5000
Wide Width Tensile Strength @2% Strain	ASTM D4595	lbs/Ft	450 MD and 1000 CD
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve	40 Maximum Opening Size
Flow Rate	D4491	$Gal/Min/ft^2$	30 MARV

Renumber Table 3733.2-4, "Geogrid Properties" of MnDOT 3733.2C to Table 3733.2-5, "Geogrid Properties".

S-60 (3876) SEED REVISED 06/28/24

Delete and replace Table 3876.2-1 with the following:

Table 3876.2-1
MnDOT Seed Mixes

Seed Mixture	Application Rate (PLS pounds per acre)
Oats	100
Winter Wheat	100
Oats and Peas	110
Two-year Cover Crop	25
Patch Mix	30
Northern Boulevard	150
Southern Boulevard	160
Turfgrass	200
Snow Fence Ground Cover	84
Mesic Inslope	65
High-traffic Inslope	60
Sandy Inslope	65
Wet Ditch	20
Northeast Roadside	26
Northwest Shortgrass Roadside	26
Northwest Tallgrass Roadside	26
Southern Shortgrass Roadside	26
Southern Tallgrass Roadside	26

Delete and replace MnDOT 3876.2 B with the following:

B Blending

Provide Uniformly blended seed mixtures as required by the Contract and meeting the requirements of the Seeding Manual. Blend mixtures according to the requirements of the Department's Approved Seed Vendor Agreement.

B.1 Cover crop and turfgrass mixtures
Combine all components of cover crop, patch, boulevard, turfgrass, ground cover, and inslope mixtures.

B.2 Roadside and Wet Ditch mixtures
Blend and package components of these mixtures according to size to allow installation from the appropriate seed box of native seeding Equipment and in the following groups:

(1) Combine seeds of sedges, rushes, and forbs with small or medium seeds for installation with the small seeds box.
(2) Combine the seeds of grasses and large-seeded forbs for installation with the fluffy seed box.
(3) Keep the seeds of grain cover crops such as oats and winter wheat separate for installation with the grain box.

Attachments:

MnDOT Right of Way Permit (20 pages)

NPDES-MPCA Stormwater Permit (20 pages)

NPDES-MPCA Stormwater Permit Transfer (2 pages)

Fuel Escalation Clause (4 pages)

Plant Certification Application Form

Notice to Bidders - Abbreviations of Schedule of Prices

Non-Collusion Affidavit

Certificate of Compliance with MN Statute 363

Attachment A – Prime Contractor Response (5 pages)

Schedule of Prices (3 pages)

Form 21126D

Form 1723 (6-26-2013)

DEPARTMENT OF TRANSPORTATION

MINNESOTA DEPARTMENT OF TRANSPORTATION APPLICATION FOR MISCELLANEOUS WORK ON TRUNK HIGHWAY RIGHT OF WAY

Document Management System # _____

District 4 Permit # 4-US-2025-113061

C.S. 5623 T.H. 108

R.P. 31.598

(THIS SECTION FOR MnDOT OFFICE USE ONLY.)

ATTACH A SKETCH OF THE PROPOSED WORK AREA AND RELATION TO TRUNK HIGHWAY.
SUBMIT TO DISTRICT PERMIT OFFICE OF MINNESOTA DEPARTMENT OF TRANSPORTATION.

APPLICANT	**TELEPHONE**	**ADDRESS** (Street, City, State, Zip)
OTTER TAIL COUNTY	2189988498	505 SOUTH STREET SUITE 1 FERGUS FALLS MN 56537
PARTY PERFORMING WORK	**TELEPHONE**	**ADDRESS** (Street, City, State, Zip)
To Be Determined	2187708470	505 South Street Suite 1

LOCATION OF PROPOSED WORK

Highway TH108 City/Township Dent County Otter Tail

DISTANCE FROM NEAREST CROSSROADS TO BEGINNING AND ENDING POINTS OF PROPOSED WORK
Work will be at the intersection of TH108 & CSAH 35, from approximately 24 feet to 75 feet from TH 108 centerline

WILL THIS FACILITY BE WITHIN TRIBAL LANDS? NO **IF YES, WHICH ONE?**

NATURE OF WORK	**COMPANY PROJECT NUMBER**
Part of project SAP 056-635-043. Work within MnDOT ROW will consist of stabilized full depth reclamation, base compaction, bituminous paving. aggregate shouldering and turf establishment.	4053-035

SURFACE TO BE DISTURBED (Check Appropriate Boxes)
Roadway,Shoulder,Bituminous

DEPTH OF EXCAVATION BELOW SURFACE	**NUMBER & SIZE OF EXCAVATIONS**	**METHOD OF INSTALLATION/CONSTRUCTION**
0.5 feet		Reclaim machine and open grading
WORK TO START ON OR AFTER	**WORK TO BE COMPLETED BY**	**IS TRAFFIC DETOUR NECESSARY?** NO
6/13/2025	10/17/2025	**(IF YES, TRAFFIC CONTROL PLAN IS REQUIRED.)**

COMMENTS

APPLICANT'S ACCEPTANCE, WAIVER AND INDEMNIFICATION

The undersigned applicant hereby agrees to comply with applicable statutes, rules, and the standard conditions and special provisions of this permit. The applicant understands and agrees that no work in connection with this application will be started until the application has been approved and the permit issued.

The applicant is aware of circumstances or hazards that may arise while performing the work associated with this application that could result in injury, loss, damage or death, and the applicant assumes the risk of such circumstances, dangers and hazards, whether reasonably foreseeable or not.

The applicant also understands that this permit may also be subject to the approval of local road authorities having joint supervision over said street or highway, and may be subject to applicant's compliance with the rules and regulations of the Minnesota Environmental Quality Board and/or any other affected governmental agencies.

The undersigned applicant expressly agrees that except for negligent acts of the State, its agents and employees, the applicant or his/her agents or contractor shall assume all liability for, and save the State, its agents and employees, harmless from any and all claims for damages, actions or causes of action arising out of the work to be done in connection with this application and permit.

NAME AND TITLE	**EMAIL ADDRESS**
CRAIG TSCHIDA	CTSCHIDA@OTTERTAILCOUNTY.GOV
DATE 04/08/2025	**SIGNATURE**

DO NOT WRITE BELOW THIS LINE

PERMIT NOT VALID UNLESS BEARING AUTHORIZED MnDOT SIGNATURE AND PERMIT NUMBER

AUTHORIZATION OF PERMIT

It is expressly understood that this permit is conditioned upon restoration of the trunk highway right-of-way to its original condition or to a satisfactory condition. In consideration of the applicant's agreement to comply in all respects with the applicable laws and the conditions of the Commissioner of Transportation pertaining to this permit, permission is hereby granted for the work to be performed as described in the above application, said work to be performed in accordance with the following standard conditions and special provisions:

SEE ATTACHED STANDARD CONDITIONS AND SPECIAL PROVISIONS

12/31/2025	Daryn Minske	4/25/2025
Date All Work To Be Completed By	Authorized MnDOT Signature	Date of Authorized Signature

DISTRIBUTION	**DEPOSIT REQUIREMENTS**	**DEPOSIT TYPE**
Original to Area Maintenance Engineer	☒ No Deposit Required	Cashier's Check # _____
Applicant	☐ Deposit Required in the Amount of $ _____	Certified Check # _____

Subarea Supervisor Roadway Regulations Supervisor	Date Deposit Received _____ ***Deposit to be returned upon satisfactory completion of all work***	Money Order # _____ Bond # _____
DATE WORK COMPLETED (***The date when the work is completed must be reported to the MnDOT District Permits Office)***		

STANDARD CONDITIONS OF MISCELLANEOUS WORK PERMIT

1. The permit holder must comply with all applicable laws and regulations, including Worker's Compensation laws.
2. If work to be done lies within a city or platted town, permission must also be obtained from such city or town.
3. Any permanent signs or permanent traffic barriers (including crash cushions) installed on the State Highway system must be deemed crashworthy under the American Association of State Highway and Transportation Officials (AASHTO) “Manual for Assessing Safety Hardware, 2016 (MASH-16)". Where work on or near the traveled roadway is necessary, proper traffic signs, channelizing devices, warning lights, and barricades shall be erected to protect traffic, employees, and pedestrians. All temporary traffic control devices and methods shall conform to the Minnesota Field Manual on Temporary Traffic Control Zone Layouts, Minnesota Manual on Uniform Traffic Control Devices (MMUTCD), Minnesota Standard Signs and Markings Manual, and the appropriate provisions of Standard Specification 1710. All temporary traffic control devices shall be deemed crashworthy under the American Association of State Highway and Transportation Officials (AASHTO) “Manual for Assessing Safety Hardware, 2016 (MASH-16)" with exceptions as noted under MnDOT Technical Memorandum No. 19-03-T-01 Crashworthy Requirements for Temporary Traffic Control Devices. (See memo at: http://dotapp7.dot.state.mn.us/edms/download?docId=2434220)
4. Unless adequately protected by a traffic barrier, there shall be no work within the clear zone, nor shall pipe materials, equipment or other objects be stored within the clear zone. If temporary traffic barrier is used, it will be placed according to the “MnDOT Temporary Barrier Guidance Manual” (December 2018). (See website at: www.dot.state.mn.us/trafficeng/workzone/doc/Temporary%20Barrier%20Guidance%20Manual%20181129.pdf) Any temporary traffic barrier (including crash cushions) must be deemed crashworthy under MASH-16.
5. Any person acting as a Flagger for permitted work shall have attended a training session taught by a MnDOT Qualified Flagger Trainer within the twelve months immediately preceding the start date of all flagging activity. A Flagger shall receive a Flagger Qualification Card, signed by a MnDOT Qualified Flagger Trainer, upon successful completion of this training. During all flagging activity, a Flagger must carry a signed Flagger Qualification Card on that Flagger’s person and be in possession of a current Minnesota Flagging Handbook. The Minnesota Flagging Handbook is available from MnDOT Qualified Flagger Trainers or from a MnDOT District Office.
6. Excavations must be cribbed when necessary, depending upon type of soil, in order to prevent cave-ins. All excavations, trenching and/or jacking and boring pits shall be shored or sloped in accordance with OSHA requirements.
7. No guys, stays, or any structures are to be attached to trees on trunk highway right of way.
8. No poles, anchors, anchor braces, or other construction shall be placed on the roadway shoulder or within the prescribed clear zone.
9. Installation of pipe under concrete or bituminous pavements shall be done by jacking or boring or other approved methods.
10. When open trenching or excavating in existing roadways, all subgrade, base, and surfacing materials shall be replaced with the same type, depth, and density of materials which were removed, unless approved by the Area Maintenance Engineer.
11. All work that involves trenching, backfill, or compaction must be done to MnDOT's Standard Specifications for Construction. Depending on the construction work to be performed, use of one or more of the following specifications may be needed: Excavation and Embankment 2105, Aggregate Base 2211, Aggregate Shouldering 2221, or Structural Excavation and Backfills 2451, Subgrade Preparation 2112.
12. Compaction methods must be approved in advance by the District Permit Office
13. If pavement or roadway is damaged, same shall be restored to a condition as good as or better than the original condition.
14. All pavements shall be replaced in accordance with State specifications.
15. If settlement occurs or excavation caves in so that replaced materials settle (bituminous mat or concrete base), same shall be restored to a condition as good as or better than the original condition.
16. No lugs shall be used on equipment traversing the road which will damage the road surface.
17. No driving onto highway from ditch or driving on shoulders will be permitted where damage will occur.
18. No foreign material such as dirt, gravel, or bituminous material shall be deposited or left on the road during any construction activities.
19. Roadside shall be cleaned to original status upon completion of work.
20. Underground construction must be so constructed as not to harm or unnecessarily destroy the root growth of specimen trees.
21. Cutting and trimming of trees within the right of way and removal of resulting stumps require prior approval of the Area Maintenance Engineer or his authorized representative.
22. If MnDOT shall make any improvements or changes upon, over, under, or along the trunk highway, then and in every case the applicant herein named shall after notice from MnDOT proceed to alter, change, vacate, or remove from trunk highway right of way said works necessary to conform with said changes without cost whatsoever to the State of Minnesota.
23. After work on a project is completed, the permit holder must notify the Area Maintenance Engineer or his authorized representative that such work has been completed and is ready for final inspection and acceptance by MnDOT.

INSTRUCTIONS FOR COMPLETING APPLICATION FOR MISCELLANEOUS WORK ON TRUNK HIGHWAY RIGHT OF WAY (FORM 1723)

Form 1723 is for miscellaneous minor work activities on trunk highway right of way. It may be used for installation of utility customer service line connections that do not cross or parallel the roadway within the trunk highway right of way. Form 1723 is also used for repair and maintenance of existing utility facilities, installing miscellaneous guy wires and anchors, or tree trimming around utility lines. Form 1723 may also be used to place temporary obstructions on the right of way, to perform temporary relocations to accommodate construction projects, and to place objects on the trunk highway right of way under Minn. Statutes §§160.27 or 173.025.

Fill Out This Form Completely

Print (in ink) or type all information. An incomplete application will delay processing. The form can be filled out online and then printed at: http://www.dot.state.mn.us/utility/forms.html

- Be sure to sign it at the bottom. Submit the original form only.
- FAXES ARE UNACCEPTABLE
    - Complete each item on the application. Be specific. If any item does not apply, print "N.A." in the blank.
    - Provide a detailed location of proposed work and give reference to nearest cross streets.
- Include plans of proposed work along with detailed drawings showing type and location of work in relation to MnDOT right of way, on no larger than 11x17 sheets
- Detail any type of traffic interference this work may require and submit a traffic control plan. Detouring of the traffic from the trunk highway will not be permitted, except by special arrangements with the MnDOT District Permit office. All costs involved in the re-routing of traffic including, but not limited to, furnishing barricades, installation or rearrangement of traffic control signs, pavement marking and special flag person services will be charged to the applicant at rates set by MnDOT for the equipment, labor, and materials used.
- Indicate type, kind and size of any object to be placed on trunk highway right of way. Indicate the method of installation and equipment to be used for excavation and compaction.

Submit the complete, signed and dated application (all pages of the form) with the required plans to the MnDOT District Permit office. Contacts and addresses can be found at: http://www.dot.state.mn.us/utility/districtcontacts.html

After the Miscellaneous Work Permit has been approved

The applicant will be notified and a security deposit will be required. The permit will have Special Provisions and drawings indicating the construction requirements. Compliance with these instructions during the work operations is mandatory. All Permittees are responsible for the entire costs of their work activities, including proper traffic control. Work cannot be started until all permit and deposit requirements are met and you have received the approved permit.

Security Deposit

A security deposit is required for permits that authorize work in trunk highway right of way to ensure that work is completed to MnDOT's satisfaction. The actual amount required will depend on the specific situation. The District Permit Section will determine the actual amount and type of deposit to be submitted based on the specific situation. Deposits may be in the form of a certified check, cashier's check, or surety bond made payable to "State of Minnesota, Commissioner of Transportation." Deposits must be irrevocable and cannot expire. A permit will not be issued until the required deposit is received.

After construction is completed

The applicant must notify the MnDOT District Permit Office for final inspection. If the construction and all other related work is satisfactory and the turf items are re-established, the deposit will be returned to the applicant. The approved permit is a legal document and should be retained with other valuable papers.

SPECIAL PROVISIONS FOR MISCELANEOUS PERMIT
OTTER TAIL COUNTY
Permit #4-US-2025-113061

Permittee must call in a gopher one call prior to excavating ground in MnDOT ROW.

No work can take place on MnDOT road surface, including traffic control installations, while MnDOT Snow Plowing Operations are taking place. In the event of a snow event permittee must remove all equipment from highway and remove traffic control devices. All work must stop at noon the day prior to a holiday and can resume the morning after a holiday. No work can take place after sunset or before sunrise without written permission from the District Permit Office Supervisor.

All work within the MnDOT District 4 Right-of–Way Clear Zone requires a minimum of a shoulder closure for your work zone. Work in the driving lane requires a full lane closure. No materials or equipment shall be left in the clear zone overnight. No staging of equipment or materials is allowed in MnDOT Right of Way.

Any Detour, Lane Closure, or other Traffic Control must follow the ***"Minnesota Temporary Traffic Control Zone Layouts Field Manual, January 2018 edition"***. If work is to be longer than 3 days permittee must adhere to the ***"Minnesota Uniform Traffic Control Devices"***. The proper layout to control traffic safely through your work area must be approved by District Permits Office prior to installation. Any detour, or restriction to traffic weight, height, or width, must be reported to the ***"MnDOT over Dimension Permits office***" at least 7 days before construction begins. The phone number is (800) 657-3877.

District 4 Right-of-way shall be restored to original grade including topsoil and seeding if needed. All repairs shall match in place materials. Any damage to turf or soil caused by the operation of removal of vegetation will be the responsibility of the applicant to repair to original condition. All rutting of the ground surface will be repaired. Any large areas of bare ground caused by the operation will require reseeding and mulching with MnDOT approved seed mixture 25141 general roadside mix or 35241 native area restoration mix. All bituminous or concrete cuts shall be smooth straight lines with square corners. All repairs shall match in place materials.

All work must meet the ***"MnDOT Utility Accommodation on Highway Right of Way Policy and Procedures"*** guidelines. The permittee is expected to design too and construct to the ***"MnDOT Utility Accommodation and Coordination Manual".*** If permittee fails to follow guidelines this could call for removal or modification of work to accommodate MnDOT policies. All work must conform to the ***"2020 MnDOT Standard Specifications for Construction Manual".***

Return a copy of the Utility Permit with the completion date to RW Permits, MnDOT District 4, 1000 West Highway 10, Detroit Lakes, MN 56501.

Link Below:

2018 Temporary Traffic Control Manual:
http://www.dot.state.mn.us/trafficeng/publ/fieldmanual/

Minnesota Manual on Uniform Traffic Control Devices:
http://www.dot.state.mn.us/trafficeng/publ/mutcd/index.html

MnDOT Utility Accommodation on Highway Right of Way Policy and Procedures:
http://www.dot.state.mn.us/policy/operations/op002.html

MnDOT Utility Accommodation and Coordination Manual:
http://dotapp7.dot.state.mn.us/cyberdocs_guest/autopapiact.asp?AppINT=-1&mode=no&autopapiurl=%2Fcyberdocs%5Fguest%2FLibraries%2FDefault%5FLibrary%2FGroups%2FGUESTS%2Fviewdocact%2Easp%3Flib%3DMNDOT%5FDOCS%26doc%3D1401425%26noframes%3Dyes&SCICO=false

District 4 Permit Review Response Form

Date: 4/8/2025

From: D4 PERMITS

Permit Number: 4-US-2025-113061 RECONSTRUTION OF CSAH 35 CS523 TH108 & CSAH35 MP31.598 FROM APPROX. 24'TO 75' FROM TH108 CL IN CITY DENT.

RE: Review Permit Application for Work in State Right of Way

This form is provided for the functional area groups within District 4 to review the permit application presented and respond with concerns/questions/recommendations prior to issuing the permit in question. Course of action needed:

- Review the application with plan sheets
- List questions/concerns/recommendations
- Sign this form and return to below listed permit writer
-

Functional Area: D4 MATERIALS AREA

Questions:PLEASE REVIEW	LOCTION AND WORK ON TH108 IN DENT. .
Concerns:	No concerns noted.
Recommendations	No recommended changes at this time.

Reviewer Name & Date: Nathan Bausman (4/9/25)

Return to: Daryn Minske

UTILITY PERMIT ON A LOCAL LET STATE AID PROJECT (Step 9 of Process)

Project Design or Construction Manager/Engineer to fill out and send to MnDOT Project Manager/State Aid Office who will forward to the MnDOT District permits office. Include with this form the application and project plan sheets (with stationing and MnDOT right of way) showing the proposed work.
******Anticipate 10 working days for processing******

STATE PROJECT & STATE AID PROJECT #s:

FEDERAL FUND INVOLVEMENT:

PERMIT APPLICANT: OTTER TAIL COUNTY

PERMIT # (if available): 4-US-2025-113061

FACILITY BEING INSTALLED: RECONSTUCT OF CSAH 35

LOCATION: CS5623 TH108 & CSAH35 MP31.598 FROM APPROX. 24'TO 75' N FROM TH108 CL IN CITY DENT

PROJECT APPROVAL AND ADDITIONAL COMMENTS:

IS MNDOT IN POSSESSION OF ALL RIGHT OF WAY FOR THIS PROJECT?
IF NOT PLEASE PROVIDE ANTICIPATED DATE OF POSSESSION:
(*Specifically where this utility is being placed, we can't issue a permit for a utility installation on property that is not in MnDOT's possession***)**

PROJECT DESIGN ENGINEER / CONSULTANT ENGINEER: Nick Anderson, Moore Engineering

CONSTRUCTION ENGINEER /PROJECT MANAGER: Bob Ehlert, Otter Tail County

PROJECT INSPECTOR AND CONTACT INFO: Bob Ehlert (218-770-0863 C)

MnDOT STATE AID PROJECT MANAGER: Nathan Gannon

MnDOT District Permit Contacts:

D1A: Shane Gries
D1B: Jeff Swenson
D2: Terry Condon
D2A: Tom Johnson
D2B: Brad Knudson
D3A: Rich Munsch
D3B: Jon Keranen
D4: John Gildersleeve
D6A: **Russ Smith**
D6B: Rick Songbusch
D7A: Steve Schoeb
D7B: Emily Eichner
D8: Jeff Illies
Metro: Buck Craig

5623 (108-206-21-1)
NEG.5
Martin J. Kelly, etal
Lot 4, Blk. 2, Thoelkes Add.
to Dent

5623 (108-206-21-1)
NEG.8
Lillian B. Quiram, etal.
Lot 3, Blk. 3, Thoelkes Add. to Village
of Dent

AMD. WIDTH ORDER NO. 58753
END ∠ ORDER № 13765
& WID. ORDER № 13766
S.P. 5623 (108-206) 901

Govt. Lot 10

5623 (108-206) 901
NEG.42
Security Mutual Life Ins. Co.
Pt. Govt. Lot 5, Sec. 28-136-40
1.93 Ac.

