

### TOWN OF HAVEN

## Legend

PLSS

### Road Type

US Highway

MN Highway

CSAH

County Road

Township Road

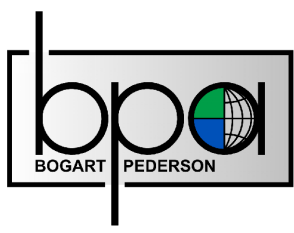
City Street

Privately Maintained Public Access

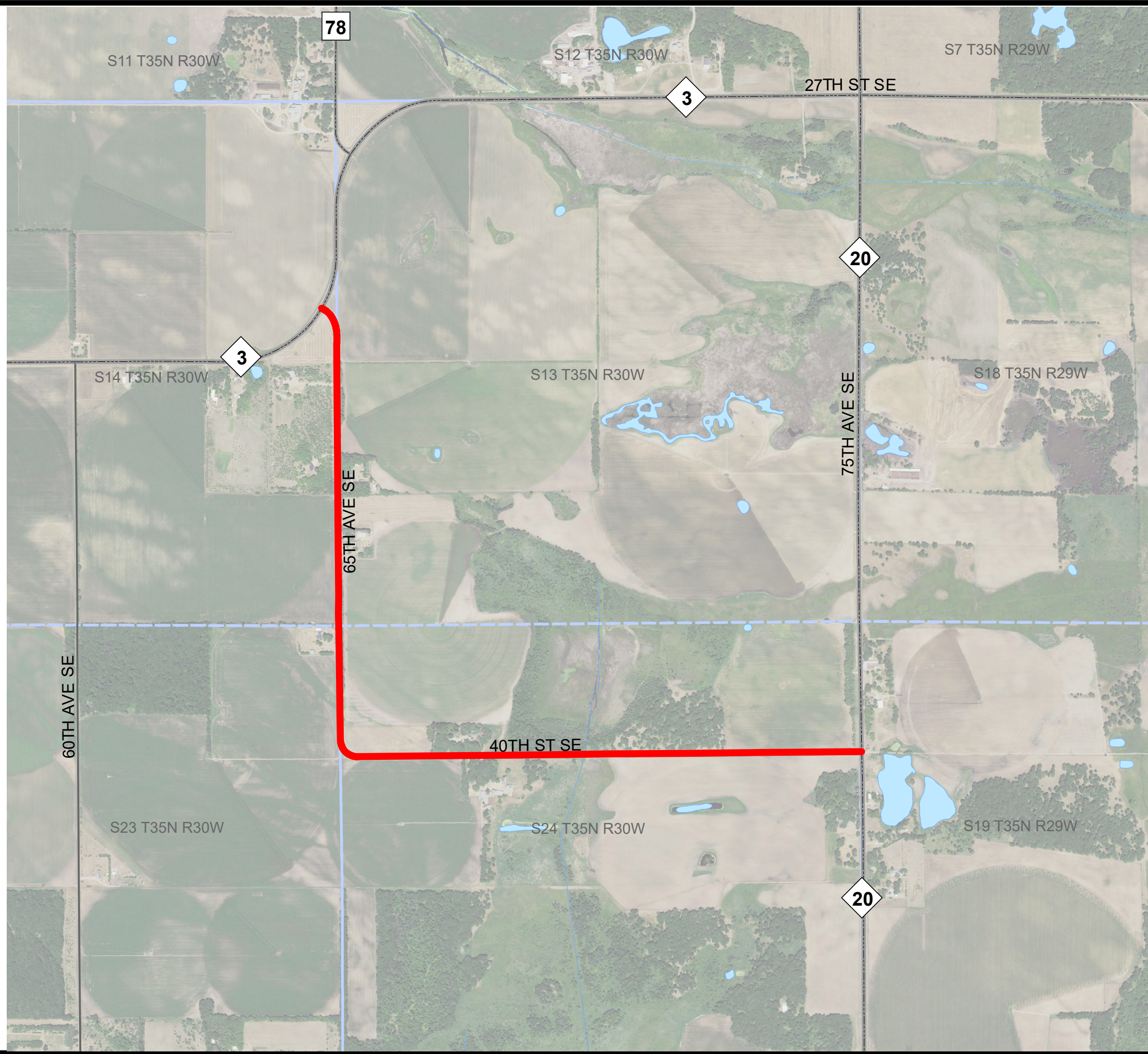
### Primary Bid

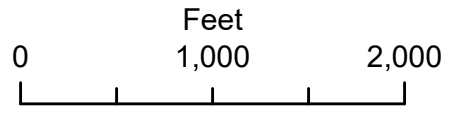
2" Overlay

2" Overlay approximately 1.85 miles.  
65th Ave SE approximately 22' wide.  
40th St SE approximately 18' wide.



LAND SURVEYING  
CIVIL ENGINEERING  
ENVIRONMENTAL SERVICES





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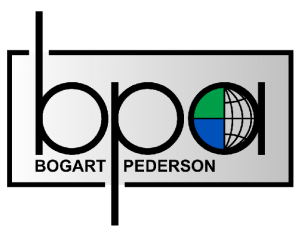
Privately Maintained Public Access

### Alternate Bid

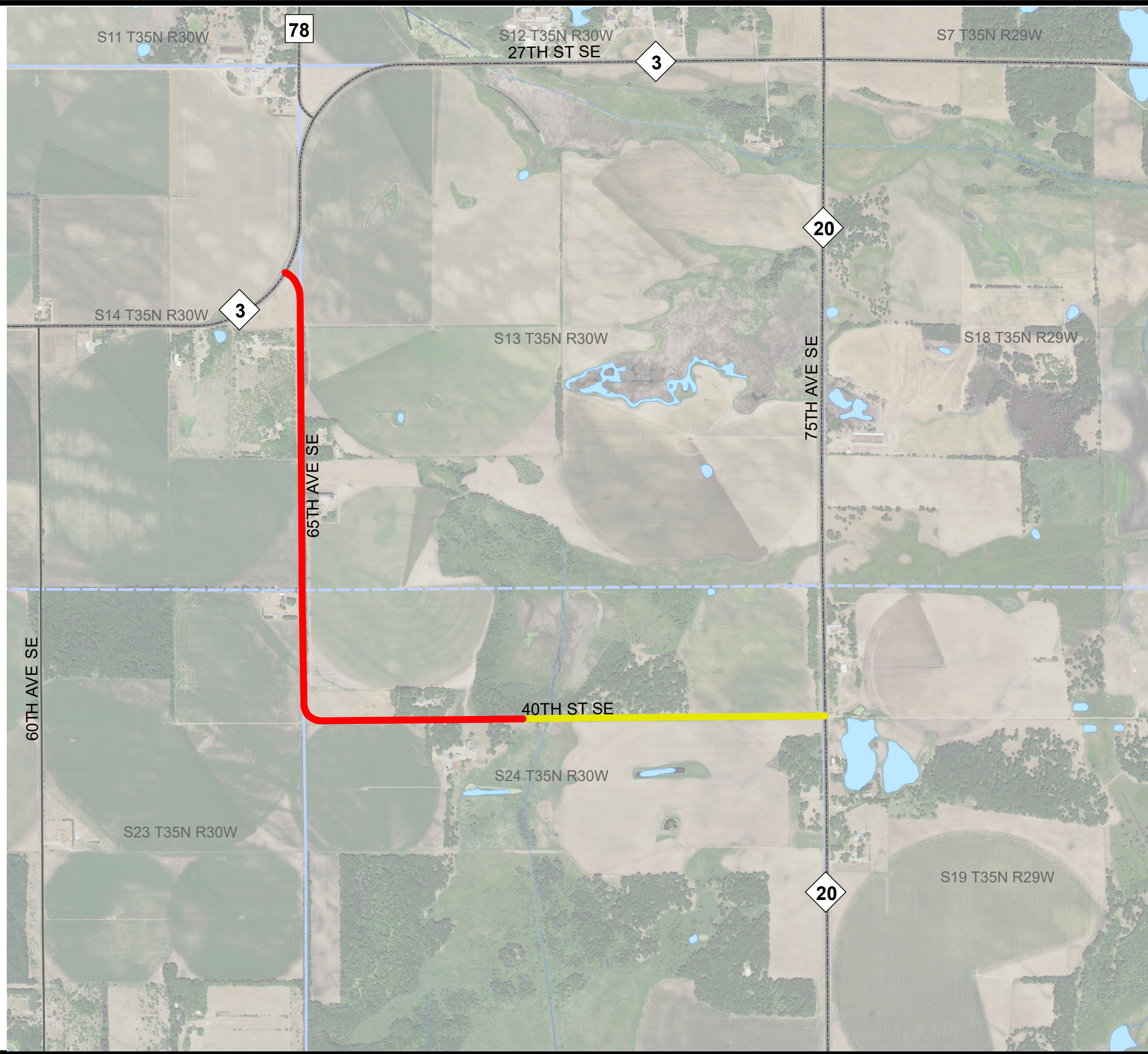
2" Overlay


Double Chip Seal

2" Overlay approximately 1.27 miles.  
Double Chip Seal approximately 0.58 miles.  
65th Ave SE approximately 22' wide.  
40th St SE approximately 18' wide.



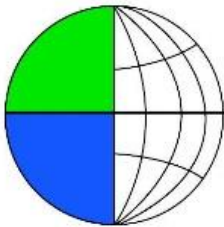
LAND SURVEYING  
CIVIL ENGINEERING  
ENVIRONMENTAL SERVICES





March 8, 2023

**65<sup>th</sup>/40<sup>th</sup> STREET SURFACING  
BITUMINOUS OVERLAY  
HAVEN TOWNSHIP  
SHERBURNE COUNTY, MN**



**Bogart, Pederson  
& Associates, Inc.**

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LAND SURVEYING  
CIVIL ENGINEERING  
MAPPING

A handwritten signature in black ink, appearing to read 'Wesley P. Davis'.

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Wesley P. Davis, P.E.

Reg. No. 55886



# **SPECIAL PROVISIONS**

## **65<sup>th</sup>/40<sup>th</sup> STREET SURFACING**

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Advertisement for Bids  
Schedule of Prices  
Notice to Bidders – Debarments  
Notice to Bidders – Prompt Payment to Subcontractors  
Notice to Bidders – Bid Rigging

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G-3       (1302) Award of Contract  
G-4       Surety Deposits for Non-Minnesota Construction Contractors

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Responsible Contractor  
Bid Bond

**ADVERTISEMENT FOR BIDS  
65<sup>th</sup>/40<sup>th</sup> STREET SURFACING  
HAVEN TOWNSHIP, SHERBURNE COUNTY, MINNESOTA**

Notice is hereby given that SEALED Bid Proposal Packages will be received by the Township at the Township Hall until **10:00 AM on March 27th 2023.**

The Major Quantities of Work are:

Subgrade Prep	21,600 Sq Yd.
SPWEB240B (2")	2,441 Tons
Double Chip Seal	6,090 Sq Yd
Traffic Control	1 Lump Sum

**Receipt of Bid Proposal:** Bids will be received at the Township Hall Located at **4230 45<sup>th</sup> Ave SE, St. Cloud, MN 56304** until **10:00 AM on March 27th 2023.**

SEALED Bids can be mailed to:  
Haven Township  
Clerk's Office  
PO Box 339  
St. Cloud, MN 56302-339

**Bid Opening:** Proposals will be opened by the Engineer or the Town Board after the hour set for receiving bids at the Township Hall at **4230 45<sup>th</sup> Ave SE, St. Cloud, MN 56304.**

Plans and Specifications may be examined at the office of Bogart, Pederson & Associates, Inc, 13076 First Street, Becker, MN 55308, or obtained by contacting Wesley Davis, PE at [wdavis@bogart-pederson.com](mailto:wdavis@bogart-pederson.com) or 763-262-8822.

**The cost to obtain a hard copy of the Plans & Specifications is \$50.00 with a \$10.00 mailing fee.**

Bids must be accompanied by a Certified Check or Bidder's Bond made payable to the Township as a proposal guarantee for **at least 5% of the amount of the bid.**

No Bidder may withdraw their bid (which shall include the Certified Check or Bidder's Bond) within 15 days after the scheduled closing time for the receipt of bids.

The Township will consider award of the contract at the **April 17<sup>th</sup>, 2023**, meeting contingent upon Engineer review. It is the Township's Intent to begin and complete construction in the year **2023.**

The Township reserves the right to reject any or all bids and to waive informalities.

**Haven Township, Sherburne County, MN**

**65<sup>th</sup>/40<sup>th</sup> STREET SURFACING  
SCHEDULE OF PRICES**

We, the undersigned, doing business as \_\_\_\_\_

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and hereinafter known as the Bidder have examined the Specifications, Drawings, and other related Contract Documents for the proposed project, official copies of which are on file in the office of the Owner. We are familiar with the site and location of the project, the availability of materials and labor, the work to be performed and the local conditions affecting the cost of the work under which it must be performed, and this proposal is filed in complete acceptance of these conditions. We hereby propose to furnish all labor, materials and equipment, to perform all work in accordance with the Contract Documents within the time set forth therein, and submit the following prices, including all sales tax, and all other applicable taxes and fees.

If awarded the contract by resolution of the Owner, we agree to sign the prescribed form of contract and furnish the required corporate surety bonds within ten (10) days after the date of such resolution of contract award. This proposal is filed with the understanding that the Owner may retain the same for consideration for a period of thirty (30) days from and after the established date for receiving bids.

By submission of this Proposal, we certify, and in the case of joint proposals, each party thereto certifies as its own organization, that this Proposal has been arrived at independently without consultation, communication, or agreement as to any matter relating to this Proposal with any other Bidder or competitor.

