

**SDDOT CONSTRUCTION MANUAL
PROJECT MANAGEMENT SECTION
CHAPTER 3 MATERIALS**

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SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION MATERIALS MANUAL

The Materials Manual is the publication for certification requirements, testing requirements, testing frequencies and testing procedures used by the department for projects. Plan notes and Special Provisions may also determine additional and/or modified requirements or procedures.

ADMINISTRATION OF MATERIALS CERTIFICATION AND TESTING PROCEDURES

Reviewing Plans

Based on a review of the project plans, the Certification Program Administrator prepares a DOT-14 which is generated from the Materials Sampling and Testing system (MS&T). The DOT-14 is a compilation of the sampling, testing and certification requirements for each contract and the frequency at which they need to be obtained.

DOT-14 Attachment 1

Building the DOT-14

Requirements on the DOT-14 come from the Minimum Sample and Test Requirements (MSTR) section of the Materials Manual with the exception of materials used in bid items not previously used by the Department (something that is totally new). In that case, the specifications are usually provided in the plans and/or special provisions for that work. The DOT-14 is accessible on the computer at all region/area offices. Hard copy of the DOT-14 can be printed at any of these locations.

Copies of the DOT-14 can be made available to the contractor at the discretion of the Area/Project Engineer. The DOT-14 is a working document and is subject to change due to construction change orders, shop drawings and apparent omissions which may occur without notice. While a reasonably accurate review has been made of all dimensions and of compliance with contract plans and specifications, any corrections, comments or omissions of corrections and comments on the DOT-14 do not relieve the Contractor of their responsibility of complying with the requirements of said contract plans and specifications including changes which have received prior approval by the Engineer.

Certification and Testing Requirements

The entire process outlined herein for certification and testing of materials is used in conjunction with the MS&T system. Nearly all of the forms used by field personnel are automated within the system. Copies of other forms not automated within MS&T can be obtained from the region/area office. All field test data will be loaded electronically. Sample data sheets will be prepared within MS&T. The system will assign a sample/cert ID number for all materials, and the data will be updated on the DOT-14 electronically. When the work begins on the project, copies of all certification documents (certificates of compliance, certified mill test reports) received from the Contractor must be forwarded to the Certification Program Administrator as they are received. Submittal of certification documents will require the preparation of a cover letter indicating what documents are enclosed so that compliance to specification can be determined. Letters for each material item selected by the Engineer can be printed from MS&T for submittal. If all materials in the submittal meet applicable specifications, the Certification Program Administrator approves the documentation and inputs a date on the DOT-14 that indicates to the field personnel the item met

specifications. If there is a rejection due to a deviation or the submittal is incomplete the Project Engineer will receive an email notification from MS&T indicating what was missing or what is out of specification.

Cover Letter Attachment 2

The number of tests is updated each time a new test is entered and prepared. The number of certificates of compliance is updated each time an approved supplier cert is added to the system, or the certification office approves a cert provided from a source not on the approved products list. Testing forms for materials tested in the field do not need to be forwarded to the Certification Program Administrator.

Samples of materials which cannot be tested in the field (liquid asphalt, air entraining agent, water reducing agent, cement, curing compound, quality tests for aggregates) must be obtained and forwarded to the Central Testing Laboratory for testing. Each sample must be accompanied by a DOT-1 (Sample Data Sheet) and may require a DOT-2 (Submittal Envelope). The DOT-1 should identify the material, its intended use, project number, PCN, county, sample number, by whom submitted and to whom the results should be reported.

A copy of the certificate of compliance received from the Contractor for the material represented by the sample along with the cert ID number should accompany the DOT-1 which is sent with the sample to the Central Testing Laboratory in Pierre. The DOT-1's and cert ID's are created in MS&T.

DOT-1 Attachment 3

DOT-2 Envelope Attachment 4

Certificate of Compliance. Attachment 5

Note: A tabulation of the visual inspection requirements can be printed out and used as a checklist to keep track of what documentation has or has not been made.

Summary of Visual Inspection Requirements. Attachment 6

Each material has a minimum sample size and specific container in which samples should be placed. The size and type of container can be found in the MSTR under the applicable material to be sampled. These containers may be obtained from the Region Materials Engineer.

Minimum Sample Sizes are listed in the Materials Manual section MSTR. Sample sizes will meet the minimum defined sample size requirements for the applicable material. The type and number of containers that need to be utilized are also listed in the MSTR. Each minimum sample size represents one sample regardless of the number of containers required.

Umbrella Certification

Umbrella certification is another process used for materials certification which is defined in the Materials Manual Required Sample, Tests and Certificates (RSTC) Section 6. This process takes precedence over other guidelines provided in reference to materials certification for the following areas of work:

- Guardrail Systems
- Roadway Lighting/Signals/Traffic Control
- Permanent Signing Materials

Chain Link Fencing Systems

Bridge Drains

Tie Bolts for Reinforced Concrete Pipes and Precast Box Culverts

Precast & Prestress Concrete

There are other items not listed, and which can be found in the MSTR

When the above items of work are included in a contract, the Contractor is not required to furnish copies of the Certified Mill Test reports for each component used in the assembly. He merely furnishes the Inspector with a completed copy of a DOT-99 when the work begins. The heading of the form will be filled out and the body must include a tabulation of the components used to include: item size & description for each, manufacturer for each, and heat or lot number for each. The items of work involved are the types frequently performed by a Subcontractor. When they are of this variety, the Subcontractor can prepare the DOT-99 but it is the responsibility of the Prime Contractor to sign the form.