5623 (108-206) 901
NEG.45
A. J. Kaufman, etal.
Pt. Gov't. Lot 3, Sec. 28-136-40
0.20 Ac.

Govt. Lot 3

5623 (108-206) 901
NEG.47
The Church of Sacred Heart of Dent
Lot 2, Blk. 3, Thoelkes Add'n. to Dent

Reclamation and paving would begin approximately 24' north of the TH 108 centerline. Exact location will be based on pavement condition in the field.

Govt. Lot 5

VACATION ORDER NO. 15518

Old Lake Shore Line

Woods

Cultivated

CEMETERY

Swamp

Swamp- Hayland

Cultivated

Cultivated

Swamp

THOELKE'S

DENT

N.84°48'E.

S.84°49'E.

N.85°22'E.

Govt. Lot 4

Govt. Lot 5

Govt. Lot 1

5623 (108-206) 901
NEG.44
Kazimez Zawacike
NW1/4 NE1/4, Sec. 33-136-40
2.57 Ac.

5623 (108-206) 901
NEG.46
John Wonsiewicz, etal.
Pt. NE1/4 NE1/4, Sec. 33-136-40
3.18 Ac.

5623 (108-206-21-1)
NEG.1
Carl Tetzlaff
Pt. NE1/4 NE1/4, Sec. 33-136-40
0.33 Ac.

5623 (108-206) 901
NEG.43
Anna Cecelia Hammers, etal.
NE1/4 NW1/4, Sec. 33-136-40
1.68 Ac.

5623 (108-206) 901
NEG.49
School Dist. № 274
Pt. W1/2 NW1/4, Sec. 34-136-40
0.02 Ac.

5623 (108-206) 901
NEG.50
Bernice Oxley
Pt. NW1/4 NW1/4, Sec. 34-136-40

5623 (108-206) 901
NEG.51
Mathias J. Winkels
Pt. NW1/4 NW1/4, Sec. 34-136-40

5623 (108-206-21-1)
NEG.7
George D. Adrian
Pt. NW1/4 NW1/4, Sec. 34-136-40
2.20 Ac.

AMD. WID. ORDER № 14314

EQUATION

EQUATION

AMD. WID. ORDER № 14168

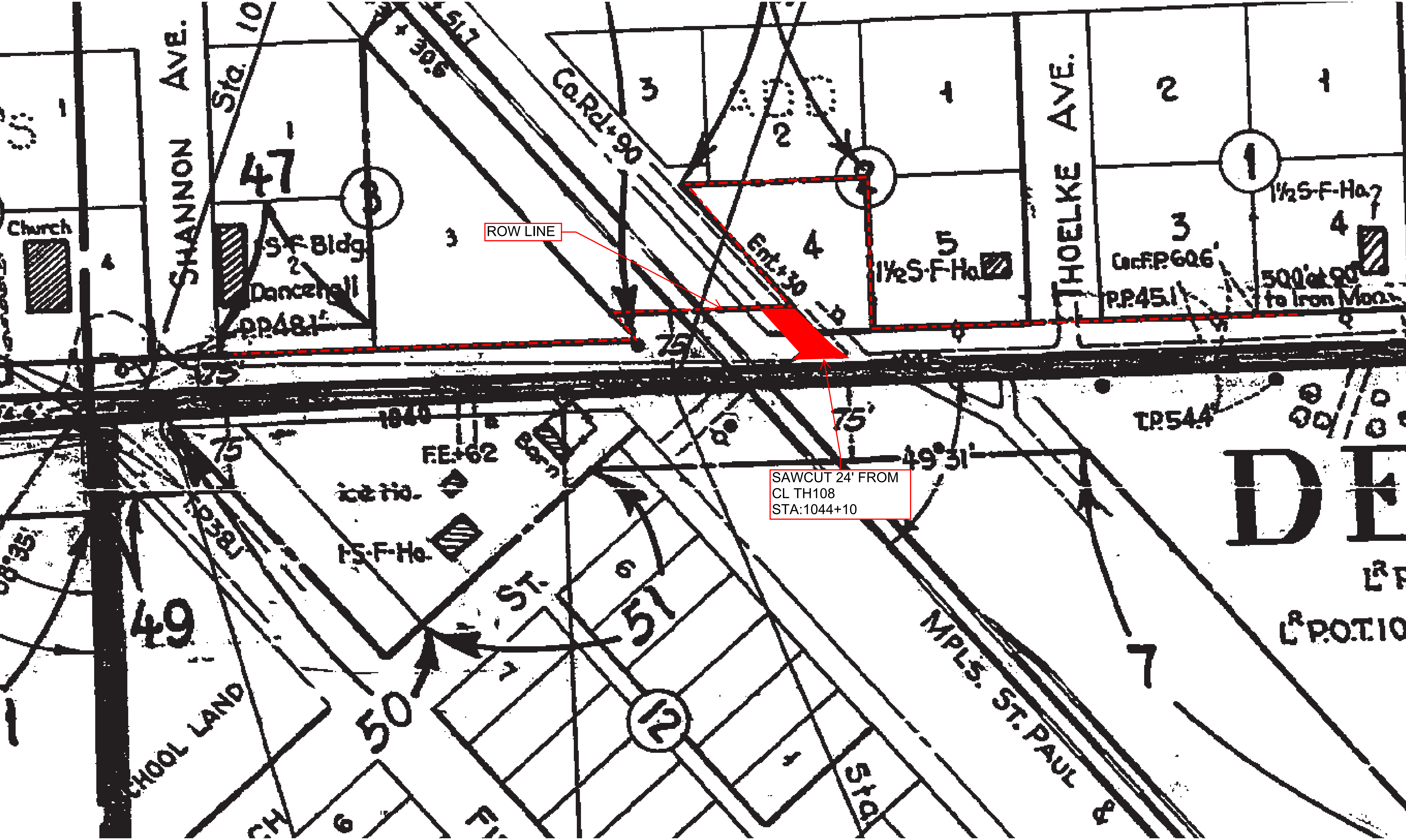
VACATION ORDER № 13964

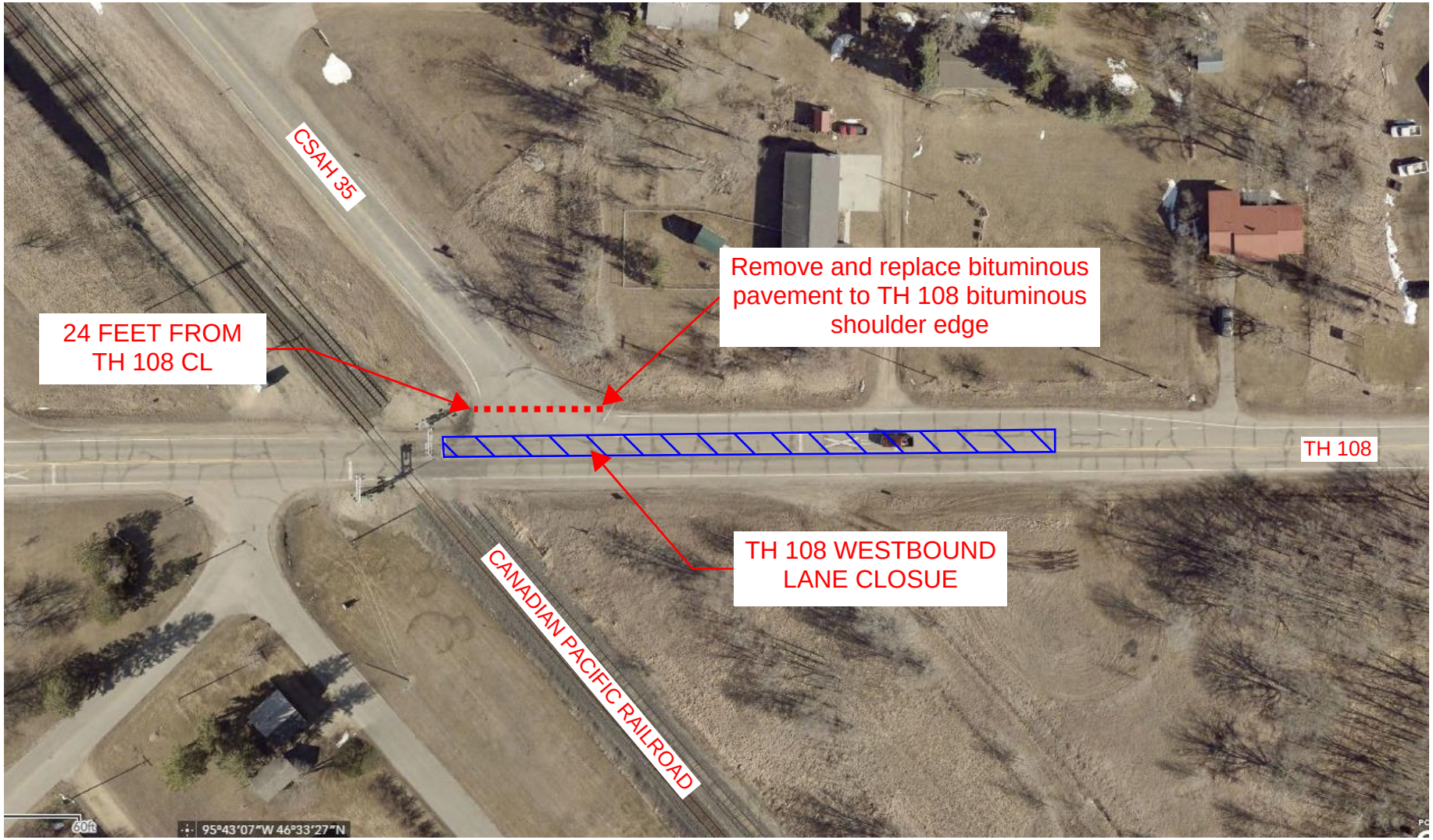
POR S.P. 5623 (108-206) 901

Mill L.

A.D.A.

TOWN


ROW LINE
SAWCUT 24' FROM
CL TH108
STA:1044+10
SHANNON AVE.
THOELKE AVE.
Church
1 S-F Bldg
Dancehall
P.P.48.1
Co.Rd.+90
Ent.+30
1½S-F-Ha.
Ctr.F.P.60.6'
P.P.45.1
500' at 90° to Iron Mon.
T.P.54.4
F.E.+62
Ice Hse.
1 S-F-Ho.
Barn
49°31'
ST.
MPLS. ST. PAUL
SCHOOL LAND
47
49
50
51
12
7
DE



Project to include the following:
1) Full Depth Reclamation
2) Stabilized Full Depth Relcamation
3) Bituminous Paving
4) Aggregate Shouldering
5) Pavement Markings
6) Turf Establishment

PLOTTED/REVISED: 02/18/24

MINNESOTA DEPARTMENT OF TRANSPORTATION
OTTER TAIL COUNTY, MN

CONSTRUCTION PLAN FOR FULL DEPTH RECLAMATION, GRADING, BITUMINOUS SURFACING

LOCATED ON C.S.A.H. 35 FROM MN. T.H. 108 TO C.S.A.H. 4

SECTIONS 7, 8, 9, 16, 17, 18, 21, 27, 28	TOWNSHIP 136N	RANGE 40W
SECTIONS 1, 2, 11, 12, 13, 14	TOWNSHIP 136N	RANGE 41W
SECTIONS 25, 36	TOWNSHIP 137N	RANGE 41W

S.A.P. NO. 056-635-043

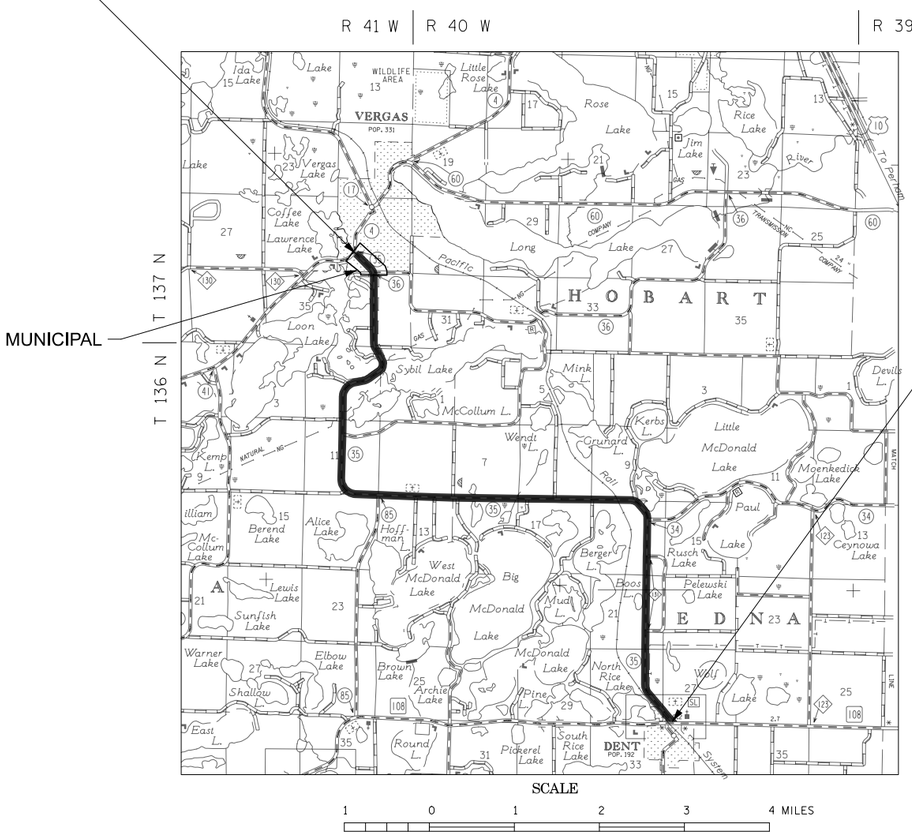
GROSS LENGTH	57,004.06	FEET	10.796 MILES
BRIDGES-LENGTH	0.00	FEET	0.000 MILES
EXCEPTIONS-LENGTH	0.00	FEET	0.000 MILES
NET LENGTH	57,004.06	FEET	10.796 MILES

N
W E
S
0 10,000
Scale in Feet

DESIGN DESIGNATION

Design ESALS 2045 = 467,000
ADT (Current Year) 2025 = 1433
ADT (Future Year) 2045 = 1476
R - VALUE = 36
ESALS = 629,000
DESIGN = 10 TON
DESIGN STANDARDS = 8820.9926
Design Speed Varies 30 MPH URBAN
55 MPH RURAL
Based on STOPPING Sight Distance
Height of eye 3.5' Height of object 2.0'
Design Speed not achieved at:
STA. 396+92.08 TO STA. 408+82.08 MPH 50
STA. 471+37.08 TO STA. 487+38.77 MPH 45
Functional Classification: Minor/Major Collector

END S.A.P. 056-635-043
STA. 580+08.43



GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST MMUTCD, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED, "STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES".

INDEX

THIS PLAN CONTAINS 117 SHEETS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: NICK ANDERSON LICENSE # 40100

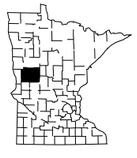
DATE: PRELIMINARY SIGNATURE

PROJECT MANAGER RYAN ODDEN

SCALES

PLAN	100'
PROFILE	100' HORIZ. / 10' VERT.
INDEX MAP	10,000'
GENERAL LAYOUT	500'

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY



PROJECT LOCATION
COUNTY : OTTERTAIL
DISTRICT : 4

ENVIRONMENT AND NATURAL RESOURCES TRUST FUND

moore engineering, inc.
Consulting Engineering • Land Surveying

RECOMMENDED FOR APPROVAL — KRYSTEN SAATELA FOSTER, OTTER TAIL COUNTY ENGINEER — DATE

REVIEWED FOR COMPLIANCE WITH STATE AID RULES/POLICY — DISTRICT STATE AID ENGINEER — DATE

APPROVED FOR STATE AID FUNDING — STATE AID ENGINEER — DATE

PATH & FILENAME: C:\Project Working Files\23544 - CSAH 35\23544_titlesheet.dgn

STATEMENT OF ESTIMATED QUANTITIES
S.A.P. 056-635-043

ITEM NO.	SHEET NO.	TAB.	SPEC NO.	DESCRIPTION		UNITS	PARTICIPATING MUNICIPAL	PARTICIPATING RURAL	TOTAL ESTIMATED QUANTITY
2			2021.501	MOBILIZATION		LUMP SUM	0.035	0.965	1
3	3,6	D,Q	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)		LIN FT	23	337	360
4	3	G	2104.503	REMOVE CATTLE PASS	1.	LIN FT		66	66
5	4	H,I	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		SQ YD	349	6806	7155
6	6	Q	2104.504	REMOVE BITUMINOUS PAVEMENT		SQ YD		341	341
7	3	F	2104.507	REMOVE AGGREGATE	(P) 2.	CU YD	525	9220	9745
8	3	A	2104.518	REMOVE CONCRETE WALK		SQ FT		339	339
9	6	L	2106.507	EXCAVATION - COMMON	(P)	CU YD	328	14918	15246
10	6	L	2106.507	GRANULAR EMBANKMENT (CV)	(P)	CU YD	244	6384	6628
11	6	L	2106.507	SELECT GRANULAR EMBANKMENT (CV)	(P)	CU YD		736	736
12	6	L	2106.507	COMMON EMBANKMENT (CV)	(P)	CU YD	249	14413	14662
13	6	L	2108.504	GEOTEXTILE FABRIC TYPE 5		SQ YD		220	220
14	4,6	H,I,M	2118.509	AGGREGATE SURFACING CLASS 1		TON	115	3127	3242
15	3,4,6	A,H,I,Q	2211.509	AGGREGATE BASE CLASS 5		TON	105	2028	2133
16	3	E	2215.504	FULL DEPTH RECLAMATION		SQ YD	10428	198946	209374
17	3	E	2215.504	STABILIZED FULL DEPTH RECLAMATION	3.	SQ YD	10428	198946	209374
18	3,4	B,H,I	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	4.	TON	795	17682	18477
19	3,4	B,H,I	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (3,C)	4.	TON	795	17682	18477
20	3	A	2521.518	6" CONCRETE WALK	5.	SQ FT		344	344
21	3	A	2531.618	TRUNCATED DOMES		SQ FT		36	36
22	3	C	2540.602	MAIL BOX SUPPORT	6.	EACH	1	40	41
23			2563.601	TRAFFIC CONTROL		LUMP SUM	0.035	0.965	1
24			2563.602	RAISED PAVEMENT MARKER TEMPORARY	7.	EACH	25	629	654
25	7	U	2564.518	SIGN PANELS TYPE C		SQ FT	12.5	37.5	50
26	7	R,S	2573.503	SILT FENCE, TYPE MS		LIN FT		10057	10057
27	7	R,S	2573.503	SEDIMENT CONTROL LOG TYPE WOOD CHIP		LIN FT		28481	28481
28	5	J,K	2574.505	SOIL BED PREPARATION		ACRE	0.2	12.4	12.6
29	5	J,K	2574.508	FERTILIZER TYPE 3		POUND	34	4320	4354
30	5	J,K	2574.508	FERTILIZER TYPE 4		POUND		2.0	2.0
31	5	J,K	2575.505	SEEDING		ACRE	0.2	12.4	12.6
32	5	J,K	2575.508	HYDRAULIC BONDED FIBER MATRIX		POUND	649	43361	44010
33	6	N,O,P	2575.523	RAPID STABILIZATION METHOD 3		M GALLON	1.5	73.9	75.4
34	5	J,K	2575.608	SEED MESIC INSLOPE		LB	12.0	711.5	723.5
35	5	J,K	2575.608	SEED WET DITCH		LB		1	1
36	5	J,K	2575.608	SEED SOUTHERN TALLGRASS ROADSIDE		LB	4.8	36.7	41.5
37	8	V	2580.503	INTERIM PAVEMENT MARKING	8.	LIN FT	150	4407	4557
38	8	V	2582.503	4" SOLID LINE MULTI-COMPONENT GROUND IN (WR)		LIN FT	975	22280	23255
39	8	V	2582.503	6" SOLID LINE MULTI-COMPONENT GROUND IN (WR)		LIN FT	3834	107615	111449
40	8	V	2582.503	4" BROKEN LINE MULTI-COMPONENT GROUND IN (WR)		LIN FT	195	8369	8564
41	8	V	2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT GROUND IN (WR)		LIN FT	1000	13075	14075
42	7	T	2582.503	24" SOLID LINE PREFORM TAPE GROUND IN		LIN FT	32	145	177
43	7	T	2582.518	PAVEMENT MESSAGE PREFORM TAPE GROUND IN		SQ FT	67	208	275
44	7	T	2582.518	CROSSWALK MULTI-COMPONENT GROUND IN (WR)		SQ FT		150	150

NOTE:

WHEN A (P) DESIGNATION IS PLACED ON AN INDIVIDUAL CONTRACT ITEM. THE PLAN DIMENSIONS ARE USED TO COMPUTE THE PAY QUANTITY FOR THAT ITEM OF WORK AND NO MEASUREMENTS WILL BE TAKEN IN THE FIELD.