If awarded the contract, we agree to start and complete the specified construction in compliance with the terms stated in the contract documents and this proposal is filed with the understanding that payment will be made in the manner set forth therein. We agree to accept as full payment for the work, an amount equal to the total unit prices hereinafter set forth applied to final quantities of work actually performed and satisfactorily completed.

The Bidder understands and agrees that the bids are on a unit price basis, that the Owner may specify any number or combination of units they deem necessary for the construction of the project and that the contract will be awarded to the Bidder submitting the lowest Base Bid Total. Bidders must submit proposals on all items included in the Bid Schedule.

If awarded this contract, we agree to perform all work in accordance with the contract documents and in a good workmanlike manner; to renew or repair any work which may be rejected due to defective materials or substandard workmanship prior to final acceptance and to renew or repair



any work or materials found to be defective within one (1) year(s) after acceptance of the project.

If awarded the contract, we agree to commence work on or before the date specified in the Notice to Proceed and complete the specified construction in compliance with the terms stated in the contract documents. We further agree to pay as liquidated damages according to section 1807 of the Minnesota Standard Specifications for Construction for each consecutive working day that any work remains uncompleted after the expiration of the Contract time.

We hereby acknowledge receipt of Addenda Nos. \_\_\_\_, \_\_\_\_, \_\_\_\_.

(Failure to complete the foregoing acknowledgment of receipt of addenda by the insertion of the identifying number in the above blanks may result in disqualification of the bid.)

It is understood by the undersigned that the Owner reserves the right to reject any and all bids and to waive irregularities and formalities in order to serve the best interest of the Owner.

SCHEDULE OF PRICES

<b>Primary Bid Form (2" Overlay)</b>				
Item	Unit	Est. Quantity	Unit Price	Extension
Mobilization	LS	1		
Subgrade Prep	Sq Yd	21,600		
SPWEB240B (2")	Tons	2,441		
Traffic Control	LS	1		
			<b>Total</b>	
<b>Alternate Bid Form (2" Overlay/Double Chip Seal)</b>				
Item	Unit	Est. Quantity	Unit Price	Extension
Mobilization	LS	1		
Subgrade Prep	Sq Yd	21,600		
SPWEB240B (2")	Ton	1,750		
CRS-2p	Gallon	4,263		
Css-1h diluted	Gallon	609		
FA-3 Granite	Sq Yd	6,090		
Traffic Control	LS	1		
			<b>Total</b>	

We certify that this bid has been prepared using the following manufacturer's product/equipment. We certify that the manufacturers listed herein have been cited in The Technical Specifications or have been cited by Addendum issued prior to the day of Bid opening and have been determined by the Engineer to meet the requirements of "or equal". We further certify that if awarded the contract for the project, the listed product/equipment will be furnished and installed in the completed work.

Respectfully submitted,

**Bidder Name:** \_\_\_\_\_

**Bidder Company:** \_\_\_\_\_

**Bidder Address:** \_\_\_\_\_

\_\_\_\_\_

**Bidder Phone:** \_\_\_\_\_

**Bidder Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

MINNESOTA DEPARTMENT OF TRANSPORTATION  
NOTICE TO BIDDERS  
SUSPENSIONS/DEBARMENTS

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 lists of suspended and debarred vendors when submitting a bid and when submitting a request to sublet.

**State Suspensions and Debarments.**

To review the list of parties suspended and debarred by the State of Minnesota, go to this website: <http://www.mmd.admin.state.mn.us/debarredreport.asp> . 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 website listing suspended and debarred parties. You do not need a username or password to use the search functions on the website. You can either search for specific entity names, or see a list of parties suspended and debarred by the Federal Highway Administration.

To search the status of a particular vendor, follow this process:

First, go to the System for Awards Management (SAM) website: <https://www.sam.gov> (requires Internet Explorer version 11 or higher, or another supported browser such as Chrome).

Next, click on the "Search Records" icon.

Next, enter the potential subcontractor or supplier's name in the "Quick Search" box and click the "search" button.

To view a list of all entities suspended or debarred by the Federal Highway Administration, follow this process:

First, go to the System for Awards Management (SAM) website: <https://www.sam.gov> (requires Internet Explorer version 11 or higher, or another supported browser such as Chrome).

Next, click on the "Search Records" icon.

Next, click on the "Advance Search – Exclusion" tab.

Next, click on the "single search" icon and a search form will pop up.

Next, go to the "Agency" field on the search page and select "Federal Highway Administration" from the drop-down list.

Next, click the "search" button, and the list of suspended and debarred parties will appear.

## 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.

**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.

## GENERAL PROVISIONS

### **G-1**            **GOVERNING SPECIFICATIONS**

The latest edition of the Minnesota Department of Transportation “STANDARD SPECIFICATIONS for CONSTRUCTION” shall govern except as modified or altered in these special provisions. Wherever, in these specifications, the term “State” or “Department” is used, it shall be construed to mean the **Township**.

### **G-2**            **PROPOSAL**

The proposal form will be furnished by Bogart, Pederson & Associates, Inc. The envelope containing the bid shall be addressed to the Township Board at the address indicated on the Advertisement for Bids and the envelope shall bear the inscription of the Project Name.

### **G-3**            **(1302) AWARD OF CONTRACT**

The provisions of Specification 1302 are hereby supplemented by the following:

As a condition precedent to the award of contract, the bidder shall furnish proof that he is in compliance with Minnesota Statutes Section 363, as amended by Laws of 1969, implementing the rules and regulations of the Minnesota Department of Human Rights.

### **G-4**            **SURETY DEPOSITS FOR NON-MINNESOTA CONSTRUCTION CONTRACTORS**

If the Township hires or contracts with a non-Minnesota contractor to perform work, the Township will withhold 8 percent of their compensation as a Minnesota surety deposit. Payments are subject to 8 percent withholding only if the work was performed in Minnesota and the value of the contract exceeds \$50,000.

The cash surety will be deposited with the department of revenue and is used as a surety guarantee that the contractor has fulfilled the requirements for withholding, sales and use, franchise and income taxes.

### **Exemption**

A non-Minnesota construction contractor may qualify for an exemption from the surety deposit if one of the following requirements are met:

- The contractor gives the department a bond that is secured by an insurance company licensed in Minnesota and is equal to 8 percent of the contract. The bond remains in effect until the contractor satisfies all tax liabilities. You may choose to complete Form SBD, Non-Minnesota Contractor’s Bond, to submit to the department.
- The contractor gives the department a cash surety. A cash surety is evidence of a savings account, deposit or certificate of deposit in, or issued by, a state bank, national bank or savings loan association doing business in Minnesota. Interest and dividends earned on the principal amount may be retained by the contractor.
- The contractor is performing work for a government agency and has a payment and performance bond.
- The contractor has done construction work in Minnesota during the past three calendar years and has fully complied with Minnesota laws regarding withholding, sales and use, corporate franchise and income taxes.

**S-1                    RESPONSIBLE CONTRACTOR**

MnDOT Revised 5/2020

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 SUMMITTED WITH THE BID PROPOSAL.**

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

Design professionals licensed under Minnesota Statutes §326.06; and

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

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

**S-2                    COMPLIANCE WITH TAX LAW REQUIREMENTS**

MnDOT Revised 5/2020

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 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 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’s website at : <https://www.revenue.state.mn.us/sites/default/files/2019-05/Employment%20Taxes%20Seminar%20Flyer.pdf>.

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. 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 here:  
<https://www.revenue.state.mn.us/contractor-affidavit-requirements>

**S-3            (1203) ACCESS TO PROPOSAL PACKAGE**

MnDOT Revised 10/2013

MnDOT 1203 is hereby deleted from the MnDOT Standard Specifications.

**S-4            (1206) PREPARATION OF PROPOSAL**

MnDOT Revised 10/2013

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

MnDOT 1206.1 is hereby deleted from the MnDOT Standard Specifications.

MnDOT 1206.2 is hereby deleted from the MnDOT Standard Specifications and replaced with the following:

**1206.2 ALLOWABLE SUBSTITUTIONS**

For all Proposals the Bidder shall use the following method:

- (1) Submit a Proposal on the Bid Schedule forms provided by the Department. The Bidder shall:
- (2) Submit a Unit Price in numeric figures for each Pay Item for which a quantity is shown. Assume a numeric quantity of "1" for each "Lump Sum" Pay Item, except as not required in the case of alternate Pay Items,
- (3) Show the extensions resulting from Unit Prices multiplied by the shown quantities in the specified column, and
- (4) Add the extended Pay Item amounts to show the total amount of the Proposal.

The Bidder shall write the figures in ink or provide typed or computer printed figures. In the case of a discrepancy between a Unit Price and extension in a Proposal, the Unit Price will govern.

If a Bidder fails to provide a Unit Price for any Pay Item on the Bid Schedule, except for "Lump Sum" Pay Items, the Department will reject the Proposal.

If a Pay Item in the Proposal requires the Bidder to choose an alternate Pay Item, the Bidder shall indicate its choice in accordance with the Specifications for that Pay Item.

An authorized representative of the Bidder must sign the Proposal.

**S-5            (1209) DELIVERY OF PROPOSALS**

MnDOT Revised 10/2015

The provisions of MnDOT 1209 are modified with the following:

When submitting a Proposal in accordance with 1206.2, "Allowable Substitutions," of these Special Provisions, the Bidder shall deliver the Proposal and the Proposal Guaranty in a sealed envelope. The Bidder shall mark the sealed envelope with the name of the Bidder, the Project number, and the letting date. The Bidder shall deliver the sealed envelope to the Department as specified in the Advertisement for Bids as follows:



- (1) To the address specified,
- (2) In care of the official receiving the Proposals, and
- (3) By the date and time for opening Proposals.

The Bidder shall return paper copies of the following with the submitted Proposal:

- (1) Proposal title sheet;
- (2) The complete "Schedule of Prices," with all changes made in ink and initialed;
- (3) Form 21126D, "Proposal Signature Page" attached to the back of the Proposal, with signatures and all Addenda acknowledged;
- (4) Form CM 32-34, "EEO Clause;"
- (5) Non-collusion affidavit; and
- (6) Any other forms included in the Proposal Package.

If the Department receives a Proposal after the date and time for opening Proposals, the Department will return the Proposal to the Bidder unopened.

**S-6                    (1210) REVISION OF PROPOSAL PACKAGE OR WITHDRAWAL OF PROPOSALS**

MnDOT Revised 10/2015

The provisions of MnDOT 1210 are deleted and replaced with the following:

When submitting a Proposal in accordance with 1206.2, "Allowable Substitutions," of these Special Provisions, the Bidder may revise or withdraw its Proposal after delivery to the Department if the Department receives the Bidder's written request for withdrawal or revision before the date and time for opening Proposals.

The Department reserves the right to revise the Proposal Package at any time before the date and time for opening Proposals. The Department will issue a numbered and dated Addendum for any revision of the Proposal Package. The Department will post each Addendum as announced in an e-mail or other method of notification to each Bidder on the Department's list of Bidders.

The Department will include each Addendum with all Proposal Forms issued to the Bidder after the date of the Addendum.

If revisions made by an Addendum require change to Proposals or reconsideration by the Bidder, the Department may postpone opening Proposals. If the Department postpones opening Proposals, the Department will specify the new date and time for opening Proposals in the Addendum.

The Bidder shall acknowledge receipt of each Addendum in the proposal.

**S-7                    (1212) OPENING OF PROPOSALS**

MnDOT Revised 10/2014

The provisions of MnDOT 1212 are modified with the following:

MnDOT 1212 is hereby deleted from the MnDOT Standard Specifications and replaced with the following:

**1212    OPENING OF PROPOSALS**

The Department will open Proposals at the time, date, and place defined in the Proposal Package and the Advertisement for Bids.

**S-8**                    **(1506) SUPERVISION BY CONTRACTORS**

Revised 3/26/18

The provisions of MnDOT 1506 are hereby modified and supplemented as follows:

**Bogart, Pederson & Associates, Inc. Staff will not coordinate the work of Subcontractors and/or Utility Companies. Coordination of the work is the sole responsibility of the Contractor.**

If the Contractor fails to provide competent personnel on the project to manage, direct and coordinate the work in progress, **the Contractor shall be subject to a \$1,500.00 per calendar day deduction.** If the Contractor fails to keep a complete set of the Contract documents on the Project while work is in progress, **the Contractor shall be subject to a \$1,500.00 per calendar day deduction.**

**S-9**                    **(1507) UTILITY PROPERTY AND SERVICE**

Revised 3/26/18

Work near public utilities shall be in accordance with the provisions of 1507 and the following:

The Contractor will be required to work around all utility poles, whether or not they have been moved or lowered. Where poles have not been moved, or lowered, prior to grading operations, a mound of earth shall be left around each pole, of sufficient size to ensure its stability as approved by the utility company. Where such poles are moved or lowered before all grading on the project is otherwise completed, the Contractor shall remove any mounds of earth that have been left. No compensation in addition to the contract price for common excavation will be made for this work.

The Contractor shall be responsible to contact all utility companies having utilities located within the construction project to locate and identify said utilities. The Contractor shall also take action not to damage said utilities and work in cooperation with the utility companies to permanently or temporarily relocate utilities as necessary to complete required work.

**S-10**                    **(1508) CONSTRUCTION STAKES, LINES, AND GRADES**

Revised 4/20/18

The provisions of MnDOT 1508 are supplemented and modified as follows:

The following is added to the first paragraph of MnDOT 1508:

The Contractor must provide a prioritized written list of Project staking segments for construction staking by the Engineer. Each segment must not exceed 1/2 mile in length. The Contractor must provide the list at the pre-construction conference. The Engineer will schedule staking according to the priority list as work progresses. When the Contractor requests a change in priority, the Contractor must provide at least **2 day** advance notice to the Engineer, excluding non-work days, to allow the Engineer to remobilize a survey crew to the revised priority staking segment.