DOT-99 Attachment 7

When the Inspector receives the DOT-99 they should review it to ascertain that all components listed on the DOT-14 for that bid item are included in the component tabulation. All components for an assembly which have certification/testing requirements are listed under the bid item on the DOT-14. If all components have not been listed on the DOT-99 the Inspector should take it back to the Contractor and have him provide the missing information as an incomplete DOT-99 cannot be accepted. After the form is complete, it must be forwarded to the Certification Program Administrator who will verify that all components and the corresponding information required for each have been provided and will make the necessary updates on the DOT-14.

The Contractor is required to keep the original documents (mill tests, etc.) in the file at their office. The office of Operations will randomly select a percentage of the projects with umbrella certification on an annual basis for an audit to verify the Contractor is maintaining the proper paperwork. This audit may be conducted at the Contractor's office.

The umbrella certification process does not relieve the Inspector of their responsibility to provide the visual Inspection and corresponding documentation of the materials used in the various systems as required for acceptance in the MSTR section of the materials manual.

The Project Engineer must be aware that there may be supplemental specifications that are also a part of the proposal for every project.

The Project Engineer must be aware of the fact that most fabricated systems (lighting structures, bridge rail, structural steel etc.) require submittal of a set of shop drawings before the system is fabricated. These shop drawings must be approved by central office personnel before the system can be fabricated or installed. Standard Specifications or plan notes will normally point out the requirement for these shop drawings.

Tier System

All materials that have a certification or testing requirement have a "Tier" associated with it. Each material is labeled with the applicable tier on the DOT-14. The tier system is defined in the (RSTC) Section 6 and the following describes what the tiers are and what they should mean to the Project Engineer or Inspector.

- a. Tier 1 Materials: A material that is critical to safety or costly to replace – the Department will allow the Contractor to install these materials only after they furnish the documents specified under the heading “Certification” in the MSTR section of the materials manual and the Certification Program Administrator advises the materials conform to the specifications. Payment for Tier 1 material is made only after it has been installed.
- b. Tier 2 Materials: The Department will allow the contractor to install a Tier 2 material only after they furnish the documents specified under the heading “Certification” in the MSTR section of the materials manual or the Contractor uses a material listed on the “Approved Products List” or furnished by a “Certified Supplier”. Payment for Tier 2 material is made only after it has been installed.
- c. Tier 3 Materials: Materials that have no requirements under the heading “Certification” in the MSTR section of the materials manual. Many of them do, however, have a requirement for visual inspection for acceptance. The Contractor may install a Tier 3 material at any time, and the Department will make payment only after it is installed.

Approved Products List / Plans Products List

The Approved Products List is developed and maintained by the Certification Program Administrator. The list is a summary of all products that have been approved for use on construction projects by the Department. This list is available on the SDDOT internet site at <https://dot.sd.gov/> and is accessible under <https://dot.sd.gov/doing-business/certification-accreditation/approved-products>

The Plan Products List is an account of acceptable products not found on the Approved Products List. The list is a summary of products which have been approved by the Department for use on certain construction projects for specific items defined in the plans.

These products can be used without furnishing a certificate of compliance unless otherwise specified by specifications or plans. However, the inspector must provide verification to the certification office what the product designation is and who manufactured the product. This can be done by either furnishing a certificate of compliance or picking the approved product / plan product in MS&T after creating the cert ID.

Approved Products Index Attachment 8
Approved Products List Attachment 9

Addressing Deviations and/or Deficiencies

If there is a deviation, the Area Engineer should be alerted, so determination can be made whether the material must be corrected, replaced or if a DOT-18 must be prepared. This is applicable to both certification data and tests of material performed on the project. A deviation summary list can be generated through MS&T. It details the bid item, failing results, action taken and determination for the issues.

DOT-18 Attachment 10
Specification Deviation Summary Attachment 11

MATERIALS TESTING & INSPECTION CERTIFICATION PROGRAM

Requirements

This program is mandated by the Federal Highway Administration per 23 CFR 637 Subpart B. It requires that all individuals performing acceptance testing and independent assurance testing or inspection shall be certified, and that all testing equipment used for this testing be calibrated at a specified frequency. South Dakota Standard Specifications further mandate anyone doing inspection shall also be certified.

Areas of Expertise

The program applies to highway construction on all highway systems plus all informal/maintenance projects that require inspection as determined by the Region Engineer or Region Materials Engineer. The calibration records for the equipment must be readily available for review upon request by FHWA (for DOT equipment) and by FHWA or DOT (for consultant equipment).