ALL MATERIAL NOT UTILIZED ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R/W IN ACCORDANCE WITH SPEC 2104.

RECONSTRUCT ENTRANCES TO MATCH INPLACE DIMENSIONS AND MATERIAL. SEE TYPICAL DETAIL SHEET FOR ENTRANCE DEPTHS.

1. REMOVAL LENGTH INCLUDES CATTLE PASS APRONS.

2. REMOVED AGGREGATE IS QUANTIFIED AS REMOVAL OF 2" OF MATERIAL AFTER INITIAL FULL DEPTH RECLAMATION. REMOVED AGGREGATE MAY BE USED AS AGGREGATE SURFACING CLASS 1 AFTER SCREENING AND MEETING MNDOT SPEC. 2118.

3. BASE ONE STABILIZING AGENT OR EQUIVALENT TO BE USED.

4. TACK COATS SHALL USE SPEC. 2357 AND SHALL BE INCIDENTAL. QUALITY MANAGEMENT - E-TICKETING IS REQUIRED AND SHALL BE INCIDENTAL.

5. PLAN LEVEL 1 ADA DESIGN. CONTRACTOR TO FIELD DESIGN ADA RAMPS TO MEET DESIGN STANDARDS.

6. SEE BIDDER'S PROPOSAL FOR OTTER TAIL COUNTY MAILBOX SUPPORT DETAIL FOR SWING-AWAY TYPE POSTS.

7. MARKERS WILL BE PLACED EVERY 100' ON TANGENTS AND EVERY 50' ON CURVES.

8. INTERIM PAVEMENT MARKING WILL BE PLACED AT A 4/50 RATIO.

ALIGNMENT TABLE

EXISTING ALIGNMENT STATIONING	PROPOSED ALIGNMENT STATIONING
SOUTH ALIGNMENT	
0+00.00	10+00.00
27+60.55	37+60.55
BK 35+32.81	45+32.86
AH 35+40.35	45+32.86
73+20.36	83+12.82
126+06.82	135+99.28
152+44.01	162+36.47
MIDDLE ALIGNMENT	
219+56.41	162+36.47
212+98.17	168+94.70
206+63.92	175+28.96
199+64.72	182+28.16
171+76.45	210+16.42
145+62.71	236+30.16
119+48.92	262+43.95
93+28.16	288+64.72
81+52.44	300+40.43
64+55.53	317+37.34
46+15.40	335+77.47
19+55.80	362+37.07

ALIGNMENT TABLE

EXISTING ALIGNMENT STATIONING	PROPOSED ALIGNMENT STATIONING
NORTH ALIGNMENT	
10+00.00	362+37.07
25+82.90	378+19.98
42+83.94	395+21.02
58+27.61	410+64.68
84+80.19	437+17.27
100+57.72	452+94.80
115+65.45	468+02.52
121+43.36	473+80.44
126+05.02	478+42.09
134+78.13	487+15.20
BK 144+43.99	496+81.06
AH 143+87.30	496+81.06
143+87.32	496+81.08
152+10.62	505+04.39
157+85.61	510+79.37
180+81.60	533+75.37
BK 196+18.39	549+12.15
AH 366+00.00	549+12.15
373+72.90	556+85.06
BEGIN MUNICIPAL	
376+73.00	559+85.16
381+21.32	564+33.48
393+38.23	576+50.38
397+15.67	580+27.83
END 397+17.69	END 580+29.85

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVE BY THE MINNESOTA DEPARTMENT OF TRANSPORTATION & THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.*

PLATE NO.	DESCRIPTION
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
8000K	TEMPORARY CHANNELIZERS (3 SHEETS)

*MISCELLANEOUS DETAILS SHALL TAKE PRECEDENCE OVER STANDARD PLATES IF THERE ARE CONFLICTS

BASIS OF QUANTITIES

TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	115 POUNDS/SQUARE YARD*INCH
TYPE SP 12.5 WEARING COURSE MIXTURE (3,C)	115 POUNDS/SQUARE YARD*INCH
BITUMINOUS TACK COAT UNDILUTED (INCIDENTAL)	0.05 GALLON/SQUARE YARD
BITUMINOUS TACK COAT DILUTED (INCIDENTAL)	0.07 GALLON/SQUARE YARD
AGGREGATE SURFACING CLASS 1	1.823 TON/CUBIC YARD (CV)
AGGREGATE BASE CLASS 5	1.823 TON/CUBIC YARD (CV)
RAPID STABILIZATION METHOD 3	6 M GALLON/ACRE
MESIC INSLOPE (SEED)	65 POUNDS/ACRE
WET DITCH (SEED)	20 POUNDS/ACRE
SOUTHERN TALL GRASS ROADSIDE (SEED)	26 POUNDS/ACRE
FERTILIZER TYPE 3, ANALYSIS 22-5-10	350 POUNDS/ACRE
FERTILIZER TYPE 4, ANALYSIS 17-10-7	120 POUNDS/ACRE
HYDRAULIC BONDED FIBER MATRIX	3,500 POUNDS/ACRE

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PLOTTED/REVISED: 02/18/24

REVIEWER: NAA	DATE:	02/18/24	OTTER TAIL COUNTY MINNESOTA
DRAFTER: ARJ	DATE:	02/18/24	

moore engineering, inc.

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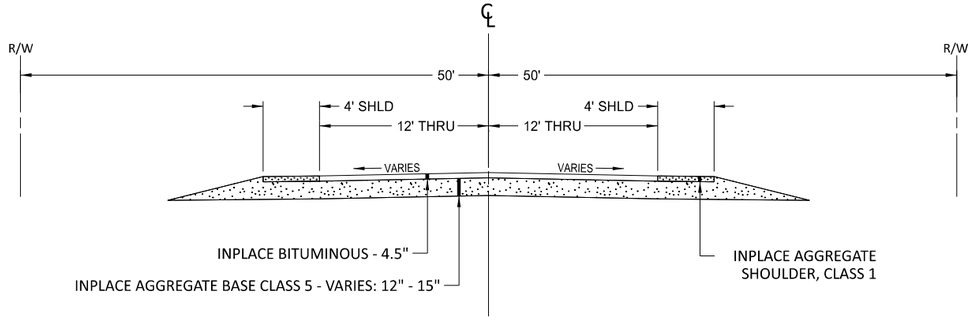
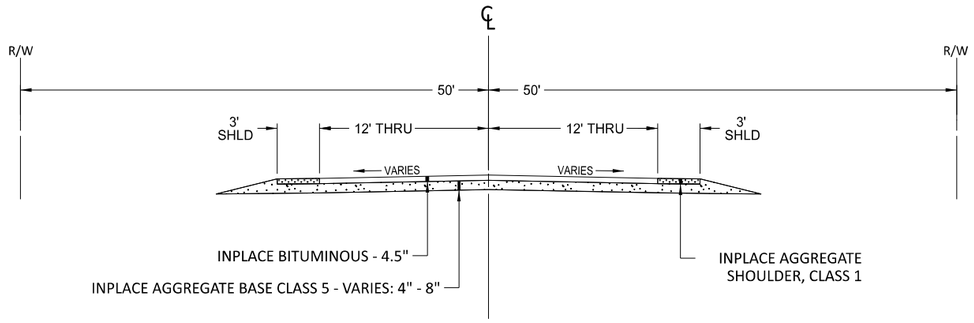
PRELIMINARY

NAME
SIGNATURE LIC. NO. DATE 02/18/24

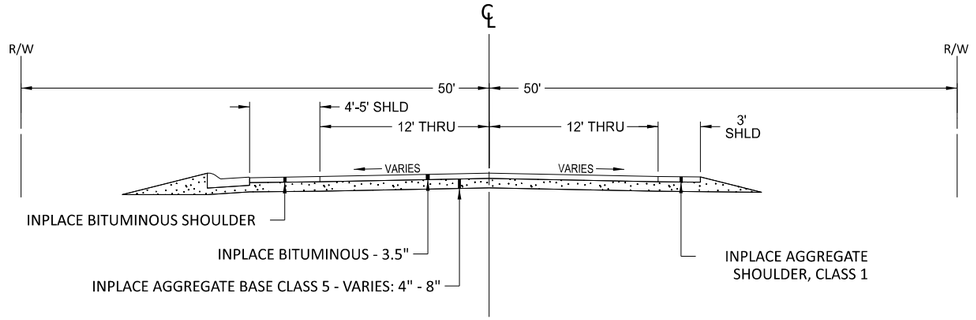
EXISTING TYPICAL SECTION
C.S.A.H. 35
STA 10+04.37 - STA 36+60.60
STA 46+40.40 - STA 162+36.47
STA 362+37.07 - STA 387+19.97
STA 406+20.97 - STA 461+94.77
STA 479+02.57 - STA 482+80.47
STA 489+42.07 - STA 496+15.17
STA 497+81.06 - STA 504+04.36
STA 511+79.36 - STA 549+12.15



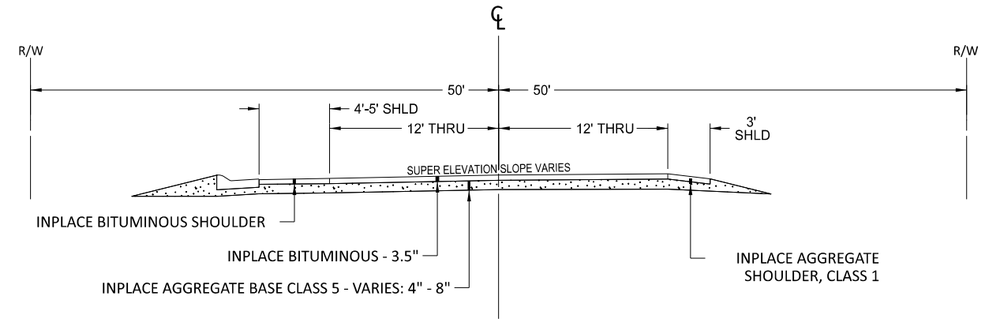
EXISTING TYPICAL SECTION
C.S.A.H. 35
STA 169+94.67 - STA 174+27.27
STA 209+77.87 - STA 227+30.77
STA 296+46.77 - STA 317+86.77
STA 324+91.77 - STA 349+11.77
STA 361+11.77 - STA 362+37.07



EXISTING TYPICAL SECTION
C.S.A.H. 35
STA 182+77.87 - STA 209+77.87
STA 227+30.77 - STA 296+46.77
STA 317+86.77 - STA 324+91.77
STA 349+11.77 - STA 361+11.77



EXISTING TYPICAL SECTION - SUPER ELEVATION & CURB SECTION
C.S.A.H. 35
STA 176+90.67 - STA 182+77.87



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NAME PRELIMINARY
SIGNATURE LIC. NO. DATE 02/18/24

TYPICAL SECTIONS

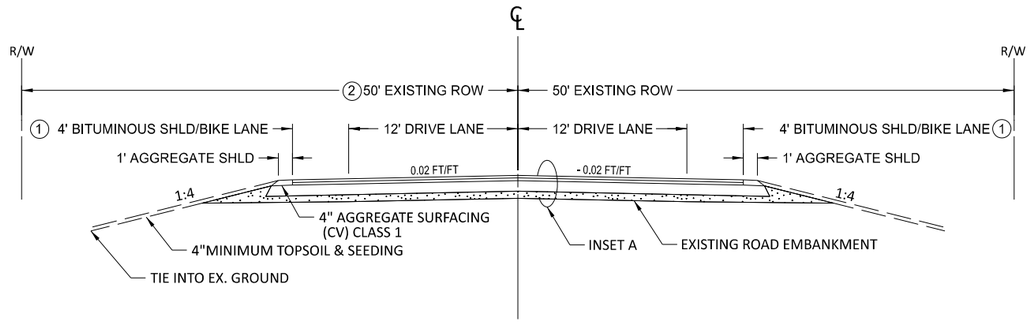
S.A.P. 056-635-043 C.S.A.H. 35 SHEET NO. 9 OF 124 SHEETS

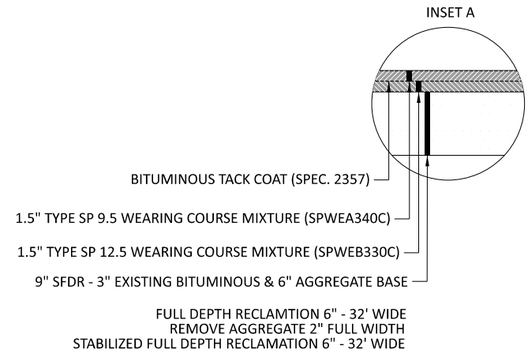
(1) BIKE LANE TO FOLLOW MN/DOT SPECIFICATIONS

(2)

MIN	MAX	OFFSET	WIDTH
10+60	37+60	LEFT	33'
37+60	39+43	LEFT	VAR. 33' TO 50'

PROPOSED TYPICAL SECTION - C.S.A.H. 35
TH 108 TO C.S.A.H. 34
STA 10+04.37 - STA 36+00.00
STA 47+00.00 - STA 160+00.00

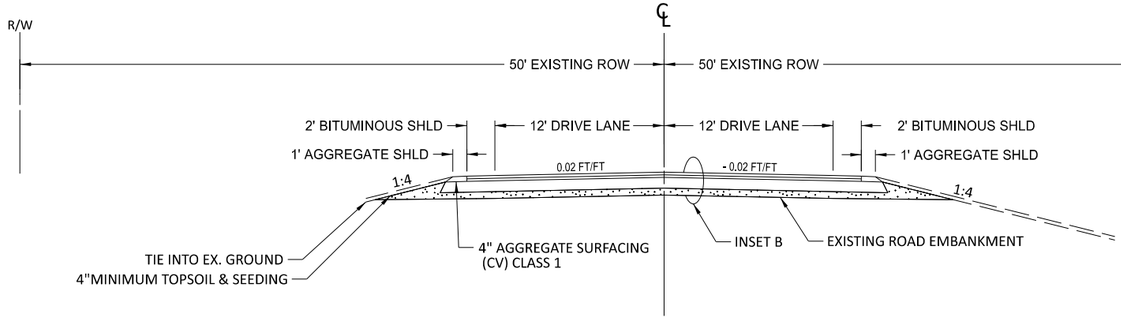


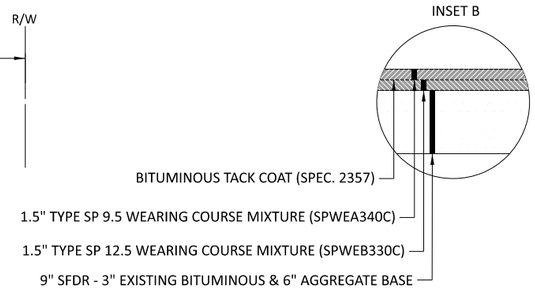


FULL DEPTH RECLAMTION 6" - 32' WIDE
REMOVE AGGREGATE 2" FULL WIDTH
STABILIZED FULL DEPTH RECLAMATION 6" - 32' WIDE

PROPOSED TYPICAL SECTION - C.S.A.H. 35
C.S.A.H. 34 TO 440TH ST

STA 172+69.05 - STA 174+61.00
STA 185+59.11 - STA 186+53.31
STA 189+50.65 - STA 190+64.54
STA 191+14.33 - STA 192+72.47
STA 196+97.21 - STA 198+03.86
STA 199+71.32 - STA 200+85.22
STA 202+53.15 - STA 203+67.11
STA 205+84.91 - STA 206+98.39
STA 209+51.15 - STA 226+27.81
STA 234+59.76 - STA 235+52.75
STA 237+33.66 - STA 238+46.72
STA 239+28.05 - STA 240+20.84
STA 240+89.80 - STA 241+52.56
STA 243+26.24 - STA 234+39.54
STA 251+77.79 - STA 252+92.36
STA 254+98.39 - STA 256+38.60
STA 261+02.90 - STA 261+96.22
STA 272+32.29 - STA 273+26.57
STA 279+34.96 - STA 280+28.66
STA 284+23.02 - STA 285+36.45
STA 296+85.70 - STA 317+63.31
STA 321+55.18 - STA 322+68.36
STA 324+75.14 - STA 349+14.19
STA 350+51.61 - STA 351+65.21
STA 358+81.73 - STA 359+75.04
STA 361+16.84 - STA 376+45.00





FULL DEPTH RECLAMTION 6" - 28' WIDE
REMOVE AGGREGATE 2" FULL WIDTH
STABILIZED FULL DEPTH RECLAMATION 6" - 28' WIDE

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PLOTTED/REVISED: 02/18/24

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DRAFTER: ARJ	DATE:	02/18/24	

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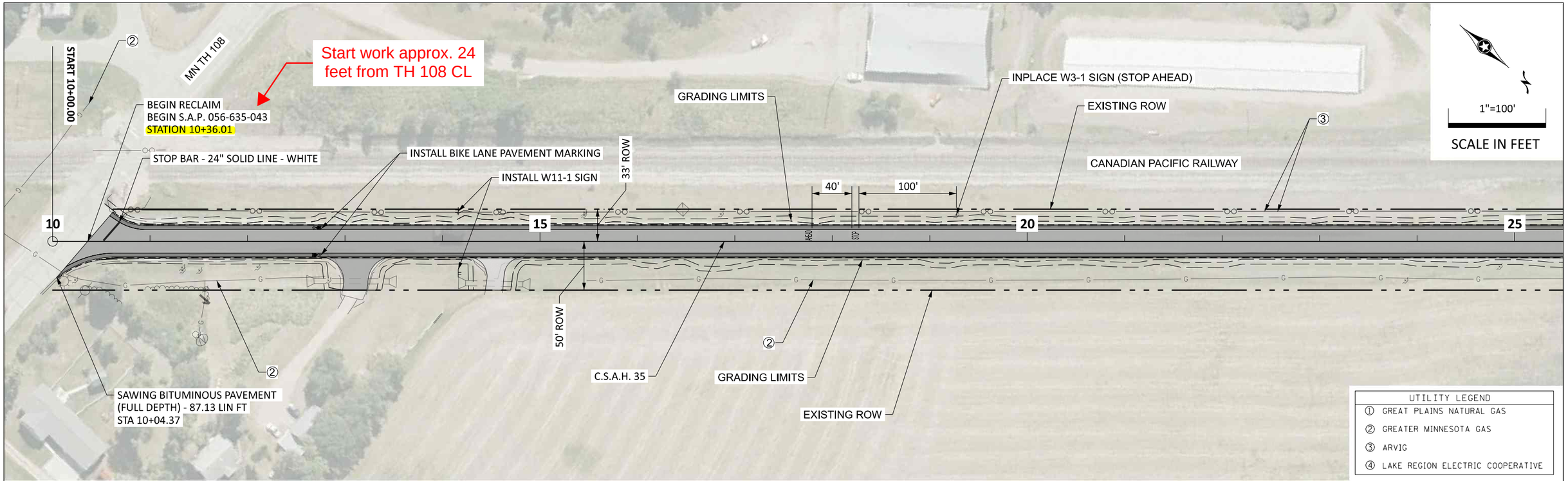
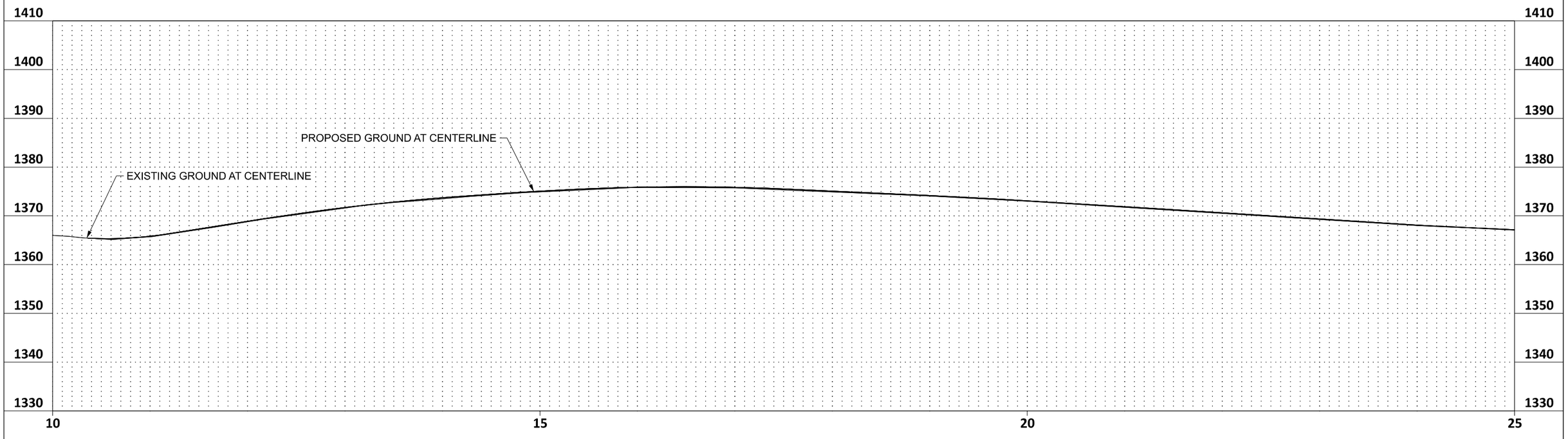
TYPICAL SECTIONS