The Engineer will mark all alignment and elevation control points with Department-furnished lath. The Department will furnish all survey stakes and hubs. However, the Contractor must furnish lath for any additional construction stakes where the Contractor desires increased visibility. The Engineer will place the Contractor's lath at the time of construction staking.

***The prime contractor will have a grading foreman or competent personnel on site during grading operations. The grading foreman or competent personnel will use the grading reference hubs to build the grade of the road. The prime contractor (grading foreman or competent personnel) shall verify the grade of subgrade, at which time said person will contact the inspector to call the surveyors for bluetops. Tolerance of subgrade prior to calling surveyors is 0.25' low and 0.25' high. Cost of being out of tolerance will be the same as the cost of replacing stakes and marks, as described below.***

The following is added to the third paragraph of MnDOT 1508:

The Department will provide necessary staking for construction and inspection purposes to the following extent:

- (A) Centerline alignment, where needed for additional construction staking. The Department will not replace centerline alignment except as necessary for replacing of other construction stakes.
- (B) Reference hubs (bluetops) at approximate 100 foot intervals at a measured distance either side of centerline, including cut or fill instructions for roadbed centerline and planned ditch grades.
- (C) Line and grade stakes for *all* pipe culvert, storm drain, and tile drainage work at the pipe ends, at each structure, at any break in flow line grade or alignment.
- (D) ***One set of subgrade bluetops, at subgrade shoulder P.I., centerline, lane lines and at any grade breaks or profile changes.*** The bluetops will be placed at 100 foot intervals on tangent sections or curves flatter than 20 degrees, and at approximate 50 foot intervals on curves of 2 degrees and sharper.
- (E) ***Where gravel base and/or surfacing is a part of the work, one additional set of bluetops will be placed as in D above, for the top of the gravel base and/or surfacing.***

The following is added to the fourth paragraph of MnDOT 1508:

The cost of replacing stakes and marks will be based on the actual number of hours of field and office work in accordance with the following wage and equipment rates, per Bogart Pederson fee schedule 2020:

	<u>Hourly Rates</u>
<i>Engineer or Land Surveyor</i>	<i>\$130 per hour</i>
<i>2-person crew</i>	<i>\$165 per hour</i>

**S-11                    (1717) MPCA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**  
**(NPDES) CONSTRUCTION STORM WATER (CSW) PERMIT**

MnDOT Revised 4/2019

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:

By signing the Proposal and completing the electronic online NPDES CSW permit, the Contractor is a co-permittee with the **Township** and must ensure compliance with the terms and conditions 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.

The Contractor shall apply and pay for the NPDES Permit on this Project. Payment for the application shall be incidental to the Contract and no direct compensation will be made. Upon request, **Township** will provide the Contractor with information as may be necessary for the Contractor to complete the application. The Contractor shall complete the application process, and post the Permit and MPCA’s letter of coverage onsite.

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 **Township**; 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 **Township** 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.

<b>NPDES Permit Requirements</b>	<b>Cross-Reference within this Contract</b>
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) Completing Inspection / Maintenance Log / Records	MnDOT 1717 and 2573; 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;

NPDES Permit Requirements	Cross-Reference within this Contract
	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-12 (1801) SUBLETTING OF CONTRACT**

MnDOT Revised 5/2020

The provisions of MnDOT 1801 are modified as follows:

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

The third paragraph of MnDOT 1801 is modified to read:

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

**S-13 (1803) PROGRESS SCHEDULES**

Revised 3/26/18

The provisions of 1803 are modified as follows:

The contractor shall prepare the Progress Schedule as specified in 1803.2 with the following exception:  
The contractor will not be required to provide a written narrative as stated in 1803.2.B.1 (4)

The contractor is required to coordinate his work, the work of his subcontractor’s, and include the work of utility companies in his bar chart.

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

Revised 11/20/2020

The contractor shall begin work and complete all work to meet the requirements of 1516.2 (Project Acceptance) under this Contract before August 31, 2023, or the date indicated on the Notice to Proceed whichever occurs first.

**S-15            (1807) FAILURE TO COMPLETE WORK ON TIME**

Revised 11/20/2020

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.

Liquidated damages will be assessed for any work that remains uncompleted on the Project after the completion date of August 31, 2023 or the date indicated in the Notice to Proceed, whichever occurs first, as determined in accordance with 1807.

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

Revised 3/26/18

The provisions of MnDOT 1901 are supplemented by the following:

1901.8 Mass – The **Township** will allow the use of front-end loader scale tickets. The contractor will be required to provide an independent certified scale ticket each day of hauling. When basing quantities on uniform loads, the contractor will provide two weight tickets from an independent scale that provide the tare weight and the gross weight for the truck being weighed. The same shall apply if the contractor will be using a front-end loader scale. When quantities are based by cubic yards, MnDOT standard conversions will be used as found in the MnDOT grading and base manual.

**S-17            (1903) COMPENSATION FOR INCREASED OR DECREASED QUANTITIES**

Revised 3/26/18

Compensation for increased or decreased quantities is modified as follows:

There will be no revised basis of payment for bid items that exceed 125 percent of the quantity bid schedule or for bid items that are less than 75 percent of the quantity bid schedule. Final quantities will be paid as per contract unit prices.

**S-18            (1906) PARTIAL PAYMENTS**

Revised 3/26/18

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

MnDOT 1906.2 Material On Hand is modified as follows:

The **Township** will not compensate the contractor for “Material On Hand”. Payment will be made on bid items once they have been placed by the contractor.

**S-19            (1908) FINAL PAYMENT**

Revised 3/26/18

Before final payment is made for the work on this project, the Contractor must make a satisfactory showing that he has made a settlement with the owner, or owners, of the gravel, soil or rock deposits which the Contractor selects as a source 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 the project, and that the borrow sites have been left in a satisfactory condition to the property owner, or owners, shall be delivered to the Engineer at the Township.

**S-20            (2104.502) SALVAGE MAILBOX SUPPORT**

Revised 3/26/18

The contractor shall salvage the existing mailbox and mailbox support, and temporarily store it at a designated area. Any mailbox supports not being reused on the project will be disposed of by the contractor. The contractor is required to give the old mail box support to the home owner if they wish to keep it. All damaged mailbox and mailbox supports will be replaced at the contractor's expense. The contractor will be required to install a new ground post for the salvaged mailbox. If this operation is required, it will be incidental to the project.

**S-21            (2104.502) SALVAGE FIRE NUMBER**

Revised 3/26/18

The contractor shall salvage the existing fire number and temporarily install it near the driveway as directed by the engineer. The fire number will be placed so it is visible during construction. All damaged signs and post will be replaced at the contractor's expense.

**S-22            (2104) REMOVING PAVEMENT AND MISCELLANEOUS STRUCTURES**

MnDOT Revised 4/2017

Abandoned structures and other obstructions shall be removed from the Right of Way and disposed of in accordance with the provisions of MnDOT 2104, except as modified below:

Measurement and payment for the removal and disposal of materials will be made only for those Items of removal work specifically included for payment as such in the Proposal and as listed in the Plans. The removal of any unforeseen obstruction requiring in the opinion of the Engineer equipment or handling substantially different from that employed in excavation operations, will be paid for as Extra Work as provided in MnDOT 1402.5.

**S-23            (2105) EXCAVATION AND EMBANKMENT**

Revised 3/26/18

Excavation and embankment construction shall be performed in accordance with the provisions of MnDOT 2105, and as modified below:

The excavated material from the roadway will be utilized as embankment material and incidental to common excavation. Suitable material can be used inside the 1:4 slope as measured from the shoulder PI. Unsuitable material can be used outside the 1:4 slope.

All topsoil and other unsuitable material shall be removed from the roadway prior to placing granular material and aggregate. The Contractor shall excavate, slope, grade, and compact the subgrade to the required cross-section and elevations as shown on the plans.

All shaping, blading, compacting and miscellaneous items associated with the work shall be considered incidental to the corresponding bid item. The contractor shall maintain the subgrade at all times to the satisfaction of the engineer. If the contractor fails to maintain the subgrade after receiving a 24 hour notice from the engineer, **a penalty will be assessed at a rate of \$1,500 for each day beyond the 24 hour notice.**

Compaction of all embankment construction shall be obtained by the "Penetration Index (PI)", described in Mn/DOT 2105.3F.3. The engineer will approve the subgrade before any gravel base is placed.

Backfilling of all pipe trenches shall be compacted to the “Penetration Index (PI)”, as described in MnDOT 2105.3F.3.

The contractor will be required to place topsoil as grading operations are being completed minimizing erosion. Withholdings will be assessed as specified in MnDOT specification 2105.5.

**If the contractor fails to finish grade or place topsoil beyond the roadway, the Township will withhold \$3,000 per acre as per MnDOT spec. 2574.3.A.1**

After the material has been placed, the contractor will be responsible to correct any erosion that occurs within the first 14 days.

**S-24            (2130) WATER**

Revised 3/26/18

Water will be used in accordance with the provisions of MnDOT 2130, except as modified below:

If and when the Engineer or Inspector on the jobsite request water to be placed on the road, the contractor has no more than 24 hours to meet this request or be subject to a **\$250/calendar day** deduction in payment. The quantity of water to be placed on the road will be kept track of on a daily basis, when applied, with the Inspector on the jobsite.

Water quantity may also be used for maintenance of residential seeding areas and blanket areas as deemed necessary by the inspector on the jobsite.

**S-25            (2211) AGGREGATE BASE CLASS 5**

Revised 3/26/18

Aggregate base courses shall be constructed in accordance with the provisions of MnDOT 2211 except as modified below:

Compaction shall be achieved by the “Penetration Index (PI)”, described in MnDOT 2211.3D.2.c.

The unit bid price shall include all shaping, blading, compacting, tying in driveways and miscellaneous items (including water) associated with this work. The contractor shall maintain the aggregate base at all times to the satisfaction of the engineer. If the contractor fails to maintain the aggregate base after receiving a 24 hour notice from the engineer, **a penalty will be assessed at a rate of \$1,500 for each day beyond the 24 hour notice.**

**Prior to paving, the contractor is required to remove and replace any areas of class 5 that have failed. This work will be performed at the contractor’s expense.**

**S-26            (2215) BITUMINOUS PAVEMENT RECLAMATION**

Revised 2/20/2019

Reclamation shall be constructed in accordance with the provisions of MnDOT 2215 except as modified below:

Any material larger than three inches and visible on the reclaimed surface, are to be removed from the job site. This includes any crack filler material.

Compaction shall be by the “Penetration Index (PI)”. described in Mn/DOT 2211.3D.2.c. Testing rate is modified to 1 per 6,000 SY, with a minimum 1 test per day.





**E.5.c Option 3 — Production Mixture Design**

A production mixture design is a new mixture design developed by modifying an existing approved mixture design using plant produced material or laboratory produced material. Production Mixture Designs are allowed only when approved by the Engineer and require an interactive process with the District Materials Lab to discuss the proposed modification. Only a Level II mix designer with at least 2 years’ experience in mixture design can request a Production Mixture Design.

**E.5.c(2) Production Mixture Design JMF Submittal**

At least 2 working days before beginning asphalt production with the Option 3 mix design begin the interactive process with the District Materials Engineer and submit a proposed JMF. Option 3 mix design submittals must be signed by a Level II Quality Management mix designer. If directed by the District Materials Engineer submit an optimum asphalt content point for the proposed JMF (new design). If the Option 3 mix design is utilized for aggregate substitution submit an optimum asphalt content point when directed by the District Materials Engineer. When an optimum asphalt content point is required include documentation showing the mixture is in accordance with 2360.2.E.5.b, “Option 2 – Modified Mixture Design and meets the requirements of Table 2360-7.

If test results indicate conformance with specification requirements the Department will provide a Mix Design Report consisting of the JMF.

The first paragraph of MnDOT 2360.2.G.4.b Sampling and Testing is revised as shown below:

Take QC samples at random tonnage or locations, quartered from a larger sample of mixture. Sample randomly and in accordance with the Schedule of Materials Control. **Sample mixture from behind the paver. Sampling from the truck box at the plant site is not allowed unless approved by the Engineer. In addition to the QC sample, the Contractor will also bring an additional split of the mixture sample to the plant site and store for the Department for 10 calendar days.** The procedure for truck box sampling is on the Bituminous Office website. The Contractor will obtain at least a 130 pound sample. Split the sample in the presence of the Inspector. The Inspector will retain possession of the Agency portion of each split sample and randomly submit a minimum of one sample, on a daily basis, to the District Laboratory for Verification testing (see 2360.2.G.3). Store compacted mixture specimens and loose mixture companion samples for 10 calendar days. Label these split companion samples with companion numbers.

Table 2360-27 is replaced with the following:

<b>Table 2360-27 Surface Requirements</b>		
<b>Course/Location</b>	<b>Description</b>	<b>Tolerance</b>
Leveling/1 <sup>st</sup> lift using automatics	Tolerance also applies to 1 <sup>st</sup> lift placed other than leveling when automatics are used.	½ in
Wear	Tolerance of final 2 lifts from the edge of a 10 foot straightedge laid parallel to or at right angles to the centerline.	¼ in
Shoulder Wear, Temporary Wear & bypasses	Tolerance from the edge of a 10 foot straightedge laid parallel to or at right angles to the centerline.	¼ in
Transverse joints/construction joints	Tolerance from the edge of a 10 foot straightedge centered longitudinally across the transverse joint. Correction by diamond grinding required unless the Engineer and the Contractor agree to a deduct of \$1,500.	¼ in
20 ft. pavement section excluded from IRI and ALR testing in Table 2399-3.	Tolerance from the edge of a 10 foot straightedge placed parallel to or at right angles to centerline. Corrective Works required unless both the Engineer and the Contractor agree to a deduct of \$1,500 per lane.	¼ in
Transverse Slope	Tolerance for surface of each lift exclusive of final shoulder wear.	Not to vary by more than 0.4 % from plans.