Areas Included:

Testing

Soils

Aggregates

Concrete Materials (ACI)

Asphalt Materials (QC/QA)

Inspection

Concrete Paving

Concrete Plants

Earthwork/Erosion Control/Pipe Installation

Structures

Asphalt (QC/QA)

Erosion & Sediment Control

The Soils & Aggregate Testing, Concrete Paving, Concrete Plants, Earthwork, Structures and Erosion & Sediment Control courses are sponsored and conducted by the Department of Transportation. The scheduling of these courses is handled by the Certification Office in conjunction with the SDDOT Training Activity. The fees for this certification and registration can be obtained by contacting SDDOT Training Activity, the fees include the course manual. The certification for each of these courses is good for 4 years.

Anyone certified in these areas became certified initially by completing the certification course. In lieu of attending the course to recertify after 4 years, there is an option of testing out. This means they can take the course examination and if they achieve a minimum score of 70% they will be certified for another 4 years. The test-out option may not be used to recertify for more than one successive 4-year certification period. The test-out option must be alternated with completion of the course on a 4-year basis.

The Asphalt QC/QA Program consists of the following levels: Asphalt Concrete Aggregate Testing, Asphalt Concrete Hot Mix Testing, Asphalt Concrete Roadway Inspection and Asphalt Concrete Mix Design & Production Control. QC/QA Aggregate Testing, QC/QA Hot Mix Testing, and QC/QA Mix Design & Production Control certification courses are scheduled and conducted through Dakota Asphalt Pavement Association (DAPA) (www.dakota-asphalt.org). DAPA handles the registration and sets the fees for this certification which includes a copy of the course manual. QC/QA Asphalt Concrete Roadway Inspection is an online course through the Asphalt Institute's Paving Inspector Certification (PIC) and is followed

by an online module and exam in SDLearn. The Asphalt Institute handles registration and sets the fees for this certification. Certification for each of these levels is good for 4 years. The candidate must attend the certification course every four (4) years or attend the certification course and the recertification course on an alternating basis every four (4) years

The ACI certification course addresses the field tests for concrete. This course is scheduled by the certification office and conducted by SD Ready Mixed Concrete Association (SDRMCA). The fees are set by SDRMCA/ACI and registration done through the SDRMCA website (www.sdrmca.org). The fees include a copy of the ACI Workbook used during the course. Certification for this course is good for 5 years. Recertification can be achieved only by attending the course.

Personnel who complete the various certification workshops can download a wallet card from SDLearn. The wallet card shows the certification an individual has completed and includes the expiration date for each subject. The wallet card should be retained by the certified individual as proof of their certification. Although QC/QA Asphalt certification is not sponsored or conducted by the Department of Transportation, the wallet cards will include records of this certification. ACI records will be included on the wallet cards only for SDDOT employees.

The materials testing & inspection certification program includes provisions for disciplinary action – revocation or suspension of certification for just cause. This action is administered by the Oversight Committee which includes a variety of people from the DOT and contracting agencies.

Seasonal and/or temporary people may be used for inspection/testing in accordance with the guidelines provided in the program manual for these people as shown below:

Requirements for Temporary & Seasonal Personnel for Testing:

- a) Will obtain a copy of the test procedure(s) and become familiar with them.
- b) Will observe a certified technician perform the test procedure.
- c) Will perform the test procedure until proficiency is obtained.
- d) Will demonstrate the test procedure to a certified technician. The certified technician will use the performance checklist for the test being demonstrated to ascertain all steps are performed correctly. This document will be retained as verification of successful demonstration of the procedure
- e) Will have a copy of the applicable test procedure available during the demonstration testing and while testing material on the project.
- f) Will work on the same project under direct supervision of an individual certified in that area of testing.

Performance checklist example Attachment 12

Requirements for Temporary & Seasonal Personnel for Inspection:

- a) An individual's qualifications (training, education, and experience) will be considered in determining their ability to provide proper inspection in a particular area.
- b) The individual must work on the same project under direct supervision of an inspector certified in that inspection area.

- c) The certified inspector will determine whether the temporary or seasonal person is qualified for a particular area of inspection.
- d) The Individual will review the applicable Training Manual and have it available for use on the project.
- e) Temporary or seasonal personnel will not be required to take any of the inspection certification courses.

Direct Supervision:

- a) Materials Testing-A non-certified individual may perform tests or portions of tests only under direct observation of a certified technician until such time the non-certified technician demonstrates they can consistently perform the test or portion thereof in accordance with the outlined procedures. From that point on, the non-certified individual can perform the test or portion thereof whether or not a certified technician is physically present at the test site. However, the certified technician is required to spend time at the project/laboratory on a daily basis. The certified technician assumes all responsibility for the accuracy of the test data and signifies so by placing their initials on the worksheet as the checker.
- b) Inspection-A non-certified individual may perform inspection of a phase of work only under the direct observation of a certified technician until such time the non-certified individual demonstrates a thorough understanding and knowledge of the requirements and procedures for that phase of work. From that point on, the non-certified individual may inspect that phase of work whether or not a certified technician is physically present on the project. The certified technician will spend time on the project on a daily basis. The certified technician assumes all responsibility for the accuracy of the documentation provided and will place his/her initials on the document to verify review and approval.

