

# State of New Jersey Department of Transportation



## Special Provisions For State Aid Projects

**FY 2019 Edition**  
**Revision 20: January 2023**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SPECIAL PROVISIONS**

1\*\*\*\*\*1

INCLUDE PROJECT DESCRIPTION AS SHOWN ON THE KEY SHEET.

**SUBJECT MATTER EXPERT (SME) CONTACT – PROJECT MANAGER**

1\*\*\*\*\*1

**AUTHORIZATION OF CONTRACT**

1\*\*\*\*\*1

INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

The Contract for this project is authorized by the provisions of local public contracts law, NJSA 40A: 11-1 et seq.

1\*\*\*\*\*1

**SPECIFICATIONS TO BE USED**

The 2019 Standard Specifications for Road and Bridge Construction, of the New Jersey Department of Transportation (Department) as amended herein will govern the construction of this Project and the execution of the Contract.

These Special Provisions consist of the following:

1\*\*\*\*\*1

COMPLETE AND INCLUDE THE FOLLOWING

Pages 1 to \_\_\_ inclusive.

1\*\*\*\*\*1

LIST HERE & INCLUDE ADDITIONAL PROJECT SPECIFIC ATTACHMENTS REQUIRED FOR THE PROJECT AT THE END OF THESE SPECIAL PROVISIONS, SUCH AS ASBESTOS ABATEMENT.

The following additional project specific Attachments are located at the end of these Special Provisions:

1\*\*\*\*\*1

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INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

State wage rates may be obtained from the New Jersey Department of Labor & Workforce Development (Telephone: 609-292-2259) or by accessing the Department of Labor & Workforce Development’s website at [https://www.nj.gov/labor/wagehour/wagerate/prevaling\\_wage\\_determinations.html](https://www.nj.gov/labor/wagehour/wagerate/prevaling_wage_determinations.html). The State wage rates in effect at the time of award are part of this Contract, pursuant to Chapter 150, Laws of 1963 (N.J.S.A. 34:11-56.25 et seq.).

In the event it is found that any employee of the contractor or any subcontractor covered by the contract, has been paid a rate of wages less than the minimum wage required to be paid by the contract, the contracting agency may terminate the contractor’s or subcontractor’s right to proceed with the work, or such part of the work, as to which there has been a failure to pay required wages and to prosecute the work to completion or otherwise. The contractor and his sureties shall be liable to the contracting agency for any excess costs occasioned thereby.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**GENERAL**

All awards shall be made subject to the approval of the New Jersey Department of Transportation. No construction shall start before approval of said award by the New Jersey Department of Transportation. Prior to the start of construction the contractor must submit a Material Questionnaire (SA-11) listing all sources of materials. Any materials used on the project from a non-approved New Jersey Department of Transportation source will be considered non-participating. The contractor is also notified that the District Office, Division of Local Aid and Economic Development must be notified of the construction commencement date at least three (3) calendar days prior to the start of construction.

Award of contract and subletting will not be permitted to, materials will not be permitted from, and use of equipment will not be permitted that is owned and/or operated by, firms and individuals included in the report of suspensions, [debarments](#) and disqualifications of firms and individuals as maintained by the Department of the Treasury, Division of Purchase & Property, Contract Compliance & Administration, Trenton NJ 08625 (609-292-5400).

Payment for a pay item in the proposal includes all the compensation that will be made for the work of that item as described in the contract documents unless the "measurement and payment" clause provides that certain work essential to that item will be paid for under another pay item.

Whenever any section, subsection, subpart or subheading is amended by such terms as changed to, deleted or added it is construed to mean that it amends that section, subsection, subpart or subheading of the 2019 Standard Specifications unless otherwise noted.

Whenever reference to page number is made, it is construed to refer to the 2019 Standard Specifications unless otherwise noted.

Henceforth in this supplementary specification whenever reference to the State, Department, ME, RE or Inspector is made, it is construed to mean the particular municipality or county executing this contract.