<b>Table 2360-27 Surface Requirements</b>		
<b>Course/Location</b>	<b>Description</b>	<b>Tolerance</b>
Distance from edge of each lift and established centerline.	No less than the plan distance or more than 3 inches greater than the plan distance. The edge alignment of the wearing lift on tangent sections and on curve sections of 3 degrees or less can't deviate from the established alignment by more than 1 inch in any 25 foot section.	See Description
Final wear adjacent to concrete pavements.	After compaction the final lift wear adjacent to concrete pavements must be slightly higher but not to exceed 1/4 inch than the concrete surface.	See Description
Final wear adjacent to fixed structures.	After compaction the final lift wear adjacent to gutters, manholes, pavement headers, or other fixed structures must be slightly higher but not to exceed 1/4 inch than the surface of the structure.	See Description
Finished surface of each lift.*	Must be free of segregated and open and torn sections and deleterious material. *Excluding tight blade and scratch courses.	See Description

**The first paragraph of MnDOT 2360.3.D.1** is hereby deleted and replaced with the following:

**D.1 Maximum Density**

Compact the pavement to at least the minimum required maximum density values in accordance with Table 2360-19, "Required Minimum Lot Density (Mat)".

Table 2360-22 Payment Schedule for Maximum Mat Density is hereby deleted. No payments will be made for Maximum Density Incentive.

Table 2360-23 is hereby deleted.

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

**MnDOT 2360.3.D.1.h Mat Density Cores** is hereby deleted and replaced with the following:

**D.1.h Mat Density Cores**

Obtain four cores in each lot. Take two cores from random locations as directed by the Engineer. Take the third and fourth cores, the companion cores, within 1 foot longitudinally from the first two cores. Submit the companion cores to the Engineer immediately after coring and sawing. If the random core location falls on an unsupported joint, at the time of compaction, (the edge of the mat being placed does not butt up against another mat, pavement surface, etc.) cut the core with the outer edge of the core barrel 1 foot away (laterally) from the edge of the top of the mat (joint). If the random core location falls on a confined joint (edge of the mat being placed butts up against another mat, pavement surface, curb and gutter, or fixed face), cut with the outer edge of the core barrel 6 inches ± 0.5 inch from the edge of the top of the mat (ex. center of 4 inch core barrel 8 ± 0.5 inches from the edge of the top of the mat). Cores will not be taken within 1 foot of any unsupported edge. The Contractor is responsible for maintaining traffic, coring, patching the core holes, and sawing the cores to the paved lift thickness before density testing.

The Engineer may require additional density lots to isolate areas affected by equipment malfunction, heavy rain, or other factors affecting normal compaction operations.

**MnDOT 2360.3.D.1.j Companion Core Testing** is hereby deleted and replaced with the following:

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

**MnDOT 2360.3.D.1.n Longitudinal Joint Density** is hereby deleted.

**MnDOT 2360.3.D.1.p Shoulders** is hereby deleted.

**MnDOT Table 2360-24 Payment Schedule for Longitudinal Joint Density (SP Non-Wear and SP Shoulders, 4% Void)** is hereby deleted.

**MnDOT Table 2360-25 Payment Schedule for Longitudinal Joint Density (SP Non-wear and SP Shoulders, 3% Void)** is hereby deleted.

**MnDOT 2360.3.D.1.r Pay Factor Determination** is hereby deleted.

**S-31            (2399) PAVEMENT SMOOTHNESS**

This section does not apply for this Project.

**S-32            (2540.602) INSTALL MAILBOX SUPPORT**

Revised 3/26/18

This work shall consist of installing the salvaged mail box supports that meet current standards.

**S-33            (2540.602) MAILBOX SUPPORT**

Revised 3/26/18

This work shall consist of furnishing and installing a new mailbox support at the existing mailbox locations as directed by the Engineer in accordance with MnDOT Standard Plate 9350A. **The contractor shall install the security chain as shown on the standard plate. The contractor shall use grade 5 bolts to fasten the support to the base post.**

The salvaged mailbox shall be installed on the new support, unless property owner provides new boxes. Existing A.D.S. and newspaper boxes (up to two per support) shall be installed using Minncor support brackets and shall be incidental to mailbox support.

Paper box Supports

The contractor shall install 2 plates instead of 1 plate to attach and support the paper box holder to the mailbox support.

**S-34            (2563.601) TRAFFIC CONTROL & DETOUR SIGNING**

The Contractor shall provide extra signing, and barricades when, in the opinion of the Engineer, his operations may constitute a hazard to traffic within the project area. This work shall be as directed by the Engineer and will be considered to be incidental to the contract and no direct compensation will be made therefore. All signing and barricades, for traffic control and detour signing, shall meet the requirements of Mn/DOT Standard Specifications and MN MUTCD.

The contractor will be required to place Worker Sign (W21-1) and the advisory Speed Plaque (W13-1P) on each end of the job before any work is started.

The Contractor shall provide qualified flag persons in accordance with the applicable provisions of the Mn/DOT Standard Specifications, MN MUTCD, as determined by the Engineer, these Special Provisions, and the following:

Flag person shall be utilized when in the opinion of the engineer, it is warranted.

The contractor is required to provide 2 flaggers at all times for the duration of the culvert replacements and construction of right turn and bypass lanes. This pertains to work both in and out of a detour zone. If the contractor fails to provide 2 flaggers, they will be **assessed \$100 per hour** until 2 flaggers are on the site.

Qualified flag persons shall be provided in order to safely provide for traffic control, primarily at intersections, in such numbers and for such items as determined by the Engineer. Flaggers shall not override in-place signals, stop signs or control interchanges without approval of the Engineer.

The flag person shall be properly informed and have a STOP/SLOW sign with a five foot minimum staff.

The flag persons shall be equipped with two-way radios.

Except as otherwise authorized by the Engineer, the maximum length of the flagging operation shall be no more than 1 mile.

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

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

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

**Measurement and Payment:**

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

**Detour Signing**

The contractor will be required to begin construction activities the following day the detour is installed. If there are no construction activities taking place the following day, the contractor will be **assessed \$1,000 per calendar day** until work begins.

**S-35            (2573.601) STORM WATER MANAGEMENT**

Revised 3/26/18

The provisions of MNDOT 1717, 2573, and 2575 are supplemented with the following:

Temporary Storm Water Management shall be for implementation and management of National Pollutant Discharge Elimination System (NPDES) permit and plan requirements to address temporary storm water pollution prevention plan (SWPPP) requirements as a distributed lump sum item. Temporary best management practices (BMP) used to establish permanent erosion prevention and permanent sediment control are paid for separately.

Temporary storm water management work shall consist of managing soil erosion, storm water runoff, and project related water discharges in a manner to prevent, control, minimized and/or eliminate pollution to receiving water and/or properties adjacent to the project. Special emphasis of daily inspection reporting and corrective action response shall be made adjacent to all infiltration/filtration storm water quality treatment facilities, special and impaired waters, and DNR listed public waters. The project plan narrative includes preliminary estimated quantities and proposed locations or

suggested uses as required for NPDES permit, but the contractor is expected to use creativity and efficiencies to supplement, eliminate or amend the design, and schedule appropriate BMPs such that the project remains in full compliance with all applicable project permits. The distributed lump sum item shall be considered to include the necessary Erosion Control Supervisor to perform all plan and permit required duties, implement a quality control program site plan amendment process of 1717 that following the plan and special provision narratives, addresses current and foreseeable construction operations with timely sediment control and erosion prevention BMPs, corrective action response including when directed by the project engineer, and good housekeeping protocols. The contractor is expected to demonstrate innovation utilizing rapid construction and other technologies and to reuse materials from the project as appropriate or as directed by the project engineer.

**Method of measurement**

This item will be measured by the month. The contractor shall submit in writing for project engineer acceptance to plan amendments, BMP selections or to any changes to the proposed preliminary estimated quantities prior to any land disturbance work in a particular area that indicate what, when, who, and quantity for all NPDES permit and plan requirements. This includes weekly and 0.5 inch and greater rain event monitoring and documentation for MNDOT 1717 and permit requirements. The project engineer will determine that the appropriate BMP has been properly installed for each proposed construction activity and verified with contractor supplied maintenance log each month with land disturbance activities. Items included in monthly measurement/tracking will include, but are not limited to, rock berms, silt fence, erosion control filter logs, curb inlet protection, vertical soil imprinting, sweeping, good housekeeping, spill prevention/management, bituminous and concrete slurry and dust management, temporary erosion prevention stabilization practices, restoration of damaged vegetation, construction exits and earthwork for temporary erosion prevention. These records of BMPs, maintenance activities, and/or letters of direction by the project engineer will be used to determine Basis of Payment Schedule as described in the next section.

**Basis of Payment and Schedule**

The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the Distributed Lump Sum price bid for “Temporary Storm Water Management” as percentage payments from expected months of temporary land disturbance activities divided into total lump sum. Month project intervals shall be determined at the preconstruction, critical path meeting or as appropriate for initial distributed payment.

- a. **Initiation of Distributed Lump Sum Payment.** Payment for this Item will begin on the first month estimate after all control measures have been installed in accordance with the SWPPP narrative as provided in the plans and specifications and the commencement of construction as defined in the NPDES permit.
- b. **Paid Months.** Monthly payment will be made each succeeding month for this Item provided that the SWPPP has been updated and control measures have been installed and maintained in accordance with the NPDES permit until the Contract Distributed Lump Sum Payment amount has been paid.

If the Contractor fails to update the SWPPP, and provide and properly maintained control measures in compliance with the Contract and permit requirements, as determined by the Engineer, the Contractor will be considered in noncompliance with this Item. Payment will be adjusted, as shown below, for the month(s) in question, and the total final payment quantity will be reduced by the adjustment reduction.

The following schedule of reduced payment will apply for noncompliance on corrections which take longer than 48 hours (2 Days) to correct.

- (1) Between 48 and 72 hrs. (3 calendar days) = Loss of 10% of monthly payment.
- (2) Between 72 and 96 hrs. (4 calendar days) = Loss of 20% of monthly payment.
- (3) Between 96 and 120 hrs. (5 calendar days) = Loss of 30% of monthly payment.
- (4) Between 120 and 144 hrs. (6 calendar days) = Loss of 40% of monthly payment.
- (5) After 144 hrs. (6 calendar days) = Loss of 50% of monthly payment.

(6) After 7 calendar days = Loss of one month's payment and all work will cease, time charges will continue until brought into compliance and is documented as per Method of Measure after MNDOT review.

Reduced payments do not release the contractor of liability for noncompliance.

- c. Total Distributed Lump Sum Payment Quantity. The quantity paid under this Item will not exceed the total **Lump Sum** except as modified by change order and as adjusted by B. "Paid Months." An overrun of the plans quantity for this Item will not be allowed for approving designs; testing; material shortages; closed construction seasons; establishment, performance, test, and maintenance periods; failure to complete the work in the number of months allotted; nor delays caused directly or indirectly by requirements of the contract.
- d. Balance Due. If all work is completed in accordance with the NPDES permit, plans and accepted by the Engineer and before payment of the amount allowed by this Special Provision, the balance due will be paid on the next estimate after the Engineer's approval that there is no more temporary land disturbance activities, 70% native background vegetative cover is met or equivalent permanent stabilization have been employed in accordance with the NPDES permit and project plans.

**The 2575.601 Lump Sum price is full compensation for installation, maintenance, monitoring, adjustments, replacements, removal, materials, equipment, labor, tools, watering to establish temporary control measures, sprinkling for dust control, training, and incidentals. BMP items, along other temporary stabilization, sediment control, or water quality damage caused by contractor actions or inactions will not be measured nor paid for separately.**

**S-36            (2574.505) SOIL BED PREPARATION**

The provisions of MnDOT 2574 are supplemented and modified as follows:

The following is added to 2474.3.A.4 Soil Bed Preparation:

Maintained residential and commercial property, the contractor shall hand rake or use other mechanical means to create a uniform foundation for seeding. There shall be no soil clods, lumps, and tillage ridges visible. The contractor will need approval from the engineer before seeding or sodding operations can begin in these areas.

**S-37            (2575) ESTABLISHING VEGETATION AND CONTROLLING EROSION**

The provisions of MnDOT 2575 are supplemented and modified as follows:

Under **2575.B Placing seed**, use method **2575.B.4 Hydro-seeding** in conjunction with **2575.E.2.d Type Hydraulic Mulch Matrix**.

**Topsoil and seeding shall be established adjacent to maintained turf or as directed by the Engineer.**

**Project is not considered substantially complete until random sampling indicates that at least 70% vegetation has been established. Random Sampling is accomplished using a random number generator that will represent the road station that the sample should be analyzed.**

**S-38            WORKING HOURS**

The normal working hours under this contract shall be between the hours of 7:00 a.m. and 7:00 p.m., Monday through Saturday. No work is to be performed on Sundays or legal holidays without written permission from the Engineer.





The Contractor must give three (3) days' notice before starting work. The Contractor shall prepare the driving surface to ensure smooth compacted surface. Work must be carried out in a manor to insure a final smooth driving surface. Any delay caused by contractor after the shaping has been completed will require contractor to re-shape and compact roadway to Township Board or the Township representative's satisfaction. Final grading operations shall be inspected and approved by the township PRIOR to placement of oil and aggregate. Work shall be warranted for one year after substantial completion against non-plow or traffic related damages or deficiencies. Contractor shall grade and tie-in to all existing driveways. This work shall be incidental to the project. Positive drainage shall occur from the crown of the roadway to the toe of the in-slope with no obstructions.

