

NORTH DAKOTA
DEPARTMENT OF TRANSPORTATION
REQUEST FOR PROPOSAL
STATE AID PROJECT NO. H-5-094(194)070 (PCN-25074)

0.000 Miles

BARRIER REPAIR, CONCRETE SPALL REPAIR, AND GUARDRAIL
I-94, 1 MILE WEST OF GLADSTONE (GREEN RIVER BRIDGE) - EB

STARK COUNTY

BID OPENING: The bidder's proposal will be accepted via the Bid Express on-line bidding exchange at www.bidx.com until **09:30AM Central Time on June 26, 2026.**

Prior to submitting a Proposal, the Bidder shall complete all applicable sections and properly execute the Proposal Form in accordance with the specifications.

Proposal Form of:

(Firm Name)

(Address, City, State, Zipcode)

(For official use only)

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The company, firm, corporation, or individual hereby acknowledges that it has designated a responsible person or persons as having the authority to obligate the company, firm, or individual, through electronic or paper submittal, to the terms and conditions described herein and in the contract documents. The designated responsible person submitting this proposal shall be hereafter known as the bidder. By submitting this proposal, the bidder fully accepts and agrees to all the provisions of the proposal. The bidder also certifies that the information given in this proposal is true and the certifications made in this proposal are correct.

The bidder acknowledges that they have thoroughly examined the plans, proposal form, specifications, supplemental specifications, special provisions and agrees that they constitute essential parts of this proposal.

The bidder acknowledges that all line items which contain a quantity shall have a unit price bid. Any line item which is bid lump sum shall contain a lump sum bid price.

The bidder acknowledges that they understand that the quantities of work required by the plans and specifications are approximate only and are subject to increases and decreases; the bidder understands that all quantities of work actually required must be performed and that payment therefore shall be at the prices stipulated herein; that the bidder proposes to timely furnish the specified materials in the quantities required and to furnish the machinery, equipment, labor and expertise necessary to competently complete the proposed work in the time specified.

NON-COLLUSION AND DEBARMENT CERTIFICATION

The bidder certifies that neither he/she, nor any official, agent or employee of the bidder has entered into any agreement, participated in any collusion, or otherwise taken any action which is in restraint of free competitive bidding in connection with this bid.

By submitting this proposal, the bidder certifies to the best of his/her knowledge and belief that he/she and his/her principles:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal Department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or perform a public (Federal, State or Local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property

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- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph b. of the certification; and
 - d. Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or Local) terminated for cause or default

Where the prospective bidder is unable to certify to any of the statements in this certification, the bidder shall submit an explanation in the blanks provided herein. The explanation will not necessarily result in denial of participation in a contract:

Explanation: _____

If the prequalified bidder's status changes, he/she shall immediately submit a new fully executed non-collusion affidavit and debarment certification with an explanation of the change to the Contract Office prior to submitting the bid.

Failure to furnish a certification or an explanation will be grounds for rejection of a bid.

BID LIMITATION (Optional)

The bidder who desires to bid on more than one project on which bids are to be opened on the same date, and who also desires to avoid receiving an award of more projects than the bidder is equipped to handle, may bid on multiple projects and limit the total amount of work awarded to the bidder on selected projects by completing the "Bid Limitation".

The Bid Limitation must be filled in on each proposal form for which the Bidder desires protection. Each such proposal must be covered by a proposal guaranty.

The bid limitation can be made by declaring the total dollar value of work OR total number of projects a bidder is willing to perform.

The Bidder desires to disqualify all of his/her bids on this bid opening that exceed a total dollar value of \$ _____

OR

that exceed a total number of _____ projects.

The Bidder hereby authorizes the Department to determine which bids shall be disqualified.

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PERMISSIBLE DISCOUNT (optional)

Only when invited to do so in the Request for Proposal by Special Provision, Bidders are permitted to offer a discount on a specific project (discount project) if they are awarded the contract on one or more additional projects bid at the same bid opening time and date. The bidder must present the proposal so that it can be considered with or without the discount. The bid or discount offered on the "discount project" will not affect the determination of the low bid of any other project.

When discounts are offered, they must be presented as a reduction in the unit price for one or more items of work in the specified proposal (discount project).

Space for Offering Discounts:

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

TOTAL DISCOUNT _____

It is understood that the discount will only apply if awarded under the conditions as listed above and signed by the bidder.

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PROPOSAL GUARANTY

A proposal guaranty is required. The proposal guaranty must comply with Section 102.09, "Proposal Guarantee" of the Standard Specifications.

TYPE OF PROPOSAL GUARANTY APPLIED TO THIS PROJECT (Check one):

Annual Bid Bond*

Single Project Bid Bond

Certified or Cashier's Check

*Annual Bid Bond is required when submitting proposals electronically

BID ITEMS

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Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	602	1208	CONCRETE BRIDGE BARRIER	LF	13.600				
003	702	0100	MOBILIZATION	L SUM	1.				
004	704	0100	FLAGGING	MHR	50.				
005	704	1000	TRAFFIC CONTROL SIGNS	UNIT	776.				
006	704	1048	PORTABLE RUMBLE STRIPS	EA	6.				
007	704	1060	DELINEATOR DRUMS	EA	39.				
008	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	1.				
009	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	217.				
010	704	3511	STATE FURNISHED MEDIAN BARRIER	LF	610.				
011	762	0422	SHORT TERM 6IN LINE-TYPE R	LF	2,610.				
012	764	0131	W-BEAM GUARDRAIL	LF	152.				
013	764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	152.				
014	764	8080	MODIFY BARREL ATTENUATION DEVICE	EA	1.				
015	930	9534	MODIFY DECK DRAIN	EA	1.				
016	930	9612	SPALL REPAIR	SF	24.				

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Type of Work: BARRIER REPAIR, CONCRETE SPALL REPAIR, AND GUARDRAIL

County: STARK

Length: 0.0000 Miles

TIME FOR COMPLETION:

The undersigned Bidder agrees, if awarded the contract, to prosecute the work with sufficient forces and equipment to complete the contract work within the allowable time specified as follows:

WORKING DAY CONTRACT: NA working days are provided. The Department will begin charging working days beginning NA or the date work begins on the project site, whichever is earlier.

CALENDAR DAY CONTRACT: NA calendar days are provided. The completion date will be determined by adding NA calendar days to NA or the date work begins on the project site, whichever is earlier.

COMPLETION DATE CONTRACT The project completion date is 08/29/2026. The Department provides a minimum of NA working days. The Department will begin charging working days beginning NA or the date work begins on the project site, whichever is earlier.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

Job 25074, H-5-094(194)070

Barrier Repair, Concrete Spall Repair, and Guardrail

INDEX OF PROVISIONS

Road Restriction Permits

Price Schedule for Miscellaneous Items dated January 2, 2026 (PS-1)

Appendix A of the Title VI Assurances dated September 7, 2021

Appendix E of the Title VI Assurances dated September 7, 2021

On-The-Job Training Program 2026

SSP 2 Federal Migratory Bird Treaty Act

SSP 5 Limitations of Operations

SSP 8 Federal Prohibition on Certain Technological Hardware

SSP 10 E-Ticketing

SSP 11 Domestic Material Procurement Preferences

SSP 12 Public Liability and Property Damage Insurance

SSP 13 Federal Drone Restriction

SP 451(25) Concrete Spall Repair

NOTICE

TO: All prospective bidders on all North Dakota Department of Transportation Highway Construction Projects.

Contractors moving construction equipment to NDDOT highway construction projects are subject to the Road Restriction Policy with the following modifications:

- A. The contractor may purchase up to 10 single trip permits for each NDDOT highway construction project at a cost ranging from \$20 to \$70 each. These permits must be purchased from the Motor Carrier Division of the Highway Patrol at the central office of the NDDOT in Bismarck, North Dakota.
- B. The \$1 per mile fee will not be charged for Gross Vehicle Weights (GVW) exceeding 105,500 pounds, 105,500 pounds, and 105,000 pounds for highways Restricted by Legal Weights, 8 Ton, and 7 Ton highways respectively.
- C. The \$5 per ton per mile fee will be charged only for loads exceeding a GVW of 130,000 pounds, 120,000 pounds, 110,000 pounds and 80,000 pounds for highways Restricted by Legal Weights, 8 Ton, 7 Ton, and 6 Ton highways respectively.
- D. The maximum weights per axle for each of the class restrictions still apply. If it is shown that more axles cannot be added, movement may be authorized; however, a \$1 per ton per mile fee will be charged for all weight in excess of the restricted axle limits.
- E. These construction equipment single trip permits apply to State and US Highways only.
- F. The District Engineers and Highway Patrol will select the route of travel.
- G. Contractors moving equipment to other than NDDOT highway construction projects are subject to all fees as shown in the Road Restriction Permit Policy.
- H. Contractors must call the Highway Patrol prior to movement of all overweight loads on all State and US Highways.