Whenever reference to Title 27 is made, it is construed to mean Title 40.

The following information is located at the end of these Special Provisions:

2\*\*\*\*\*2

- 1. Small Business Enterprise Utilization on Wholly State Funded Projects. (State Funded Project Attachment 1)

THE REGIONAL LOCAL AID DISTRICT OFFICE WILL FILL OUT THE SBE GOALS REQUEST FORM AND CLASSIFICATION CODES WORKSHEET AVAILABLE AT

[SBE GOAL REQUEST FORM](#)  
[CLASS CODE WORKSHEET](#)

THE REGIONAL LOCAL AID DISTRICT OFFICE WILL EMAIL THE COMPLETED FORM AND WORKSHEET ALONG WITH A COPY OF THE ENGINEER'S ESTIMATE TO THE BUREAU OF CONSTRUCTION SERVICES AT [CSPD@DOT.NJ.GOV](mailto:CSPD@DOT.NJ.GOV). ALLOW AT LEAST 10 DAYS FOR CONSTRUCTION SERVICES TO RESPOND.

UPON RECEIVING THE INFORMATION, THE REGIONAL LOCAL AID DISTRICT OFFICE WILL FORWARD THE INFORMATION TO THE LOCAL PUBLIC AGENCY TO FILL IN THE BLANK (F. SBE GOALS FOR THIS CONTRACT) ON STATE FUNDED PROJECT ATTACHMENT NO. 1 LOCATED AT THE END OF THESE SPECIAL PROVISIONS.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SME CONTACT – OFFICE OF CIVIL RIGHTS, CONTRACT COMPLIANCE**  
2\*\*\*\*\*2

2. State of New Jersey Equal Employment Opportunity Special Provisions for Wholly State Funded Projects. (State Funded Project Attachment 2)
3. Requirements for Affirmative Action to Ensure Equal Employment Opportunity on Wholly State Funded Projects. (State Funded Project Attachment 3)
4. Investigating, Reporting and Resolving Employment Discrimination and Sexual Harassment Complaints on Wholly State Funded Projects. (State Funded Project Attachment 4)
5. [Payroll Requirements](#) for Wholly State Funded Projects. (State Funded Project Attachment 5)
6. [Americans with Disabilities Act](#) Requirements for Wholly State Funded Contracts. (State Funded Project Attachment 6)

**LIST HERE & INCLUDE ADDITIONAL PROJECT SPECIFIC ATTACHMENTS REQUIRED FOR THE PROJECT AT THE END OF THESE SPECIAL PROVISIONS, SUCH AS ASBESTOS ABATEMENT.**

The following additional project specific Attachments are located at the end of these Special Provisions:

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

# DIVISION 100 – GENERAL PROVISIONS

## SECTION 101 – GENERAL INFORMATION

### 101.01 INTRODUCTION

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COMPLETE AND INCLUDE THE FUNDING DOLLAR AMOUNTS WITH THE APPROPRIATE STATE AND/OR FEDERAL FISCAL YEAR FOR PROJECTS WITH ADVANCED CONSTRUCTION (MULTI-YEAR) FUNDING.

#### SME CONTACT – PROJECT MANAGER

THE FOLLOWING IS ADDED:

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INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

Pursuant to N.J.S.A. 27:1B-21.6, the Department intends to enter into a contract for the advancement of the Project. However, sufficient funds for the Project may not have been appropriated, and only amounts appropriated by law may be expended. Payment under the Contract is restricted to the amounts appropriated for a fiscal year (FY).

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Governing bodies have no legal obligation to make such an appropriation. There is no guarantee that additional funds will be appropriated. Failure by governing bodies to appropriate additional funds will not constitute a default under, or a breach of, the Contract. However, if the Department terminates the Contract or suspends work because funds have not been appropriated, the parties to the Contract will retain their rights for suspension and termination as provided in 108.13, 108.14, and 108.15; except as indicated below.