Application Rates	
CRS-2p	0.7 Gal/Sq Yd
Css-1h diluted	0.1 Gal/Sq Yd

**S-43      PERMITS**

NPDES

The successful Contractor shall apply and pay for the NPDES Permit on this project.

WCA (Wetland Conservation Act)

The Township applied for the placement of fill material in adjacent wetlands.

2019

# SALT Schedule of Materials Control



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## Introduction

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

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

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

### Definitions

#### [Schedule of Materials Control](#)

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

#### [Approved/ Qualified Products List](#)

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

#### [Certified Sources](#)

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

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

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

**Verification Testing:** Sampling and testing performed by the Department/Agency to validate the quality of the product per Title 23-Highways, Code of Federal Regulation 637.203. **Part of QA.**





## Bituminous Quality Management

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

	Type of Test	Spec Section (1)	Contractor / Producer - QC Testing Rates	Agency - QA Testing Rates	
<b>Start-Up Testing Rates for the 1st 2000 tons (2)</b>	Bulk Specific Gravity	2360.2.G.7.b	1 test per 500 tons 55 lb. sample 3 full cylinder molds	<b>(3)</b> 1 Verification Mixture Sample test per day, all Verification samples are from a split (QC/QA) sample.	
	Maximum Specific Gravity	2360.2.G.7.c			
	Air Voids (calculated)	2360.2.G.7.d			
	Asphalt Content	2360.2.G.7.a			
	Adj. Asphalt Film Thickness (AFT)	2360.2.E.7.e			
	Gradation	2360.2.G.7.f			
	Fines to Effective Asphalt Ratio (calculated)	2360.2.G.7.a/f	1 test per 1000 tons <b>(4) (5) (6)</b>		
	Coarse Aggregate Angularity (CAA)	2360.2.G.7.g			
<b>Production Testing Rates</b>	Fine Aggregate Angularity (FAA)	2360.2.G.7.h	<b>(4) (5)</b>	<b>(3)</b> 1 Verification Mixture Sample test per day/ mix type, submit companion to the QC - CAA & FAA test results.	
	Added AC/Total AC Ratio (calculated)	2360.2.G.7.a			
	Bulk Specific Gravity	2360.2.G.7.b	1 test per 1000 tons 55 lb. sample 3 full cylinder molds		
	Maximum Specific Gravity	2360.2.G.7.c			
	Air Voids (calculated)	2360.2.G.7.d			
	Asphalt Content	2360.2.G.7.a			
	Adj. Asphalt Film Thickness (AFT)	2360.2.E.7.e			
	Gradation (minimum of 1 per day)	2360.2.G.7.f			
	Added AC/Total AC Ratio (calculated)	2360.2.G.7.a			
	Coarse Aggregate Angularity (CAA)	2360.2.G.7.g	<b>(4) (5)</b>		
	Fine Aggregate Angularity (FAA)	2360.2.G.7.h	<b>(4) (6)</b>		
	TSR	2360.2.G.7.i	When directed by the Engineer		
	Aggregate Specific Gravity	2360.2.G.7.j	As directed by the Engineer		
	Mixture Moisture Content	2360.2.G.7.k	As directed by the Engineer		
	<a href="#">Asphalt Binder Certified Supplier</a>	2360.2.G.7.l	<b>(7)</b> 1qt. Steel container for asphalt binder. 1/2 gal. plastic container for emulsion		
<a href="#">Asphalt Emulsion Certified Supplier</a>	2357				
Compaction / Density Requirements	2360.3.D	Review special provisions			
<b>Small Quantity Requirements</b>	< 300 tons per day may be accepted by the Engineer without testing.				
Agencies using MnDOT Metro Inspection Services will be sampled at the current MnDOT Schedule of materials Control Rates and will be billed accordingly.					

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

- (1)** Review Special Provisions & 2360.2.G Mixture Quality Management.
- (2)** The testing rates apply only to mixtures that have not been tested on previous projects in the current year.
- (3)** Companion Sample should be collected from each QC sample. Submit one per day for Verification Testing.
- (4)** The Contractor will retain the extracted gradation samples in containers with field identification numbers for a period of 10 calendar days. The Engineer will identify which extracted gradation sample is the Verification Companion Sample and whether it is to be tested for coarse and fine aggregate angularity.
- (5) At start-up or new Mix Design:** 2 tests/ day for a minimum of 2 days, then 1/day if CAA is met. If CAA > 8% of requirement, 1 sample/ day but test 1/ week. No testing required for Class A and B Aggregates.
- (6) At start-up or new Mix Design:** 2 tests per day for a minimum of 2 days, then 1/day if FAA is met. If FAA > 5% of requirement, 1 sample/ day but test 1/week.
- (7)** Shall be a Certified Supplier - No Samples Required unless otherwise directed by the Engineer.

## Bituminous Specialty Items

Type of Test	Spec	Contractor/Producer – QC Testing Rates	Agency- QA Testing Rates
<b>Gradation</b>	2363	1 per 1,000 Ton with a minimum 1 per day.	1 per day. 35 lbs.
PASSRC & PASB	3139.3		
Micro-Surfacing	2354 3139.5	Stockpile: 1/1,500 Tons (min 1/day) Machine Hopper: 1/500 Ton (min 1/day)	Stockpile & Machine Hopper: 1/day, 30 lbs.
Seal Coat, Underseal & Otta Seal	2356 3137.2B	Stockpile: 1/1,500 Tons (min 1/day) Chip Spreader Hopper: 1/day	1/day from Hopper. 30 lbs.
<b>% Crushing - CAA</b>	2363	1 per 1,000 Ton with a minimum 1 per day.	1 per day from gradation test. 35 lbs.
PASSRC & PASB	3139.3		
<b>Moisture / Aggregate</b>	2354	Machine Hopper: 1/500 Tons (min 3/day)	1/day 2lbs
Micro-Surfacing	3139.5		
<b>Sand Equivalence</b>	2354	1/day	Test at Engineer discretion, 25 lbs.
Micro-Surfacing			
<b>Flakiness Index</b>	2356	Sample taken from first load on first day, submit to Agency: 30 lbs.	Agency will test at their discretion, see Lab Manual 1223
Bituminous Seal Coat & Bituminous Underseal			
<b>Bituminous Mixture</b>	2353	1/500 Tons, min 1/day. %AC, Gradation, Max SpG, Adj.AFT	1/day, 20 lbs. 1 cylinder from truck box.
UTBWC	3151.2G		
PASSRC & PASB	3151 2363	Asphalt spot check: min 1/day	-
Stone Matrix Asphalt - SMA  Lab Manual 1203, 1204, 1205, 1211, 1214, 1806, 1807, 1808, 1813, 1853, 1854, 1855, AI SP-2 AASHTO T305	2365	<b>Tests</b> , %AC, gradation, Gmm, Gmb, Voids, VMA, CAA, Draindown, VCA, fines/effective asphalt.  Rate, (1/1000 tons, min. 1/day) Agg SpG, mix moisture, TSR to be tested as directed by Engineer.  Submit companion 1 per day to agency: 3 full 6" by 12" cylinders	Tests: %AC, Gradation, Gmm, Gmb, Voids, VMA, CAA, VCA, fines/effective asphalt. Agency is not required to do draindown. Copy MDR to Project Engineer and Grading & Base Engineer.
<b>Asphalt Binder Tests</b>		<a href="#">Asphalt Emulsion List</a>	<a href="#">Asphalt Binder List</a>
UTBWC	2353 3151	Shall be a Certified Supplier - No Samples Required unless otherwise directed by the Engineer: <b>Asphalt Binder:</b> First load, then 1/250,000 gallons. Sample size of 1 quart metal container. <b>Emulsified Asphalt:</b> First load, then 1/50,000 gallons. Sample size of 1/2 gallon wide screw top plastic container.	
Micro-Surfacing	2354		
Seal Coat, Underseal & Otta Seal	2356		
Tack Coat	2357		
PASSRC & PASB	3151		
<b>Asphalt Binder Rate</b>	2354	Verify Application Rate 3/day	Verify Application Rate 1/day
Micro-Surfacing			
Fog Seal	2355	Verify Application Rate 1/day	Verify Application Rate 1/day
Seal Coat, Underseal & Otta Seal	2356		
Bit Tack Coat	2357		

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



## Cold Inplace Recycling (CIR) & Stabilization Full Depth Reclamation (SFDR)

### Specification 2215

Test Type	Contractor/Producer QC Testing Rates	Agency QA Testing Rates	<a href="#">Grading &amp; Base Manual/Form</a>
Gradation SFDR (Simple) Pre-ground un-stabilized material	1 per mile - report sieves 2" & 3"	Run gradation at the discretion of the Engineer	.215 / 101 report sieve 2" & 3"
Gradation (Entire) (Material to be stabilized)	One per day, give split sample to the Engineer	Run gradation at the discretion of the Engineer	.215 / 101 report sieve 2", 1.5", 1.25", 1", 3/4", 3/8", #4, #10, #30.
Gradation (Simple) (Material to be stabilized)	1 per mile for SFDR & CIR with top size screening. 4 / mile for CIR w/o top size screens.	Run gradation at the discretion of the Engineer	.215 & .293 / 101 report sieve 2" & 1.5" for SFDR, 1.5" and 1.25" for CIR
Depth Check - Unstabilized and Stabilized	1 per 1,000' /machine width for each vertical machine face for initial pulverization and stabilization.	1 per day	.284 / 401
Moisture (stabilized) – before compaction (from windrow)	1 per mile (4 per day max)	Run moisture at the discretion of the Engineer	.245 Speedy tester not allowed.
Penetration Index (DCP) - SFDR only Unstabilized.	1 per 1/2 mile lane mile	1 per lane mile	.255 / 205
Calibrate: mineral stabilizing agent application rate.	Once using design rate per vane feeder.	Observe contractor calibration	.286 or .287
Moisture: before injecting liquid bituminous material	1 per 5,000 feet of daily anticipated SFDR & one after rain or mechanical drying out (disking, etc.).	none	.281 / 105
Yield: Mineral Stabilizing Agent and/or Liquid Bituminous Material	1 per transport load each type	1 per day each type	.286 & .287 / 402 & 403
Compaction: Nuclear density for SFDR stabilized and CIR	1 per 500 feet of lane width, <b>(see note below)</b> .	Observe the Contractor.	.282
Control Strip: SFDR Stabilized and CIR	Minimum of once per project	Observe the Contractor.	
Bituminous Material Samples	none	Shall be a Certified Supplier - No Samples Required unless directed by the Engineer.	1 quart each sample
Mineral Stabilizing Agent Samples	none	1 sample	none
Foaming asphalt checks expansion ratio & half life	1 per load	Observe the Contractor once per day.	.285
Moisture (stabilized) - before placement of next layer during curing.	Two each day after compaction until placement of next layer.	none	Grading & Base Manual

**Note:** The Engineer may require a Contractor to perform additional nuclear density tests in areas that the Engineer believes are failing density requirements.

## Grading and Base Construction Items (1 of 3)

		Material Type	Spec.*	Contractor / Producer QC Testing Rates	Minimum Required Agency QA Testing Rates	Verification Testing Sample
Gradation Testing (2) (3)		Aggregate Surfacing	2118 2211.5	1 / 1,000 CY (CV) stockpile gradation only required for materials on hand. Spec 1906.2	> 250 yd <sup>3</sup> (CV) or 500 Tons and < 2000 yd <sup>3</sup> (CV) or 4000 tons. Material is a minimum of one lot (5). Test two random samples from each lot and average. > 2000 yd <sup>3</sup> (CV) or 4000 Tons. Divide into lots with lot size (5) no greater than 2000 yd <sup>3</sup> (CV) or 4000 Tons. Test two random samples from each lot and average. Determine individual results and lot averages for compliance (Table 2211-4 & 2211-5)	1/source 30 lb.
		Aggregate Base	2211 2211.5			
		Shoulder Base Aggregate	2221 2211.5			
		Drainable Aggregate Base (OGAB & DSB)	2212 3136			
		Granular and Select Granular Material (borrow/embankment)	3149.2B	1/10,000 CY - req'd for mat'l on hand, Spec 1906.2	1/40,000 yd <sup>3</sup> (CV)	1/source 30 lb.
		Stabilizing Aggregate	3149.2C	1906.2		
		Reclamation FDR	3135.2B	None	Test at Engineer's discretion. Look for oversize FDR, after the motor grader has overturned the material.	None
		Granular Filter	3601.2B	1/source - before delivery on the project.	1/ source	1/source 30 lb.
		Backfill Materials	3149.2D			
		Granular Bedding	3149.2F			
		Aggregate Bedding	3149.2G			
		Coarse Filter Agg.	3149.2H			
		Filter Aggregate	3149.2J			
	Sand Cover	3149.2K				
Proctor	Sand Cone * Specified Density	Non-Granular Material per 2105.3F		None	1 per major soil, subgrade prep specified density requires 100% of proctor density.	1 sample 25 lb.
		Non-Granular Material per 2105.3F	2105 2106 3149	<b>AGENCY TESTING: Roadway Embankment:</b> One test per 4,000 yd <sup>3</sup> (CV) <u>or if test rolled, One test per 10,000 yd<sup>3</sup> (CV)</u> , <b>Transverse culverts &amp; abutments:</b> 1 test per every 2 feet of fill per 250' of trench length. <b>Structures Trenches:</b> 1 test/500 feet of each structure length at various depths. <b>Subgrade Preparation:</b> One per 25 road stations.		
Penetration Index Method (DCP) *		Aggregate Base	3138 2211.3C	None	1 DCP tests per 500 yd <sup>3</sup> (CV) or 1 per 1000 Tons. If test rolled, 1 test / 1,500 yd <sup>3</sup> (CV) or 3000 Tons.	None
		Shoulder Base Aggregate				
		Reclamation FDR & SFDR	3135.2B 2215.2C		1 DCP test per 3,000 yd <sup>2</sup> . If test rolled, 1 test / 10,000 yd <sup>3</sup>	
		Granular Materials Subgrade Preparation (for materials meeting 3149.2B1)	3149.2B		<b>AGENCY TESTING:</b> <b>Roadway Embankment:</b> One test per 2,000 yd <sup>3</sup> (CV) <u>or if test rolled, One test per 4,000 yd<sup>3</sup> (CV)</u> <b>Transverse culverts &amp; abutments:</b> 1 test per every 5 feet of fill per 250' of trench length. <b>Structures Trenches:</b> One test/500 feet of each structure length at various depths. <b>Subgrade Preparation:</b> One per 25 road stations.	