The procedure to be followed in evaluating and documenting proficiency of testing and inspection for seasonal or temporary personnel will be in accordance with the provisions of the program manual.

Performance checklists for the testing procedures can be found in the U:\ms\Certification Accreditation\Accreditation-PublicFolder\PerformanceChecklists. A checklist will be prepared and attached to the training & evaluation record form for each testing procedure a seasonal/temporary employee demonstrates proficiency in.

Training and Evaluation Record form Attachment 13

There are no performance checklists for the inspection areas. The seasonal/temporary personnel will at all times possess a copy of the most current training manual in the area in which they are providing inspection. The individual providing direct supervision must use their judgment in determining when proficiency in a particular area is achieved. This must also be documented on a training & evaluation record form.

The performance checklists and training & evaluation record forms will be available in the laboratory in which a seasonal/temporary person is performing tests and the training and evaluation record form for inspection must be available somewhere on the project for review on request by FHWA, DOT or other authorized personnel.

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CHAPTER 3 - MATERIALS

The above referenced data for Department seasonal/temporary personnel must be available for review at the local area office. The Materials Testing & Inspection Certification Program Manual is accessible on the Internet at <https://dot.sd.gov/> and is located under <https://dot.sd.gov/inside-sddot/forms-publications/manuals>.

Summary of Requirements for Tests and Certifications

DOT-14

Contract: 9752
 PCN: 07CF (Main), Related PCN's: 09FT
 Project(s): PH 016A(99)45 (Main), Related Projects: PH 0087(15)57
 County: Custer
 Location: US16A - 6.5 N of SD36
 Type of Work: Horizontal Curve Realignment
 Contractor: Mainline Contracting, Inc.
 Project Engineer: Montana Rivard

Letting Date: 12/3/2025

Length: 0.15 miles
 Area: Custer Area

Material	Quantity	Unit	Req'd	Made	Requirement
120 Unclassified/Rock Excavation	20,681.000	CuYd			
			*	0	Cross Pipe Pre-Install Dens. for Acceptance - One below each mainline cross pipe prior to installation
	20,681/200,000 = 1		1	0	In-Place Emb Den or S. Analy for Independent Assurance - Density or soil classification. Not required if less than 10,000 cu. yds..
			*	0	In-Place Emb Den or S. Analy for Acceptance - Density or soil classification.
			*	0	InPlace Pipe/Box Den or SAnaly for Independent Assurance - Density or soil classification.
			*	0	InPlace Pipe/Box Den or SAnaly for Acceptance - Density or soil classification.
			*	0	Moisture Content - Embankment for Acceptance - One per 2 hours
			*	0	Moisture Content-Pipe/Box Emb for Acceptance - One per 2 hours
			1	0	Sieve Analysis for Acceptance - Pipe Bedding
260 Base Course (Tier 3)	4,664.300	TON			
	4,664/50,000 = 1		1	0	Central Lab Test for Quality
			*	0	In-Place Density for Independent Assurance - One per 4 miles - None req'd if less than 1,000 tons
			*	0	In-Place Density for Acceptance - One per mile per lift
	4,664/3,000 = 2		2	0	Sieve Analysis for Acceptance
	4,664/15,000 = 1		1	0	Sieve Analysis for Independent Assurance - None req'd if less than 1,000 tons
			1	0	Sieve Analysis (Four Point) for Information Only - One per source, combination or type
			1	0	Standard Density (4 Point) for Acceptance - One per source, combination or type
320 Asphalt Concrete Composite	1,385.600	Ton			
			1	0	DOT-97 for Certification
			1	0	Visual Inspection for Acceptance
ASPHALT BINDER (Tier 2)					
			*	0	Cert of Compliance per Convey for Certification
Blotting Sand for Prime (Tier 3)					
			1	0	Sieve Analysis for Acceptance - One per project
MC-70 (Tier 2)					

NOTE: Based on CCO's, approved shop drawings, & apparent omissions the requirements of this DOT-14 are subject to change.

* = number of requirements cannot be determined at this time, please check comments for additional instructions.



Department of Transportation

Rapid City Area Office

2300 Eglin Street
P.O. Box 1970
Rapid City, SD 57709-1970
Phone: 605/394-2244
Fax: 605/394-1904

Contract: 9753

Date: 03/11/2026

PCN: 091L

Project: IM 0902(186)101

County: Pennington

Work: LSDC Overlay, Joints, Approach Slabs, Approach Surfacing, Guardrail, Polymer Chip Seal

To: Certification Engineer
700 E. Broadway Ave.
Pierre, SD 57501

ITEM(S) ATTACHED

Cert. Group ID: 123085

<u>Cert. ID</u>	<u>Description</u>	<u>Date Submitted</u>	<u>Submitted By</u>
332319	Epoxy Coated Reinforcing Steel SPEC 480 - Epoxy Coated Reinforcing Steel Material Group: Epoxy Coated Reinforcing Steel Approved Product: Requirement Type: Epoxy Resteel Certs	07/18/2025	Baker, Jason
		Purpose: Certification	

The above certification(s) submitted for approval by:

Jason Baker

CC: Certification Engineer
File

Attachment #2

Sample ID

Sample Data Sheet

DOT-1

File No.