Do not expend or cause to be expended any sum in excess of the amount allocated in the current fiscal year's Capital Program (as specified below). The Department will notify the Contractor when additional funding has been appropriated. Any expenditure by the Contractor which exceeds the amount appropriated is at the Contractor's risk and the Contractor waives its right to recover costs in excess of that appropriated amount.

The approved \_\_\_\_\_ Capital Program has an item with \$ \_\_\_\_\_ million for the construction of the Project.

2\*\*\*\*\*2

INCLUDE ALL APPROPRIATE STATEMENT(S)

The Department anticipates that \$ \_\_\_\_\_ million dollars in additional funds will be provided during State FY \_\_\_\_\_.

The Department anticipates that the balance of the funds necessary to complete the Project will be provided during State FY \_\_\_\_\_.

The Department anticipates that \$ \_\_\_\_\_ million dollars in additional funds will be provided during Federal FY \_\_\_\_\_.

The Department anticipates that the balance of the funds necessary to complete the Project will be provided during Federal FY \_\_\_\_\_.

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The Federal FY begins October 1 of the previous calendar year and the State FY begins July 1 of the previous calendar each year.

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### 101.03 TERMS

THE FOLLOWING TERM IS ADDED:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**Full Traffic Access.** All work is complete to allow safe unencumbered use of the final paved portion of roadway throughout the project including but not limited to striping, RPMs, rumble strips, highway lighting, and traffic signals as determined by the RE.

**MAKE THE FOLLOWING REVISIONS FOR WHOLLY STATE FUNDED PROJECTS**

THE FOLLOWING IS OMITTED:

**Federal Aid Project.** Any agreement or modification thereof between NJDOT and any applicant and a person for construction work which is paid for in whole or in part with funds obtained from the Federal government or borrowed on the credit of the Federal government pursuant to any program involving a grant, contract, loan, insurance or guarantee under which the NJDOT itself participates in the construction work.

**Federal Aid Project Attachments.** Attachments to the Contract Special Provision document, used for Federal Aid Projects.

ADD THE FOLLOWING TERM:

**Wholly State Funded Project:** Any agreement, contract or modification thereof between local public agencies and a person for construction work which is paid for in whole or in part with funds obtained from the State government or borrowed on the credit of the State government pursuant to any program involving a grant agreement, contract, loan, insurance or guarantee. This term excludes any agreement, contract or modification for construction work which is paid for in whole or in part with funds obtained from the Federal government.

REVISE THE FOLLOWING TERM:

**actual cost:** The computed cost using calculations of direct labor, labor fringe benefits, indirect labor costs, insurance, materials, extraordinary expenses, equipment, profit, overhead, and subcontractors.

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**101.04 INQUIRIES REGARDING THE PROJECT**

**2. After Award of Contract.**

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**SELECT THE APPROPRIATE REGIONAL OFFICE**

**SME CONTACT – CONSTRUCTION MANAGEMENT**

Local Aid District 1 Office  
Adam Iervolino, Senior Executive Service  
200 Stierli Court  
Mt. Arlington, NJ 07856-1322  
Telephone: 973-810-9120

\*\*\*\*OR\*\*\*\*

Local Aid District 2 Office  
153 Halsey Street, 5<sup>th</sup> Floor  
Newark, NJ 07102  
Telephone: 862-350-5730

\*\*\*\*OR\*\*\*\*

Local Aid District 3 Office

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Deval Desai, Senior Executive Service  
1035 Parkway Avenue  
PO Box 600  
Trenton, NJ 08625  
Telephone: 609-963-2020

\*\*\*\*OR\*\*\*\*

Local Aid District 4 Office  
Thomas Berryman, Senior Executive Service  
One Executive Campus Route 70 West, 3<sup>rd</sup> Floor  
Cherry Hill, NJ 08002  
Telephone: 856-414-8414

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## SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS

### 102.01 QUALIFICATION TO BID

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BDC22S-18 DATED NOV 18, 2022

THE FIRST PARAGRAPH IS CHANGED TO:

The Bidder is an individual, firm, or corporation submitting a bid for the advertised Work. The Department will not accept bids from Bidders who fail to meet all of the following criteria:

1. The Bidder has been prequalified according to regulations covering the Classification of Prospective Bidders as required by N.J.S.A. 27:7-35.1, *et seq.*
2. Before the receipt of the bid or accompanying the bid, the Bidder has disclosed ownership as required by N.J.S.A. 52:25-24.2.
3. At the time the bid is delivered, the Bidder has an effective maximum and project ratings of not less than the amount of its bid.
4. If the Bidder is a corporation not incorporated in the State, the Bidder has been authorized to do business in the State as required by N.J.S.A. 14A:15-2, *et seq.*
5. For wholly State Funded Projects, the Bidder has a valid, current registration with the New Jersey Department of Labor, Division of Wage and Hour Compliance as required by “Public Works Contractor Registration Act,” N.J.S.A. 34:11-56.48, *et seq.*

2\*\*\*\*\*2

THE FOLLOWING IS ADDED:

For all projects funded, in whole or in part, out of funds from the Local Aid program, each bidder on a construction contract valued at more than \$5,000,000 shall be prequalified by the New Jersey Department of Transportation.

### 102.04 EXAMINATION OF CONTRACT AND PROJECT LIMITS

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING

Project Manager:  
Email Address:  
Mailing Address:

2\*\*\*\*\*2

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING INFORMATION IF LEAD PAINT

The following is a list of structures and the location(s) of lead paint:

Structure #/Location	Lead Paint Location(s)
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2\*\*\*\*\*2

1. Evaluation of Subsurface and Surface Conditions.

2\*\*\*\*\*2

3\*\*\*\*\*3

COMPLETE AND INCLUDE INTERNATIONAL ROUGHNESS INDEX (IRI) VALUES OF THE EXISTING ROADWAY

TO REQUEST EXISTING IRI INFORMATION ON YOUR PROJECT CONTACT:

**SME CONTACT – [SIMON NWACHUKWU](#)**

THE FOLLOWING IS ADDED:

International Roughness Index (IRI) Values of the Existing Roadway				
Route	Direction	Mile Post		Existing IRI Value
		From	To	

This information is the latest available IRI data of the right most through lane from the Pavement Management Unit. The pavement information shown herein was obtained by the Department and is made available to the authorized users only so that they may have access to the same information available to the Department. It is presented in good faith, but is not intended as a substitute for investigations, interpretation, or judgment of such authorized users.

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**102.07 PREPARATION OF THE BID**

OMIT THE LAST TWO PARAGRAPHS OF THIS SECTION FOR WHOLLY STATE FUNDED PROJECTS

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**102.10 SUBMISSION OF THE BID**

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**BDC22S-13R DATED JAN 30, 2023**

THE SECOND PARAGRAPH IS CHANGED TO:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



The Bidder shall ensure delivery of its bid with all required components and attachments, including, but not limited to the following:

1. Schedule of Items.
2. Proposal Electronic Bidding File with Bidder’s Certification.
3. For wholly State Funded contracts, acknowledgement of compliance with the registrations specified in 102.01.
4. Proposal Bond form.
5. Other related documents as specified in the Contract.
6. For Federal Aid Projects exceeding a bid amount of \$100,000 or more, Bidder shall certify to the Byrd Anti-Lobbying Act requirements under 31 USC 1352.
7. Certification of Non-Involvement in Prohibitive Activities in Russia or Belarus Pursuant to N.J.S.A. 52:32-60.1. In accordance with legislation, N.J.S.A. 52:32-60.1 enacted to require contractor on public works projects to sign a certification that they are not engaged in prohibited activities in Russia or Belarus except as permitted by federal law. If the Bidder certified that they engaged in activities prohibited by N.J.S.A. 52:32-60.1, the Bidder shall have 90 days to cease engaging in any prohibited activities and on or before the 90th day after the certification, shall provide an updated certification. If the Bidder does not provide the updated certification or at that time cannot certify on behalf of the entity that it is not engaged in prohibited activities, the Department shall not award the Bidder any contracts, renew any contracts, and shall be required to terminate any contract(s) the person or entity holds with the Department that were issued on or after the effective date of N.J.S.A. 52:32-60.1.