ROAD RESTRICTION PERMITS

Permits shall be issued for the movement of non-divisible vehicles and loads on state highways which exceed the weight limits during spring road restrictions. The issuance of permits may be stopped or posted weights changed at any time based on the varying conditions of the roadways. Permits can be obtained from the Highway Patrol.

RESTRICTION CLASSIFICATIONS WITH ALLOWABLE AXLE WEIGHTS AND GROSS VEHICLE WEIGHTS	PERMIT AND TON/MILE FEES
<p>Highways Restricted by Legal Weight</p> <p>Single Axle -- 20,000 lbs. Tandem Axle -- 34,000 lbs. Triple Axle -- 48,000 lbs. 4 Axles or more -- 15,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 105,500 lbs.</p> <p>Note: The above weights apply to state highways restricted by legal weights, other than interstate highways, in areas where road restrictions are in force. When the gross weight of an axle grouping exceeds 48,000 pounds, the \$1 per ton per mile shall apply to all weight in excess of 15,000 pounds per axle.</p>	<p>Permit Fee: \$20-\$70 per trip</p> <p>Ton Mile Fee:</p> <p>105,501 lbs. to 130,000 lbs. GVW -- \$1 per mile</p> <p>Over 130,000 lbs. GVW -- \$1 per mile plus \$5 per ton per mile for that weight exceeding 130,000 lbs. GVW</p> <p>Exceeding axle limits -- \$1 per ton per mile</p>
<p>8-Ton:</p> <p>Single Axle -- 16,000 lbs. Tandem Axle -- 32,000 lbs. 3 Axles or more -- 14,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 105,500 lbs.</p>	<p>Permit Fee: \$20-\$70 per trip</p> <p>Ton Mile Fee:</p> <p>105,501 lbs. to 120,000 lbs. GVW -- \$1 per mile</p> <p>Over 120,000 lbs. GVW -- \$1 per mile plus \$5 per ton per mile for that weight exceeding 120,000 lbs. GVW</p> <p>Exceeding restricted axle limits -- \$1 per ton per mile</p>
<p>7-Ton:</p> <p>Single Axle -- 14,000 lbs. Tandem Axle -- 28,000 lbs. 3 Axles or more -- 12,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 105,500 lbs.</p>	<p>Permit Fee: \$20-\$70 per trip</p> <p>Ton Mile Fee:</p> <p>105,500 lbs. to 110,000 lbs. GVW -- \$1 per mile</p> <p>Over 110,000 lbs. GVW -- \$1 per mile plus \$5 per ton per mile for that weight exceeding 110,000 lbs. GVW</p> <p>Exceeding restricted axle limits -- \$1 per ton per mile</p>
<p>6-Ton:</p> <p>Single Axle -- 12,000 lbs. Tandem Axle -- 24,000 lbs. 3 Axles or more -- 10,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 80,000 lbs.</p>	<p>Permit Fee: \$20-\$70 per trip</p> <p>Ton Mile Fee:</p> <p>\$5 per ton per mile for all weight exceeding 80,000 lbs. GVW</p> <p>Exceeding restricted axle limits -- \$1 per ton per mile</p>
<p>5-Ton:</p> <p>Single Axle -- 10,000 lbs. Tandem Axle -- 20,000 lbs. 3 Axles or more -- 10,000 lbs. per axle</p> <p>Gross Vehicle Weight -- 80,000 lbs.</p>	<p>No overweight movement allowed</p>

SINGLE UNIT FIXED LOAD VEHICLES SUCH AS TRUCK CRANES AND WORKOVER RIGS

- A. Permit Fee and Ton Mile Fee for Self-Propelled Fixed Load Vehicles .
1. Permit Fee: \$25 per trip
 2. \$1 per ton per mile for all weight in excess of restricted axle limits or in excess of legal limits on state highways in areas where road restrictions are in force. When the gross weight of an axle grouping exceeds 48,000 pounds, the \$1 per ton per mile shall apply to all weight in excess of 15,000 pounds per axle (see weight classification chart in section C.)
 3. **\$5 per ton per mile** for all movements exceeding the following gross vehicle weight limits:
 - a. 105,500 lbs. GVW on unrestricted state highways, other than interstate highways, in areas where road restrictions are in force.
 - b. 105,500 lbs. GVW on 8-ton highways.
 - c. 105,500 lbs. GVW on 7-ton highways.
 - d. 80,000 lbs. GVW on 6-ton highways.
 - e. No overweight movement allowed on 5-ton highways
- B. Permit Fees for Work-Over Rigs and Special Mobile Equipment Exceeding 650 but not 670 Pounds Per Inch Width of Tire.
1. Permit Fee:
 - a. \$50 per trip on work-over rigs up to 650 pounds per inch width.
 - b. \$75 per trip on work-over rigs that exceed 650 but not 670 pounds per inch width of tire.
 2. The work-over rig shall be stripped to the most minimum weights.
 3. A minimal number of state highway miles shall be used.
 4. District engineer approval shall be obtained prior to movement when vehicle exceeds restricted axle weights by more than 5,000 pounds.
 5. A validation number ending in TM must be obtained from the Highway Patrol prior to using a self-issue single trip movement approval form.
 6. The ton mile shall be waived .

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
PRICE SCHEDULE FOR MISCELLANEOUS ITEMS (PS-1)**

The Contractor agrees to accept the following unit prices for each listed item of work and or material when no project contract unit price exists for that item. Materials and construction methods used in performing maintenance and restoration work for 107. 08 Haul Roads shall meet the requirements of the relevant specifications.

Each price listed will be full compensation for the cost of labor, material, and equipment necessary to provide the item of work and/or material, complete in place, including (but not limited to) royalty, disposal of unsuitable material, equipment rental, sales tax, use tax, overhead, profit, and incidentals.

Each listed item is referenced to the Standard Specifications by Section number and Section name.

Spec	Code	Specification Section No.	Section Name	Item	Price
100	9950	704.04 C.5	Temporary Traffic Control	Flagging	\$61.00 per MHR
100	9951	216.04	Water	Water	\$35.00 per M Gal
100	9952	430.04 G & I.3	HMA – Bituminous Materials	Patching – Machine Placed	\$250.00 per Ton
100	9952	430.04 G & I.3	HMA – Bituminous Materials	Patching – Hand Placed	\$270.00 Per Ton
100	9954	302.04 B	Aggregate Base and Surface Course	Aggregate Base CL 13	\$40.00 per Ton ¹
100	9955	203.01 C	Rock Excavation	Rock Excavation	\$30.00 per CY
100	9956	203.01 D	Shale Excavation	Shale Excavation	\$9.25 per CY
100	9957	203.01 E	Muck Excavation	Muck Excavation	\$10.50 per CY
100	9958	203.01 G & 203.05 G.3	Excavation and Embankment	Overhaul	\$0.08 per CY-Sta
100	9960	420.04 E	Bituminous Seal Coat	Blotter Sand	\$40.00 per Ton ¹
100	9962	260.06	Silt Fence	Cleaning Silt Fence	\$5.00 per LF
100	9963	261.06	Fiber Rolls	Cleaning of Fiber Rolls	\$5.00 per LF
100	9964	260.06	Silt Fence	Removal of Silt Fence ²	\$5.00 per LF
100	9965	261.06	Fiber Rolls	Removal of Fiber Rolls ²	\$5.00 per LF

¹ Price Includes haul up to 10 miles. Payment for haul exceeding 10 miles will be according to Section 109.03 E, "Force Account." The haul distance for aggregate base will be based on the average haul. The haul distance for blotter sand will be from the point where the haul begins to the point where it enters the project.

² This is only for pre-existing items that were not installed under the Contract.

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX A OF THE TITLE VI ASSURANCES**

During the performance of this contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the Contractor) agrees as follows:

1. Compliance with Regulations: The Contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, the Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. Non-discrimination: The Contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the Contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the Contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.
4. Information and Reports: The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the Recipient or the Federal Highway Administration as appropriate, and will set forth what efforts it has made to obtain the information.
5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the Contractor under the contract until the Contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. Incorporation of Provisions: The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
APPENDIX E OF THE TITLE VI ASSURANCES**

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the Contractor) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 *et seq.*).

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION (NDDOT)

ON-THE-JOB TRAINING SPECIAL PROVISION

The bidder's signature on the proposal sheet indicates the bidder agrees to take part in the On-the-Job Training (OJT) Program and to follow the OJT Program Manual and Special Provision. Contractors that fail to do so will be subject to suspension of progress payments or sanctions up to and including revocation of bidding privileges.