9-14

Laboratory Test No. _____

County _____

PCN/PROJECT _____

SUBMITTED BY _____ PROJECT ENGINEER _____

SEND RESULTS TO _____

CONTRACTOR _____ SUB-CONTRACTOR _____

CHARGE TO (If not above project) _____ SUPPLIER _____

This is a _____ sample. MATERIAL TYPE _____

FIELD SAMPLE NO. _____ DATE SAMPLED _____ TIME SAMPLED _____

THIS SAMPLE REPRESENTS _____ (quantity & unit of measurement)

Please identify as: Sta. _____ Dist. L/R _____ Lift _____ / _____

Certification ID: _____

<u>FOR CONCRETE</u>	<u>Type</u>	<u>Lot No.</u>	<u>Crushed Rock</u>	<u>%</u>	<u>MISCELLANEOUS</u>	<u>Type</u>	<u>Lot No.</u>
☐ cement	_____	_____	Sand	_____ %	☐ beads	_____	_____
☐ admixture	_____	_____	Lime	_____ %	☐ paint	_____	_____
☐ latex modifier	_____	_____	Gravel	_____ %	☐ asphalt	_____	_____
☐ curing compound	_____	_____	Filler	_____ %	☐ sampling method	_____	_____
☐ coarse agg., size	_____	_____	Coated Aggregate	_____ %	☐ fencing material (list under remarks)	_____	_____
☐ fine agg.	_____	_____	Clay	_____ %	☐ _____	_____	_____
☐ cylinders	_____	_____					

If material is to be used for CONCRETE, check its use as follows:

☐ On Grading
 ☐ On Bridge
 ☐ Paving
 ☐ Class
 ☐ Other

If material is to be used for SURFACE COURSES, check its use as follows:

☐ Base Coarse, Type	☐ Treated	☐ Subbase, Type
☐ Asph. Conc., Class/Type	☐ Asph. Surf. Treatment, Type	☐ Gravel Surfacing
☐ Maintenance Stockpile	☐ Miscellaneous	☐ Shoulders

Use Description: _____

FOR SHIPPED IN MATERIAL: Producer's Name & Address _____

Brand, Trade Name or Quarry _____

FOR LOCAL MATERIAL: Location of Pit or Quarry _____ 1/4 Sec. _____

_____ Twp. _____ Range, _____ County Owner & Address _____

Shipping Ticket No. _____ Truck or Car No. _____ Unloaded at _____

Remarks:

FROM

TO

SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION



LABORATORY

SOUTH DAKOTA

(Zip Code)

DOT-2 (1/84)

SAMPLE DATA

COUNTY _____ PCN/PROJECT _____

ACCEPTANCE, IAS, PRELIMINARY _____
(Circle appropriate test type) (or other)

SAMPLE OF _____ TO BE USED FOR _____
(aggregate, soil, or other)

PIT OR
PRODUCER _____ DEPTH _____

STATION OR
LOCATION _____ DISTANCE FROM
CENTERLINE _____

FIELD HOLE LABORATORY
NUMBER _____ NUMBER _____ NUMBER _____

DATE
MADE _____ BREAK
DATE _____ AGE _____

REMARKS:



Bill of Lading

Shippers BOL No.	Revision
190056909	1
Ship Date:	10/17/2025

EMERGENCY CONTACT:

SHIPPER/OFFEROR: FHR PINE BEND, LLC

CHEMTREC (CCN 8586) 1-800-424-9300 (US/CAN)
01-800-681-9531 (MEX)

Origin	Customer/Consignee/Sold To	Destination/Ship To
FHR PINE BEND, LLC 901 NORTH SEVENTH ST MARSHALL, MN 56258	BITUMINOUS PAVING INC P.O. BOX 6 ORTONVILLE, MN 56278	VAR HAMLIN COUNTY SD OVARIOUS, SD N/A

Agreement	Customer PO	Carrier	Freight Paid By
6787258		5894 - WAYNE TRANSPORTS, INC.	BUYER
Trailer	Driver		
02473	1000432 - HOLMES, VERNON		
		In	10/17/2025 11:33
		Out	10/17/2025 12:08

HM	Package	Proper Shipping Description Product Description SDS Classification	Temp (F) SpGr@60F LBS/GAL@60F	Gross GAL Net GAL@60F	Gross LBS Tare LBS
	1-T/T	NON-REGULATED BY DOT CSS-1H D50 SLOW SET ASPHALT EMULSION	155.84 1.014 8.441	5605 5471	77460 31280