S.A.P. 056-635-043 C.S.A.H. 35 SHEET NO. 11 OF 124 SHEETS





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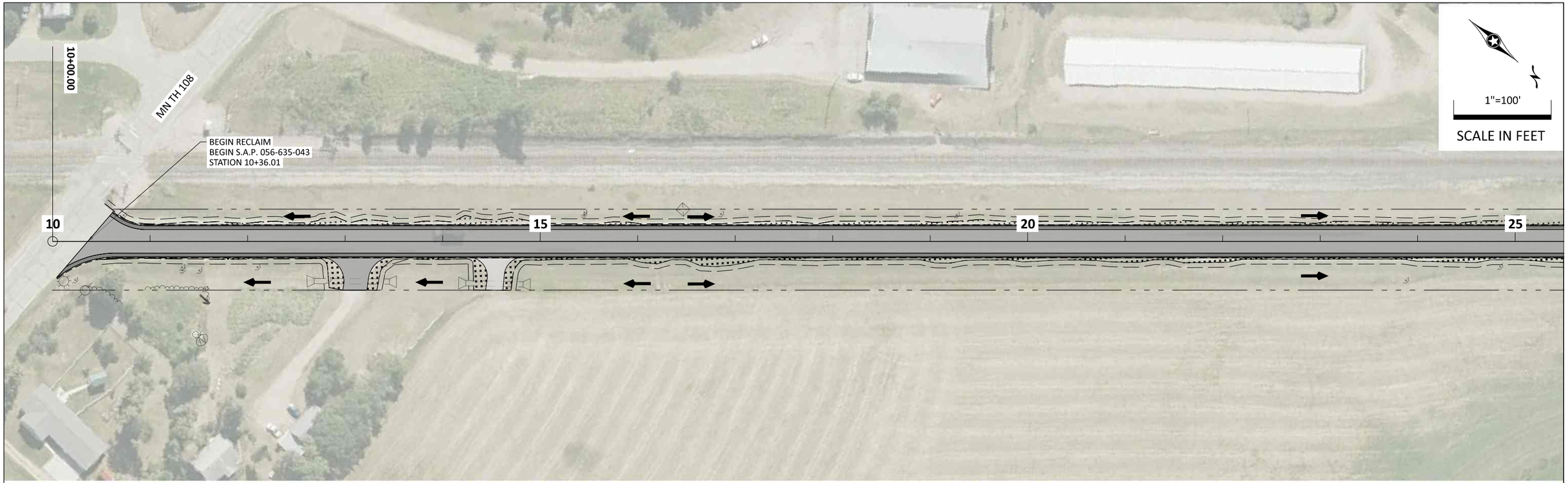
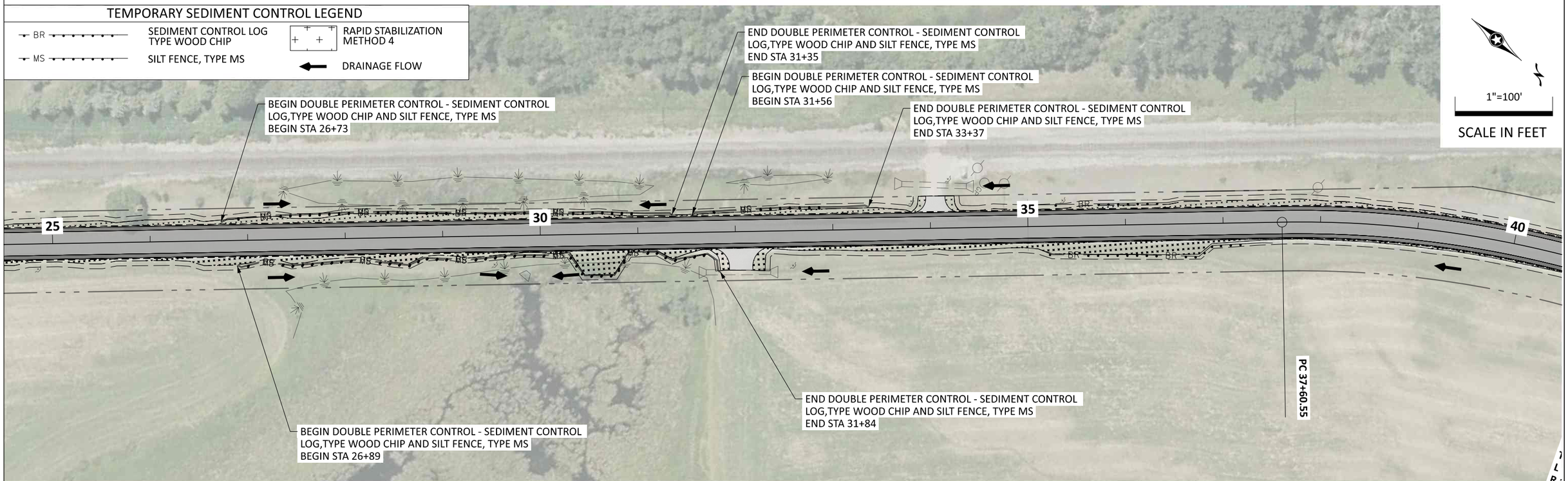
CONSTRUCTION PLAN & PROFILE - SOUTH

S.A.P. 056-635-043 C.S.A.H. 35 SHEET NO. 16 OF 124 SHEETS





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TEMPORARY EROSION CONTROL

S.A.P. 056-635-043 C.S.A.H. 35 SHEET NO. 77 OF 124 SHEETS

PERMANENT EROSION CONTROL LEGEND

SEEDING AREA HYDRAULIC BONDED FIBER MATRIX SEED NORTHWEST TALL- GRASS ROADSIDE FERTILIZER TYPE 1	SEEDING AREA HYDRAULIC BONDED FIBER MATRIX SEED WET DITCH FERTILIZER TYPE 4

PATH & FILENAME: C:\Project Working Files\23544 - CSAH 35\23544_ec-perm.dgn
PLOTTED/REVISED: 02/18/24

REVIEWER: NAA	DATE:	02/18/24	OTTER TAIL COUNTY MINNESOTA
DRAFTER: ARJ	DATE:	02/18/24	

moore engineering, inc.

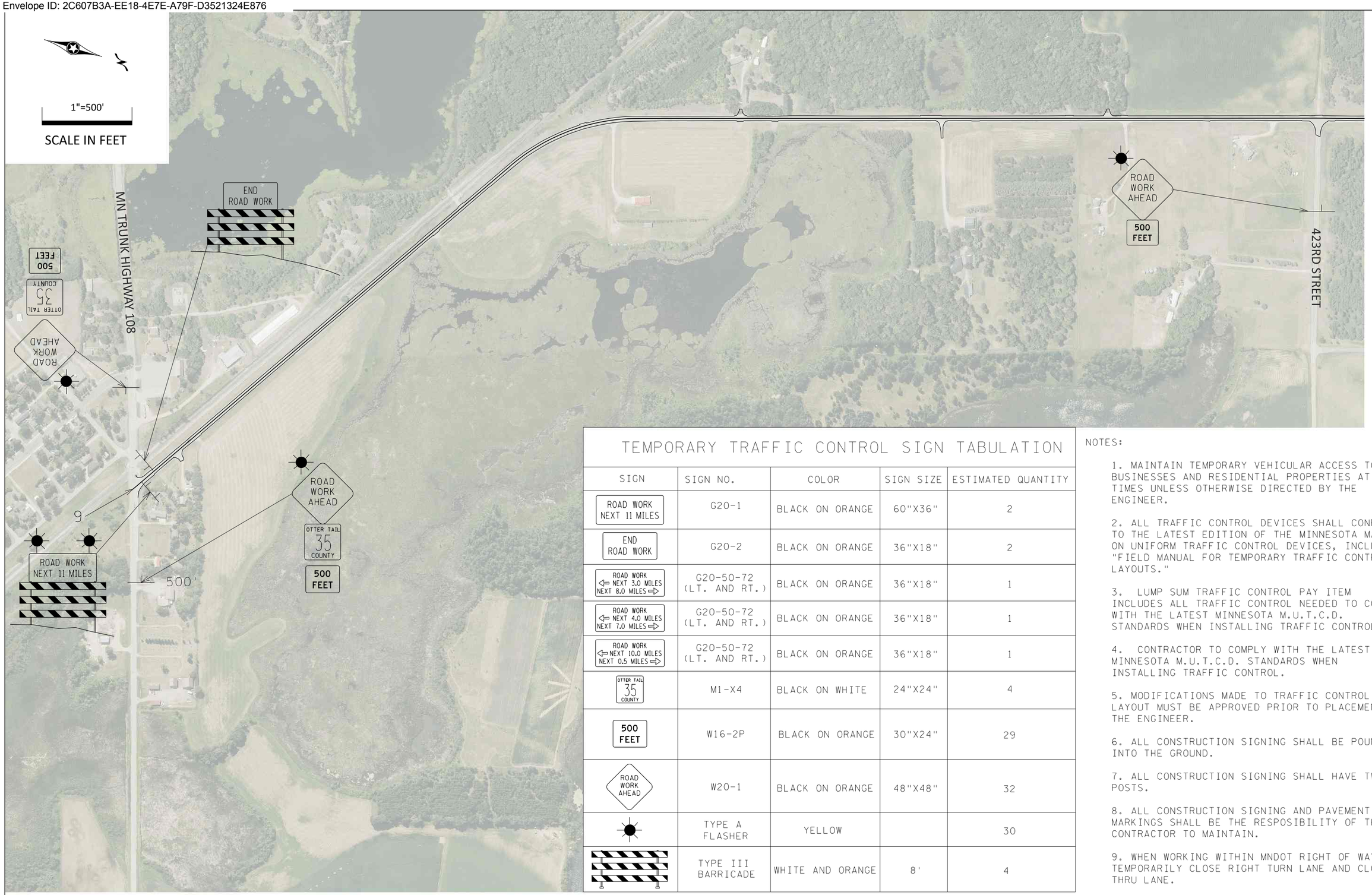
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NAME PRELIMINARY

SIGNATURE _____ LIC. NO. _____ DATE 02/18/24

PERMANENT EROSION CONTROL

S.A.P. 056-635-043 C.S.A.H. 35 SHEET NO. 96 OF 124 SHEETS



TEMPORARY TRAFFIC CONTROL SIGN TABULATION

SIGN	SIGN NO.	COLOR	SIGN SIZE	ESTIMATED QUANTITY
ROAD WORK NEXT 11 MILES	G20-1	BLACK ON ORANGE	60"X36"	2
END ROAD WORK	G20-2	BLACK ON ORANGE	36"X18"	2
ROAD WORK ⇦ NEXT 3.0 MILES NEXT 8.0 MILES ⇨	G20-50-72 (LT. AND RT.)	BLACK ON ORANGE	36"X18"	1
ROAD WORK ⇦ NEXT 4.0 MILES NEXT 7.0 MILES ⇨	G20-50-72 (LT. AND RT.)	BLACK ON ORANGE	36"X18"	1
ROAD WORK ⇦ NEXT 10.0 MILES NEXT 0.5 MILES ⇨	G20-50-72 (LT. AND RT.)	BLACK ON ORANGE	36"X18"	1
OTTER TAIL 35 COUNTY	M1-X4	BLACK ON WHITE	24"X24"	4
500 FEET	W16-2P	BLACK ON ORANGE	30"X24"	29
ROAD WORK AHEAD	W20-1	BLACK ON ORANGE	48"X48"	32
	TYPE A FLASHER	YELLOW		30
	TYPE III BARRICADE	WHITE AND ORANGE	8'	4

NOTES:

1. MAINTAIN TEMPORARY VEHICULAR ACCESS TO THE BUSINESSES AND RESIDENTIAL PROPERTIES AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

2. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL LAYOUTS."

3. LUMP SUM TRAFFIC CONTROL PAY ITEM INCLUDES ALL TRAFFIC CONTROL NEEDED TO COMPLY WITH THE LATEST MINNESOTA M.U.T.C.D. STANDARDS WHEN INSTALLING TRAFFIC CONTROL.

4. CONTRACTOR TO COMPLY WITH THE LATEST MINNESOTA M.U.T.C.D. STANDARDS WHEN INSTALLING TRAFFIC CONTROL.

5. MODIFICATIONS MADE TO TRAFFIC CONTROL LAYOUT MUST BE APPROVED PRIOR TO PLACEMENT BY THE ENGINEER.

6. ALL CONSTRUCTION SIGNING SHALL BE POUNDED INTO THE GROUND.

7. ALL CONSTRUCTION SIGNING SHALL HAVE TWO POSTS.

8. ALL CONSTRUCTION SIGNING AND PAVEMENT MARKINGS SHALL BE THE RESPOSIBILITY OF THE CONTRACTOR TO MAINTAIN.

9. WHEN WORKING WITHIN MNDOT RIGHT OF WAY, TEMPORARILY CLOSE RIGHT TURN LANE AND CLOSEST THRU LANE.

CONTROL

PATH & FILENAME: C:\Project Working Files\23544 - CSAH 35\23544_tc.dgn
PLOTTED/REVISED: 03/11/25

REVIEWER: NAA	DATE:	03/11/25	OTTER TAIL COUNTY MINNESOTA
DRAFTER: ARJ	DATE:	03/11/25	

moore engineering, inc.

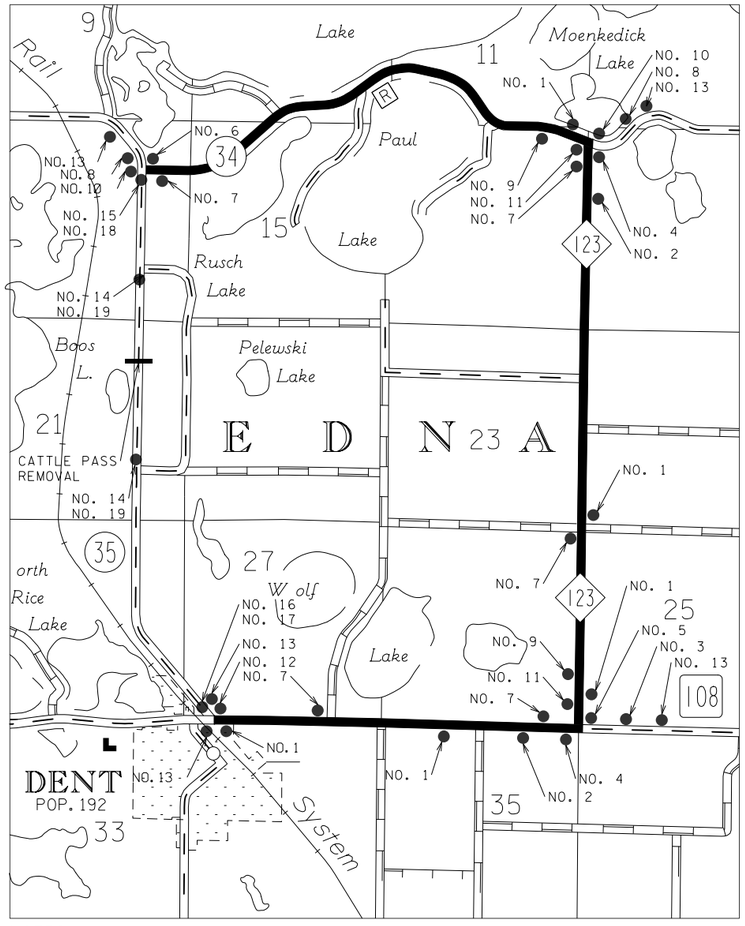
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NAME _____

SIGNATURE _____ LIC. NO. _____ DATE 03/11/25

TRAFFIC CONTROL

S.A.P. 056-635-043 C.S.A.H. 35 SHEET NO. 116 OF 124 SHEETS



NOTES:

DETOUR NOT TO BE INPLACE FOR MORE THAN 72 HOURS AND NOT TO BE INPLACE FOR WEEKEND.

ESTIMATED QUANTITIES DISPLAYED IN DETOUR SIGN TABULATION TABLES ARE SEPERATE AND IN ADDITION TO TEMPORARY TRAFFIC CONTROL SIGN TABULATION ON PROJECT TRAFFIC CONTROL SHEETS.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL LAYOUTS."

LUMP SUM TRAFFIC CONTROL PAY ITEM INCLUDES ALL TRAFFIC CONTROL NEEDED TO COMPLY WITH THE LATEST MINNEOSTA M.U.T.C.D. STANDARDS WHEN INSTALLING TRAFFIC CONTROL.

CONTRACTOR TO COMPLY WITH THE LATEST MINNESOTA M.U.T.C.D. STANDARDS WHEN INSTALLING TRAFFIC CONTROL.

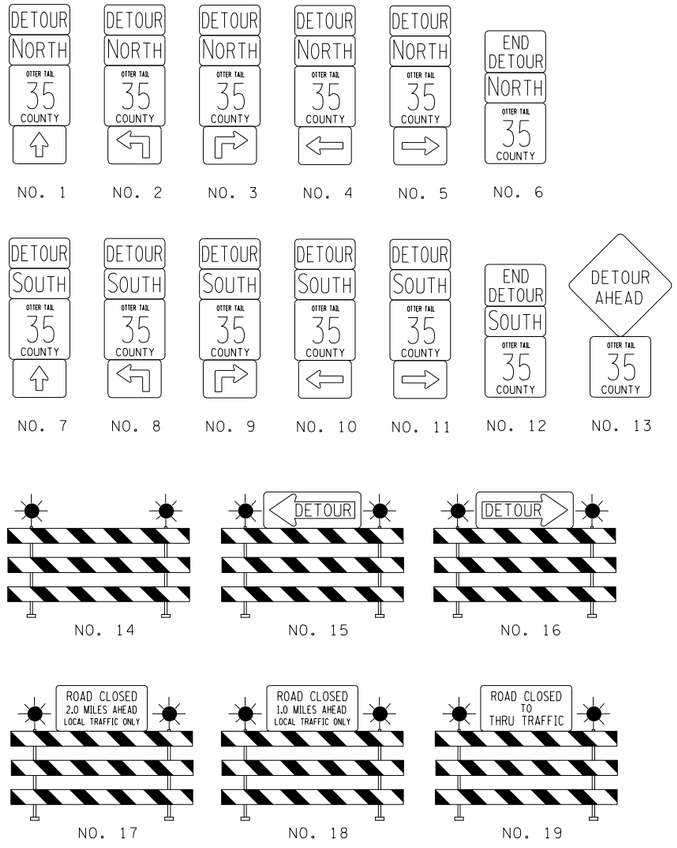
MODIFICATIONS MADE TO THE TRAFFIC CONTROL LAYOUT MUST BE APPROVED PRIOR TO PLACEMENT BY THE ENGINEER.

ALL CONSTRUCTION SIGNING SHALL BE POUNDED INTO THE GROUND.

ALL CONSTRICTION SIGNING SHALL HAVE TWO POSTS.

ALL CONSTRUCTION SIGNING AND PAVEMENT MARKINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN.

SIGN NO. 14 - 19 CAN BE PLACED ON SKIDS WITH MULTIPLE SAND BAG WEIGHTS.



DETOUR TRAFFIC CONTOL SIGN QUANTITIES

SIGN OR DEVICE	SIGN NO.	COLOR	SIZE	ESTIMATED QUANTITY
OTTER TAIL 35 COUNTY	M1-X4	BLACK ON WHITE	24"X24"	30
NORTH	M3-1	BLACK ON WHITE	24"X12"	12
SOUTH	M3-3	BLACK ON WHITE	24"X12"	14
DETOUR	M4-8	BLACK ON ORANGE	24"x12"	26
END DETOUR	M4-8a	BLACK ON ORANGE	24"X18"	2
	M5-1L	BLACK ON WHITE	21"X15"	4
	M5-1R	BLACK ON WHITE	21"X15"	3
	M6-1	BLACK ON WHITE	21"X15"	7
	M6-3	BLACK ON WHITE	21"X15"	10
DETOUR	M4-10L	BLACK ON ORANGE	48"X18"	1
DETOUR	M4-10R	BLACK ON ORANGE	48"X18"	1
ROAD CLOSED 1.0 MILES AHEAD LOCAL TRAFFIC ONLY	R11-3a	BLACK ON WHITE	60"X30"	1
ROAD CLOSED 2.0 MILES AHEAD LOCAL TRAFFIC ONLY	R11-3a	BLACK ON WHITE	60"X30"	1
ROAD CLOSED TO THRU TRAFFIC	R11-4	BLACK ON WHITE	60"X30"	2
DETOUR AHEAD	W20-2	BLACK ON ORANGE	48"X48"	4
	TYPE III BARRICADE	WHITE AND ORANGE	8'	8
	TYPE A FLASHER	YELLOW		16

PATH & FILENAME: C:\Project Working Files\23544 - CSAH 35\23544_tc.dgn
PLOTTED/REVISED: 04/16/25

REVIEWER: NAA	DATE: 04/16/25	OTTER TAIL COUNTY MINNESOTA	moore engineering, inc.
DRAFTER: ARJ	DATE: 04/16/25		

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

NAME NICHOLAS A. ANDERSON

SIGNATURE Nicholas A. Anderson LIC. NO. 40100 DATE 04/16/25

MINNESOTA POLLUTION CONTROL AGENCY

AUTHORIZATION TO DISCHARGE

STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY

UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)/

STATE DISPOSAL SYSTEM (SDS) PROGRAM

C00071668

Permittee (Owner):	Otter Tail County Highway Department
Permittee (Operator):	Otter Tail County Highway Department
Project Name:	SAP 056-635-043_CSAH 35 Resurfacing
City or Township:	Edna Township, **County:** Otter Tail
Location description:	CSAH 35 from TH 108 (Dent) to CSAH 4 (Vergas)
Issuance date:	March 27, 2025
Expiration date:	July 31, 2028

The state of Minnesota, on behalf of its citizens through the Minnesota Pollution Control Agency (MPCA), authorizes the Permittee(s) named above seeking coverage under this general permit to discharge stormwater associated with construction activity to waters of the state of Minnesota in accordance with the requirements of this permit.