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**DELETE THE FOLLOWING ITEM FOR WHOLLY STATE FUNDED PROJECTS**

THE FOLLOWING IS OMITTED:

8. For federal aid projects exceeding a bid amount of \$100,000 or more, Bidder shall certify to the Byrd Anti-lobbying Act requirements under 31 USC 1352.

**BDC20S-13 DATED SEP 21, 2020**

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

By submitting its bid to the Department, the Bidder warrants that no person or selling agency has been employed or retained by the Bidder to solicit or secure such Contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by the Bidder for the purpose of securing business, for the breach or violation of which warranty the Department shall have the right to annul such Contract without liability or in its discretion to deduct from the contract price or consideration the full amount of such commission, percentage, brokerage or contingent fee as required by N.J.S.A. 52:34-15.

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**102.13.01 BIDDER PRE-AWARD REQUIREMENTS**

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**MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS**

**A. Federal Aid Projects**

This section intentionally left blank.

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**BDC22S-18 DATED NOV 18, 2022**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

THE FOLLOWING IS ADDED IN PART B:

**B. State Funded Projects**

- 2. **Compliance with N.J.S.A. 19:44A-20.13, et seq.** The Department will verify the certification status of the bidder with the State Chapter 51 Review Unit. If the bidder is NOT within an approved 2 year period, then a completed and signed Two-Year Vendor Certification and Disclosure forms must be submitted to the Department.

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BDC21S-09 DATED MAY 14, 2021

PART C IS CHANGED TO:

**C. All Projects.** Prior to the time of contract award:

- 1. Submit proof of business registration with the Division of Revenue and Enterprise Services in the New Jersey Department of Treasury as required by N.J.S.A. 52:32-44. Information on how a business can register and obtain proof of business registration can be accessed on the internet at [www.nj.gov/njbgs](http://www.nj.gov/njbgs).
- 2. On the Disclosure of Investment Activities in Iran (Form DC-16) provided by the Department, certify pursuant to N.J.S.A. 52:32-58, that neither the Bidder, nor one of its parents, subsidiaries, and affiliates (as defined in N.J.S.A. 52:32-56(e)(3)), is listed on the Department of the Treasury's List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in N.J.S.A. 52:32-56(f). If the Bidder is unable to certify, the Bidder shall provide a detailed and precise description of such activities to the Department.

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BDC22S-18 DATED NOV 18, 2022

THE FOLLOWING IS ADDED IN PART C:

- 3. On the "Certification of Non-Debarment Form" provided by the Department, certify pursuant to N.J.S.A. 52:32-44.1, that neither the Bidder, nor its affiliates are debarred at the federal level from contracting with a federal government agency. The Department shall not make, negotiate, or award a contract to any bidder that does not provide the above certification. Instructions on submitting the form may be found on the Department's Electronic Bidding website and the Department's website. In addition, all Bidders must register with the federal System for Award Management (SAM) prior to contract award. In order to comply with this requirement, Bidders must register in SAM at <https://www.sam.gov> and the Department will verify the successful Bidder's registration in SAM prior to contract award.

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**102.15 DISQUALIFICATION OF BIDDERS**

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BDC22S-18 DATED NOV 18, 2022

THE FOLLOWING IS ADDED TO THE SECOND PARAGRAPH:

- 16. If the bidder is Federally debarred pursuant to N.J.S.A. 52:32-44.1.