RESIDUE: Org Emulsion 60% min

WATER (LBS): 22549

NET WT (LBS) 46180
(TON) 23.09

Notes:

Project Notes:

2025 Seasonal | FLEX contract (2)

Certifications:

Flint Hills Resources, LP (FHR) certifies that the product provided under this bill of lading meets the applicable Minnesota product specification criteria based on sampling and testing in accordance with FHR's Agency Quality Control Plan as most recently submitted to such State (MN). Signature: Flint Hills Resources, LP
Flint Hills Resources, LP (FHR) certifies that the product provided under this bill of lading meets the applicable South Dakota product specification criteria based on sampling and testing in accordance with FHR's Agency Quality Control Plan as most recently submitted to such State (SD). Signature: Flint Hills Resources, LP

DRIVER

10/17/2025 12:08

Specific Gravity and weight per gallon can vary throughout the processes of manufacturing, shipping and handling. The values provided are based on a historical average for the product supplied. These commodities, technology, or software were shipped from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. Law is prohibited.

For billing questions, please contact the origin listed above.

To request a current SDS in non-emergency situations, please call 316-828-7988

QR Revision: 06.30.2025 16:30

FHR MS BOL

QRD Revision: 07.07.2025 09:07

South Dakota Department of Transportation Visual Inspection Summary

Contract:	9753	Letting Date: 4/16/2025
PCN:	091L (Main)	
Project(s):	IM 0902(186)101 (Main)	
County:	Pennington	
Location:	I90 E & W - Jensen Rd 3.1 E of Wasta Interch over I90, 4.4 SE of US14 Interch over 195th Ave	
Type of Work:	LSDC Overlay, Joints, Approach Slabs, Approach Surfacing, Guardrail, Polymer Chip Seal	
Contractor:	INDUSTRIAL BUILDERS, INC.	Length: 0.00 miles
Project Engineer:	Jason Baker	Area: Rapid City Area

320 Asphalt Concrete Composite	Quantity: 322.00	Unit: Ton
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Asphalt Concrete Composite

Inspected By: Michael Rogers

Inspected Date: 12/01/2025

Inspection: The asphalt composite supplied meets the mix design of the DOT 97 as verified from certification from producer. air temp and mix temp were met, steel face and pneumatic rollers were used. the Asphalt was placed according to plans and specifications

410 Membrane Sealant Expansion Joint	Quantity: 63.00	Unit: Ft
--------------------------------------	-----------------	----------

Membrane Sealant Expansion Joint

Inspected By: Michael Rogers

Inspected Date: 08/13/2025

Inspection: Membrane Sealant Expansion Joint was inspected on the job prior to use and was approved to be used on this job. The expansion joint was installed as per details.

430 Granular Bridge End Backfill	Quantity: 9.00	Unit: CuYd
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TYPE B DRAINAGE FABRIC

Inspected By: Michael Rogers

Inspected Date: 08/13/2025

Inspection: Type B drainage fabric meets requirement in section 831.1A Material was placed as per plans and in good condition

450 12" CMP 16 Gauge, Furnish	Quantity: 70.00	Unit: Ft
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12" CMP 14 Gauge, Furnish

Inspected By: Michael Rogers

Inspected Date: 12/01/2025

Inspection: The 12" 16 gauge CMP was in new unused condition. it was correct size and length and placed per plans and specifications

450 12" CMP Elbow, Furnish	Quantity: 2.00	Unit: Each
----------------------------	----------------	------------

12" CMP Elbow, Furnish

Inspected By: Michael Rogers

Inspected Date: 12/01/2025

Inspection: The 12" CMP Elbow was in new unused condition and met requirements. the CMP Elbow was placed according to plans and specifications

SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
MATERIALS UMBRELLA CERTIFICATE

COUNTY Lincoln

PCN/PROJECT 01V6 NH-TA 0100(108)407

LOCATION Veterans Pkwy - Fm Western Ave to Cliff Ave

CONTRACTOR John Riley Construction, Inc.

ADDRESS PO BOX 535, MORRIS, MN 56267-0535

SUBCONTRACTOR Action Systems Inc. dba Action Electr

ADDRESS 5200 W 9TH STREET, SIOUX FALLS, SD 57107-0555

SUBMITTED BY Schneider, Scott D

The following items or materials are for use in the construction of the above mentioned contract.