The goal of this permit is to reduce pollutant levels in point source discharges and protect water quality in accordance with the U.S. Clean Water Act, Minnesota statutes and rules, and federal laws and regulations.

This permit is effective on the issuance date identified above. This permit expires at midnight on the expiration date identified above.

Signature: Ryan Anderson

This document has been electronically signed.

for the Minnesota Pollution Control Agency

Ryan Anderson
Manager
Stormwater Section
Municipal Division

Permit application:
Submit via MPCA e-Services at
https://rsp.pca.state.mn.us/

Questions on this permit?
Contact e-Services at
651-757-2728 or 844-828-0942

Table of Contents

1.1	**Permit Coverage**. [Minn. R. 7090]
1.2	This permit is required for construction activity that results in land disturbance of equal to or greater than one (1) acre or if a project is part of a common plan of development or sale that ultimately will disturb greater than one (1) acre, and authorizes, subject to the terms and conditions of this permit, the discharge of stormwater associated with construction activity. [Minn. R. 7090]
1.3	Construction activity covered by this permit cannot commence until coverage under this permit is effective as described in item 3.3 through 3.4 or, if applicable, until the Minnesota Pollution Control Agency (MPCA) has issued an individual National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) construction stormwater permit for the project. [Minn. R. 7090]
1.4	This permit covers all areas of the State of Minnesota except land wholly within the boundaries of a federally recognized Indian Reservation owned by a tribe or a tribal member or land held in trust by the federal government for a tribe or tribal member. [Minn. R. 7090]
1.5	Coverage under this permit is not required when all stormwater from construction activity is routed directly to and treated by a "treatment works," as defined in Minn. Stat. Section 115.01, subd. 21, operated under an individual NPDES/SDS permit with a Total Suspended Solids (TSS) effluent limit. [Minn. R. 7090]
1.6	This permit covers ongoing projects covered under any previous construction stormwater permit that are not complete on the issuance date of this permit. Permittees must either remain in compliance with the previous permit and terminate coverage within 18 months of the issuance date of this permit or comply with this permit, including updating the Stormwater Pollution Prevention Plan (SWPPP), within the 18-month period. Permittees of previously permitted projects are not required to incorporate any additional requirements regarding the permanent stormwater treatment system included in this reissued permit. [Minn. R. 7090]
1.7	Coverage for projects that extend beyond the expiration date of this permit remains effective for a grace period of 18 months. If Permittees cannot complete projects during the grace period, the MPCA will extend coverage under the next permit and permittees must comply with the requirements of the new permit including updating the SWPPP. Permittees are not required to follow changes to the permanent stormwater treatment section of the next permit. [Minn. R. 7090]
2.1	**Prohibitions and Limitations of Coverage**. [Minn. R. 7090]
2.2	The owner must develop a complete and accurate SWPPP that complies with item 5.2 prior to submitting the application for coverage and starting construction activity. Failure to prepare a SWPPP prior to submitting the application may result in permit revocation. [Minn. R. 7090]
2.3	This permit prohibits discharges of any material other than stormwater treated in compliance with this permit and discharges from dewatering or basin draining activities in accordance with Section 10. Prohibited discharges include, but are not limited to, wastewater from washout of concrete, stucco, paint, form release oils, curing compounds and other construction materials, fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance, soaps or solvents used in vehicle and equipment washing and maintenance, and other hazardous substances or wastes. [Minn. R. 7090]
2.4	This permit does not authorize stormwater discharges related to the placement of fill into waters of the state requiring local, state or federal authorizations (such as U.S. Army Corps of Engineers Section 404 permits, Minnesota Department of Natural Resources (DNR) Public Waters Work permits or local governmental unit (LGU) Wetland Conservation Act replacement plans or determinations). [Minn. R. 7090]
2.5	This permit does not authorize stormwater discharges associated with industrial activity except for construction activity. Permittees must obtain coverage for discharges associated with industrial activity under a separate NPDES/SDS permit once day-to-day operational activities commence even if construction is ongoing. [Minn. R. 7090]
2.6	This permit does not authorize discharges from non-point source agricultural and silvicultural activities excluded from NPDES permit requirements under 40 CFR pt. 122.3(e). [Minn. R. 7090]
2.7	This permit does not authorize stormwater discharges to Prohibited, Restricted, Special or Impaired waters unless permittees follow the additional stormwater requirements in Section 23. [Minn. R. 7090]
2.8	This permit does not replace or satisfy any environmental review requirements including those under the Minnesota Environmental Policy Act or the National Environmental Policy Act. The owner must verify completion of any environmental review required by law, including any required Environmental Assessment Work Sheets or Environmental Impact Statements, Federal environmental review, or other required review prior to applying for coverage under this permit. If any part of your common plan of development or sale requires environmental review, coverage under this permit cannot be

	obtained until such environmental review is complete. [Minn. R. 7090]
2.9	This permit does not replace or satisfy any review requirements for discharges adversely impacting State or Federally designated endangered or threatened species or a designated critical habitat. The owner must comply with the National Historic Preservation Act and conduct all required review and coordination related to historic preservation, including significant anthropological sites and any burial sites, with the Minnesota Historic Preservation Officer. [Minn. R. 7090]
2.10	This permit does not authorize discharges to wetlands unless the permittee complies with the requirements in Section 22. Coverage under this permit cannot be issued until the requirements for wetland permits, decisions, other determinations, or the mitigative sequence required in section 22 have been finalized and documented. [Minn. R. 7050.0186]
3.1	**Application and Coverage Effective Date**. [Minn. R. 7090]
3.2	The owner and operator must submit a complete and accurate on-line application with the appropriate fee to the MPCA for each project that disturbs one (1) or more acres of land or for a common plan of development or sale that will ultimately disturb one (1) or more acres. [Minn. R. 7090]
3.3	For projects or common plans of development or sale that disturb less than 50 acres or do not discharge stormwater within 1 mile (aerial radius measurement) of a special or impaired water, permittees do not need to submit the SWPPP with the application. Permit coverage for these projects is effective upon application and completing the payment process. [Minn. R. 7090]
3.4	For certain projects or common plans of development or sale disturbing 50 acres or more, the complete SWPPP must be included with the application and submitted at least 30 days before the start of construction activity. This applies if there is a discharge point on the project within one mile (aerial radius measurement) of, and flows to, a special water listed in item 23.3 through 23.6 or an impaired water as described in item 23.7. Permit coverage for these projects is effective upon submitting the application and complete SWPPP, completing the payment process and receiving a determination from the MPCA that the review of the SWPPP is complete. The determination may take longer than 30 days if the SWPPP is incomplete. If the MPCA fails to contact the permittees within 30 days of application receipt, coverage is effective 30 days after completing the payment process. [Minn. R. 7090]
3.5	The application requires listing all persons meeting the definition of owner and operator as permittees. The owner is responsible for compliance with all terms and conditions of this permit. The operator is responsible for compliance with Sections 3, 4, 6-22, 24 and applicable requirements for construction activity in Section 23. [Minn. R. 7090]
3.6	Permittees will receive coverage notification in a manner determined by the MPCA. [Minn. R. 7090]
3.7	For construction projects where the owner or operator changes (e.g., an original developer sells portions of the property to various homebuilders or sells the entire site to a new owner), the current owner and the new owner or operator must submit a complete permit modification form provided by the MPCA. The current owner and the new owner or operator must submit the form prior to the new owner or operator commencing construction activity or no later than 30 days after taking ownership of the property. [Minn. R. 7090]
3.8	For construction projects where the owner or operator changes, the current owner must provide a SWPPP to the new owner and operator that specifically addresses the remaining construction activity. The new owner or operator can implement the original SWPPP, modify the SWPPP, or develop a new SWPPP. Permittees must ensure their activities do not render another party's erosion prevention and sediment control BMPs ineffective. [Minn. R. 7090]
4.1	**Termination of Coverage**. [Minn. R. 7090]
4.2	Permittees must submit a NOT within 30 days after all termination conditions listed in Section 13 are complete. [Minn. R. 7090]
4.3	Permittees must submit a NOT within 30 days after selling or otherwise legally transferring the entire site, including permit responsibility for roads (e.g., street sweeping) and stormwater infrastructure final clean out, or transferring portions of a site to another party. The permittees' coverage under this permit terminates at midnight on the submission date of the NOT. [Minn. R. 7090]
4.4	Permittees may terminate permit coverage prior to completion of all construction activity if they meet all of the following conditions: a. construction activity has ceased for at least 90 days; and b. at least 90 percent (by area) of all originally proposed construction activity has been completed and permanent cover has been established on those areas; and c. on areas where construction activity is not complete, permanent cover has been established; and d. the site complies with item 13.3 through 13.7.

	After permit coverage is terminated under this item, any subsequent development on the remaining portions of the site will require permit coverage if the subsequent development itself or as part of the remaining common plan of development or sale will result in land disturbing activities of one (1) or more acres in size. [Minn. R. 7090]
4.5	Permittees may terminate coverage upon MPCA approval after submitting information documenting the owner cancelled the project. [Minn. R. 7090]
5.1	**Stormwater Pollution Prevention Plan (SWPPP) Content**. [Minn. R. 7090]
5.2	The owner must develop and implement a SWPPP. The SWPPP must include items 5.3 through 5.26. [Minn. R. 7090]
5.3	The SWPPP must incorporate specific Best Management Practices (BMP) used to comply with the requirements of this permit. [Minn. R. 7090]
5.4	The SWPPP must include a narrative describing the timing for installation of all erosion prevention and sediment control BMPs and a description of the permanent stormwater treatment systems. [Minn. R. 7090]
5.5	The SWPPP must include the location and type of all temporary and permanent erosion prevention and sediment control BMPs along with procedures used to establish additional temporary BMPs as necessary for the site conditions during construction. Standard details and/or specifications for BMPs must be included in the final plans and specifications for the project. [Minn. R. 7090]
5.6	The SWPPP must include the calculations and other information used for the design of temporary sediment basins and any of the permanent stormwater treatment systems required in Section 15. [Minn. R. 7090]
5.7	The SWPPP must include estimated quantities anticipated at the start of the project for the life of the project for all erosion prevention and sediment control BMPs (e.g., linear feet of silt fence or square feet of erosion control blanket). [Minn. R. 7090]
5.8	The SWPPP must include the number of acres of impervious surface for both pre- and post-construction. [Minn. R. 7090]
5.9	The SWPPP must include a site map with existing and final grades, including drainage area boundaries, directions of flow and all discharge points where stormwater is leaving the site or entering a surface water. The site map must indicate the areas of steep slopes. The site map must also include impervious surfaces, soil types and locations of potential pollutant-generating activities as identified in Section 12. [Minn. R. 7090]
5.10	The SWPPP must include a map of all surface waters, existing wetlands, and stormwater ponds or basins that can be identified on maps such as United States Geological Survey 7.5-minute quadrangle maps, the National Wetland Inventory map or equivalent maps and are within one mile (aerial radius measurement) from the project boundaries that will receive stormwater from the construction site, during or after construction. The SWPPP must identify if the surface waters are special or impaired waters. [Minn. R. 7090]
5.11	The SWPPP must include a site map showing construction activity areas that are adjacent to and drain to Public Waters for which the DNR has promulgated "work in water restrictions" during specified fish spawning time frames. [Minn. R. 7090]
5.12	Permittees must identify locations of 50' buffer zones as required in item 9.17 and 100' permanent buffer zones as required in item 23.11, on plan sheets in the SWPPP. [Minn. R. 7090]
5.13	If permittees determine compliance with the following requirements is infeasible, they must document the determination in the SWPPP: a. temporary sediment basins as described in Section 14; and b. for linear projects, if the permanent stormwater treatment system cannot be constructed within the right-of-way, a reasonable attempt must be made to obtain additional right-of-way (item 15.9); and c. buffer zones as described in item 9.17 and item 23.11. [Minn. R. 7090]
5.14	If permittees determine that a temporary sediment basin is infeasible as described in item 14.10, the SWPPP must describe the alternative BMPs used. [Minn. R. 7090]
5.15	Where systems cannot meet the full volume reduction requirement on-site, (e.g., the site has infiltration prohibitions, see item 16.14 through item 16.21) the permittee must document the reasons in the SWPPP. [Minn. R. 7090]
5.16	The SWPPP must include any stormwater mitigation measures proposed to be part of the final project in any environmental review document, endangered species review, archeological or other required local, state or federal review conducted for the project. For purposes of this permit, mitigation measures mean actions necessary to avoid, minimize, or mitigate for impacts related to erosion prevention, sediment control, the permanent stormwater treatment system, pollution prevention management measures and discharges associated with the project's construction activity. [Minn. R. 7090]

5.17	The SWPPP must describe the methods used for permanent cover of all exposed soil areas. [Minn. R. 7090]
5.18	Permittees must identify the locations of areas where construction will be phased to minimize the duration of exposed soil areas in the SWPPP. [Minn. R. 7090]
5.19	For projects with a discharge point on the project within one (1) mile (aerial radius measurement) of and which flows to an impaired water, permittees must identify the impaired water(s), and any United States Environmental Protection Agency (USEPA)-approved Total Maximum Daily Load (TMDL) for the pollutant(s) or stressor(s) described in item 23.7. Permittees' identification must include those TMDLs approved at any time prior to permit application submittal and are still in effect. [Minn. R. 7090]
5.20	Permittees must document in the SWPPP, all trained individuals identified in item 21.2. Documentation must include: a. names of personnel required to be trained; and b. dates of training and name of instructor(s) and entity providing training; and c. content of training course. If permittees do not know the names of the individuals at the time of application, the permittees must ensure they document training before construction activity commences. [Minn. R. 7090]
5.21	The SWPPP must identify a person knowledgeable and experienced in the application of erosion prevention and sediment control BMPs who will coordinate with all contractors, subcontractors, and operators on-site to oversee the implementation of the SWPPP. [Minn. R. 7090]
5.22	The SWPPP must describe any specific chemicals and chemical treatment systems used for enhancing the sedimentation process and how it achieves compliance with item 9.19. [Minn. R. 7090]
5.23	The SWPPP must identify the person(s), organizations, or entities responsible for long-term operation and maintenance of permanent stormwater treatment systems. [Minn. R. 7090]
5.24	The SWPPP must describe methods to minimize soil compaction and preserve topsoil. Minimizing soil compaction is not required where the function of a specific area dictates compaction. [Minn. R. 7090]
5.25	The SWPPP must include any site assessments for groundwater or soil contamination required in item 16.15. [Minn. R. 7090]
5.26	The SWPPP must account for the following factors in designing temporary erosion prevention and sediment control BMPs: a. the expected amount, frequency, intensity, and duration of precipitation; and b. the nature of stormwater runoff and run-on at the site, including factors such as expected flow from impervious surfaces, slopes, and site drainage features; and c. the stormwater volume, velocity, and peak flowrates to minimize discharge of pollutants in stormwater and to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points; and d. the range of soil particle sizes expected to be present. [Minn. R. 7090]
6.1	**SWPPP Amendments**. [Minn. R. 7090]
6.2	One of the individuals described in item 21.2.a or item 21.2.b or another qualified individual must complete all SWPPP changes. Changes involving the use of a less stringent BMP must include a justification describing how the replacement BMP is effective for the site characteristics. [Minn. R. 7090]
6.3	Permittees must amend the SWPPP within 7 days to include additional or modified BMPs whenever there is a change in design, construction, operation, maintenance, weather or seasonal conditions having a significant effect on the discharge of pollutants to surface waters or groundwater. [Minn. R. 7090]
6.4	Permittees must amend the SWPPP within 7 days to include additional or modified BMPs whenever inspections or investigations by the site owner or operator, USEPA or MPCA officials indicate the SWPPP is not effective in eliminating or significantly minimizing the discharge of pollutants to surface waters or groundwater or the discharges are causing water quality standard exceedances (e.g., nuisance conditions as defined in Minn. R. 7050.0210, subp. 2) or the SWPPP is not consistent with the objectives of a USEPA approved TMDL. [Minn. R. 7050.0210]
7.1	**BMP Selection and Stormwater Management**. [Minn. R. 7090]
7.2	Permittees must select, install, and maintain the BMPs identified in the SWPPP and in this permit in an appropriate and functional manner and in accordance with relevant manufacturer specifications and accepted engineering practices to minimize the discharge of pollutants in stormwater from construction activities. Examples of stormwater management practices for this section include but are not limited to wet sedimentation basins, temporary depressions to hold

	stormwater, stormwater routing, dikes, berms, pumping, and stormwater treatment BMPs. Permittees must phase and incorporate stormwater management principles as the construction progresses. Unless infeasible, temporary or permanent wet sedimentation basins (when required, see section 14 and 15) should be constructed as a first step in the process and stormwater routed to these. [Minn. R. 7090]
7.3	Permittees must not disturb more land (i.e., phasing) than can be effectively inspected and maintained in accordance with Section 11. [Minn. R. 7090]
7.4	If permittees will be using some type of erosion control netting on the site as part of the soil stabilization techniques, permittees are encouraged to use products that have been shown to minimize impacts on wildlife. The U.S. Fish & Wildlife Service recommends using types of netting practices that are considered "wildlife friendly," including those that use natural fiber or 100 percent biodegradable materials and that use a loose weave with a non-welded, movable jointed netting. Products that are not wildlife friendly include square plastic netting that are degradable (e.g., photodegradable, UV-degradable, oxo-degradable), netting made from polypropylene, nylon, polyethylene, or polyester. Other recommendations include removing the netting product when it is no longer needed. More information may be found at: https://www.fws.gov/initiative/protecting-wildlife/make-change-wildlife-friendly-erosion-control-products. There also may be State, Tribal, or local requirements about using wildlife friendly erosion control products. See Minnesota Department of Transportation requirements at: https://www.mndot.org/environment/erosion/rolled-erosion-prevention-products.html. [Minn. R. 7050]
8.1	**Erosion Prevention Practices**. [Minn. R. 7090]
8.2	Before work begins, permittees must delineate the location of areas not to be disturbed. [Minn. R. 7090]
8.3	Permittees must minimize the need for disturbance of portions of the project with steep slopes. When steep slopes must be disturbed, permittees must use techniques such as phasing and stabilization practices designed for steep slopes (e.g., slope draining and terracing). [Minn. R. 7090]
8.4	Permittees must stabilize all exposed soil areas, including stockpiles. Stabilization must be initiated immediately to limit soil erosion when construction activity has permanently or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days (7 days for sites discharging to special or impaired waters, see section 24). Stabilization must be completed no later than 14 calendar days after the construction activity has ceased. Stabilization is not required on constructed base components of roads, parking lots and similar surfaces. Stabilization is not required on temporary stockpiles without significant silt, clay or organic components (e.g., clean aggregate stockpiles, demolition concrete stockpiles, sand stockpiles) but permittees must provide sediment controls at the base of the stockpile. [Minn. R. 7090]
8.5	For Public Waters that the Minnesota DNR has promulgated "work in water restrictions" during specified fish spawning time frames, permittees must complete stabilization of all exposed soil areas within 200 feet of the water's edge, and that drain to these waters, within 24 hours during the restriction period. [Minn. R. 7090]
8.6	Permittees must stabilize the normal wetted perimeter of the last 200 linear feet of temporary or permanent drainage ditches or swales that drain water from the site within 24 hours after connecting to a surface water or property edge. Permittees must complete stabilization of remaining portions of temporary or permanent ditches or swales within 14 calendar days (7 days for sites discharging to special or impaired waters, see section 24) after connecting to a surface water or property edge and construction in that portion of the ditch temporarily or permanently ceases. [Minn. R. 7090]
8.7	Temporary or permanent ditches or swales being used as a sediment containment system during construction (with properly designed rock-ditch checks, bio rolls, silt dikes, etc.) do not need to be stabilized. Permittees must stabilize these areas within 24 hours after their use as a sediment containment system ceases. [Minn. R. 7090]
8.8	Permittees must not use mulch, hydromulch, tackifier, polyacrylamide or similar erosion prevention practices within any portion of the normal wetted perimeter of a temporary or permanent drainage ditch or swale section with a continuous slope of greater than 2 percent. Examples of acceptable erosion prevention practices include blankets, poly, riprap, etc. [Minn. R. 7090]
8.9	Permittees must provide temporary or permanent energy dissipation at all pipe outlets within 24 hours after connection to a surface water or permanent stormwater treatment system. [Minn. R. 7090]
9.1	**Sediment Control Practices**. [Minn. R. 7090]
9.2	Permittees must establish sediment control BMPs on all downgradient perimeters of the site and downgradient areas of the site that drain to any surface water, including curb and gutter systems. Permittees must locate sediment control practices upgradient of any buffer zones. Permittees must install sediment control practices before any upgradient land-disturbing activities begin and must keep the sediment control practices in place until they establish permanent cover. [Minn. R. 7090]
9.3	If downgradient sediment controls are overloaded, based on frequent failure or excessive maintenance requirements,