## Grading and Base Construction Items (2 of 3)

	Material Type	Spec.*	Contractor / Producer QC Testing Rates	Minimum Required Agency QA Testing Rates	Verification Testing Sample
Moisture Content Test During All Compaction Methods (4)	*Aggregate Base, Shoulder & Surfacing	3138	None	1 / 1,000 yd <sup>3</sup> up to 10 Maximum	None
	Drainable Aggregate Base (OGAB & DSB)				
	Reclamation FDR	3135.2B	None	1 / 10,000 yd <sup>3</sup>	
	All Embankment Materials	3149 2105	None	1/10,000 yd <sup>3</sup> up to 10 Maximum	
	Subgrade Preparation			1 per 25 road stations	
Percent Crushing	Particle Count (1)	1906.2	1 required for Mat'l on hand	1/source unless directed by Engineer, (required for 3138.2B & C, 3149.2C & G1, 3136.2B).	1/source
Quality	Aggregate Quality Tests	3138 3149 3601	1 required for mat'l on hand, Spec 1906.2	1/ source unless directed by Engineer	1/source 30lb
Depth Check	Reclamation FDR	3135.2B	1/1,000 feet of machine width.	1 per day unless directed by Engineer	
Test Rolling	Test Rolling (as directed in the special provisions)	2111	As directed by the Engineer the contractor will perform test rolling at the top of all <ul style="list-style-type: none"> <li>• Subgrade</li> <li>• Base layers (2211)</li> <li>• Non Stabilized FDR (2215)</li> <li>• Granular layers not meeting the requirements of 3149.2B2 (2105 &amp; 2106)</li> <li>• Minimum 12' width and 300' length. Agency to observe test rolling.</li> </ul>		

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

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

**NOTES:**

- (1) Percent crushing test is not required when the material is crushed from a quarry or contains 25% or greater recycled materials.
- (2) Submit a laboratory companion to the first Acceptance Gradation sample for a bituminous extraction, see 3138.2C. Full Depth Reclamation samples are not required.
- (3) The Certification of Aggregates and Granular Materials procedure and documentation of testing locations is at the discretion of the Engineer.
- (4) For quality compaction per spec 2105.3F2, test at Engineer's discretion.

## Grading and Base Construction Items (3 of 3)

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

**NOTES:**

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

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

Contact the MnDOT District IA Inspector to provide servicing of your Federal Aid Project.

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

**Guidelines for Required Crushing & Aggregate Quality Tests**

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

Testing procedures in the [Grading & Base Manual](#).

Forms and worksheets at the [Grading & Base website](#).

Gradation worksheets at the [SALT Construction website](#).

## Certified Ready-Mix Concrete (1 of 3)

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

Material Spec.	Test Type ( <a href="#">Concrete Manual</a> )	Contractor / Producer QC Testing Rates				<a href="#">Form</a>		
bridge 2406.2 2411.2 2461.2 2461.3 general 2301** 2452.2 2461.2 2461.3 2506.2 2511.2 2514.2 2520.2 2521.2 2531.2 2533.2 2545.2 2554.2 2557.2 2564.2 2565.2	Concrete Plant Production Testing Rates *	Gradation (5-694.145) (5-694.148) 3126, 3131, 3137	<b>For all JMF's &amp; bridge deck mix designs</b> requires 1 per fraction per source per day. If over 400 yd3 per day, take a second gradation after the total exceeds 400 yd3.  <b>Bridge Deck Concrete</b> must have passing gradations prior to mixing.				Concrete Agg. Work sheet, Agg. Grad. Control Charts, R-M Plant QC workbook	
			<b>For all other mix designs</b> , 1 per fraction per source per week. If over 400 yd3 produced per week, take a second gradation after the total exceeds 400yd3.					
			<b>Agency QA Testing Rates: Verification only</b> <b>Verification Sample:-</b> , *1 per fraction per source per week, split and tested by both Agency and Contractor					
			Coarse & Fine: a minimum of 1 per week per ready-mix plant*.					
		Moisture Content (5-694.142)	<b>QC rates:</b>	1 every 4 hours	<b>QA rates:</b>	None		
		Test Type	<b>Agency QA Testing Rates (1)</b>					
		Aggregate Quality (5-694.146)	Minimum of 1 per each fraction - use of MnDOT test results for the same 30 day time period is acceptable. <u>For all bridge deck concrete poured during the month:</u> Test monthly quality to 3137.2D2 for each coarse aggregate fraction. Designate 3137.2D2 on the sample card. Gradation results will be included with the monthly quality tests.					
		Coarse Aggregate (% Passing 200) (5-694.146)						
		Minimum Aggregate Sample Size *companion required, double sample size						
		Aggregate Size	Gradation*	Quality*	Moisture	% -200 C.Agg		2410 Sample ID Card
		3/4" Plus, #4	30 lb.	50 lb.	2000 g	12 lb.		
		3/4" Minus, #67	10 lb.	30 lb.	2000 g	6 lb.		
		#7, CA-70	6 lb.	30 lb.	2000 g	6 lb.		
		CIA, FIA	1000 g	30 lb.	500 g	1000 g		
		CS, FS	500 g	30 lb.	500 g	500 g		
		CA-80, #89	1.1 lb. (500 g)	30 lb.	500 g	500 g		
		Fine Aggregate	1.1 lb. (500 g)	30 lb.	500 g	-		
		Concrete Field Testing Rates	<u>Sampling Locations for Air, Slump (when required), Temperature and Cylinder Testing</u> First load each day per mix - Take sample after discharging approximately 1/4 yd3, stop further discharge until both slump and air content test are completed. The first load of concrete <u>must have passing air content and slump prior to placement.</u> Cast strength specimens from the same load as the air content and slump test. Test whenever adjustments are made to the mix. Take all tests at the point of placement. Subsequent tests - Sample from the middle portion of the load.					2448 Weekly Concrete Report
Test Type	<b>Agency QA Testing Rates (1)</b>							
Air Content - Type 3 Concrete (5-694.541)	1 test per 100 yd3. Test first load each day per mix. Test when adjustments are made to the mix.							
Slump (5-694.531)	Test first load each day per mix, then as necessary to verify passing slump. For Bridge Concrete: 1 test per 100 yd3. No testing required for slip form placement.							
Air and Concrete Temperature (5-694.550)	Record temperature each time air content, slump or compressive strength specimen is performed/fabricated.							

## Certified Ready-Mix Concrete (2 of 3)

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

Spec.	Test Type	Agency QA Testing Rates (1)	Form
bridge 2406.2 2411.2 2461.2 2461.3 general 2301** 2452.2 2461.2 2461.3 2506.2 2511.2 2514.2 2520.2 2521.2 2531.2 2533.2 2545.2 2554.2 2557.2 2564.2 2565.2	<b>Concrete Field Testing Rates</b>	<p style="text-align: center;"><u>General Concrete Grades F, G, M, P, and R</u>: 1 set of 3 cylinders per 300 yd<sup>3</sup> per mix per day.</p> <hr/> <p style="text-align: center;"><u>Bridge Concrete Grades B, S, and Y</u>: 1 set of 3 cylinders per 100 yd<sup>3</sup>, then 1 set of 3 cylinders per 300 yd<sup>3</sup> per mix per day</p> <hr/> <p style="text-align: center;">Agency will break 1 set of 3 cylinders at 28 days. Agency will cast up to 3 control cylinders, any additional control cylinders are the responsibility of the Contractor.</p> <hr/> <p style="text-align: center;">Cellular Concrete: 1 set of 4 cylinders (28 days) per day, fill in 2 equal lifts, <u>do not rod</u>, lightly tap the sides, cover and move to area with no vibration. Do not disturb for 24 hours.</p>	<b>2409</b> Concrete Cylinder ID Card

**NOTES:**

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

**\*Small Quantity Requirements** are for less than 20 yd<sup>3</sup> per week. Plant monitoring is not required but **Concrete Field Testing is required.**

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

Contact the MnDOT District IA Inspector to provide servicing of your Federal Aid Project.

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

## Certified Ready-Mix Concrete (3 of 3)

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

### Guidelines

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

### Best practices

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

## Concrete Plant and Field Materials

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

	Material	Spec. No.	Agency QA Field Sampling Rate	Form No.
<b>Concrete Plant Batching Materials</b>	Portland Cement	3101	Shall be a Certified Supplier - For certified ready-mix and concrete paving sample rates: 1 sample when the plant is certified. Take additional samples at 6 months if producing Agency concrete, if the plant changes sources or as the contract requires. The producer obtains a 5 lb. sample and stores the sample in a sealed container provided by the Agency and includes the supplier's delivery invoice from which the sample is obtained.	24300 ID Card Cement Samples
	Slag	3102		
	Blended Cement	3103		
	Fly Ash	3115		24308 Fly Ash
	Admixtures (Acceleration, Retarding, Water-Reducing, Air-Entraining, etc.)	3113	For all concrete: 1 sample in a 1/2 pint plastic container provided by the Agency when the plant is certified. Take additional samples at 3 months if producing Agency concrete, if the plant changes sources or as the contract requires.  The Producer should agitate the admixture tank prior to obtaining samples form dispensing tubes and store the samples in sealed plastic containers provided by the Agency.	2410 Sample ID Card
	Water	3906	1 sample in a 1 gallon clean glass or plastic container from a questionable source.	
<b>Concrete Field Materials</b>	Preformed Joint Filler	3702	Visual Inspection	2410 Sample ID Card
	Preformed Elastomeric Type	3721	1 per lot. Only materials from a qualified sources. <a href="#">Link to Approved Products List.</a>	
	Silicone Joint Sealer	3722		
	Hot Poured Elastomeric Type	3723 3725		
	Burlap	3751	Visual Inspection	
	Colored Concrete Membrane Curing Compound	3752	Visual Inspection - Use only from qualified source.	
	Membrane Curing Compound	3753 3754 3755	Visual Inspection - Use only pre-approved curing compounds.	
	Plastic	3756	Visual Inspection - Must be white opaque and free from holes.	
	Refer to the "Metals" schedule for sampling requirements for concrete reinforcement.			

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



## Concrete Pavement – Agency (1 of 2)

Test Type (concrete manual)	Spec.	Concrete Paving Batch Plant Agency QA Testing	Certified Ready-Mix Plant Agency QA Testing	<a href="#">Form</a>
Gradation (1) (5-694.145) (5-694.148)	3126 3131 3137	Daily Concrete Quantity > 100 yd <sup>3</sup> <b>Agency QA Testing Rates: Verification only</b>  <b>Verification Sample:-</b> , *1 per fraction per source per day, split and tested by both Agency and Contractor	Weekly Concrete Quantity > 20 yd <sup>3</sup> <b>Agency QA Testing Rates: Verification only</b>  <b>Verification Sample:-</b> , *1 per fraction per source per week, split and tested by both Agency and Contractor	21764 Agg Work sheet
Aggregate Moisture - QC Verification (2) (5-694.142)	3126 3131 3137	If w/c incentives apply: 1 per 1000 yd <sup>3</sup> or every 4 hours, whichever is greater. Take initial sample within the first 250 yd <sup>3</sup> .	If w/c incentives apply: 1 per 200 yd <sup>3</sup> or every 4 hours, whichever is greater. Take initial sample within the first 100 yd <sup>3</sup> .	Concrete W/C Ratio Work sheet
Water Content, Microwave Oven Verification (3) (5-694.532)	<a href="#">Concrete Manual</a>	Take initial sample within the first 250 yd <sup>3</sup> . At least one additional verification test should be taken if more than 1000 yd <sup>3</sup> is produced in a day.	Take initial sample within the first 100 yd <sup>3</sup> . At least one additional verification test should be taken if more than 400 yd <sup>3</sup> is produced in a day.	
Coarse Aggregate, -200 sieve (5-694.146)	3131 3137	1 randomly selected sample on the first day of production and each time the Contractor mobilizes the plant, changes the aggregate sources, or the cleanliness of the coarse aggregate is in question, then 1 per week randomly thereafter. -200 test may be performed at the lab instead at the plant at the discretion of the Engineer.		21764 Agg Work sheet
Coarse and Fine Aggregate Quality (4)	3126 3131 3137	During concrete production: 1 randomly selected test each fraction every 20,000 yd <sup>3</sup> of production. Split the Quality sample 4 ways: 1) Provide 2 quarters of the sample to the producer/contractor. 2) Test the -200 on the coarse aggregate at the plant the day it was sampled. 3) Submit the remaining sample to the lab for quality testing including testing the -200 sieve on the coarse aggregate.		2410 Sample ID Card
Alkali Silica Reactivity (ASR) Testing	2301	1 per paving project per sand source. Provide one 5 lb. sample of: cement, supplementary cementitious material (fly ash or slag), and sand. Write "Project Specific ASR Testing" on all 3 sample cards. <b>ASR Testing is not required if the entire project is less than 3,500 cubic yards.</b>		2410 24300 24308
Coarse Aggregate Quality Testing of Incentive / Disincentive	3137	<b>If coarse aggregate quality incentives apply:</b> Test the Class B aggregates for % absorption and Class C aggregates for % carbonate including any other test necessary to make those determinations. Sample the 2 largest fractions in accordance with the following table and 2301:		Coarse Agg Quality Incent / Disincent Work sheet
		<b>Coarse Aggregate Quality Incentive/Disincentive Sampling Rates</b>		
		Plan Concrete Cubic Yards	Samples per fraction	
		3,500 - 7,500	3	
		7,501 - 10,000	5	
		10,001 - 25,000	10	
25,001 - 50,000	15			
50,001 +	20			

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

Agencies using MnDOT Metro Inspection Services will be sampled at the current MnDOT Schedule of Materials Control rates and will be billed accordingly. Contact the MnDOT District IA Inspector to provide servicing of your Federal Aid Project.