OJT is training conducted in a highway construction work environment designed to enable minority, female, and economically disadvantaged individuals to learn a bona fide skill and qualify for a specific occupation through demonstration and practice.

After a training program and trainee candidate have been approved, the contractor begins training its regular employee according to the approved program. The goal of this training is to retain the trainee as a permanent employee within the ND Highway Construction industry. OJT involves individuals at the entry level. Training is designed to help participants reach their fullest potential and become self-sufficient in the job.

I. POLICY STATEMENT

The purpose of the OJT Program is to provide training in the highway construction industry for minority, female, and economically disadvantaged individuals, from this time known as the targeted group. Pursuant to 23 Code of Federal Regulations Part 230, Subpart A, Appendix B - Training Special Provisions, this program provides for on-the-job training aimed at developing journey-level workers in skilled trades.

The Contractor shall take all necessary and reasonable steps to ensure that minorities and women have the opportunity to compete for and participate as trainees or apprentices and to develop as journey-level workers employed in the skilled trades.

Contractors should select a training program(s) based on their company's employment/staffing needs as stated in the OJT Program Manual.

II. INTRODUCTION/PROGRAM BACKGROUND

The OJT Program was originally prepared through the cooperative efforts of the Associated General Contractors of North Dakota (AGC); the Federal Highway Administration (FHWA); the North Dakota Department of Transportation (Department); and, other program stakeholders.

Successful operation of the OJT Program requires contractors to follow uniform and basic training procedures, keep records of trainee progress, and report each trainee's completion or termination.

III. ASSIGNED OJT POSITIONS

A. Trainee positions are assigned based only on federal highway dollars awarded to contractors from April to March. Trainee assignments are not project specific; that means the contractor may train program participants on any project where training opportunities exist within the state of North Dakota.

The number of trainee positions assigned will be determined by formula based on calculations involving particular project specification numbers on applicable projects.

Once the formula calculations are determined the OJT Program Administrator completes a further analysis based on number of trainees per contractor, contractor work type, location, past assignments, etc.

The types of projects NOT applicable in the calculation to assign trainee positions are:

- County-only or state-only funded projects
 - Emergency relief, concrete pavement repair (CPR), electrical, rest area, signing, striping projects
 - Projects subject to Tribal Employment Rights Ordinances (TERO)
 - Projects not let as part of NDDOT bid openings
- B. Contractors will receive the number of positions assigned and links to resources necessary for completion of program requirements via email.
- C. The number of trainee positions assigned to each contractor will increase proportionately, as shown below, for any applicable federally funded projects awarded to them.

For all federal highway dollars awarded from April to March the following year:

8,000,000 to 16,000,000	1	trainee
16,000,001 to 24,000,000	2	trainees
24,000,001 and above	3	trainees

A maximum of three (3) trainee positions in a federal fiscal year will be assigned to any prime contractor regardless of dollar amount. Carryover positions from a prior construction season are not included in the three trainee maximum, e.g., a contractor with one carryover and three assigned positions may have a total four trainees.

Contractors assigned OJT positions are required to attend one-on-one meetings with the OJT Program Administrator and the OJT Supportive Services Consultant in early spring. The meeting is conducted virtually via Microsoft TEAMS. At this meeting any changes to the program and other important information will be shared and the contractor will have an opportunity to ask any questions they may have.

Failure to follow the OJT Special Provision and OJT Program Manual may result in suspension of progress payments or sanctions up to and including revocation of bidding privileges.

IV. FUNDING

The Department will establish an OJT fund annually from which contractors may bill the Department directly for eligible trainee hours. The funds for payment of trainee hours on federal-aid projects will be made available based on 23 USC 504(e) to a maximum of \$100,000. The funds for payment of trainee hours on state-aid only projects will be allocated to a maximum of \$10,000.

V. ONLINE RESOURCES

SFN 60226 Request for On-the-Job Training Program and Trainee Approval:
<http://www.dot.nd.gov/forms/sfn60226.pdf>

SFN 51023 Voucher for On-the-Job Training Program Hourly Reimbursement:
<http://www.dot.nd.gov/forms/sfn51023.pdf>

Davis-Bacon and Related Acts (DBRA) Handbook:
<https://www.dot.nd.gov/about-nddot/civil-rights/labor-compliance-program-davis-bacon>

VI. APPROVALS REQUIRED

- A. Requests for Approval of Training Programs and Trainee Candidates must be submitted to Civil Rights Division (CRD). Contractors must request and receive program and trainee candidate approval in order to pay trainees less than the established Davis-Bacon wage for the job classification concerned. **No training program hours will count toward the fulfillment of an assigned trainee position or be eligible for reimbursement without prior approval.** No retroactive approval will be granted.
1. Submit SFN 60226 *Request for On-the-Job Training Program and Trainee Approval* with each trainee's employment application. <http://www.dot.nd.gov/forms/sfn60226.pdf> and the pre-approved training curriculum for each trainee position assigned by April 1 or within fifteen (15) calendar days of notification.
 2. Submit *SFN 7857 Application for Eligibility* directly to Job Service North Dakota (JSND) for approval of an economically disadvantaged individual for participation in the OJT Program.
- B. Pre-approved curriculum: NDDOT's OJT Program Manual contains pre-approved training curriculum for a number of skilled trade positions. Contractors should select a training program(s) based on their company's employment/staffing needs.
- C. Customized curriculum: To request a training curriculum not included in the pre-approved curriculum, submit a written request for approval by NDDOT Civil Rights Division.

The request must include:

- A training curriculum, including the classification requested, minimum number of hours required, and type of training the individual will receive to achieve journey-level worker status.
- A minimum wage scale.

If approved, each new classification must comply with the provisions specified in the OJT Program Manual. No hours worked prior to approval will be credited toward completion of the customized training program. Training programs for classifications not covered by the Davis-Bacon and Related Acts (DBRA) will be considered on a limited basis.

The contractor may commence its "customized" training as of the date of the written approval.

- D. Union apprenticeship and on-the-job training programs registered with the Bureau of Apprenticeship and Training (BAT), U.S. Department of Labor, may be used for trainee positions assigned under the OJT Program, provided the trainees or apprentices are minority, female, or economically disadvantaged. Nonminority males

not certified as economically disadvantaged may only be used when the contractor has requested and received approval, from the Department, for additional trainee positions. The apprenticeship indenture agreements serve as the trainee's job application and must be provided prior to any hours being credited toward OJT Program completion.

E. Power Equipment Operators:

The contractor may train an individual on a combination of equipment if each piece of equipment falls within the same groups of power equipment operators identified in the training curricula (groups 1-3 and groups 4-6). These power equipment operator groups are referenced to the federal DBRA wage rates contained in the contract proposal. As an example, a "utility operator" may receive training on a broom, a front-end loader less than 1½ cubic yards, or other piece of equipment that is used around a paver if each piece falls within either groups 1-3 or groups 4-6. When multiple wage rates apply, the trainee's wage will be based on the equipment being operated at the time or on the highest of the applicable wage rates.

Use of the classification "pickup machine operator (asphalt dump-person)" as a group 4 power equipment operator is considered standard industry practice. The classification is defined as: "Operates the controls on the pickup machine that runs in front of the paver, trips the levers on the dump trucks, and balances the loads for the paver. The pickup machine operates on similar principles as a shouldering machine."

VII. NDDOT'S RESPONSIBILITIES

- A. The NDDOT OJT supportive services (OJTSS) consultant will monitor excerpts from the weekly certified payrolls or LCP Tracker for NDDOT projects submitted with the monthly vouchers for reimbursement. On contracts where certified payrolls are not required and not available for supporting documentation, contractors may enter trainee wages, hours in training, and the project control number(s) (PCN) in a spreadsheet to support their reimbursement vouchers. In this case, contractors should work with OJTSS to assure that all information required for payment is provided.
- B. The OJTSS consultant will assess when the trainees have completed the specified number of hours and their wages are increased accordingly. The OJTSS consultant will also assure that applicable fringe benefits are paid either directly to the trainees or for the trainee into approved plans, funds, or programs.
- C. The OJTSS consultant is charged with visiting trainees and monitoring their progress under the OJT Program. To facilitate the on-site visits, the OJTSS consultant will contact contractors for the location of the trainees weekly.

VIII. CONTRACTOR'S RESPONSIBILITIES

- A. Consistently demonstrate efforts to recruit, hire, and train candidates for the OJT Program.
- B. Assign each trainee to a particular person—either a supervisor or an employee proficient in the skills to be trained—who shall see that the trainee is given timely, instructional experience. This person must be familiar with the OJT Program, keep proper records, and ensure completion of the required training hours in accordance with the training curriculum.