	permittees must install additional upgradient sediment control practices or redundant BMPs to eliminate the overloading and amend the SWPPP to identify these additional practices as required in item 6.3. [Minn. R. 7090]
9.4	Temporary or permanent drainage ditches and sediment basins designed as part of a sediment containment system (e.g., ditches with rock-check dams) require sediment control practices only as appropriate for site conditions. [Minn. R. 7090]
9.5	A floating silt curtain placed in the water is not a sediment control BMP to satisfy item 9.2 except when working on a shoreline or below the waterline. Immediately after the construction activity (e.g., installation of rip rap along the shoreline) in that area is complete, permittees must install an upland perimeter control practice if exposed soils still drain to a surface water. [Minn. R. 7090]
9.6	Permittees must re-install all sediment control practices adjusted or removed to accommodate short-term activities such as clearing or grubbing, or passage of vehicles, immediately after the short-term activity is completed. Permittees must re-install sediment control practices before the next precipitation event even if the short-term activity is not complete. [Minn. R. 7090]
9.7	Permittees must protect all storm drain inlets using appropriate BMPs during construction until they establish permanent cover on all areas with potential for discharging to the inlet. [Minn. R. 7090]
9.8	Permittees may remove inlet protection for a particular inlet if a specific safety concern (e.g. street flooding/freezing) is identified by the permittees or the jurisdictional authority (e.g., city/county/township/Minnesota Department of Transportation engineer). Permittees must document the need for removal in the SWPPP. [Minn. R. 7090]
9.9	Permittees must provide silt fence or other effective sediment controls at the base of stockpiles on the downgradient perimeter prior to the initiation of stockpiling. Sediment controls must be managed in accordance with section 9.6. [Minn. R. 7090]
9.10	Permittees must locate stockpiles outside of natural buffers or surface waters, including stormwater conveyances such as curb and gutter systems unless there is a bypass in place for the stormwater. [Minn. R. 7090]
9.11	Permittees must install a vehicle tracking BMP to minimize the track out of sediment from the construction site or onto paved roads within the site. [Minn. R. 7090]
9.12	Permittees must use street sweeping in addition to vehicle tracking BMPs if vehicle tracking BMPs alone are not adequate to prevent sediment tracking onto the street. [Minn. R. 7090]
9.13	Permittees must install temporary sediment basins as required in Section 14. [Minn. R. 7090]
9.14	In any areas of the site where final vegetative stabilization will occur, permittees must restrict vehicle and equipment use to minimize soil compaction. [Minn. R. 7090]
9.15	Permittees must preserve topsoil on the site, unless infeasible. [Minn. R. 7090]
9.16	Permittees must direct discharges from BMPs to vegetated areas unless infeasible. [Minn. R. 7090]
9.17	Permittees must preserve a 50-foot natural buffer or, if a buffer is infeasible on the site, provide redundant (double) perimeter sediment controls when a surface water is located within 50 feet of the project's earth disturbances and stormwater flows to the surface water. Permittees must install perimeter sediment controls at least 5 feet apart unless limited by lack of available space. Natural buffers are not required adjacent to road ditches, judicial ditches, county ditches, stormwater conveyance channels, storm drain inlets, and sediment basins. If preserving the buffer is infeasible, permittees must document the reasons in the SWPPP. Sheet piling and other impermeable barriers installed in a manner that retains all stormwater are considered redundant perimeter control. [Minn. R. 7090]
9.18	Any sediment control made of soil must be temporarily or permanently stabilized within 24 hours. [Minn. R. 7090]
9.19	Permittees must use polymers, flocculants, or other sedimentation treatment chemicals in accordance with accepted engineering practices, dosing specifications and sediment removal design specifications provided by the manufacturer or supplier. The permittees must use conventional erosion and sediment controls prior to chemical addition and must direct treated stormwater to a sediment control system for filtration or settlement of the floc prior to discharge. [Minn. R. 7090]
10.1	**Dewatering and Basin Draining**. [Minn. R. 7090]
10.2	Permittees must not cause nuisance conditions (see Minn. R. 7050.0210, subp. 2) in surface waters from dewatering and basin draining (e.g., pumped discharges, trench/ditch cuts for drainage) discharges. Permittees must discharge turbid or sediment-laden waters related to dewatering or basin draining to a sediment control (e.g. sediment trap or basin, filter bag) designed to prevent discharges with visual turbidity. To the extent feasible, use well-vegetated (e.g., grassy or wooded), upland areas of the site to infiltrate dewatering water before discharge. Permittees are prohibited from using receiving waters as part of the treatment area. Permittees must visually check and photograph the discharge at the beginning and at least once every 24 hours of operation to ensure adequate treatment has been obtained and nuisance conditions will not

	result from the discharge. [Minn. R. 7050.0210]
10.3	If nuisance conditions result from the discharge, Permittees must cease dewatering immediately and corrective actions must occur before dewatering is resumed. Nuisance conditions includes, but is not limited to, a sediment plume in the discharge or the discharge appears cloudy, or opaque, or has a visible contrast, or has a visible oil film, or has aquatic habitat degradation that can be identified by an observer. [Minn. R. 7050.0210]
10.4	If permittees must discharge water containing oil or grease, they must use an oil-water separator or suitable filtration device (e.g., cartridge filters, absorbents pads) prior to discharge. [Minn. R. 7090]
10.5	Permittees must discharge all water from dewatering or basin-draining activities in a manner that does not cause erosion or scour in the immediate vicinity of discharge points or inundation of wetlands in the immediate vicinity of discharge points that causes significant adverse impact to the wetland. [Minn. R. 7090]
10.6	If permittees use filters with backwash water, they must haul the backwash water away for disposal, return the backwash water to the beginning of the treatment process, or incorporate the backwash water into the site in a manner that does not cause erosion. [Minn. R. 7090]
11.1	**Inspections and Maintenance**. [Minn. R. 7090]
11.2	Permittees must ensure a trained person, as identified in item 21.2.b, will inspect the entire construction site at least once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 1/2 inch in 24 hours. [Minn. R. 7090]
11.3	Permittees must inspect and maintain all permanent stormwater treatment BMPs. [Minn. R. 7090]
11.4	Permittees must inspect all erosion prevention and sediment control BMPs and Pollution Prevention Management Measures to ensure integrity and effectiveness. Permittees must repair, replace or supplement all nonfunctional BMPs with functional BMPs by the end of the next business day after discovery unless another time frame is specified in item 11.5 or 11.6. Permittees may take additional time if field conditions prevent access to the area. [Minn. R. 7090]
11.5	During each inspection, permittees must inspect areas adjacent to the project, surface waters, including drainage ditches and conveyance systems but not curb and gutter systems, for evidence of erosion and sediment deposition. Permittees must remove all deltas and sediment deposited in areas adjacent to the project, surface waters, including drainage ways, catch basins, and other drainage systems and restabilize the areas where sediment removal results in exposed soil. Permittees must complete removal and stabilization within seven (7) calendar days of discovery unless precluded by legal, regulatory, or physical access constraints. Permittees must use all reasonable efforts to obtain access. If precluded, removal and stabilization must take place within seven (7) days of obtaining access. Permittees are responsible for contacting all local, regional, state and federal authorities and receiving any applicable permits, prior to conducting any work in surface waters. [Minn. R. 7090]
11.6	Permittees must inspect construction site vehicle exit locations, streets and curb and gutter systems within and adjacent to the project for sedimentation from erosion or tracked sediment from vehicles. Permittees must remove sediment from all paved surfaces within one (1) calendar day of discovery or, if applicable, within a shorter time to avoid a safety hazard to users of public streets. [Minn. R. 7090]
11.7	Permittees must repair, replace or supplement all perimeter control devices when they become nonfunctional or the sediment reaches 1/2 of the height of the device. [Minn. R. 7090]
11.8	Permittees must drain temporary and permanent sedimentation basins and remove the sediment when the depth of sediment collected in the basin reaches 1/2 the storage volume within 72 hours of discovery. [Minn. R. 7090]
11.9	Permittee's must inspect and photograph dewatering discharges at the beginning and at least once every 24 hours during operation. Dewatering discharges that only last for minutes, as opposed to hours, and do not reach a surface water, do not require photographs or documentation. [Minn. R. 7090]
11.10	Permittees must ensure that at least one individual present on the site (or available to the project site in three (3) calendar days) is trained in the job duties described in item 21.2.b. [Minn. R. 7090]
11.11	Permittees may adjust the inspection schedule described in item 11.2 as follows: a. inspections of areas with permanent cover can be reduced to once per month, even if construction activity continues on other portions of the site; or b. where sites have permanent cover on all exposed soil and no construction activity is occurring anywhere on the site, inspections can be reduced to once per month and, after 12 months, may be suspended completely until construction activity resumes. The MPCA may require inspections to resume if conditions warrant; or c. where construction activity has been suspended due to frozen ground conditions, inspections may be suspended.

	Inspections must resume within 24 hours of runoff occurring, or upon resuming construction, whichever comes first. d. for projects where a pollinator habitat or native prairie type vegetated cover is being established, inspections may be reduced to once per month if the site has temporary vegetation with a density of 70% temporary uniform cover. If after 24 months no significant erosion problems are observed, inspections may be suspended completely until the termination requirements in section 13 have been met. [Minn. R. 7090]
11.12	Permittees must record all inspections and maintenance activities within 24 hours of being conducted and these records must be retained with the SWPPP. These records must include: a. date and time of inspections; and b. name of persons conducting inspections; and c. accurate findings of inspections, including the specific location where corrective actions are needed; and d. corrective actions taken (including dates, times, and party completing maintenance activities); and e. date of all rainfall events greater than 1/2 inches in 24 hours, and the amount of rainfall for each event. Permittees must obtain rainfall amounts by either a properly maintained rain gauge installed on-site, a weather station that is within one (1) mile of your location, or a weather reporting system that provides site specific rainfall data from radar summaries; and f. if permittees observe a discharge during the inspection, they must record and should photograph and describe the location of the discharge (i.e., color, odor, settled or suspended solids, oil sheen, and other obvious indicators of pollutants); and g. any amendments to the SWPPP proposed as a result of the inspection must be documented as required in Section 6 within seven (7) calendar days; and h. all photographs of dewatering activities and documentation of nuisance conditions resulting from dewatering activities as described in section 10. [Minn. R. 7090]
12.1	**Pollution Prevention Management Measures**. [Minn. R. 7090]
12.2	Permittees must place construction materials and landscape materials under cover (e.g., plastic sheeting or temporary roofs) or protect them by similarly effective means designed to minimize contact with stormwater. Permittees are not required to cover or protect products which are either not a source of contamination to stormwater or are designed to be exposed to stormwater. [Minn. R. 7090]
12.3	Permittees must place pesticides, fertilizers and treatment chemicals under cover (e.g., plastic sheeting or temporary roofs) or protect them by similarly effective means designed to minimize contact with stormwater. [Minn. R. 7090]
12.4	Permittees must store hazardous materials and toxic waste, (including oil, diesel fuel, gasoline, hydraulic fluids, paint solvents, petroleum-based products, wood preservatives, additives, curing compounds, and acids) in sealed containers to prevent spills, leaks or other discharge. Storage and disposal of hazardous waste materials must be in compliance with Minn. R. ch. 7045 including secondary containment as applicable. [Minn. R. 7090]
12.5	Permittees must properly store, collect and dispose solid waste in compliance with Minn. R. ch. 7035. [Minn. R. 7035]
12.6	Permittees must position portable toilets so they are secure and will not tip or be knocked over. Permittees must properly dispose sanitary waste in accordance with Minn. R. ch. 7041. [Minn. R. 7041]
12.7	Permittees must take reasonable steps to prevent the discharge of spilled or leaked chemicals, including fuel, from any area where chemicals or fuel will be loaded or unloaded including the use of drip pans or absorbents unless infeasible. Permittees must ensure adequate supplies are available at all times to clean up discharged materials and that an appropriate disposal method is available for recovered spilled materials. Permittees must report and clean up spills immediately as required by Minn. Stat. 115.061, using dry clean up measures where possible. [Minn. Stat. 115.061]
12.8	Permittees must limit vehicle exterior washing and equipment to a defined area of the site. Permittees must contain runoff from the washing area in a sediment basin or other similarly effective controls and must dispose waste from the washing activity properly. Permittees must properly use and store soaps, detergents, or solvents. [Minn. R. 7090]
12.9	Permittees must provide effective containment for all liquid and solid wastes generated by washout operations (e.g., concrete, stucco, paint, form release oils, curing compounds and other construction materials) related to the construction activity. Permittees must prevent liquid and solid washout wastes from contacting the ground and must design the containment so it does not result in runoff from the washout operations or areas. Permittees must properly dispose liquid and solid wastes in compliance with MPCA rules. Permittees must install a sign indicating the location of the washout facility. [Minn. R. 7035, Minn. R. 7090]
13.1	**Permit Termination Conditions**. [Minn. R. 7090]
13.2	Permittees must complete all construction activity and must install permanent cover over all areas prior to submitting the NOT. Vegetative cover must consist of a uniform perennial vegetation with a density of 70 percent of its expected final

	growth. Vegetation is not required where the function of a specific area dictates no vegetation, such as impervious surfaces or the base of a sand filter. [Minn. R. 7090]
13.3	Permittees must clean the permanent stormwater treatment system of any accumulated sediment and must ensure the system meets all applicable requirements in Section 15 through 19 and is operating as designed. [Minn. R. 7090]
13.4	Permittees must remove all sediment from conveyance systems prior to submitting the NOT. [Minn. R. 7090]
13.5	Permittees must remove all temporary synthetic erosion prevention and sediment control BMPs prior to submitting the NOT. Permittees may leave BMPs designed to decompose on-site in place. [Minn. R. 7090]
13.6	For residential construction only, permit coverage terminates on individual lots if the lot is sold to the homeowner, structures are finished, and permanent cover has been established. For lots that are sold to the homeowner where permanent cover has not been established, coverage terminates if temporary erosion prevention and downgradient perimeter control is properly installed and the permittee distributes the MPCA's "Homeowner Fact Sheet" to the homeowner. [Minn. R. 7090]
13.7	For construction projects on agricultural land (e.g., pipelines across cropland), permittees must return the disturbed land to its preconstruction agricultural use prior to submitting the NOT. [Minn. R. 7090]
13.8	When submitting the NOT, Permittees must include either ground or aerial photographs showing the requirements of 13.2 have been met. Permittees are not required to take photographs of every distinct part of the site, however the conditions portrayed must be substantially similar to those areas that are not photographed. Photographs must be clear and in focus and must include the date the photo was taken. [Minn. R. 7090]
14.1	**Temporary Sediment Basins**. [Minn. R. 7090]
14.2	Where ten (10) or more acres of disturbed soil (5 acres for sites discharging to special or impaired waters, see section 24) drain to a common location, permittees must provide a temporary sediment basin to provide treatment of the runoff before it leaves the construction site or enters surface waters. Permittees may convert a temporary sediment basin to a permanent basin after construction is complete. The temporary basin is no longer required when permanent cover has reduced the acreage of disturbed soil to less than ten (10) acres draining to a common location. [Minn. R. 7090]
14.3	The temporary basin must provide live storage for a calculated volume of runoff from a two (2)-year, 24-hour storm from each acre drained to the basin or 1,800 cubic feet of live storage per acre drained, whichever is greater. [Minn. R. 7090]
14.4	Where permittees have not calculated the two (2)-year, 24-hour storm runoff amount, the temporary basin must provide 3,600 cubic feet of live storage per acre of the basins' drainage area. [Minn. R. 7090]
14.5	Permittees must design basin outlets to prevent short-circuiting and the discharge of floating debris. [Minn. R. 7090]
14.6	Permittees must design the outlet structure to withdraw water from the surface to minimize the discharge of pollutants. Permittees may temporarily suspend the use of a surface withdrawal mechanism during frozen conditions. The basin must include a stabilized emergency overflow to prevent failure of pond integrity. [Minn. R. 7090]
14.7	Permittees must provide energy dissipation for the basin outlet within 24 hours after connection to a surface water. [Minn. R. 7090]
14.8	Permittees must locate temporary basins outside of surface waters and any buffer zone required in item 23.11. [Minn. R. 7090]
14.9	Permittees must construct the temporary basins prior to disturbing 10 or more acres of soil draining to a common location. [Minn. R. 7090]
14.10	Where a temporary sediment basin meeting the requirements of item 14.3 through 14.9 is infeasible, permittees must install effective sediment controls such as smaller sediment basins and/or sediment traps, silt fences, vegetative buffer strips or any appropriate combination of measures as dictated by individual site conditions. In determining whether installing a sediment basin is infeasible, permittees must consider public safety and may consider factors such as site soils, slope, and available area on-site. Permittees must document this determination of infeasibility in the SWPPP. [Minn. R. 7090]
15.1	**Permanent Stormwater Treatment System**. [Minn. R. 7090]
15.2	Permittees must design and implement the project so all stormwater discharged from the project during and after construction activities does not cause a violation of state water quality standards, including nuisance conditions, erosion in receiving channels or on downslope properties, or a significant adverse impact to wetlands caused by inundation or decrease of flow. [Minn. R. 7090]
15.3	Permittees must design and construct a permanent stormwater treatment system to treat the water quality volume if the project's ultimate development replaces vegetation and/or other pervious surfaces creating a net increase of one (1) or

	more acres of cumulative impervious surface. [Minn. R. 7090]
15.4	Permittees must calculate the water quality volume as one (1) inch times the net increase of impervious surfaces created by the project. [Minn. R. 7090]
15.5	Permittees must first consider volume reduction practices on-site (e.g., infiltration or other) when designing the permanent stormwater treatment system. If this permit prohibits infiltration as described in item 16.14 through item 16.21, permittees may consider a wet sedimentation basin, filtration basin or regional pond. This permit does not consider wet sedimentation basins and filtration systems to be volume reduction practices. [Minn. R. 7090]
15.6	For projects where the full volume reduction requirement cannot be met on-site, (e.g., the site has infiltration prohibitions), permittees must document the reasons in the SWPPP. [Minn. R. 7090]
15.7	Permittees must discharge the water quality volume to a permanent stormwater treatment system prior to discharge to a surface water. For purposes of this item, surface waters do not include man-made drainage systems that convey stormwater to a permanent stormwater treatment system. [Minn. R. 7090]
15.8	Where the proximity to bedrock precludes the installation of any of the permanent stormwater treatment practices required by Sections 15 through 19, permittees must install other treatment such as grassed swales, smaller ponds, or grit chambers, prior to the discharge of stormwater to surface waters. [Minn. R. 7090]
15.9	For linear projects where permittees cannot treat the entire water quality volume within the existing right-of-way, permittees must make a reasonable attempt to obtain additional right-of-way, easement or other permission for stormwater treatment during the project planning process. Documentation of these attempts must be in the SWPPP. Permittees must still consider volume reduction practices first as described in item 15.5. If permittees cannot obtain additional right-of-way, easement or other permission, they must maximize the treatment of the water quality volume prior to discharge to surface waters. [Minn. R. 7090]
16.1	**Infiltration Systems**. [Minn. R. 7090]
16.2	Infiltration options include, but are not limited to: infiltration basins, infiltration trenches, rainwater gardens, bioretention areas without underdrains, swales with impermeable check dams, and natural depressions. If permittees utilize an infiltration system to meet the requirements of this permit, they must incorporate the design parameters in item 16.3 through item 16.21. Permittees must follow the infiltration prohibition in item 16.14 anytime an infiltration system is designed, including those not required by this permit. [Minn. R. 7090]
16.3	Permittees must design infiltration systems such that pre-existing hydrologic conditions of wetlands in the vicinity are not impacted (e.g., inundation or breaching a perched water table supporting a wetland). [Minn. R. 7090]
16.4	Permittees must not excavate infiltration systems to final grade, or within three (3) feet of final grade, until the contributing drainage area has been constructed and fully stabilized unless they provide rigorous erosion prevention and sediment controls (e.g., diversion berms) to keep sediment and runoff completely away from the infiltration area. [Minn. R. 7090]
16.5	When excavating an infiltration system to within three (3) feet of final grade, permittees must stake off and mark the area so heavy construction vehicles or equipment do not compact the soil in the infiltration area. [Minn. R. 7090]
16.6	Permittees must use a pretreatment device such as a vegetated filter strip, forebay, or water quality inlet (e.g., grit chamber) to remove solids, floating materials, and oil and grease from the runoff, to the maximum extent practicable, before the system routes stormwater to the infiltration system. [Minn. R. 7090]
16.7	Permittees must design infiltration systems to provide a water quality volume (calculated as an instantaneous volume) of one (1) inch of runoff, or one (1) inch minus the volume of stormwater treated by another system on the site, from the net increase of impervious surfaces created by the project. [Minn. R. 7090]
16.8	Permittees must design the infiltration system to discharge all stormwater (including stormwater in excess of the water quality volume) routed to the system through the uppermost soil surface or engineered media surface within 48 hours. Permittees must route additional flows that cannot infiltrate within 48 hours to bypass the system through a stabilized discharge point. [Minn. R. 7090]
16.9	Permittees must provide a means to visually verify the infiltration system is discharging through the soil surface or filter media surface within 48 hours or less. [Minn. R. 7090]
16.10	Permittees must provide at least one soil boring, test pit or infiltrometer test in the location of the infiltration practice for determining infiltration rates. [Minn. R. 7090]
16.11	For design purposes, permittees must divide field measured infiltration rates by 2 as a safety factor or permittees can use soil-boring results with the infiltration rate chart in the Minnesota Stormwater Manual to determine design infiltration rates. When soil borings indicate type A soils, permittees should perform field measurements to verify the rate is not above