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SECTION 103 – AWARD AND EXECUTION OF CONTRACT**

**103.04 EXECUTION OF THE CONTRACT**

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**BDC22S-18 DATED NOV 18, 2022**

THE FIRST PARAGRAPH IS CHANGED TO:

Within 14 days of the date of Award or Conditional Award, the Bidder shall properly and duly execute the Contract and deliver to the Department the following:

1. If escrowing bid documents, the custody agreement as specified in [103.05](#).
2. Performance bond and payment bond as specified in [151.03.01](#).
3. Request for Authorization Form for the New Jersey Pollutant Discharge Elimination System 5G3 – Construction Activity Stormwater General Permit (NJG0088323) when required as shown on the Plans.
4. Proof of the registrations specified in [102.01](#) for the Department of Treasury and the Department of Labor.
5. If the case of non-resident Bidders, the completed form regarding “Appointment of Agent” for compliance with N.J.S.A. 14A:15-2, *et seq.*

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**103.05 ESCROW BID DOCUMENTS**

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**103.05.A ESCROW BID DOCUMENTS**

**MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS**

REVISE SECTION 103.05.A TO THE FOLLOWING:

- A. **Purpose.** The bid documents are the supporting information, calculations, quotes, and other information used to prepare the bid. The Department may use the Contractor’s bid documents to negotiate changes and claims if they are escrowed and a signed custody agreement is provided. The information contained in the bid documents does not modify the terms and conditions of the Contract. If the Contractor fails to escrow bid documents within the time specified in 103.04, the Department will not make payment for a disproportionate allocation of costs for work for which no Item is provided in the Contract, as specified in 102.08, in the renegotiation of costs of Items when there is a major decrease in quantity.

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**SECTION 104 – SCOPE OF WORK**

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**104.02 VALUE ENGINEERING**

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**104.02.01 Purpose and Scope**

**INCLUDE THE FOLLOWING LIST OF VE PROPOSALS THE DEPARTMENT WILL NOT CONSIDER,**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

OTHERWISE DELETE

**SME CONTACT – PROJECT MANAGER**

THE FOLLOWING IS ADDED:

The Department will not consider the following as (a) VE Proposal(s):

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**SECTION 105 – CONTROL OF WORK**

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**MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS**

**105.01 AUTHORITY OF THE DEPARTMENT**

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**105.01.01 RE**

REVISE THE SECOND PARAGRAPH TO:

Unless otherwise specified, send correspondence with the Department to the RE. Where correspondence is specified to be directed to persons other than the RE, send a copy to the RE. Ensure that correspondence complies with the following:

1. Assign every correspondence sent to the Department a unique correspondence serial number in the subject line, numbered sequentially beginning with Contractor Correspondence No. 1.
2. If the correspondence includes a request for information or asks for an interpretation of the Contract, also assign a unique RFI serial number in the subject line numbered sequentially beginning with RFI-1.
3. If the correspondence constitutes a notice of change, assign a unique change notice serial number in the subject line numbered sequentially beginning with Change Notice No. 1. For subsequent correspondence referring to a change notice or to the events that are the subject of a previous change notice, refer in the subject line to the original change notice number.

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**105.01.03 Contractor Performance Evaluation**

REVISE SECTION **105.01.03** TO:

This section intentionally left blank.

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**MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**105.02 RESPONSIBILITIES OF THE CONTRACTOR**

2\*\*\*\*\*2

**105.02.05 Civil Rights Requirements**

REVISE SECTION 105.02.05.1 TO THE FOLLOWING :

- 1. **Federal Aid projects.** This section intentionally left blank.

REVISE THE FIRST LINE OF SECTION 105.02.05.2 TO THE FOLLOWING:

- 2. **Wholly State Funded Contracts.** When applicable for wholly State Funded contracts under the jurisdiction of New Jersey Statutes N.J.S.A. 10:5-31 et seq., State EEO regulations and goals apply as specified in State Funded Project Attachments 1 to 6 of the Special Provisions.

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**MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS**

**105.03 CONFORMITY WITH THE CONTRACT**

REVISE THE FIRST SENTENCE OF THE FIRST PARAGRAPH TO: In the event the Contractor discovers a discrepancy, error, omission, or ambiguity in the Contract, or if the Contractor has any doubt or question as to the intent or meaning of the Contract, the Contractor must immediately notify the RE.