Component Description	Manufacturer	Heat or Lot Number (as Applicable)
635E0040 Breakaway Base Luminaire Pole with Arm, 40' Mounting Height		
1 x 4" (F-3125 Gr. A325) CONTCG B/N/W (Ro-Cap Req'd)	SLSB, DECKER, PRESTIGE STAMPING	10762700, 20863870, 226829
1" (A-709 Gr. 36) PLATE - Base	SSAB	B3G509
11 Ga. (A-1011 Gr. 50) POLE MATERIAL - Post	RATNER	842b34830
2" Sch. 40 (A-500 Gr. B) - Arm	MCNEILUS STEEL	A314165
3/8" (A-709 Gr. 36) PLATE	WEST CENTRAL	54194315
T-BASE	AKRON FOUNDRY	176-21
635E0050 Breakaway Base Luminaire Pole with Arm, 50' Mounting Height		
1 1/4 x 5" (F-3125 Gr. A325) CONTCG B/N/W (Ro-Cap Req'd)	FONTANA GRUPPO, FONTANA GRUPPO, PRESTIGE STAMPING	10822190, 20832990
1" (A-709 Gr. 36) PLATE - Base	SSAB	B3G509
11 Ga. (A-1011 Gr. 50) POLE MATERIAL - Post	RATNER, RATNER	833C61060, 832C30050
2" Sch. 40 (A-500 Gr. B) - Arm	MCNEILUS STEEL	A314165
3/8" (A-709 Gr. 36) PLATE	RATNER	4135116
T-BASE	ACKRON FOUNDRY	172-21, 174-21
635E0140 Breakaway Base Luminaire Pole with Twin Arms, 40' Mounting Height		
1 x 4" (F-3125 Gr. A325) CONTCG B/N/W (Ro-Cap Req'd)	SLSB, DECKER, PRESTIGE STAMPING	10762700, 20863870, 226829
1" (A-709 Gr. 36) PLATE - Base	SSAB	B3G509
11 Ga. (A-1011 Gr. 50) POLE MATERIAL - Post	RATNER, RATNER	833C61060, 832C30050
2" Sch. 40 (A-500 Gr. B) - Arm	MCNEILUS STEEL	A314165
3/8" (A-709 Gr. 36) PLATE	WEST CENTRAL	54194315
T-BASE	AKRON FOUNDRY	176-21
635E0150 Breakaway Base Luminaire Pole with Twin Arms, 50' Mounting Height		
1 1/4 x 5" (F-3125 Gr. A325) CONTCG B/N/W (Ro-Cap Req'd)	FONTANA GRUPPO, FONTANA GRUPPO, PRESTIGE STAMPING	10822190, 20832990
1" (A-709 Gr. 36) PLATE - Base	SSAB	B3G509
11 Ga. (A-1011 Gr. 50) POLE MATERIAL - Post	RATNER, RATNER	833C61060, 832C30050
2" Sch. 40 (A-500 Gr. B) - Arm	MCNEILUS STEEL	A314165
3/8" (A-709 Gr. 36) PLATE	WEST CENTRAL	54194315
T-BASE	ACKRON FOUNDRY	172-21, 174-21

I hereby certify that these items or materials, including all miscellaneous items required, do meet the requirements as set forth in the plans and/or specification, including Buy America compliance as applicable.

Alex Erickson

Assistant Proj Manager

9/4/24

Prime Contractor's Signature

Title

Date

Kristi Wagner

Documentation Specialist

8/26/24

Form Completed by (Please Print)

Title

Date

Note: An original copy of this certification must be furnished to the Project Engineer

Approved Products

[All Approved Products](#)

[Product Type Index](#)

[Certified Plants](#)

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Select a Product Type



Show Products

List Products by Product Name

Select a Product Name



Show Products

List Products by Manufacturer Name

Select a Manufacturer Name



Show Products

Some items listed may be subject to the Buy America requirements specified in the Buy America Special Provision and may not necessarily constitute approval without additional certification being provided. It is the contractor's responsibility to ensure compliance is met prior to incorporating the product into the project.

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Product Type:	Bridge Shop Paint 3-Coat Organic Zinc		
Standard Product:	Product Name:	Manufacturer:	Approval Date:
Bridge Shop Paint 3-Coat Organic Zinc	Carbozinc 859 (P) / Carboguard 893 (I) / Carbothane 133 VOC (TC)	Carboline Co. St. LouisMO (800)848-4645 http://www.carboline.com	1/3/2017
Bridge Shop Paint 3-Coat Organic Zinc	Zinc Clad 4100 (P) / Macropoxy 646 (I) / Acrolon 218 HS (TC)	Sherwin Williams AndoverKS (316)733-1361 http://www.sherwin.com	1/3/2017
Bridge Shop Paint 3-Coat Organic Zinc	Zinc Clad 4100 Organic Zinc Primer	Sherwin-Williams Company, IL ChicagoIL (224)217-7021	12/4/2024

REPORT OF SPECIFICATION DEVIATION

DOT 18
(03/2019)

File # _____ Issue # 4

PROJECT NH 0212(191)134 COUNTY Dewey, Ziebach PCN 068J

CONTRACTOR Anderson Western, Inc. AREA ENGINEER John Villbrandt

BID ITEMS AFFECTED 096P 320E1203 Class Q3R Hot Mixed Asphalt Concrete @ \$62.10/Ton

MATERIAL Non QC|QA Q3R Mix for shoulders and approaches 8/3/2024.

QUANTITY AFFECTED 1000 ton

WORK INVOLVED

SD 63 shoulders and approaches approximate Sta 653 RT to Sta 463 RT

Test No.	Test	Failing Test Results	Sample Id	Test Results	Specification
NQC04	Results (% Air Void)		2427191	1.7	2.5 - 4.5

Test No.	Test	Corrective Test Results	Sample Id	Test Results	Specification
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ACTION TAKEN (Attach additional sheets as necessary.)