	8.3 inches per hour. This permit prohibits infiltration if the field measured infiltration rate is above 8.3 inches per hour. [Minn. R. 7090]
16.12	Permittees must employ appropriate on-site testing to ensure a minimum of three (3) feet of separation from the seasonally saturated soils (or from bedrock) and the bottom of the proposed infiltration system. [Minn. R. 7090]
16.13	Permittees must design a maintenance access, typically eight (8) feet wide, for the infiltration system. [Minn. R. 7090]
16.14	This permit prohibits permittees from constructing infiltration systems that receive runoff from vehicle fueling and maintenance areas including construction of infiltration systems not required by this permit. [Minn. R. 7090]
16.15	This permit prohibits permittees from constructing infiltration systems where infiltrating stormwater may mobilize high levels of contaminants in soil or groundwater. Permittees must either complete the MPCA's contamination screening checklist or conduct their own assessment to determine the suitability for infiltration. Permittees must retain the checklist or assessment with the SWPPP. For more information and to access the MPCA's "contamination screening checklist" see the Minnesota Stormwater Manual. [Minn. R. 7090]
16.16	This permit prohibits permittees from constructing infiltration systems in areas where soil infiltration rates are field measured at more than 8.3 inches per hour unless they amend soils to slow the infiltration rate below 8.3 inches per hour. [Minn. R. 7090]
16.17	This permit prohibits permittees from constructing infiltration systems in areas with less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock. [Minn. R. 7090]
16.18	This permit prohibits permittees from constructing infiltration systems in areas of predominately Hydrologic Soil Group type D soils (clay). [Minn. R. 7090]
16.19	This permit prohibits permittees from constructing infiltration systems within a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, subp. 13, if the system will be located: a. in an Emergency Response Area (ERA) within a DWSMA classified as having high or very high vulnerability as defined by the Minnesota Department of Health; or b. in an ERA within a DWSMA classified as moderate vulnerability unless a regulated MS4 Permittee performed or approved a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater; or c. outside of an ERA within a DWSMA classified as having high or very high vulnerability, unless a regulated MS4 Permittee performed or approved a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater. See "higher level of engineering review" in the Minnesota Stormwater Manual for more information. [Minn. R. 7090]
16.20	This permit prohibits permittees from constructing infiltration systems in areas within 1,000 feet upgradient or 100 feet downgradient of active karst features. [Minn. R. 7090]
16.21	This permit prohibits permittees from constructing infiltration systems in areas that receive runoff from the following industrial facilities not authorized to infiltrate stormwater under the NPDES stormwater permit for industrial activities: wood preserving facilities; automobile salvage yards; scrap recycling and waste recycling facilities; hazardous waste treatment, storage, or disposal facilities; or air transportation facilities that conduct deicing activities. [Minn. R. 7090]
17.1	**Filtration Systems**. [Minn. R. 7090]
17.2	Filtration options include but are not limited to: sand filters with underdrains, biofiltration areas, swales using underdrains with impermeable check dams and underground sand filters. If permittees utilize a filtration system to meet the permanent stormwater treatment requirements of this permit, they must comply with items 17.3 through 17.11. [Minn. R. 7090]
17.3	Permittees must not install filter media until they construct and fully stabilize the contributing drainage area unless they provide rigorous erosion prevention and sediment controls (e.g., diversion berms) to keep sediment and runoff completely away from the filtration area. [Minn. R. 7090]
17.4	Permittees must design filtration systems to remove at least 80 percent of TSS. [Minn. R. 7090]
17.5	Permittees must use a pretreatment device such as a vegetated filter strip, small sedimentation basin, water quality inlet, forebay or hydrodynamic separator to remove settleable solids, floating materials, and oils and grease from the runoff, to the maximum extent practicable, before runoff enters the filtration system. [Minn. R. 7090]

17.6	Permittees must design filtration systems to treat a water quality volume (calculated as an instantaneous volume) of one (1) inch of runoff, or one (1) inch minus the volume of stormwater treated by another system on the site, from the net increase of impervious surfaces created by the project. [Minn. R. 7090]
17.7	Permittees must design the filtration system to discharge all stormwater (including stormwater in excess of the water quality volume) routed to the system through the uppermost soil surface or engineered media surface within 48 hours. Additional flows that the system cannot filter within 48 hours must bypass the system or discharge through an emergency overflow. [Minn. R. 7090]
17.8	Permittees must design the filtration system to provide a means to visually verify the system is discharging through the soil surface or filter media within 48 hours. [Minn. R. 7090]
17.9	Permittees must employ appropriate on-site testing to ensure a minimum of three (3) feet of separation between the seasonally saturated soils (or from bedrock) and the bottom of the proposed filtration system. [Minn. R. 7090]
17.10	Permittees must ensure that filtration systems with less than three (3) feet of separation between seasonally saturated soils or from bedrock are constructed with an impermeable liner. [Minn. R. 7090]
17.11	The permittees must design a maintenance access, typically eight (8) feet wide, for the filtration system. [Minn. R. 7090]
18.1	**Wet Sedimentation Basin**. [Minn. R. 7090]
18.2	Permittees using a wet sedimentation basin to meet the permanent stormwater treatment requirements of this permit must incorporate the design parameters in item 18.3 through 18.10. [Minn. R. 7090]
18.3	Permittees must design the basin to have a permanent volume of 1,800 cubic feet of storage below the outlet pipe for each acre that drains to the basin. The basin's permanent volume must reach a minimum depth of at least three (3) feet and must have no depth greater than 10 feet. Permittees must configure the basin to minimize scour or resuspension of solids. [Minn. R. 7090]
18.4	Permittees must design the basin to provide live storage for a water quality volume (calculated as an instantaneous volume) of one (1) inch of runoff, or one (1) inch minus the volume of stormwater treated by another system on the site, from the net increase in impervious surfaces created by the project. [Minn. R. 7090]
18.5	Permittees must design basin outlets so the water quality volume discharges at no more than 5.66 cubic feet per second (cfs) per acre of surface area of the basin. [Minn. R. 7090]
18.6	Permittees must design basin outlets to prevent short-circuiting and the discharge of floating debris. Basin outlets must have energy dissipation. [Minn. R. 7090]
18.7	Permittees must design the basin to include a stabilized emergency overflow to accommodate storm events in excess of the basin's hydraulic design. [Minn. R. 7090]
18.8	Permittees must design a maintenance access, typically eight (8) feet wide, for the basin. [Minn. R. 7090]
18.9	Permittees must locate basins outside of surface waters and any buffer zone required in item 23.11. Permittees must design basins to avoid draining water from wetlands unless the impact to the wetland complies with the requirements of Section 22. [Minn. R. 7090]
18.10	Permittees must design basins using an impermeable liner if located within active karst terrain. [Minn. R. 7090]
19.1	**Regional Wet Sedimentation Basins**. [Minn. R. 7090]
19.2	When the entire water quality volume cannot be treated by volume reduction practices on-site, permittees can use or create regional wet sedimentation basins provided they are constructed basins, not a natural wetland or water body, (wetlands used as regional basins must be mitigated for, see Section 22). The owner must ensure the regional basin conforms to all requirements for a wet sedimentation basin as described in items 18.3 through 18.10 and must be large enough to account for the entire area that drains to the regional basin. Permittees must verify that the regional basin will discharge at no more than 5.66 cfs per acre of surface area of the basin and must provide a live storage volume of one-inch times all the impervious area draining to the basin. Permittees cannot significantly degrade waterways between the project and the regional basin. The owner must obtain written authorization from the applicable LGU or private entity that owns and maintains the regional basin. [Minn. R. 7090]
20.1	**SWPPP Availability**. [Minn. R. 7090]
20.2	Permittees must keep the SWPPP on-site, or electronically available on-site, during normal working hours with personnel who have operational control over the applicable portion of the site, including all changes to the SWPPP, inspections, and maintenance records. [Minn. R. 7090]
21.1	**Training Requirements**. [Minn. R. 7090]

21.2	Permittees must ensure all of the following individuals receive training and the content and extent of the training is commensurate with the individual's job duties and responsibilities with regard to activities covered under this permit: a. Individuals preparing the SWPPP for the project. b. Individuals overseeing implementation of, revising and/or amending the SWPPP and individuals performing inspections for the project. One of these individuals must be available for an on-site inspection within 72 hours upon request by the MPCA. c. Individuals performing or supervising the installation, maintenance and repair of BMPs. [Minn. R. 7090]
21.3	Permittees must ensure individuals identified in Section 21 receive training from local, state, federal agencies, professional organizations, or other entities with expertise in erosion prevention, sediment control, permanent stormwater treatment and the Minnesota NPDES/SDS Construction Stormwater permit. Permittees must ensure these individuals attend a refresher-training course every three (3) years. [Minn. R. 7090]
22.1	**Requirements for Discharges to Wetlands**. [Minn. R. 7050.0186]
22.2	If the project has any discharges with the potential for significant adverse impacts to a wetland, (e.g., conversion of a natural wetland to a stormwater pond) permittees must demonstrate that the wetland mitigative sequence has been followed in accordance with items 22.3 or 22.4. [Minn. R. 7050.0186]
22.3	If the potential adverse impacts to a wetland on a specific project site are addressed by permits or other approvals from an official statewide program (U.S. Army Corps of Engineers 404 program, Minnesota Department of Natural Resources, or the State of Minnesota Wetland Conservation Act) that are issued specifically for the project and project site, permittees may use the permit, decision or other determination issued by these agencies to show the potential adverse impacts are addressed. For purposes of this permit, deminimus actions are determinations by the permitting agency that address the project impacts, whereas a non-jurisdictional determination does not address project impacts. [Minn. R. 7090]
22.4	If there are impacts from the project not addressed in one of the permits, decisions or other determinations discussed in item 22.3 (e.g., permanent inundation or flooding of the wetland, significant degradation of water quality, excavation, filling, draining), permittees must minimize all adverse impacts to wetlands by utilizing appropriate measures. Permittees must use measures based on the nature of the wetland, its vegetative community types and the established hydrology. These measures include in order of preference: a. avoid all significant adverse impacts to wetlands from the project and post-project discharge; b. minimize any unavoidable impacts from the project and post-project discharge; c. provide compensatory mitigation when the permittees determine(s) that there is no reasonable and practicable alternative to having a significant adverse impact on a wetland. For compensatory mitigation, wetland restoration or creation must be of the same type, size and whenever reasonable and practicable in the same watershed as the impacted wetland. [Minn. R. 7050.0186]
23.1	**Additional Requirements for Discharges to Special (Prohibited, Restricted, Other) and Impaired Waters**. [Minn. R. 7090]
23.2	The BMPs identified for each special or impaired water are required for those areas of the project draining to a discharge point on the project that is within one mile (aerial radius measurement) of special or impaired water and flows to that special or impaired water. [Minn. R. 7090]
23.3	Discharges to the following special waters identified as Prohibited in Minn. R. 7050.0335 subp. 3 must incorporate the BMPs outlined in items 23.9, 23.10, 23.11, 23.13 and 23.14: a. Boundary Waters Canoe Area Wilderness; Voyageurs National Park; Kettle River from the site of the former dam at Sandstone to its confluence with the Saint Croix River; Rum River from Ogechie Lake spillway to the northernmost confluence with Lake Onamia. b. Those portions of Lake Superior North of latitude 47 degrees, 57 minutes, 13 seconds, East of Hat Point, South of the Minnesota-Ontario boundary, and West of the Minnesota-Michigan boundary; c. Scientific and Natural Areas identified as in Minn. R. 7050.0335 Subp. 3: Boot Lake, Anoka County; Kettle River in sections 15, 22, 23, T 41 N, R 20, Pine County; Pennington Bog, Beltrami County; Purvis Lake-Ober Foundation, Saint Louis County; waters within the borders of Itasca Wilderness Sanctuary, Clearwater County; Iron Springs Bog, Clearwater County; Wolsfeld Woods, Hennepin County; Green Water Lake, Becker County; Blackdog Preserve, Dakota County; Prairie Bush Clover, Jackson County; Black Lake Bog, Pine County; Pembina Trail Preserve, Polk County; and Falls Creek, Washington County. [Minn. R. 7050.0335, subp. 3]
23.4	Discharges to the following special waters identified as Restricted in Minn. R. 7050.0335 subp.1 must incorporate the BMPs

	outlined in items 23.9, 23.10 and 23.11: a. Lake Superior, except those portions identified as prohibited in item 23.3.b; b. Mississippi River in those portions from Lake Itasca to the southerly boundary of Morrison County that are included in the Mississippi Headwaters Board comprehensive plan dated February 12, 1981; c. Scenic or Recreational River Segments: Saint Croix River, entire length; Cannon River from northern city limits of Faribault to its confluence with the Mississippi River; North Fork of the Crow River from Lake Koronis outlet to the Meeker-Wright county line; Kettle River from north Pine County line to the site of the former dam at Sandstone; Minnesota River from Lac que Parle dam to Redwood County State Aid Highway 11; Mississippi River from County State Aid Highway 7 bridge in Saint Cloud to northwestern city limits of Anoka; and Rum River from State Highway 27 bridge in Onamia to Madison and Rice streets in Anoka; d. Lake Trout Lakes identified in Minn. R. 7050.0335 including lake trout lakes inside the boundaries of the Boundary Waters Canoe Area Wilderness and Voyageurs National Park; e. Calcareous Fens listed in Minn. R. 7050.0335, subp. 1. [Minn. R. 7050.0335, subp. 1]
23.5	Discharges to the Trout Lakes (other special water) identified in Minn. R. 6264.0050, subp. 2 and Minn. R. 7050.0420 must incorporate the BMPs outlined in items 23.9, 23.10 and 23.11. [Minn. R. 6264.0050, subp. 2, Minn. R. 7050]
23.6	Discharges to the Trout Streams (other special water) listed in Minn. R. 6264.0050, subp. 4 and Minn. R. 7050.0420 must incorporate the BMPs outlined in items 23.9, 23.10, 23.11 and 23.12. [Minn. R. 6264.0050, subp. 4, Minn. R. 7050]
23.7	Discharges to impaired waters or a water with an USEPA approved TMDL for any of the impairments listed in this item must incorporate the BMPs outlined in items 23.9 and 23.10. Impaired waters are waters identified as impaired under section 303 (d) of the federal Clean Water Act for phosphorus (nutrient eutrophication biological indicators, nutrients), turbidity, TSS, dissolved oxygen or aquatic biota (fish bioassessment, aquatic plant bioassessment and aquatic macroinvertebrate bioassessment, benthic macroinvertebrate bioassessment). Terms used for the pollutants or stressors in this item are subject to change. [Minn. R. 7090]
23.8	Where the additional BMPs in this Section conflict with requirements elsewhere in this permit, items 23.9 through 23.14 take precedence. [Minn. R. 7090]
23.9	Permittees must immediately initiate stabilization of exposed soil areas, as described in item 8.5 & 8.8, and complete the stabilization within seven (7) calendar days after the construction activity in that portion of the site temporarily or permanently ceases. [Minn. R. 7090]
23.10	Permittees must provide a temporary sediment basin as described in Section 14 for common drainage locations that serve an area with five (5) or more acres disturbed at one time. [Minn. R. 7090]
23.11	Permittees must include an undisturbed buffer zone of not less than 100 linear feet from a special water (not including tributaries) and must maintain this buffer zone at all times, both during construction and as a permanent feature post construction, except where a water crossing or other encroachment is necessary to complete the project. Permittees must fully document the circumstance and reasons the buffer encroachment is necessary in the SWPPP and include restoration activities. This permit allows replacement of existing impervious surface within the buffer. Permittees must minimize all potential water quality, scenic and other environmental impacts of these exceptions by the use of additional or redundant (double) BMPs and must document this in the SWPPP for the project. [Minn. R. 7090]
23.12	Permittees must design the permanent stormwater treatment system so the discharge from the project minimizes any increase in the temperature of trout streams resulting from the one (1) and two (2) year 24-hour precipitation events. This includes all tributaries of designated trout streams located within the same Public Land Survey System (PLSS) Section. Permittees must incorporate one or more of the following measures, in order of preference: a. Provide stormwater infiltration or other volume reduction practices as described in item 15.4 and 15.5, to reduce runoff. Infiltration systems must discharge all stormwater routed to the system within 24 hours. b. Provide stormwater filtration as described in Section 17. Filtration systems must discharge all stormwater routed to the system within 24 hours. c. Minimize the discharge from connected impervious surfaces by discharging to vegetated areas, or grass swales, and through the use of other non-structural controls. d. If ponding is used, the design must include an appropriate combination of measures such as shading, vegetated swale discharges or constructed wetland treatment cells that limit temperature increases. The pond must be designed as a dry pond and should draw down in 24 hours or less. e. Other methods that minimize any increase in the temperature of the trout stream. [Minn. R. 7090]

23.13	Permittees must conduct routine site inspections once every three (3) days as described in item 11.2 for projects that discharge to prohibited waters. [Minn. R. 7090]
23.14	If discharges to prohibited waters cannot provide volume reduction equal to one (1) inch times the net increase of impervious surfaces as required in item 15.4 and 15.5, permittees must develop a permanent stormwater treatment system design that will result in no net increase of TSS or phosphorus to the prohibited water. Permittees must keep the plan in the SWPPP for the project. [Minn. R. 7090]
24.1	**General Provisions**. [Minn. R. 7090]
24.2	If the MPCA determines that an individual permit would more appropriately regulate the construction activity, the MPCA may require an individual permit to continue the construction activity. Coverage under this general permit will remain in effect until the MPCA issues an individual permit. [Minn. R. 7001.0210, subp. 6]
24.3	If the permittee cannot meet the terms and conditions of this general permit, an owner may request an individual permit, in accordance with Minn. R. 7001.0210 subp. 6. [Minn. R. 7001.0210, subp. 6]
24.4	Any interested person may petition the MPCA to require an individual NPDES/SDS permit in accordance with 40 CFR 122.28(b)(3). [40 CFR 122.28(b)(3)]
24.5	In addition to the requirement found in section 20, permittees must make the SWPPP, including all inspection reports, maintenance records, training records and other information required by this permit, available to federal, state, and local officials within three (3) days upon request for the duration of the permit and for three (3) years following the NOT. [Minn. R. 7090]
24.6	Permittees may not assign or transfer this permit except when the transfer occurs in accordance with the applicable requirements of item 3.7 and 3.8. [Minn. R. 7090]
24.7	Nothing in this permit must be construed to relieve the permittees from civil or criminal penalties for noncompliance with the terms and conditions provided herein. Nothing in this permit must be construed to preclude the initiation of any legal action or relieve the permittees from any responsibilities, liabilities, or penalties to which the permittees is/are or may be subject to under Section 311 of the Clean Water Act and Minn. Stat. Section 115 and 116, as amended. Permittees are not liable for permit requirements for activities occurring on those portions of a site where the permit has been transferred to another party as required in item 3.7 or the permittees have submitted the NOT as required in Section 4. [Minn. R. 7090]
24.8	The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstances is held invalid, the application of such provision to other circumstances, and the remainder of this permit must not be affected thereby. [Minn. R. 7090]
24.9	The permittees must comply with the provisions of Minn. R. 7001.0150, subp. 3 and Minn. R. 7001.1090, subp. 1(A), 1(B), 1(C), 1(H), 1(I), 1(J), 1(K), and 1(L). [Minn. R. 7001]
24.10	The permittees must allow access as provided in 40 CFR 122.41(i) and Minn. Stat. Section 115.04. The permittees must allow representatives of the MPCA or any member, employee or agent thereof, when authorized by it, upon presentation of credentials, to enter upon any property, public or private, for the purpose of obtaining information or examination of records or conducting surveys or investigations. [40 CFR 122.41(i)]
24.11	For the purposes of Minn. R. 7090 and other documents that reference specific sections of this permit, "Stormwater Discharge Design Requirements" corresponds to Sections 5, 6 and 14 through 21; "Construction Activity Requirements" corresponds to Sections 7 through 13; and "Appendix A" corresponds to Sections 22 and 23. [Minn. R. 7090]
25.1	**Definitions**. [Minn. R. 7090]
25.2	"Active karst" means a terrain having distinctive landforms and hydrology created primarily from the dissolution of soluble rocks within 50 feet of the land surface. [Minn. R. 7090]
25.3	"Aerial radius measurement" means the shortest straight line distance measurement between the point of stormwater discharge from a project construction site to the nearest edge of the water body receiving the stormwater. This measurement does not follow the meander flow path. [Minn. R. 7090]
25.4	"Best Management Practices (BMPs)" means the most effective and practicable means of erosion prevention and sediment control, and water quality management practices that are the most effective and practicable means of to control, prevent, and minimize degradation of surface water, including avoidance of impacts, construction-phasing, minimizing the length of time soil areas are exposed, prohibitions, pollution prevention through good housekeeping, and other management practices published by state or designated area-wide planning agencies. [Minn. R. 7090]
25.5	"Common Plan of Development or Sale" means one proposed plan for a contiguous area where multiple separate and distinct land-disturbing activities may be taking place at different times, on different schedules, but under one proposed