- C. Appoint a company employee who will be available and responsive to weekly contacts by the OJTSS consultant. OJTSS monitors the status of assigned trainee positions (e.g., program and trainee approvals, trainees' progress, etc.). The OJTSS consultant will contact the individual listed on the company's approved SFN 60226 Request for OJT Trainee Approval. This person must reply to communications from the Department and the OJTSS consultant in a timely manner.
- D. Must have trainees available to the OJTSS consultant for at least two on-site visits during the construction season. The OJTSS consultant will be provided a private location to meet with the trainee and the trainee will be allowed as much time away from the project as necessary to complete the on-site visit.
- E. Make the trainer and project superintendent available to the OJTSS consultant for at least two on-site visits each construction season.
- F. Make trainees aware they are formally enrolled in the OJT program.
- G. Identify trainees on the payroll excerpts, for example: "grp. 4 roller operator trainee." This includes trainees in job classifications not covered by DBRA. Handwritten notes are appropriate for identification.
- H. Notify the Department when a trainee completes the number of hours required to graduate from the OJT Program. The Department will issue the trainee a confirmation letter as proof of the graduate's successful training program completion.
- I. Notify the Department to "propose graduation" or discontinue the training period of a trainee who has completed 90% or more of their hours and thereafter advance the trainee to journey-worker status.
- J. Elect to upgrade proficient trainees from one power equipment operator group or truck driver group to another, with the approval of CRD. Fewer hours are required to complete the upgraded position.

Minimum number of hours required:

Power Equipment Operator Groups 4-6 to Groups 1-3 = 400 hrs.

Class C Truck Driver to Class B = 200 hrs.

Class B Truck Driver to Class A = 200 hrs.

Depending on the variety of experience the trainee has gained under the previous curriculum, the difference in the hours may be deducted from the actual operation of the piece of equipment or truck. The contractor will need to review the trainee's past performance to make this determination.

- K. May hire commercial driver's license (CDL) holders as truck driver trainees. Those having over-the-road driving experience, with little or no highway construction experience, may be considered to have completed the Class C truck driver training curriculum and, therefore, are eligible to be upgraded to a Class B truck driver trainee, with the approval of CRD.
- L. May transfer trainees from one project to another to complete the OJT Program. If transfers are made, CRD must be notified and provided with the name of the trainer.
- M. May train trainees on municipal, private, or other non-highway work. These training hours must be paid at the OJT minimum wage scale to count toward their OJT Program completion; however, no program reimbursement will be made for those hours. Payrolls of employees trained on non-NDDOT projects must be provided to prove appropriate wages are paid.

- N. Must train trainees on projects within North Dakota. Cannot train trainees on projects located outside of the state lines. The OJTSS consultant must be able to visit the trainee twice during their program. It is unreasonable for the OJTSS consultant to make these visits outside of the state.
- O. May delegate or reassign trainee positions to subcontractors, with the acceptance of the subcontractors and the approval of CRD. The prime contractor must verify that the trainee will be able to accumulate enough hours to complete his or her training program. If approved, the subcontractor must obtain training program and trainee approval from CRD before the trainee begins work under the OJT program. Program reimbursement will be made directly to the prime contractor. The trainee position will remain the responsibility of the prime contractor.
- P. May use trainees on projects subject to TERO requirements as part of the core crew. The training hours will count toward overall OJT Program completion; however, no program reimbursement will be made for those hours unless it is a NDDOT let project.
- Q. Must not use one trainee to simultaneously fill multiple trainee positions
- R. May use a trainee on a piece of equipment in groups 1-3 or groups 4-6 for one assigned trainee position, then once that trainee has completed the program, the trainee may be trained on a different piece of equipment in groups 1-3 or groups 4-6 to fulfill a second assigned trainee position. When a trainee is used for a second time within a group, the contractor must pay that trainee at the higher wage rate as described in paragraph B under Wage Rates (page 8).

IX. CLASSROOM TRAINING

- A. Classroom training may be used to train employees. Each classroom training curriculum must be approved by CRD if the contractor wishes to count the classroom hours as training hours and be reimbursed.

Submit a proposed classroom training curriculum to CRD for approval. Define the type of training the individual will receive, classroom training curriculum, and the minimum number of hours required. The Department will determine the number of hours of credit each trainee will receive toward their training. No retroactive approval will be granted.

Contractors will be reimbursed for classroom training hours after the trainee has completed 40 hours of work on highway construction projects.

Reimbursement for classroom training will be limited to 40 hours per trainee per construction season.

- B. The minimum wage scale to be used for classroom training will be that of the first federal-aid highway construction project on which the trainee will be employed. If the trainee is already employed on a federal-aid highway construction project, the trainee will be paid in accordance with the minimum wage scale applicable to that project. However, if the first project on which the trainee will be employed is a state funded only contract, the minimum wage scale to be used for the classroom training will be that of the appropriate DBRA wage in effect at the time of award of the state funded contract.

X. WAGE RATES

- A. When the contractor is submitting the trainee's hours toward training program, wages

paid shall in no case be less than that of those stated in the approved curriculum. A trainee working on a non-federal aid project, must be paid the DBRA wage rate in effect at the time of award for the type of work the trainee is performing as a trainee. Current and prior labor rates can be found on the NDDOT website at: <https://www.dot.nd.gov/about-nddot/civil-rights/labor-compliance-program-davis-bacon>

- B. The minimum wage rates shall not be less than 80% of the journey-worker rate for the first two quarters of training, 85% of the journey-worker rate for the third quarter, and 90% of the journey-worker rate for the fourth quarter.
- Under the power equipment operator training curricula only, once a trainee has completed a training curriculum in either groups 1-3 or groups 4-6, the contractor may enroll the trainee in another training curriculum on a different piece of equipment in either groups 1-3 or groups 4-6.
 - The minimum wage rate under the trainee's second program shall not be less than 85% of the journey-worker rate for the first two quarters of training, 90% of the journey-worker rate for the third quarter, and 95% of the journey-worker rate for the fourth quarter.
 - For the purpose of the OJT Program, a quarter is 25% of the hours the trainee works toward completion of their approved program. The first two quarters of a 550-hour training curriculum would end after 275 hours, the third quarter after 138 hours, and the fourth after 137 hours.
- C. At any time hours are being attributed toward the completion of the approved training program, trainees shall be paid full fringe benefit amounts, where applicable, in accordance to DBRA requirements. DBRA requirements can be found on the NDDOT website at <https://www.dot.nd.gov/about-nddot/civil-rights/labor-compliance-program-davis-bacon>
- D. At the completion of the OJT Program, the trainee shall receive the wages of a skilled journey-worker.

XI. RECRUITMENT AND SELECTION

A. Prerequisites:

Trainees must possess basic physical fitness for the work to be performed, dependability, willingness to learn, ability to follow instructions, and an aptitude to maintain a safe work environment. Trainees must be a North Dakota resident during their training program.

B. Licenses:

Truck driver trainees must possess appropriate driver permits or licenses for the operation of Class A, B, and C trucks. When an instructional permit is used in lieu of a license, the trainee must be accompanied by an operator who:

1. Holds a license corresponding to the vehicle being operated;
2. Has had at least one year of driving experience; and
3. Is occupying the seat next to the driver.

C. Recruitment:

1. Place notices and posters setting forth the contractor's Equal Employment Opportunity (EEO) Policy and the availability of the OJT Program in areas readily accessible to employees, applicants for employment, and potential employees.
 2. Employ members of the targeted group (minority, female, or economically disadvantaged individuals) for all trainee positions assigned in accordance with the OJT Program. Additional positions requested by the contractor may be filled by individuals outside of the targeted groups.
 3. Conduct systematic and direct recruitment through public and private employee referral sources.
 4. Screen present employees for upgrading to higher skilled crafts. A present employee may qualify as a trainee; however, no work hours will be reimbursed or counted toward program completion prior to training program and trainee approval by CRD.
- D. Selection:
1. Hire and enroll OJT trainee candidates who qualify as an individual in the targeted group.
 2. Select a training program(s) based on their company's employment/staffing needs.
 3. Individuals in the targeted group having experience in the selected curriculum may be eligible to participate in the OJT Program providing they:
 - are not or have not been journey-workers in the selected curriculum, and/or
 - have not been previously trained in the selected curriculum.