Informed contractor. Contractor changed bin splits.

It is the decision of the Region that the quality and performance of the material is such that it is accepted without correction and has been price adjusted


AREA ENGINEER DATE 12/31/25


REGION ENGINEER DATE 3/6/26

The Price Adjustment is as set forth in the letter from the Region Engineer.

Copies to: Area Operations Support
Region Contractor (through Area Engineer when Price Adjustment is involved)
Region Materials
Certification

Attachment #10

SD Department of Transportation
Specification Deviation Summary

Contract: 9753
PCN: 091L (Main)
Project(s): IM 0902(186)101 (Main)
County: Pennington
Location: I90 E & W - Jensen Rd 3.1 E of Wasta Interch over I90, 4.4 SE of US14 Interch over 195th Ave
Type of Work: LSDC Overlay, Joints, Approach Slabs, Approach Surfacing, Guardrail, Polymer Chip Seal
Contractor: INDUSTRIAL BUILDERS, INC.
Engineer: Jason Baker

Date Let: 04/16/2025

Length: 0.00 miles
Area: Rapid City Area

Issue Nbr: 1 Issue Status: Resolved Spec Dev Status: Final Price Adjustment Price Adjustment Amount: (\$200.00) Change Order Nbr: 2
Material: Class A45 Concrete Fill Pay Estimate Nbr: 8 Determination Date: 08/11/2025
Bid Item(s): 053P 550E0200 Class A45 Concrete Fill Affected Qty: 2.5 CuYd (approx.)

Action Taken: Field staff immediately notified the Contractor of the failing results. The concrete was placed with the understanding that there would be a spec deviation because the Contractor is trying to get the low slump deck overlay completed so that other work can proceed on the structure. Field staff allowed the concrete to be placed since it will be covered with a low slump overlay. After approximately 2.5 CuYds had been discharged and placed, the Project Engineer shut down the operation due to concrete time limits, the ambient temperature, the concrete temperature, and the amount of work necessary to complete filling in all of the deck removals.

Determination: Material will remain in place with a \$200.00 Lump Sum Deduction.

Failing Results:

Test Number	Test Description	Sample Id	Test Results	Specifications
01	Fresh Concrete Test (% Entrained Air)	2454699	4.4	5.0 - 7.5
01	Fresh Concrete Test (Concrete Temperature)	2454699	85	50 - 80

Issue Nbr: 2 Issue Status: Resolved Spec Dev Status: Final Price Adjustment Price Adjustment Amount: (\$200.00) Change Order Nbr: 2
Material: Class A45 Concrete Fill Pay Estimate Nbr: 8 Determination Date: 08/08/2025
Bid Item(s): 053P 550E0200 Class A45 Concrete Fill Affected Qty: 2.5 CuYd

Action Taken: The Project Engineer notified the Contractor and Supplier of the failing gradation upon review of the failing test.

Determination: Material will remain in place with a \$200.00 Lump Sum Deduction.

Failing Results:

Test Number	Test Description	Sample Id	Test Results	Specifications
01	Sieves ((11) 3/8" sieve)	2454439	100	40 - 90

**SD DOT Aggregate Testing
Performance Checklist**

SD 202 Coarse Aggregate Sieve Analysis

Name: _____ SSN/Dr. Lic. No./Emp. No.: _____

Obtain sample oven dried to a constant weight at Temperature of 230° F, $\pm$ 9 F. explain?

Weigh sample and record the original weight to nearest 0.1 gram. perform

Assemble a series of sieve that will furnish the information required by specification and to regulate overloading. explain?

Agitate sieves by hand (or mechanical) for sufficient period of time – end point shall be not more than 0.5% by weight of the material on a sieve passing that sieve in 1 minute. explain?

On each sieve, remove any dirt adhering to coarse material by rubbing with soft pine or rubber covered block, or agitate in a cement/coffee can. After dirt is removed, sample shall be sieved following above requirements. explain?

Weigh the material retained on each sieve & pan, total and check that total is within 0.3% of the original weight. perform

Given DOT-3 with sample weights, calculate % passing and retained for each sieve – record to the nearest 0.1%. perform

Use the coarse material retained to conduct the balance of required testing for that material type (% Crushed Particles, Flat & Elongated or Flakiness Index, + #4 % Light Weights, Particles, Dust Check). explain?

Equipment & Materials Needed

Material from splitting (Test Out – need + #4 Material already placed in nest of sieves listed and shook)
12" Diameter Nest of Sieves (3/4" through #4 & pan), Shaker
Electronic Scale, readable to the 0.1 gram.
Brush, cement can (cleaning off the rock)
Cut stake (tapping the sieve's ring and knocking out rocks)

Proctor Signature: _____ Date: _____ Pass ☐ Fail ☐

Training and Evaluation Record

Employee Number: _____ PCN: _____

[illegible]