	plan. One plan is broadly defined to include design, permit application, advertisement or physical demarcation indicating that land-disturbing activities may occur. [Minn. R. 7090]
25.6	"Construction Activity" means activities including clearing, grading, and excavating, that result in land disturbance of equal to or greater than one acre, including the disturbance of less than one acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one acre. This includes a disturbance to the land that results in a change in the topography, existing soil cover, both vegetative and nonvegetative, or the existing soil topography that may result in accelerated stormwater runoff that may lead to soil erosion and movement of sediment. Construction activity does not include a disturbance to the land of less than five acres for the purpose of routine maintenance performed to maintain the original line and grade, hydraulic capacity, and original purpose of the facility. Routine maintenance does not include activities such as repairs, replacement and other types of non-routine maintenance. Pavement rehabilitation that does not disturb the underlying soils (e.g., mill and overlay projects) is not construction activity. [Minn. R. 7090]
25.7	"Dewatering" means the removal of surface or ground water to dry and/or solidify a construction site to enable construction activity. Dewatering may require a Minnesota Department of Natural Resources water appropriation permit and, if dewatering water is contaminated, discharge of such water may require an individual MPCA NPDES/SDS permit. [Minn. R. 7090]
25.8	"Energy Dissipation" means methods employed at pipe outlets to prevent erosion caused by the rapid discharge of water scouring soils. [Minn. R. 7090]
25.9	"Erosion Prevention" means measures employed to prevent erosion such as soil stabilization practices, permanent cover or construction phasing. [Minn. R. 7090]
25.10	"General Contractor" means the party who signs the construction contract with the owner to construct the entire project described in the final plans and specifications. Where the construction project involves more than one contractor, the general contractor is the party responsible for managing the entire project on behalf of the owner. In some cases, the owner is the general contractor. In these cases, the owner signs the permit application as the operator and becomes the sole permittee. [Minn. R. 7090]
25.11	"Groundwater" means the water contained below the surface of the earth in the saturated zone including, without limitation, all waters whether under confined, unconfined, or perched conditions, in near surface unconsolidated sediment or regolith, or in rock formations deeper underground. [Minn. R. 7060]
25.12	"Homeowner Fact Sheet" means an MPCA fact sheet available on the MPCA Construction Stormwater website for permittees to give to homeowners at the time of sale. [Minn. R. 7090]
25.13	"Infeasible" means not technologically possible or not economically practicable and achievable in light of the best industry practices. [Minn. R. 7090]
25.14	"Initiated immediately" means taking an action to commence soil stabilization as soon as practicable, but no later than the end of the workday, following the day when the land-disturbing activities temporarily or permanently cease, if the permittees know that construction work on that portion of the site will be temporarily ceased for 14 or more additional calendar days or 7 calendar days where item 23.9 applies. Permittees can initiate stabilization by: a. prepping the soil for vegetative or non-vegetative stabilization; or b. applying mulch or other non-vegetative product to the exposed soil area; or c. seeding or planting the exposed area; or d. starting any of the activities in a - c on a portion of the area to be stabilized, but not on the entire area; or e. finalizing arrangements to have stabilization product fully installed in compliance with the applicable deadline for completing stabilization. [Minn. R. 7090]
25.15	"Impervious Surface" means a constructed hard surface that either prevents or retards the entry of water into the soil and causes water to run off the surface in greater quantities and at an increased rate of flow than prior to development. Examples include rooftops, driveways, parking lots, and concrete, asphalt, or gravel roads. Bridges over surface waters are considered impervious surfaces. Recreational trails that are distinctly set apart from a roadway (i.e. not parallel) and intended for non-motorized recreational uses are not considered impervious surfaces. Sidewalks that are parallel to a roadway (or generally following alongside a roadway) must still be included as impervious surfaces. [Minn. R. 7090]
25.16	"National Pollutant Discharge Elimination System (NPDES)" means the program for issuing, modifying, revoking, reissuing, terminating, monitoring, and enforcing permits under the Clean Water Act, as amended (33 U.S.C. 1251 et seq. Section 1342 and 40 CFR parts 122, 123, 124 and 450). [Minn. R. 7001.1020]
25.17	"Natural Buffer" means an area of undisturbed cover surrounding surface waters within which construction activities are

	restricted. Natural buffer includes the vegetation, exposed rock, or barren ground that exists prior to commencement of earth-disturbing activities. [Minn. R. 7090]
25.18	"Normal Wetted Perimeter" means the area of a conveyance, such as a ditch or channel, that is in contact with water during flow events that are expected to occur from a two-year, 24-hour storm event. [Minn. R. 7090]
25.19	"Notice of Termination (NOT)" means the form (electronic or paper) required for terminating coverage under the Construction General permit. [Minn. R. 7090]
25.20	"Operator" means the person (usually the general contractor), firm, governmental agency, or other entity designated by the owner who has day to day operational control and/or the ability to modify project plans and specifications related to the SWPPP. The permit application must list the operator as a permittee. Subcontractors hired by and under supervision of the general contractor are not operators. [Minn. R. 7090]
25.21	"Owner" means the person, firm, governmental agency, or other entity possessing the title of the land on which the construction activities will occur or, if the construction activity is for a lease, easement, or mineral rights license holder, the party or individual identified as the lease, easement or mineral rights license holder; or the contracting government agency responsible for the construction activity. [Minn. R. 7090]
25.22	"Permanent Cover" means surface types that will prevent soil failure under erosive conditions. Examples include: gravel, concrete, perennial cover, or other landscaped material that will permanently arrest soil erosion. Permittees must establish a uniform perennial vegetative cover (i.e., evenly distributed, without large bare areas) with a density of 70 percent of the vegetative cover native to local undisturbed areas on all areas not covered by permanent structures, or equivalent permanent stabilization measures. Permanent cover does not include temporary BMPs such as wood fiber blanket, mulch, and rolled erosion control products. [Minn. R. 7090]
25.23	"Permittee(s)" means the person(s), firm, governmental agency, or other entity identified as the owner and operator on the application submitted to the MPCA and are responsible for compliance with the terms and conditions of this permit. [Minn. R. 7090]
25.24	"Project(s)" means all construction activity planned and/or conducted under a particular permit. The project occurs on the site or sites described in the permit application, the SWPPP and in the associated plans, specifications and contract documents. [Minn. R. 7090]
25.25	"Public Waters" means all water basins and watercourses described in Minn. Stat. Section 103G.005 subd. 15. [Minn. Stat. 103G.005, subd.15]
25.26	"Redoximorphic Features" means a color pattern in soil, formed by oxidation and reduction process of iron and/or manganese in seasonally saturated soil. [Minn. R. 7090]
25.27	"Section" includes all item numbers of the same whole number. For example, "Section 3" of the permit refers to items 3.1 through 3.8. [Minn. R. 7090]
25.28	"Seasonally Saturated Soil" means the highest seasonal elevation in the soil in a reduced chemical state because of soil voids filled with water causing anaerobic conditions. Seasonally saturated soil is evidenced by the presence of redoximorphic features or other information determined by scientifically established methods or empirical field measurements. [Minn. R. 7090]
25.29	"Sediment Control" means methods employed to prevent suspended sediment in stormwater from leaving the site (e.g. silt fences, compost logs and storm drain inlet protection). [Minn. R. 7090]
25.30	"Stabilize", "Stabilized", "Stabilization" means the exposed ground surface has been covered by appropriate materials such as mulch, staked sod, riprap, erosion control blanket, mats or other material that prevents erosion from occurring. Grass seeding, agricultural crop seeding or other seeding alone is not stabilization. Mulch materials must achieve approximately 90 percent ground coverage (typically 2 ton/acre). [Minn. R. 7090]
25.31	"Stormwater" means precipitation runoff, stormwater runoff, snowmelt runoff, and any other surface runoff and drainage. [Minn. R. 7090]
25.32	"Steep Slopes" means slopes that are 1:3 (V:H) (33.3 percent) or steeper in grade. [Minn. R. 7090]
25.33	"Storm Water Pollution Prevention Plan (SWPPP)" means a plan for stormwater discharge that includes all required content under in Section 5 that describes the erosion prevention, sediment control and waste control BMPs and permanent stormwater treatment systems. [Minn. R. 7090]
25.34	"Surface Water or Waters" means all streams, lakes, ponds, marshes, wetlands, reservoirs, springs, rivers, drainage systems, waterways, watercourses, and irrigation systems whether natural or artificial, public or private, except that surface waters do not include stormwater treatment systems constructed from upland. This permit does not consider stormwater

	treatment systems constructed in wetlands and mitigated in accordance with Section 22 as surface waters. [Minn. R. 7090]
25.35	"Waters of the State" means all streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, reservoirs, aquifers, irrigation systems, drainage systems and all other bodies or accumulations of water, surface or underground, natural or artificial, public or private, which are contained within, flow through, or border upon the state or any portion thereof. [Minn. Stat. 115.01, subd. 22]
25.36	"Water Quality Volume" means one (1) inch of runoff from the net increase in impervious surfaces created by the project (calculated as an instantaneous volume). [Minn. R. 7090]
25.37	"Wetlands" means those areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. Constructed wetlands designed for wastewater treatment are not waters of the state. Wetlands must have the following attributes: a. a predominance of hydric soils; and b. inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support a prevalence of hydrophytic vegetation typically adapted for life in a saturated soil condition; and c. under normal circumstances support a prevalence of such vegetation. [Minn. R. 7050.0186, subp. 1(a)B]

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

CSW transfer form

NPDES Construction Stormwater (CSW) Permit Program

National Pollutant Discharge Elimination System (NPDES)

Doc Type: Subdivision Registration Form

Instructions: Use this form to transfer an existing permit to a new owner or contractor. Print a copy of the completed form for your records, or save the completed form to your computer in a location where you can easily find it.

Submittal: The person who certifies this form can email the completed form to csw.pca@state.mn.us using "Transfer Form" as the subject line. An auto-reply message will be sent upon the email being received. A manual confirmation email will be sent.

Questions: Email the program at csw.pca@state.mn.us or call the Stormwater Hotline at: 651-757-2119 or 800-657-3804 (non-metro only).

This form cannot be used to:

- Apply for general permit coverage
- Apply for a subdivision registration permit
- Make permit detail modifications

Project information (as listed on the original *Permit application form*)

Project name: SAP 056-635-043_CSAH 35 Resurfacing

Permit number: C000 7 1 6 6 8 ***or*** SUB00 ____ ____ ____ ____ ____

Project location description: CSAH 35 from TH 108 (Dent) to CSAH 4 (Vergas)

Current Owner contact name: Craig Tschida Contact phone: 218-998-8470

Change in permittee information

A. Owner

Owner contact name: _____ Company/ Organization name: _____

Owner mailing address: _____

City: _____ State: _____ Zip code: _____

Email address: _____ Telephone: _____

B. Owner alternate

Owner contact name: _____

Email address: _____ Telephone: _____

C. Contractor

Contact name: _____ Company/ Organization name: _____

Contact mailing address: _____

City: _____ State: _____ Zip code: _____

Email address: _____ Telephone: _____

D. Contractor alternate

Contact name: _____

Email address: _____ Telephone: _____

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. I certify that based on my inquiry of the person, or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of civil and criminal penalties.

By signing my name below, I certify the above statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing this form.

Current Owner authorized signature (required)

Name: _____

Company name: _____

Signature: _____

Date (mm/dd/yyyy) _____

Current Contractor authorized representative

Name: _____

Company name: _____

Signature: _____

Date (mm/dd/yyyy): _____

New Owner authorized signature
(required if permit is transferring to a new owner)

Name: _____

Company name: _____

Signature: _____

Date (mm/dd/yyyy) _____

New Contractor authorized representative
(required if permit is transferring to a new contractor)

Name: _____

Company name: _____

Signature: _____

Date (mm/dd/yyyy): _____

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	CY	0.17
2105	Rock Excavation	CY	0.27
2105	Muck Excavation	CY	0.17
2105	Subgrade Excavation	CY	0.17
2105	Unclassified Excavation	CY	0.23
2105	Granular Borrow (EV)	CY	0.17
2105	Granular Borrow (CV)	CY	0.19
2105	Granular Borrow (LV)	CY	0.14
2105	Select Granular Borrow (EV)	CY	0.17
2105	Select Granular Borrow (CV)	CY	0.19
2105	Select Granular Borrow (LV)	CY	0.14
2105	Common Borrow (EV)	CY	0.17
2105	Common Borrow (CV)	CY	0.19
2105	Common Borrow (LV)	CY	0.14
2105	Topsoil Borrow (EV)	CY	0.17

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

Specification Number	Item	Unit	Gallons of Fuel per Unit
2232	Mill Bituminous Surface *t* inches	SY	0.019**t*
2301	Concrete Pavement *t* inches	SY	0.027**t*
2301	Place Concrete Pavement *t* inches	SY	0.027**t*
2360	Type SP ( ) Wearing Course Mixture	Ton	0.90
2360	Type SP ( ) Wearing Course Mixture	Ton	0.90
2360	Type ( ) Mixture *t* inches thick	SY	0.051**t*
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.

04/21/22

DEPARTMENT OF TRANSPORTATION

PLANT CERTIFICATION APPLICATION

Name of Company:_____ Plant Name:_____

Address:_____ Plant Location:_____

Authorized Employee:_____ Plant Operator:_____

Telephone No.:_____ Telephone No.____ _____

Being a duly authorized agent of the above mentioned company, I hereby acknowledge that the following conditions have been met:

- Our Quality Assurance/Quality Control Program is in compliance with all Mn/DOT Specification requirements.
- All plant operations equipment and bituminous mixture testing equipment is in proper working order and has been calibrated in accordance with all Mn/DOT Specifications and requirements.
- All bituminous mixture testing personnel have met Mn/DOT's certification requirements for quality assurance projects.
- A site map is available showing the type of material, description, and locations of all materials to be used.

Authorized Signature:_____

I hereby request a Mn/DOT Plant Inspection to complete this application.

Application Request:

Plant Inspected by:_____ _____ Approved

_____ Denied

Reasons for denial:_____

_____

Comments:_____

_____

_____

_____

Plant Inspector or Materials Engineer

NOTICE TO BIDDERS

Particular note should be made in regard to the clarity of numerals (figures) and to the procedure for alterations and the required certificate as directed by Section 1301.

The following abbreviations may be used in item description and unit of measure in the Schedule of Prices.

A	Arch
A-S	Antiseepage
AB	Asbestos Bonded
ACT	Actuated
AGG	Aggregate
ALUM	Aluminum
ASB	Asbestos
ASPH	Asphaltic
ASSY	Assemblies
B+B	Balled & Burlapped
BC	Bituminous Coated
BIT	Bituminous
BLDG	Building
BR	Bridge
CAL	Caliper
CB	Catch Basin
CEM	Cement
C and G	Curb and Gutter
CI	Cast Iron
C-I-P	Cast-in-Place
CL	Class
COMM	Commercial
CONC	Concrete
COND	Conductor
CONN	Connection
CONST	Construct
CONT	Continuously
CP	Cattle Pass
CTD	Coated
CU FT	Cubic Feet
CU YD	Cubic Yard
CULV	Culvert
CWT	Hundred Weight
DES	Design
DBL	Double
DI	Drop Inlet
DIAM	Diameter
DRWY	Driveway
EXC	Excavation
EXP	Expansion
FAB	Fabric
FE	Fence
FERT	Fertilizer
F+I	Furnish & Install
FOUND	Foundation
FT LG	Feet Long
FURN	Furnish
GA	Gauge
GRAN	Granular
HI	High
INP	In Place
INST	Install
JA	Jacked
LIN FT	Linear Feet
LG	Long
MAINT	Maintenance
MATL	Material
MGM	1000 Board Feet
MET	Metal
MOD	Modification
MPA	Metal Pipe Arch
MTD	Mounted
NON MET	Non Metallic
NON PERF	Non-Perforated
NON REINF	Non-Reinforced
OH	Overhead
P-A	Pipe-Arch
PAVT	Pavement
PERF	Perofrated
PL	Plate
PNEUM	Pneumatic
PREC	Precast
PREST	Prestressed
PVC	Poly Vinyl Chloride
RCPA	Reinforced Concrete Pipe Arch
REINF	Reinforced
RELO	Relocation
RESTOR	Restoration
RMC	Rigid Metallic Conduit
RNMC	Rigid Non Metallic Conduit
RDWY	Roadway
S-G	Sand & Gravel
SIG	Signal
SPE	Special
SQ FT	Square Feet
SQ YD	Square Yard
STA	Station
STD	Standard
STL	Steel
STKPL	Stockpile
STR	Strength
STRUCT	Structural
SPPA	Structural Plate Pipe Arch
SYS	System
T	Traffic
TBR	Timber
TEMP	Temporary
THERMO	Thermoplastic
TRTD	Treated
UNDERGRD	Underground
UNTRTD	Untreated
VAR	Variable
VM	Vehicular Measure
WEAR	Wearing

NON-COLLUSION AFFIDAVIT

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

State Project No. _____

Federal Project No. _____

State of Minnesota _____)

) ss

County of _____)

I, _____, do state under penalty of
(name of person signing this affidavit)

perjury under 28 U.S.C. 1746 of the laws of the United States:

(1) that I am the authorized 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

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

Signed: _____
(bidder or his authorized representative)

TO

OTTER TAIL COUNTY

DEPARTMENT OF HIGHWAYS

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

( ) Have a certificate of compliance issued by the Department of Human Rights.

( ) Have applied for a certificate of compliance to the Commissioner of Human Rights, which is pending.

( ) This is not applicable to companies that do not meet the following:

1. more than 40 full-time employees on a single working day during the previous 12 months, or
2. a contract for goods or services (including construction contracts) in excess of $100,000.

_____
Signature of Bidder

_____
Position

_____
Name of Firm

_____
Date

This form may be used to furnish proof of necessary compliance with Minnesota Statutes, Section 363, implementing the rules and regulations of the Minnesota Department of Human Rights. All questions should be referred to the Minnesota Department of Human Rights, Bremer Building, St. Paul, Minnesota. Telephone (651)296-5663.

ATTACHMENT A
PRIME CONTRACTOR RESPONSE

RESPONSIBLE CONTRACTOR VERIFICATION AND CERTIFICATION OF COMPLIANCE

STATE PROJECT NUMBER: 056-635-043

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, 181.03, 181.101, 181.13, 181.14, or 181.722, and has not violated United States Code, title 29, sections 201 to 219, or United States Code, title 40, sections 3141 to 3148. For purposes of this clause, a violation occurs when a contractor or related entity: (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: 056-635-043

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: 056-635-043

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:	

Schedule of Prices

Line No.	Mat No.	Item	Units	Quantity	Unit Price	Total Price
1	2021.501	MOBILIZATION	LUMP SUM	1	$	$
2	2051.501	MAINT AND RESTORATION OF HAUL ROADS	LUMP SUM	1	$	$
3	2101.501	CLEARING AND GRUBBING	LUMP SUM	1	$	$
4	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	360	$	$
5	2104.503	REMOVE CATTLE PASS	LIN FT	66	$	$
6	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	7,157	$	$
7	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	341	$	$
8	2104.507	REMOVE AGGREGATE	CU YD	9,745	$	$
9	2104.518	REMOVE CONCRETE WALK	SQ FT	339	$	$
10	2106.507	EXCAVATION - COMMON (P)	CU YD	15,244	$	$
11	2106.507	GRANULAR EMBANKMENT (CV) (P)	CU YD	6,630	$	$
12	2106.507	SELECT GRANULAR EMBANKMENT (CV) (P)	CU YD	736	$	$
13	2106.507	COMMON EMBANKMENT (CV) (P)	CU YD	14,661	$	$
14	2108.504	GEOTEXTILE FABRIC TYPE 5	SQ YD	220	$	$
15	2118.509	AGGREGATE SURFACING CLASS 1	TON	2,762	$	$
16	2211.509	AGGREGATE BASE CLASS 5	TON	2,236.50	$	$
17	2215.504	STABILIZED FULL DEPTH RECLAMATION	SQ YD	209,375	$	$
18	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,C)	TON	18,477	$	$
19	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (3,C)	TON	18,477	$	$

20	2521.518	6" CONCRETE WALK	SQ FT	344	$	$
21	2531.618	TRUNCATED DOMES	SQ FT	36	$	$
22	2540.602	MAIL BOX SUPPORT	EACH	41	$	$
23	2563.601	TRAFFIC CONTROL	LUMP SUM	1	$	$
24	2563.602	RAISED PAVEMENT MARKER TEMPORARY	EACH	895	$	$
25	2564.518	SIGN PANELS TYPE C	SQ FT	50	$	$
26	2573.503	SILT FENCE, TYPE MS	LIN FT	7,208	$	$
27	2573.503	SEDIMENT CONTROL LOG TYPE WOOD CHIP	LIN FT	32,130	$	$
28	2574.505	SOIL BED PREPARATION	ACRE	12.6	$	$
29	2574.508	FERTILIZER TYPE 3	POUND	4,354	$	$
30	2574.508	FERTILIZER TYPE 4	POUND	2	$	$
31	2575.505	SEEDING	ACRE	12.6	$	$
32	2575.508	HYDRAULIC BONDED FIBER MATRIX	POUND	44,010	$	$
33	2575.523	RAPID STABILIZATION METHOD 3	M GALLON	75.4	$	$
34	2575.608	SEED MESIC INSLOPE	LB	723.5	$	$
35	2575.608	SEED WET DITCH	LB	0.3	$	$
36	2575.608	SEED SOUTHERN TALLGRASS ROADSIDE	LB	41.5	$	$
37	2580.503	INTERIM PAVEMENT MARKING	LIN FT	4,557	$	$
38	2582.503	4" SOLID LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	23,255	$	$
39	2582.503	6" SOLID LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	111,449	$	$
40	2582.503	4" BROKEN LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	8,564	$	$
41	2582.503	4" DOUBLE SOLID LINE MULTI-COMPONENT GROUND IN (WR)	LIN FT	14,075	$	$

42	2582.503	24" SOLID LINE PREFORM TAPE GROUND IN	LIN FT	177	$	$
43	2582.518	PAVEMENT MESSAGE PREFORM TAPE GROUND IN	SQ FT	291.65	$	$
44	2582.518	CROSSWALK MULTI-COMPONENT GROUND IN (WR)	SQ FT	150	$	$

GRAND TOTAL BID $_____

Form 21126D (FF Rev. 1-09)
State Project No. S.A.P. 056-635-043

The undersigned 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:_____

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

NON-COLLUSION AFFIDAVIT: 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 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 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.)