XII. BASIS OF PAYMENT

- A. Contractors will be paid \$4.00 for each hour of training in accordance with the OJT Program Manual.
- B. Reimbursement will be made directly to the contractor. Complete SFN 51023 Voucher for On-the-Job Training Program Hourly Reimbursement for each trainee. LCPtracker must be utilized on NDDOT projects for reporting certified payrolls. The OJTSS consultant will be verifying hours submitted on NDDOT projects through this online reporting system. For non-NDDOT projects the firm must attach excerpts from the weekly certified payrolls showing the trainee's hours, rate of pay, and how applicable fringe benefits were paid. Vouchers without excerpts from payrolls will not be paid until the excerpts are provided. If the excerpts from the payrolls are not provided within one week, the voucher will not be paid, and the trainee's hours will not be credited toward completion.
- C. On contracts where certified payrolls are not required and not available for supporting documentation, contractors may enter trainee wages, hours in training, and the project control number(s) (PCN) in a spreadsheet to support their reimbursement vouchers. In this case, contractors should work with OJTSS to assure that all information required for payment is provided.

- D. Submit completed vouchers to CRD for approval and processing by the fifteenth (15th) calendar day of every following month the trainee is employed under the OJT Program.

Regardless, all vouchers for trainee hours worked on state funded only projects from July 1 to June 30 must be received by CRD no later than July 15 in order to be reimbursed. All vouchers for trainee hours worked on federally funded projects from October 1 to September 30 must be received by CRD no later than October 15 in order to be reimbursed. This is due to state and federal end-of-the-year budget fiduciary requirements.

XIII. FAILURE TO PROVIDE THE TRAINING OR HIRE THE TRAINEE AS A JOURNEY-WORKER

- A. The contractor is required to consistently demonstrate efforts to recruit, hire, and train candidates for the OJT Program.
- B. If the contractor does not show in a timely manner good faith efforts to recruit, hire, and train candidates in the targeted group, the Department may withhold progress payments
- C. If payments have been made, the Department will deduct the amount paid from the contractor's progress payment.
- D. No payment shall be made to a contractor for failure to provide the required training or failure to hire the trainee as a journey-worker when such failure is caused by the contractor and evidences a lack of good faith on the part of the contractor in meeting the requirements of this OJT Program Special Provision.
- E. Hiring a trainee to begin training as soon as feasible after start of work is evidence of a contractor's good faith efforts to comply with the OJT Program requirements. Additional evidence supporting a contractor's good faith efforts would be to keep the trainee employed as long as training opportunities exist in the approved work classification or until the trainee has completed his or her training program.
- F. It is not required that all trainees be employed for the entire length of the construction season. A contractor will have fulfilled its responsibilities under this OJT Special Provision if it has provided acceptable training to the number of trainees assigned.

XIV. UNFILLED OR INCOMPLETE TRAINEE POSITIONS

- A. By October 1, provide written explanation of the firm's good faith efforts for unfilled or incomplete trainee assignments to CRD. CRD will decide, on a case-by-case basis, whether to carry the assigned positions over to the next construction season.
- B. Positions carried over from the previous construction season must be among the first positions filled at season startup. To notify CRD of the trainee's rehiring, submit *SFN 60226 Request for On-the-Job Trainee Approval*, marking 'Check if Carryover Trainee' in the Approved Training Program section of the form. There is no need for the training position or a returning trainee to be re-approved.
- C. Sanctions, up to and including revocation of bidding privileges, may be imposed on the contractor for failure to provide sufficient explanation and documentation for reasons assigned trainee positions when unfilled or incomplete.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FEDERAL MIGRATORY BIRD TREATY ACT

GENERAL

Work may impact migratory birds or active migratory bird nests. A nest is considered active when it contains eggs or chicks.

Nests are active primarily during the primary breeding season for migratory birds in North Dakota from February 1 to July 15.

All reasonable, prudent, and effective measures should be identified and implemented to avoid take. The definition of take in 50 CFR 10.12 is: to pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to pursue, hunt, shoot, wound, kill, trap, capture, or collect.

PREVENTATIVE MEASURES

General

If no active nests are present at bridges, reinforced concrete box culverts, or structural plate pipes; prevent migratory birds from building new nests and from using nests built in previous years.

Preventative measures include securing tarps, fabric, netting, or wire mesh to the structure to prevent and discourage nesting. Additional measures may include hosing or knocking down any inactive nests or unfinished nests while avoiding take.

Preventative measures may be utilized before, during, and after breeding season.

Collect nests and nest debris and treat as agriculture waste. Disposal can occur by hauling waste to a permitted landfill or on-site when mixed with topsoil uniformly at the rate of 2 tons per acre away from water bodies and runoff.

If a nest where birds are present is found; the Contractor shall have a qualified biologist conduct a bird/nest survey no more than 5 working days prior to starting work at the structure site. A biologist is considered qualified if they have obtained a 4 year degree from an accredited university in a natural sciences field and is employed as an environmental professional.

If active nests are identified, cease construction or demolition and maintain a minimum buffer of 25 feet around active nests to avoid take. The qualified biologist may adjust the buffered distance in coordination with the USFWS. Maintain the buffer as construction resumes until the nests are no longer active.

SURVEY REQUIREMENTS

The USFWS requires that field surveys conducted for nesting birds with the intent of avoiding take include documentation of the presence of migratory birds, eggs, inactive and active nests, along with information regarding the qualifications of the biologists performing the survey, and any avoidance measures implemented at the project site.

If the survey or other available information indicates a potential for take of migratory birds, their eggs, or active nests, contact the USFWS for further coordination on the extent of the impact and the long-term implications of the intended use of the project on migratory bird populations.

Ecological Services
U.S. Fish & Wildlife Service
3425 Miriam Avenue
Bismarck, ND 58501
701-250-4481

BASIS OF PAYMENT

Include the costs for the removal and disposal of nests, the prevention of nesting, and bird/nest surveys in the price bid for the work at the structure site.

Such payment is full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

LIMITATIONS OF OPERATIONS

DESCRIPTION

Section 108.05, "Limitations of Operations" is no longer valid. Use this Special Provision in its place.

108.05 LIMITATION OF OPERATIONS

A. General.

Perform the work in a manner and sequence that minimizes interference to traffic, and with due regard to the location of detours and provisions for handling traffic. Do not begin work to the prejudice or detriment of work already started; the contract may require a section of roadway to be finished before starting additional sections if the opening of the section is essential to public convenience.

If the prosecution of the work is discontinued, provide the Engineer at least 24-hours notice before resuming operations.

B. Holidays.

Unless the contract allows work on holidays, perform work on holidays only with the Engineer's prior written approval. Submit a written request to the Engineer by noon 2 business days before the requested holiday.

C. Nighttime Operations and Extended Hours.

1. General.

When performing work in low light conditions, implement proper safety precautions and provide adequate lighting for the performance and inspection of the work.

The following operations are exempt from the definitions of extended hours and nighttime operations:

- Pavement coring;
- Concrete joint cutting; and
- Temporary traffic control.

Work conducted less than 1 hour after sunset and less than 1 hour before sunrise is considered extended hours. All other operations conducted under darkness fall under nighttime operations.

2. Nighttime Operations.

Unless the contract allows for nighttime operations, perform work at night only with the Engineer's prior written approval.

Submit a written request to the Engineer before anticipated nighttime operations. Allow up to 7 calendar days for the Engineer to review the request. The Engineer may deny the request or delay approval if it would require additional staffing considerations. If nighttime

operations require the Engineer to hire additional forces, nighttime operations may not be allowed for up to 30 days from the receipt of the request.

When requesting to perform nighttime operations, include a plan to ensure the safety of all individuals on the project site, including the Contractor's and subcontractor's workers, Department representatives, and the traveling public.

The Department bears no liability for costs or delays resulting from the Engineer's approval, rejection, or delay for staffing purposes of a request to perform nighttime operations.

3. Extended Hours.

Extended hours are allowed before sunrise with verbal notice given to the Engineer the previous day. Extended hours are allowed after sunset with verbal notice given to the Engineer that same day.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

STANDARD SPECIAL PROVISION

FEDERAL PROHIBITION ON CERTAIN TECHNOLOGICAL HARDWARE

DESCRIPTION

This Special Provision details technological items that are prohibited from use on Department contracts. The contents of this SP take precedent over requirements regarding affected equipment in all other contract documents.

CONTRACT REQUIREMENTS

Equipment, services, and systems using telecommunications equipment or services are prohibited from containing equipment produced by:

- Huawei Technologies Company;
- ZTE Corporation; and
- Any subsidiary or affiliate of the named entities.

Video surveillance and telecommunications equipment are prohibited from containing equipment produced by:

- Hytera Communications Corporation;
- Hangzhou Hikvision Digital Technology Company;
- Dahua Technology Company; and
- Any subsidiary or affiliate of the named entities.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

STANDARD SPECIAL PROVISION

E-Ticketing

DESCRIPTION

This Special Provision modifies the NDDOT Standard Specifications to allow for the use of electronic haul tickets (E-Tickets) when delivering material. If E-Tickets are utilized the Engineer and Contractor each have the right to revert to the use of paper tickets upon providing a written notice to the other party.