## Concrete Pavement – Agency (2 of 2)

Test Type	Spec.	Concrete Field Testing - Agency QA Testing	Form
Air Content before consolidation	<a href="#">Review Concrete Manual Website</a>	1 correlation air test per day	2448 Weekly Concrete Report
Air Content after consolidation		1 correlation air test per day	
Slump		<b>For fixed form placement:</b> 1 slump test per day. <b>For slip form placement:</b> No slump testing required.	
Concrete Temperature		Record temperature each time air content, slump or strength test specimen is performed/fabricated by the Agency.	
Flexural Strength		Supply beam boxes, cure, and test beams. MnDOT standard beam box size is 6" x 6" x 20" unless others are approved by the Concrete Engineer.	2162 Test Beam Data
Concrete Pavement Texture		Determine texture testing locations using random numbers.	Probing, Coring, Texture and MIT-Scan T2 Report
Thickness		<b>Determine probing and coring locations using random numbers. Initial pavement at core locations and re-initial the sides of specimens after coring to clearly verify their authenticity.</b>	
Surface Smoothness/ Dowel and Tie Bar Steel Location			Observe Contractor Testing when possible

**NOTES:**

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

**(2)** If w/c incentives apply: Use aggregate moisture results for determining the water content to calculate the w/c incentive/disincentive. Use the Concrete W/C Ratio Calculation Worksheet and do not leave sample unattended.

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

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

<b>Minimum Aggregate Sample Size</b>				
*companion required, double sample size				
Aggregate Size	Gradation*	Quality*	Moisture	% -200 C.Agg
3/4" Plus, #4	25 lb.	50 lb.	2000 g	12 lb.
3/4" Minus, #67	10 lb.	30 lb.	2000 g	6 lb.
#7, CA-70	6 lb.	30 lb.	2000 g	6 lb.
CIA, FIA	1000 g	30 lb.	500 g	1000 g
CS, FS	500 g	30 lb.	500 g	500 g
CA-80, #89	1.1 lb. (500 g)	30 lb.	500 g	500 g
Fine Aggregate	1.1 lb. (500 g)	30 lb.	500 g	-

## Concrete Pavement – Producer/Contractor (1 of 2)

Test Type (concrete manual)	Spec.	Concrete Paving Batch Plant Contractor/Producer QC Testing	Certified Ready-Mix Plant Contractor/Producer QC Testing	
Gradation (1) (5-694.145) (5-694.148)	3126 3131 3137	When > 250 yd <sup>3</sup> produced/ day: 1 per 2500 yd <sup>3</sup> per fraction per source	When 20-400yd <sup>3</sup> produced/ day: 1 per fraction per source. If over 400 yd <sup>3</sup> per day, take a second gradation after the total exceeds 400 yd <sup>3</sup>	
Coarse Aggregate -200 sieve (5-694.146)	3131 3137	Test the first sample then at least 1 of the next 3 samples on the first day of production and each time the Contractor mobilizes the plant, changes the aggregate sources, or the cleanliness of the coarse aggregate is in question, then 1 per day randomly thereafter. Test these samples at the plant.		
Aggregate Moisture QC Verification (2) (5-694.142)	3126 3131 3137	If w/c incentives do not apply: 1 per 1000 yd <sup>3</sup> , or 1 completed every 4 hours, whichever is the higher sampling rate.	If w/c incentives do not apply: 1 completed every 4 hours.	
Water Content, Microwave Oven Verification	<a href="#">Review Concrete Manual</a>	If w/c incentives apply: Obtain the plastic concrete sample at the plant. See Concrete Manual (5-694.532)		
Unit Weight QC		Test one load of concrete per day at the plant. See Concrete Manual (5-694.542)		
Air Content QC (5-694.541)		Test the first load of concrete at the plant		
Coarse and Fine Aggregate Quality	3126 3131 3137	Prior to concrete production: Test the Agency's pre-production sample at the Contractor's discretion. During concrete production: Test the -200 on the quality companion sample the day it was sampled. All other testing is at the Contractor's discretion.		
Coarse Aggregate Quality Testing for Incentive / Disincentive	3137	Test at the Contractor's discretion.		
<b>Minimum Aggregate Sample Size</b>				
*companion required, double sample size				
Aggregate Size	Gradation*	Quality*	Moisture	% -200 C.Agg
3/4" Plus, #4	25 lb.	50 lb.	2000 g	10 lb.
3/4" Minus, #67	25 lb.	30 lb.	2000 g	6 lb.
#7, CA-70	6 lb.	30 lb.	2000 g	6 lb.
CAI, FIA	1000 g	30 lb.	500 g	1000 g
CS, FS	500 g	30 lb>	500 g	500 g
CA-80, #89	1.1 lb. (500 g)	30 lb.	500 g	500 g
Fine Aggregate	1.1 lb. (500 g)	30 lb.	500 g	-

Contact the MnDOT District IA Inspector to provide servicing of your Federal Aid Project.

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

## Concrete Pavement – Producer/Contractor (2 of 2)

**NOTES:**

**(1)** Performing testing on representative material at the end of the most recent day of production is allowed. If well-graded aggregate incentives apply: Use the Contractor's gradation results for well-graded aggregate incentive calculations as verified by Agency testing.

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

Test Type	Spec.	Concrete Field Testing - Contractor QC Testing
Air Content before consolidation for Type 3 concrete	<a href="#">Review Concrete Manual Website</a>	1 per 300 yd <sup>3</sup> or 1 per hour, whichever is less. Test first load each day per mix.
Air Content after consolidation for Type 3 concrete		Test 1 air content per 1/2 day per mix of slip form paving to establish an air loss correction factor (ACF). See Special Provisions for additional information.
Slump		<b>For fixed form placement:</b> 1 per 300 yd <sup>3</sup> and as directed by the Engineer. Test first load each day per mix. <b>For slip form placement:</b> No slump testing required.
Concrete Temperature		Record temperature each time air content, slump or strength test specimen is performed/fabricated by the Contractor.
Flexural Strength		1 beam (28 day) per day per mix. Make additional control beams as necessary. Control beams shall be made within the last hour of concrete poured each day. Fabricate beams, deliver beams to curing site, and clean beam boxes. Cylinders may be substituted for beams at the discretion of the Engineer.
Concrete Pavement Texture		Perform texture testing at locations determined by the Engineer in accordance with the Contract. All adjoining lanes shall be tested at the same location if paved at the same time. The Contractor supplies all materials necessary to perform the required testing.
Thickness		The Contractor drills concrete cores at locations determined by the Agency. The Contractor probes the plastic concrete at locations determined by the Agency.
Surface Smoothness		Contractor provides MnDOT certified inertial profiler results for the entire project as required by the contract. Check for current certification. Perform profiling in the presence of the Engineer unless otherwise approved.
Dowel Bar and Tie Bar Steel Location		<p style="text-align: center;">For Concrete projects greater than 3500 yd<sup>3</sup>.</p> <p>On the first day and each day of slip form paving: (1) Verify the adequacy of the dowel bar anchoring by scanning seven random doweled contraction joints in each subplot. (2) Verify the presence and alignment of tie bar steel by scanning 75 lin. Ft. in each subplot.</p> <p>If the Engineer determines the first days dowel bar anchoring and tie bar placement processes are acceptable, the Engineer may allow a reduction in scanned joints in each subplot as follows: (1) Verify the adequacy of the dowel bar anchoring by scanning four random doweled contraction joints per subplot. (2) Verify the presence and alignment of tie bar steel by scanning 25 lin. ft. out of every subplot.</p>

Contact the MnDOT District IA Inspector to provide servicing of your Federal Aid Project.

## Concrete Wearing Course for Bridges

Test Type (concrete manual)	Spec.	Contractor/Producer QC Testing	Agency QA Testing	Form
Gradation, Quality, Coarse Agg -200 QC/Verification (5-694.145) (5-694.146) (5-694.148)	3126 3137	Prior to production, provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source. Test Agency companion samples are Contractor's discretion.	1 per fraction prior to production and each time aggregate is delivered to the site.	2410 Sample ID Card
Air Content - Type 3 Concrete (Verification) (5-694.541)	<a href="#">Review Concrete Manual Website</a>	None	1 per 15 yd <sup>3</sup> , Test at beginning of pour each day.	Weekly Report of Low Slump Concrete
Slump (Verification) (5-694.531)		None	1 per 15 yd <sup>3</sup> , Test at beginning of pour each day. Allow mix to hydrate 5 minutes before slump test to assure all cement is saturated.	
Compressive Strength (5-694.511)		None	1 cylinder (28 day) per 30 yd <sup>3</sup>	2409 Cyl. ID Card

Test	Minimum Sample Size *companion req'd, double sample size	
	Gradation	6 lb. for # 7, 500 g for CA-80
Quality	30 lb. for Coarse Aggregate	30 lb. Fine Aggregate

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

## Concrete Pavement Repair – CPR for 3U18

Test Type	Spec.	Contractor/Producer QC Testing	Agency QA Testing	<a href="#">Forms</a>
Gradation, Quality, Coarse Agg -200	3126 3137	Prior to production, the Contractor shall provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source. No quality test results are required. Test companion samples at Contractor's discretion.	Gradation: 1 per aggregate fraction prior to production and each time aggregate is delivered to the site. Quality Testing & Coarse Agg -200: 1 test per aggregate fraction per source. The Agency may use the gradation results for the Quality Samples as a substitute for 1 required field gradation.	2410 Sample ID Card
Air Content - Type 3 Concrete	<a href="#">Review Concrete Manual Website</a>	None	1 per 15 yd <sup>3</sup> , Test at beginning of pour each day.	21412 Weekly Report of Low Slump Concrete
Slump		None	1 per 15 yd <sup>3</sup> , Test at beginning of pour each day. Allow mix to hydrate 5 minutes before slump test to assure all cement is saturated.	
Compressive Strength		None	1 cylinder (28 day) per 30 yd <sup>3</sup>	2409 Cyl. ID Card

Test	Minimum Sample Size *companion req'd, double sample size	
	Gradation	6 lb. for # 7, 500 g for CA-80
Quality	30 lb. for Coarse Aggregate	30 lb. Fine Aggregate

Contact the MnDOT District IA Inspector to provide servicing of your federal aid project

## Dowel Bar Retrofit – (DBR)

Test Type	Spec.	Contractor/Producer QC Testing	Agency QA Testing	Form
Gradation, Quality, Coarse Agg -200	3126 3137	Prior to production, the Contractor shall provide the Agency with: Aggregate pit numbers, 1 passing gradation result per fraction per source. No quality test results are required. Test companion samples are Contractor's discretion.	1 per fraction prior to production and each time aggregate is delivered to the site.	2410 Sample ID Card

Test Type	Spec.	Agency QA Testing	Form
DBR Material Compressive Strength	<a href="#">Review Concrete Manual</a>	<b>Contractor Testing: None</b>	2409 Cylinder ID Card
		<b>Agency Testing:</b> During the pre-production test operations: 1 set of 3 cylinders tested at a rate as directed by the Engineer. Testing may need to be repeated if any problems with the dowel bar retrofit material are encountered. <b>First day of production:</b> 1 set of 3 cylinders at a rate directed by the Concrete Engineer. <b>After the first day of production:</b> 1 cylinder per day during production tested at a rate determined by the Engineer to determine traffic strength.	

Test	Minimum Sample Size *companion req'd, double sample size	
Gradation	500 g for # 89 & Sand	
Quality	30 lb. Coarse Aggregate	30 lb. Fine Aggregate

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

## Landscaping and Erosion Control Items

Kind of Material	Spec. #	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Manufactured Topsoil Borrow, Salvaged Topsoil (stockpiled)	3877.2	As directed by the Engineer
<a href="#">Plant Stock &amp; Landscape Materials</a>	3861 and 2571.2A1	Materials must be in accordance with the Inspection and Contract Administration Guidelines for MnDOT Landscape Projects of which determines the minimum and maximum criteria thresholds. Certificate of Compliance, Nursery stock certificate registered with MN Dept. of Agriculture. Out of state products subject to pest quarantines must be accompanied by documentation certifying all products are free of regulated pests.
<a href="#">Erosion Control Blanket</a>	3885	Visual Inspection and Check approved products or approved vendors list - As directed by the Engineer.
<a href="#">Erosion Control Netting</a>	3885	
<a href="#">Silt Fence</a>	3886	
<a href="#">Erosion Stabilization Mat</a>	3885	
Flotation Silt Curtain	3887	Accepted, based on manufacturers certification of compliance. Check weight of fabric.
Filter Logs	3897	Visual Inspection
Flocculants	3898	Obtain copy of Certificate of Compliance and MSDS
Fertilizer	3881	Obtain copy of invoice of blended material stating analysis.
Agricultural Lime	3879	Contractor must supply amount of ENP (Equivalent Neutralizing Power) for each shipment.
<a href="#">Mulch - Type 3</a>	3882	Certified Weed Free (Certified sources only) Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
Mulch - Type 6 - Woodchips		All wood chips supplied by a supplier outside the Emerald Ash Borer quarantine area or have an Emerald Ash Borer Compliance Agreement with the MDA
Seeds	3876	(Certified Vendors Only) (Mixes 100-299) Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
Native Seed		(Mixes 300-399) certified seed only. Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA).
<a href="#">Sod</a>	3878	Visual Inspection - Check approved products list - As directed by the Engineer. Check for Certified Vendor tag from Minnesota Crop Improvement Association (MCIA) for salt tolerant sod.
<a href="#">Compost (from Certified Source)</a>	3890	
Compost (from Non-Certified Source)		
<a href="#">Hydraulic Soil Stabilizer</a>	3884	Check Approved/Qualified Products List - As directed by the Engineer.