CONTRACT REQUIREMENTS

A. General.

If the Contractor elects to use E-Tickets, 30 days before delivering material to the project confirm that the material suppliers E-Tickets are compatible with the Department's Electronic Ticketing portal (Haulhub).

If necessary, create a programming interface to integrate with the Department's E-Ticketing Portal. Utilize the interface to provide electronic data from the load read-out weighing system at the material source in a manner that is readable by the Department's E-ticketing Portal. Haulhub will be available to coordinate the interface with the Contractor and Subcontractors.

As E-Tickets are generated, submit them to the Department using the Department's Electronic Ticketing Portal.

B. Material Accepted by Weight.

In addition to the paper documents described in Section 109.01 J.6, "Documentation", the Engineer will accept E-Tickets as haul documentation.

Provide the Engineer with access, instruction, and assistance in obtaining E-Tickets.

Produce both paper and E-Tickets. The Engineer may waive the requirement for dual production if the E-Tickets prove to be reliable.

C. Concrete Batch Plants.

Batch tickets generated for concrete as specified in Section 155.02 B.2, "Batch Tickets" may be either paper or E-Tickets.

Provide the Engineer with access, instruction, and assistance in obtaining E-Tickets.

Produce both paper and E-Tickets. The Engineer may waive the requirement for dual production if the E-Tickets prove to be reliable.

BASIS OF PAYMENT

Include the cost of producing material documentation and batch tickets in the contract unit price for applicable items.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIAL PROVISION
DOMESTIC MATERIAL PROCUREMENT PREFERENCES

DESCRIPTION

Replace Section 106.08, "Buy America", with the following:

DOMESTIC MATERIAL PROCUREMENT FOR INFRASTRUCTURE PROJECTS

A. General.

Provide materials from domestic material sources when articles, materials, or supplies are permanently incorporated into the work.

The requirements of this SP are not applicable to equipment, tools, and temporary items.

Domestic material procurement requirements do not apply to items used by the Contractor to facilitate construction that are not required to be permanently installed as part of the contract requirements, but that are left in place upon completion of the work at the convenience of the Contractor.

The definitions and requirements in this SP have been assembled based on the following Federal requirements:

- Iron and steel requirements are based on 23 CFR Part 635, "Buy America requirements";
- Manufactured products are based on 23 CFR Part 635 "Buy America requirements"; and
- Construction materials are based on 2 CFR Part 184, "Buy America Preferences for Infrastructure Projects" (BABA).

B. Certifications.

All certifications are submitted by the prime Contractor. When submitting certifications for materials that are subject to the requirements of this provision, the prime Contractor shall include a signed letter stating that the submitted documentation is the documentation that was received by the prime Contractor for material incorporated into the work. The prime Contractor's signature on the Department's Certificate of Compliance form meets this requirement.

C. Determination of Material Category.

1. General.

Only a single category of requirements will apply to an item.

Exceptions:

- 1) Precast concrete items are classified as manufactured products, however components of these items that consist wholly or in part of iron, steel, or a combination of both must meet the requirements of Section C.2, "Iron or Steel Products" of this provision.

- 2) Cabinets or enclosures for intelligent transportations systems or other electronic hardware systems classified as manufactured products that consist wholly or in part of iron, steel, or a combination of both must meet the requirements of Section C.2, "Iron or Steel Products" of this provision.

Some contract items are composed of multiple components that may fall into different categories. Individual components will be categorized based on their nature when they arrive at the work site. In cases where the classification of an item is in question or dispute, the Engineer's determination of the classification will be binding.

Exception:

Items that comprise a kit will be considered based on their status as a whole product and classified as either iron or steel products or as manufactured products. A kit is a product intended for incorporation into the project whose parts are acquired from a single manufacturer or supplier and delivered to the work site as separate components but are then assembled to form a single product at the work site.

2. Iron or Steel Products.

Iron or steel products are defined as articles, materials, or supplies that consist wholly or predominantly of iron, steel, or a combination of both.

Predominantly iron or steel or a combination of both means the cost of the iron and steel components exceeds 50 percent of the total cost of all components. The cost of iron and steel is the cost of the iron or steel mill products (such as bar, billet, slab, wire, plate, or sheet), castings, or forgings utilized in the manufacture of the product and a good faith estimate of the cost of iron or steel components.

3. Manufactured Products.

Manufactured products are defined as articles, materials, or supplies that have been:

- Processed into specific form or shape; or
- Combined with other articles, materials, or supplies to create a product with different properties than the individual articles, materials, or supplies.

If the cost of iron and steel components of a manufactured product exceed 50 percent of the total cost of the product, the iron and steel must meet the requirements of Section C.2, "Iron or Steel Products" of this provision. The remaining components are then exempt from any domestic procurement preference.

4. Construction Materials.

Construction materials are materials that consist primarily of:

- Non-ferrous metals;
- Plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables);
- Glass (including optic glass);
- Fiber optic cables (including drop cable);
- Optical fiber;
- Lumber;
- Engineered wood; or
- Drywall.

Minor additions of articles, materials, supplies, or binding agents to a construction material do not change the categorization.

5. Other Materials

If articles, materials or supplies do not meet any of the definitions in sections C.2, C.3, or C.4, there are no requirements for domestic manufacturing. This includes the following items that are specifically categorized as other (excluded) materials per BABA Section 70917(c) of the Infrastructure Investment and Jobs Act of 2021:

- Cement and cementitious materials;
- Aggregates such as stone, sand, or gravel; or
- Aggregate binding agents or additives.

D. Steel and Iron Certification.

1. General.

Ensure all manufacturing processes, including applications of coatings, occur in the United States. A coating includes all processes required to apply the coating to a product to protect or enhance the value of the product.

2. Bulk Manufactured Steel and Iron Materials.

In addition to the requirements of Section 106.01 C, "Certificate of Compliance", submit a contractor's Certificate of Compliance stating that the iron and steel products listed in Table 1 are of domestic origin.

Table 1

Mailbox supports	Cable Fence Materials
Chain Link Fence Materials	Barbed Wire Fence Materials
Guardrail Components	Woven Wire Fence Materials
Culvert Markers	Delineators
Perforated Tube Sign Supports and Related Materials	

3. Other Steel and Iron Products.

For steel and iron products that are not listed in Table 1, submit a manufacturer's Certificate of Compliance as specified in Section 106.01 C, "Certificate of Compliance".

4. Foreign or Uncertified Steel and Iron.

These requirements allow the use of steel and iron products produced and manufactured outside the United States, or steel and iron products that cannot be certified as manufactured in the United States, of a total value less than 0.1 percent of the original contract amount, or \$2,500, whichever is greater.

The total value is that shown to be the cost of the steel and iron products as delivered to the project site.

Document the cost of:

- Foreign steel and iron products, plus
- Steel and iron products which cannot be certified as manufactured in the United States.

Submit the documentation of foreign and uncertified steel and iron products with the required certifications.

E. Manufactured Products.

Manufactured products are acceptable under this provision if the product was manufactured in the United States. For the purposes of this provision, “manufactured in the United States” means that the final assembly of the product occurred in the United States.

F. Construction Materials.

1. General.

Each material classified as a construction material has a specific standard for the material to be considered in compliance with this provision.

Except as specifically provided, only a single standard under this section should be applied to a single construction material.

2. Non-Ferrous Metals.

For non-ferrous metals, all manufacturing processes from initial smelting or melting through final shaping, coating, and assembly, occurred in the United States.

3. Plastic and Polymer-Based Products.

For plastic and polymer-based products; including polyvinylchloride, composite building materials, and polymers used in fiber optic cables; all manufacturing processes, from initial combination of constituent plastic or polymer-based inputs, or, where applicable, constituent composite materials, until the item is in its final form, occurred in the United States.

4. Glass.

For glass; including optic glass; all manufacturing processes, from initial batching and melting of raw materials through annealing, cooling, and cutting, occurred in the United States.

5. Fiber Optic Cable.

For fiber optic cable; including drop cable; all manufacturing processes, from the initial ribboning if applicable, through buffering, fiber stranding and jacketing, occurred in the United States.

All manufacturing processes also include the standards for glass and optical fiber, but not for non-ferrous metals, plastic and polymer-based products, or any others.

6. Optical Fiber.

For optical fiber, all manufacturing processes, from the initial preform fabrication stage through the completion of the draw, occurred in the United States.

7. Lumber.

For lumber, all manufacturing processes, from initial debarking through treatment and planing, occurred in the United States.

8. Drywall.

For drywall, all manufacturing processes, from initial blending of mined or synthetic gypsum plaster and additives through cutting and drying of sandwiched panels, occurred in the United States.

9. Engineered Wood.

For engineered wood, all manufacturing processes from the initial combination of constituent materials until the wood product is in its final form, occurred in the United States.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION
PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE

DESCRIPTION

This SP replaces Section 107.14 Public Liability and Property Damage Insurance.

107.14 Public Liability and Property Damage Insurance.

A. General Requirements.

Submit to the Department the certificates of insurance effecting the requirements in this section for the Commercial General Liability and Commercial Automobile Liability Insurances with the contract and the contract bond in accordance with Section 103.06, "Execution and Approval of Contract."

Provide insurance policies executed by a corporation qualified and authorized to write the policies in the State of North Dakota. The State reserves the right to obtain complete, certified copies of all required insurance documents, policies, or endorsements at any time.

Secure and maintain insurance in full force and effect before starting the work and until completion of all work required and accepted by the Department or owner. The policies shall provide 30 calendar days notice to the Department or the owner of any intent to cancel or materially alter such insurance.

Failure to maintain the insurance as required constitutes a material breach of contract. The Department or the owner may, after giving 5 business days notice to the Contractor to correct the breach, immediately terminate the Contractor in accordance with Section 108.08, "Termination of the Contract for Default," and procure or renew such insurance and pay all premiums. The Department or the owner may demand repayment of premium costs by the Contractor, or may offset the premium costs against funds due the Contractor from the Department or the owner.

B. Insurance Requirements.

Secure and maintain in full force and effect during the term of the contract the following insurance coverages:

1. Commercial General Liability for limits not less than \$2,000,000 combined single limit per occurrence and aggregate for bodily injury, property damage, personal injury and completed operations/product liability. Provide products and completed operations coverage for a period of one year following final acceptance of the work. Provide coverage with the aggregate limit applied separately to occurrences at the location or project described in this contract. Provide a policy including a "stop-gap" Employers Liability endorsement to cover the employer's liability for injury to employees falling outside the State Worker's Compensation Law.
2. Commercial Automobile Liability for limits not less than \$2,000,000 combined single limit per accident for bodily injury and property damage.

3. Workers Compensation coverage as required by the State of North Dakota.

The General Liability and Automobile policies shall provide an additional insured endorsement in favor of the State of North Dakota and the Owner and shall contain a "Waiver of Subrogation" to waive any right of recovery that the Insurance company may have against the State and the Owner. The coverage required under this agreement shall be primary for the State and the Owner, and shall not be affected by any other insurance or coverage obtained by the State or the Owner on their own behalf.

Any right of the State to receive indemnification and insurance shall not give rise to a duty on the part of the State to exercise its rights or status for the benefit of the owner, or any other person or entity.

C. Subcontractor.

If subletting a portion of the contract, the Contractor shall obtain insurance protection in accordance with Section 107.14.B, "Insurance Requirements," to provide liability coverage to protect the Contractor, State, and owner for work undertaken by the subcontractor. Ensure public liability and property damage insurance coverage in accordance with Section 107.14.B, "Insurance Requirements," for all parties performing work under the contract.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

STANDARD SPECIAL PROVISION

FEDERAL DRONE RESTRICTION

DESCRIPTION

This Special Provision is to comply with the Federal Regulations, NDAA Public Law 118-31 - Section 1825 "American Security Drone Act of 2023", and the Office of Management and Budget (OMB) Memorandum-26-02 to prohibit the uses of Unmanned Aircraft Systems (UAS) manufactured by covered foreign entities on projects and project activities.

CONTRACT REQUIREMENTS

Maintain records and documents pertaining to the origins of drones used on NDDOT projects. Furnish copies of these records upon request of the Department or FHWA. Retain the records for a minimum of 4 years after the Contractor return the signed final payment voucher.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

CONCRETE SPALL REPAIR

PROJECT 5-094(194)070 – PCN 25074

DESCRIPTION

This work consists of repairing areas of spalled and deteriorated concrete on existing structures.

EQUIPMENT

A. General.

Do not use aluminum tremies, forms, hoppers, downspouts, or chutes.

If using a batch plant, use equipment as specified in Section 155, "Concrete Equipment".

B. Batching and Mixing.

Provide batching and mixing equipment capable of thoroughly mixing the material to continuously supply the delivery equipment.

C. Shotcrete Dry Mix Delivery Equipment.

Provide dry mix delivery equipment that delivers a continuous and uniform mix material to the nozzle. Supply a nozzle that is equipped with a water ring and valve to adjust the water. Maintain the water at least 16 psi higher than the air pressure. Use a nozzle that delivers a conical discharge stream.

D. Shotcrete Air Supply.

Supply a clean, dry air supply, capable of maintaining sufficient nozzle velocity for all parts of the work. Provide a moisture and oil trap in the air supply to prevent contamination of the

E. Sandblasting Equipment.

Used compressed air type sandblasting equipment.

MATERIALS

A. General.

Name	Section
Burlap Cloth	810.01 A
Liquid-Membrane Curing Compounds	810.01 B
Water	812

B. Prepackage Patching Materials.

Supply a prepackage polymer-modified cementitious repair mortar specifically designed for patching concrete that contains a corrosion inhibitor supplied by one of the following:

- Sika Top 123 Plus (Sika Corporation);

- Duraltop Gel (Euclid Chemical Company);
- MasterEmaco N 400 (Sika Corporation);
- DuoPatch (SpecChem); or
- Approved Equal.

C. Formed Concrete.

If the repair exceeds 3 inches in depth repairs can be completed using any Class AE concrete meeting Section 602.03, "Materials".

D. Shotcrete Dry Mix.

1. General.

Provide pre-blended dry mix shotcrete that meets the following:

- Produced in a facility with quality control;
- All mix components were weigh batched; and
- Is pre-packaged.

Supply pre-packaged shotcrete bags with the following printed on the outside:

- The manufacturer's name;
- Mix name; and
- Identification or lot number.

Store the material in the following conditions:

- Within a temperature range of 40 to 85 °F;
- Out of direct sunlight; and
- Protected from precipitation and humidity.

2. Portland Cement.

Supply cement that meets the requirements of Section 804.01 "Cement" and *ASTM C150, Standard Specification for Portland Cement, Type I*.

3. Silica Fume.

Provide Silica Fume conforming to *ASTM C1240, Standard Specification for Silica Fume Used in Cementitious Mixtures*.

4. Blended Aggregates.

Provide blended natural siliceous aggregates consisting of hard, clean, strong, durable uncoated particles, conforming to the requirements of *ASTM C33, Standard Specification for Concrete Aggregates*. Provide all aggregates dried to a moisture content of less than 0.1% by mass, based on oven drying at 220°F to 230°F.

Supply a gradation that meets the requirements of Table 1

Sieve Size	Percent Passing
1/2-inch	100
3/8-inch	90-100
#4	70-85
#8	50-70
#16	35-55
#30	20-35
#50	8-20
#100	2-10

Clearly indicate in the product name or data sheet the gradation being supplied.

5. Synthetic Fiber Reinforcement.

Use Type III Collated fibrillated-polypropylene (CFP) synthetic fibers that conform to *ASTM C1116, Standard Specification for Fiber-Reinforced Concrete*. The fibers will need to control plastic, thermal and drying shrinkage cracking at a dosage designed by the manufacturer, but at a minimum dosage rate of 1.5 pounds per cubic yard of shotcrete. Recommend a fiber length modification, if necessary, to achieve both shotcrete consolidation and mitigation of cracking due to shrinkage and thermal related effects.

6. Mix Design and Testing.

Use dry-bagged premixed shotcrete materials in conformance with the pertinent requirements of *ASTM C1480, Standard Specification for Packaged, Pre-Blended, Dry, Combined Materials for Use in Wet or Dry Shotcrete Application*.

In situ shotcrete mix properties must meet or exceed the performance requirements outlined in the following Table 2:

TEST DESCRIPTION	TEST METHOD	AGE (Days)	REQUIREMENT
Min. Compressive Strength (psi)	ASTM C1604	7 28	4000 5000
Min. Flexural Strength (psi)	ASTM C78	28	900
Max. Boiled Absorption, %	ASTM C642	7	8
Max Volume of Permeable Voids, %	ASTM C642	7	17
Max. Air Void Spacing Factor (μm^3)	ASTM C457		300
Min. Freeze- Thaw Resistance (%)	ASTM C666		100
Max. Salt Scaling (lb/ft^2)	ASTM C672		0.04
Max. Rapid Chloride Penetrability	ASTM C1202	28	700
Max. Uniaxial Drying Shrinkage ($\mu\text{m}/\text{m}$)	ASTM C157	28	650

Make allowances for the shooting orientation and rebound in shotcrete mixture proportioning. Perform tests at curing temperatures expected to be encountered in the field.