## Chemical Items

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

## Metals (1 of 2)

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

## Metals (2 of 2)

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

\*Check domestic steel requirement under 1601 Special Provision.

## Geosynthetics, Pipe, Tile, Precast/ Prestressed Concrete

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

## Electrical and Signal Equipment Items (1 of 2)

Kind of Material	Spec. No.	Minimum Required Agency QA Acceptance Testing (Field Testing Rate)
Lighting Standards (Aluminum or Steel)	3811	Visual Inspection - Obtain Certificate of Compliance. The Fabricator will submit "Certificate of Compliance," on a per project basis, to the Project Engineer.
<a href="#">Hand Holes (Precast, PVC, and LLDPE)</a>	2545	Visual Inspection - Check approved/qualified products list. Traffic signal and street lighting projects require hand holes to be listed on the MnDOT Signals Approved Products List (APL). For cast iron frame and cover: see Metals - Drainage and Electrical Castings
	2550	
	2565	
Foundation	2545	Slump as needed, 1 cylinder per 25 cu. yds. Rebar is required in concrete foundations as specified in the Contract documents for all traffic control signals and roadway lighting projects.
Steel Screw In Foundations	2545 2565	See Approved/Qualified Products List for Roadway Lighting and Signals.
<b>Conduit and Fittings</b>		
Metallic	3801	Visual Inspection - Conduit shall be labeled as being listed by a National Recognized Testing Laboratory (NRTL). For traffic signal and street lighting projects, specific requirements are contained in the Special Provisions for each project.
	3802	
Non-Metallic (Rigid and HDPE)	3803	
	Special Provisions	
Anchor Rods and Bolts (Cast in Place)	3385	
<a href="#">Anchorages (Drilled In)</a>	Special Provision	Visual Inspection - Check qualified products list.
<a href="#">Miscellaneous Hardware</a>	2545 2565	Visual Inspection - Check approved products list. Will carry "Inspected" tag if sampled and tested prior to shipment. No sample necessary if "Inspected". Do not use if not tested. Field sample at sampling rate for laboratory testing. For traffic signal and street light lighting projects, various miscellaneous hardware is required to be listed on the MnDOT Signals and Lighting Approved Products Lists (APL). The Contract documents indicate, which items must be on the Signals and/or Lighting APL.

## Electrical and Signal Equipment Items (2 of 2)

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

## Brick, Stone and Masonry Units

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

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

## Miscellaneous Materials

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



## Approved/Qualified Products & Resources

### Approved/Qualified Products

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

### Additional Resources

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

## Contacts

### MnDOT Construction and Materials State Aid Contacts

#### Districts 1, 2, 3, 4

Ross Hendrickson, State Aid Construction Specialist

[ross.hendrickson@state.mn.us](mailto:ross.hendrickson@state.mn.us)

218-766-3745

#### Districts 6, 7, 8

Rollin Larson, State Aid Construction Specialist

[rollin.larson@state.mn.us](mailto:rollin.larson@state.mn.us)

507-205-6403

#### Metro

Michael Pretel, State Aid Construction Engineer

[michael.pretel@state.mn.us](mailto:michael.pretel@state.mn.us)

651-234-7778

Kyle Puent, State Aid Construction Liaison

[kyle.puent@state.mn.us](mailto:kyle.puent@state.mn.us)

651-234-7762

### MnDOT Specialty Offices Contacts

#### Grading & Base

Terry Beaudry	Grading & Base Engineer	651-366-5456
John Bormann	Grading & Base Specialist	651-366-5496

#### Bituminous\*

John Garrity	Bituminous Engineer	651-366-5577
Greg Johnson	Asst. Bituminous Engineer	651-366-5464
Greg Schneider	Asst. Bituminous Engineer	651-366-5403
Elliot Keyes	Pavement Preservation	651-366-5432
Deb Evans	Bituminous Engineer Specialist	651-366-5574
Ray Betts	Bituminous Trial Mix Lab Tech	651-366-5469

\*See website for the contact list by topic

#### Concrete\*

Maria Masten	Concrete Engineer	651-366-5572
Ron Mulvaney	Structural Concrete Engineer	651-366-5575
Rob Golish	Asst. Concrete Engineer	651-366-5576
Wendy Garr	Concrete Engineer Specialist	651-366-5423
Gordy Bruhn	Concrete Field Eng. Specialist	651-366-5523

\*See website for the contact list by topic

Contacts for other materials can be found on the [Materials and Road Research Contacts webpage](#).

Contacts for Approved Products can be found at the [Approved/Qualified Products Contact webpage](#).

2019 SALT Schedule of Materials Control – Local Government Agency

Materials Lab. Contacts	Independent Assurance	
<p><b>District 1, Duluth</b>                      Leila DeLuca, Wyatt Driskell, Cody Desmodt                      Phone: 218-725-2738                      Lab Email D1.duluth.lab.dot@state.mn.us</p>	<p>Nadine Miller                      Phone: 218-725-2737                      Cell: 218-348-6297                      Nadine.miller@state.mn.us</p>	
<p><b>District 2, Bemidji</b>                      Jeff Long, Phone: 218-755-6544                      Jason Kissel, Phone: 218-755-6542                      Fax: 218-755-6540</p>	<p>Thomas Lloyd                      Cell: 218-766-6949                      Thomas.lloyd@state.mn.us</p>	
<p><b>District 3A, Baxter</b>                      Tom Boser                      Phone: 218-828-5755                      Fax: 218-828-5816</p>	<p>Matt Miles                      Phone: 218-828-5759                      Cell: 218-232-6748                      Matt.miles@state.mn.us</p>	
<p><b>District 3B, Saint Cloud</b>                      Teresa Mertens                      Phone: 320-223-6555                      Fax: 320-223-6582</p>	<p>Teresa Mertens                      Phone: 320-223-6555                      Cell: 320-241-6290                      Teresa.mertens@state.mn.us</p>	
<p><b>District 4, Detroit Lakes</b>                      Brad Hanson, Phone: 218-846-3616                      Bruce Bryngelson, Phone: 218-846-3614                      Wayne Koons, Phone: 218-846-3617                      Fax: 218-846-0744</p>	<p>David Brunner                      Phone 218-846-3613                      Cell: 218-849-7393                      David.brunner@state.mn.us</p>	
<p><b>Metro District, Maplewood Lab</b>                      Mike Evans Phone 651-366-5409                      Brent Scolley Phone 651-366-5410                      Dave Wilkerling Phone 651-366-5424                      Fax: 651-366-5408</p>	<p><b>Waters Edge Mat'ls (@state.mn.us)</b>                      West                      Steve Reinardy (steve.reinhardy@)                      Mike Amiot (mike.amiot@)                      East                      Greg Bohmert (greg.bohmert@)                      Matt Herbst (matt.herbst@)</p>	<p>Phone: 651-234-7356                      Phone: 651-755-1581                      Phone: 651-775-1042                      Phone: 651-775-1005                      Phone: 651-775-1018</p>
<p><b>District 6, Rochester</b>                      Ken DeCramer, Phone: 507-286-7580                      Jeff Bale, Phone: 507-286-7586                      Russ Smith, Phone: 507-286-7535                      Fax: 507-285-7112</p>	<p>Ken Pickett                      Phone: 507-286-7584                      Cell: 507-251-0138                      Ken.pickett@state.mn.us</p>	
<p><b>District 7, Mankato</b>                      Mark Schoeb, Phone: 507-304-6186                      Scott Swanson, Phone: 507-304-6189                      Fax: 507-304-6191</p>	<p>Mitch Jordahl                      Cell: 507-380-9619                      Mitch.jordahl@state.mn.us</p>	
<p><b>District 8A, Willmar</b>                      Jay Jorgensen, Phone: 320-214-6345                      Fax: 320-214-6306</p> <p><b>District 8B, Marshall</b>                      Mark DeAustin, Phone: 507-537-2068                      Fax: 507-537-3802</p>	<p>Jon Vlaminck                      Cell: 320-894-7409                      Jon.vlaminck@state.mn.us</p>	

## Sample Sizes

Lbs.

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

**ATTACHMENT A  
PRIME CONTRACTOR RESPONSE**

**RESPONSIBLE CONTRACTOR VERIFICATION AND CERTIFICATION OF COMPLIANCE**

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

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

<p>Minn. Stat. § 16C.285, Subd. 7. <b>IMPLEMENTATION.</b> ... 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...</p>	
<p>Minn. Stat. § 16C.285, Subd. 3. <b>RESPONSIBLE CONTRACTOR, MINIMUM CRITERIA.</b> "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:</p>	
<p>(1)</p>	<p>The Contractor:</p> <ul style="list-style-type: none"> <li>(i) is in compliance with workers' compensation and unemployment insurance requirements;</li> <li>(ii) is in compliance with Department of Revenue and Department of Employment and Economic Development registration requirements if it has employees;</li> <li>(iii) has a valid federal tax identification number or a valid Social Security number if an individual; and</li> <li>(iv) has filed a certificate of authority to transact business in Minnesota with the Secretary of State if a foreign corporation or cooperative.</li> </ul>
<p>(2)</p>	<p>The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 177.24, 177.25, 177.41 to 177.44, 181.03, 181.101, 181.13, 181.14, or 181.722, and has not violated United States Code, title 29, sections 201 to 219, or United States Code, title 40, sections 3141 to 3148. For purposes of this clause, a violation occurs when a contractor or related entity:</p> <ul style="list-style-type: none"> <li>(i) repeatedly fails to pay statutorily required wages or penalties on one or more separate projects for a total underpayment of \$25,000 or more within the three-year period, provided that a failure to pay is "repeated" only if it involves two or more separate and distinct occurrences of underpayment during the three-year period;</li> <li>(ii) has been issued an order to comply by the commissioner of Labor and Industry that has become final;</li> <li>(iii) has been issued at least two determination letters within the three-year period by the Department of Transportation finding an underpayment by the contractor or related entity to its own employees;</li> <li>(iv) has been found by the commissioner of Labor and Industry to have repeatedly or willfully violated any of the sections referenced in this clause pursuant to section 177.27;</li> <li>(v) has been issued a ruling or findings of underpayment by the administrator of the Wage and Hour Division of the United States Department of Labor that have become final or have been upheld by an administrative law judge or the Administrative Review Board; or</li> <li>(vi) has been found liable for underpayment of wages or penalties or misrepresenting a construction worker as an independent contractor in an action brought in a court having jurisdiction. Provided that, if the contractor or related entity contests a determination of underpayment by the Department of Transportation in a contested case proceeding, a violation does not occur until the contested case proceeding has concluded with a determination that the contractor or related entity underpaid wages or penalties;*</li> </ul>

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

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

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

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

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

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

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

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

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

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

**CERTIFICATION**

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

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

**Authorized Signature of Owner or Officer:**

**Printed Name:**

**Title:**

**Date:**

**Company Name:**

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

**ATTACHMENT A-1**

**FIRST-TIER SUBCONTRACTORS LIST**

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

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

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

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

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

<b>SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-1</b>	
<b>By signing this document I certify that I am an owner or officer of the company, and I certify under oath that:</b> <b>All 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.</b>	
<b>Authorized Signature of Owner or Officer:</b>	<b>Printed Name:</b>
<b>Title:</b>	<b>Date:</b>
<b>Company Name:</b>	



**ATTACHMENT A-2**

**ADDITIONAL SUBCONTRACTORS LIST**

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

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

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

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

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

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

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

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS, That We

\_\_\_\_\_  
\_\_\_\_\_

as Principal, and

\_\_\_\_\_

as Surety are held and firmly bound unto the \_\_\_\_\_

\_\_\_\_\_, Minnesota, hereinafter called

"Owner", in the penal sum of \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ dollars (\$ \_\_\_\_\_)

lawful money of the United States, for the payment of which sum will and truly be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these present. The condition of this obligation is such that whereas the principal has submitted the accompanying bid.

Dated \_\_\_\_\_, 20\_\_, for complete construction of Haven Township, Sherburne County, Minnesota.

NOW, THEREFORE,

- (A) If said Bid shall be rejected, or in the alternate,
- (B) If said Bid shall be accepted and the principal shall execute and deliver a Contract in the form specified and shall furnish a bond for his faithful performance of said Contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid.

Then this obligation shall be void, otherwise, the same shall remain in force and effect; it being expressly understood and agreed that the liability of the surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

By virtue of statutory, the full amount of this Bid Bond shall be forfeited to the Owner in liquidation of damages sustained in the event that the Principal fails to execute the Contract and provide the Bond as provided in the Contract documents or by law.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its Bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the surety, have hereunto set their hands and seals, and such of them as are corporations, have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers this \_\_\_\_ day of \_\_\_\_\_, A.D. 20\_\_.

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Principal (SEAL)

By \_\_\_\_\_ (TITLE)

\_\_\_\_\_  
Surety (SEAL)

By \_\_\_\_\_  
(Attorney-in-Fact)

Attach Power-of-Attorney

**IMPORTANT** - Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.