E. Supplemental Reinforcement and Anchors.

Name	Section
Reinforcing Steel, Dowel Bars, and Tie Bars	836

CONSTRUCTION REQUIREMENTS

A. Submittals.

1. Patching Materials.

Submit product data, including the manufacturer's recommendations for storage, mixing, placement, and curing, at least 14 calendar days prior to beginning work. Include the recommended epoxy bonding agent with the product submittals.

2. Class AE Concrete.

Use a Class AE mix design that was previously used on another Structure within the past 3 years. If no mix design is available, submit a mix design as follows:

Supply AE Portland Cement Concrete using a gradation as specified in Section 802.02 B. Design a mix that meets Section 802 and will attain a minimum compressive strength of 3,000 PSI at 7 days and a minimum of 4,000 psi at 28-days.

3. Shotcrete.

a. General.

Submit the following written documentation at least 14 calendar days before beginning shotcreting operations:

1. Pre-bagged mix material data sheets;
2. Experience of the Nozzleman and Foreman;
3. Proposed method of mixing;
4. Proposed method of applications.
5. Proposed method of installing reinforcement;
6. Proposed mechanical anchors to be used for supplemental bond strength; and
7. Proposed curing method.

b. Qualifications of Shotcrete Work Crew.

Provide the qualifications of the work crew 10 days before beginning shotcrete operations.

Provide a Foreman with the following:

- 5 years of experience as a Foreman; and
- Is an American Concrete Institute (ACI) Certified Shotcrete Inspector.

Provide a Nozzleman with the following:

- 3 years experience as a Nozzleman; and
- Is an ACI Certified Shotcrete Nozzleman or Nozzelman In Training (Dry-Mix).

c. Preconstruction Trial.

Before applying shotcrete to any repair areas, perform a shotcrete preconstruction trial by applying shotcrete on a vertical surface using a plywood test panel that is 2 feet by 2 feet in size.

Finish the panels to demonstrate what the final shotcrete product will look like.

Demonstrate the proposed curing method on the preconstruction trial.

B. Surface Preparation.

1. General.

Provide arm's length access to the Engineer for locating loose, spalled and deteriorated concrete.

Do not damage area of sound concrete or reinforcing steel during the removal operations.

Do not exceed 4 inches of removal unless directed by the Engineer.

Dispose of material removed according to Section 107.17 "Removed Materials".

2. Removals.

Saw cut the perimeter of the spall repair to a depth of 1 inch.

Remove concrete using the following:

- Pneumatic hammers no larger than the nominal 30 pound class;
- Light duty jackhammers no larger than the nominal 15 pound class to remove concrete around reinforcing bars
- Chipping with hand picks;
- Chipping with chisels;
- Scarifying with scabblers; or
- Other suitable mechanical means.

Remove the concrete from the areas using power tools or hand tools. Use hand tools for final surface removal.

Remove all concrete within the repair area to minimum depth of 1", or to sound concrete, whichever is greater.

3. Steel Reinforcement.

If corroded reinforcing steel is exposed, continue concrete removal until there is a 3/4 inch clearance around the reinforcing bar. Do not damage concrete bond to adjacent non-exposed reinforcing steel during the concrete removal process.

Install supplemental reinforcement where open spaces between existing reinforcing bars exceed 2 square feet or the depth of repair exceeds 2 inches. Use steel welded wire reinforcement with a max opening of 4" x 4" and wire size between W2 and W3.5 (inclusive) for supplemental reinforcement. Install mechanical anchors at a spacing not to exceed 12 inches in areas requiring supplemental reinforcement. Use anchors that will

provide a minimum pullout strength of 250 pounds per anchor. Fasten the welded wire reinforcement to the anchors and any existing exposed reinforcement.

If the existing rebar shows deep pitting or a loss of more than 25 percent of the cross section, the Engineer will contact NDDOT Bridge Division and discuss the need for additional reinforcement. If additional reinforcement is needed, furnish and place the new reinforcement as directed by the Engineer.

4. Repair Area Surface.

After all deteriorated concrete has been removed, prepare the repair area surface by sandblasting and high-pressure (14,500 to 40,000 psi) water jetting. Develop a surface roughness of 3/16 inch when measured peak to valley.

Sand blast the reinforcing steel. Repair damaged epoxy coating on the reinforcing steel according to Section 612.04 E "Epoxy Coated Reinforcing Steel".

Clean the area by removing the following by either sandblasting or high-pressure water:

- All fractured surface concrete;
- All unsound material; and
- Contaminants which could interfere with the bond of the shotcrete.

Apply shotcrete to cleaned areas within 48 hours or re-blasting will be required.

C. Surface Repair.

1. General.

Allow the Engineer to inspect the surfaces before applying repair material.

Do not apply repair material during weather conditions:

- When the surface temperature of the repair area is below 40°F;
- When the air temperature is below 50°F;
- When the air temperature is above 85°F and
- During periods of rain.

2. Applying Repair.

a. Patching Material.

Coat the surface of the repair area with an epoxy bonding agent.

Mix and apply the patching material according to the manufacturer's recommendations.

b. Class AE Concrete.

Follow the requirements of Section 602.04 "Construction Requirements."

c. Shotcrete.

(1) General.

Before applying shotcrete, screen the work area to:

- Protect the work area from wind;

- Contain dust and rebound materials; and
- Protect nearby structures and vegetation.

Provide the Engineer with the following information during the shotcrete operations:

- Maintenance of test records for all quality control operations
- Wash-out testing of dry-bagged premix materials to check cementitious content and aggregate gradation

(2) Wetting.

A day before applying shotcrete saturate the surface of the planned work area with water and re-wet the surface before shooting. One hour before applying shotcrete flush the surface with water. Allow the surface to dry to saturated surface dry conditions before the application of shotcrete.

If a work stoppage lasts longer than 2 hours and the surface is not at the desired height, rewet the surface before continuing.

(3) Applying Shotcrete.

Supply shotcrete mix that is between 50°F and 95°F.

Do not apply shotcrete to a dry surface or to a surface with free water on it.

Bring the shotcrete to an even plane and to well-formed corners by working up to ground wires or other guides, using a lower-than-normal placing velocity.

Monitor the water ring in the nozzle for any signs of blockage of individual water spray holes. If non-uniform wetting of discharged shotcrete becomes apparent, stop the shooting and clean the water ring or take corrective actions.

Thoroughly clean the delivery equipment at the end of each shift. Remove any build-up of coatings in the delivery hose and nozzle liner.

Remove hardened rebound and hardened overspray before application of additional shotcrete using sandblasting, chipping hammers, high-pressure water blasting or other suitable techniques.

Do not allow shotcrete material to fall on natural surfaces within 200' of the surface waters or onto surface waters.

Repair shotcrete surface defects as soon as possible after placement. Remove and replace shotcrete which exhibits the following:

- Segregation;
- Honeycombing;
- Lamination;
- Voids; or
- Sand pockets.

Stop the shotcrete application if plastic shrinkage and/or early drying shrinkage cracks occur.

(4) Finishing Shotcrete.

Build the surface of the shotcrete up and trim to the final surface with a sharp trowel. Remove imperfections by floating the surface with a rubber float.

Use a wooden float for a preliminary finish with the final surface finish performed with a rubber float.

D. Surface Tolerance.

Maintain the final surface finish within 1/4-inch of a straight line in any direction between the adjacent surfaces. Transition all surfaces smooth.

Grind hardened surfaces to bring out of tolerance surfaces into tolerance. Texture ground surfaces to match the non-ground surfaces.

E. Curing.

1. General.

Maintain the temperature of the repair area above 40°F for 5 days.

2. Patching Material.

Cure patching material according to the manufacturer's recommendations.

3. Formed Concrete.

Leave the forms covering the concrete for the duration of the curing period. Cure the repair area in accordance with Section 602.04 F "Curing Concrete". Use a minimum curing period of 5 days.

4. Shotcrete.

a. General.

Cure the shotcrete using one of the following procedures.

b. Wet Burlap Wrapping.

Prepare the burlap by presoaking it in water for 24 hours before installation. Wrap the elements in wet burlap. Keep the wet burlap saturated and in place for a minimum of 5 days or as recommended by the manufacturer.

c. Curing Compound.

Apply two successive coats of an approved curing compound meeting Section 810.01 B immediately after completion of surface finishing. When applying successive coats, follow the recommendations of the curing compound manufacturer.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Spec	Code	Pay Item	Pay Unit
930	9612	Spall Repair	SF

Such payment is full compensation for furnishing all materials, equipment, labor, and incidentals to complete the work as specified.