REVISE THE FOURTH SENTENCE OF THE SIXTH PARAGRAPH TO: If the Department loses funding for the nonconforming work, on the basis of permitting nonconforming work to remain, the Department will not pay for the work permitted to remain in place.

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**105.05 WORKING DRAWINGS**

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**BDC21S-08 DATED NOV 18, 2021**

TABLE 105.05-1 IS CHANGED TO:

<b>Table 105.05-1 – Working Drawing Submission Category</b>	
<b>Certified</b>	<b>Approved</b>
Breakaway I-Beam GA Sign Support Posts	Catalog Cuts (related to landscape Items)
Bridge Drainage	Change in Structural Steel Details
Bridge Railing and Fencing Anchorage System	Change of Prestressed Concrete Strand Patterns
Catalog Cuts	Demolition Plans
Composite Piles	Erection Plans
DMS Sign Support Structure	High Load Multi-Rotational (HLMR) Bearings
DMS Standard Ground Mounted	Isolation Bearings
Elastomeric Bearings Pads	ITS System Drawings, including Block Diagrams

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Electrical Items Not Pre-Qualified  
Expansion Joint Assemblies (except Modular Expansion Joint Assemblies)  
Precast Prestressed Concrete Beams and Piles Fabrication  
Reinforced Elastomeric Bearings  
Sign Legends  
Sign Support Structures  
Structural Steel Fabrication

Machinery and Electrical Items for Movable Bridges  
Mechanically Stabilized Earth (MSE) Walls  
Modular Expansion Joint Assemblies  
Other work shown on the Plans as conceptual  
Precast Concrete Arch Structures  
Precast Concrete Box Culverts  
Prefabricated Modular Walls  
Stay-In-Place Forms  
Temporary Sheeting and Cofferdams  
Temporary Shielding  
Temporary Structures  
Value Engineering Plans

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**1. Certified Working Drawings.**

COMPLETE AND INCLUDE THE FOLLOWING IF THE DEPARTMENT WILL REQUIRE LESS OR MORE THAN 30 DAYS TO REVIEW AND CERTIFY, OR REJECT AND RETURN, WORKING DRAWINGS. PROVIDE A JUSTIFICATION TO INCREASED TIME FRAMES AND OBTAIN PROJECT MANAGER'S APPROVAL.

**SME CONTACT – STRUCTURAL DESIGN**

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The Department will require \_\_\_ days for review and certification or rejection and return of certified working drawings.

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**2. Approved Working Drawings.**

COMPLETE AND INCLUDE THE FOLLOWING IF THE DEPARTMENT WILL REQUIRE LESS OR MORE THAN 45 DAYS TO REVIEW AND APPROVE, OR REJECT AND RETURN, WORKING DRAWINGS. PROVIDE A JUSTIFICATION TO INCREASED TIME FRAMES AND OBTAIN PROJECT MANAGER'S APPROVAL.

**SME CONTACT – STRUCTURAL DESIGN**

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The Department will require \_\_\_ days for review and approval or rejection and return of working drawings.

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**105.07.01 Working in the Vicinity of Utilities**

**A. Initial Notice.**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

1\*\*\*\*\*1

LIST ALL UTILITY COMPANIES LOCATED WITHIN THE PROJECT LIMITS.  
INCLUDE ADDRESSES AND EMAIL ADDRESSES OF CONTACT PERSONNEL.

**SME CONTACT – PROJECT MANAGER**

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**B. Locating Existing Facilities.**

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Fiber Optic Markout Form is available at:

<http://www.state.nj.us/transportation/eng/elec/ITS/requests.shtm>.

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SELECT THE APPROPRIATE TRAFFIC OPERATIONS OFFICE(S)

FOR SUSSEX, PASSAIC, BERGEN, ESSEX, MORRIS, WARREN, HUNTERDON, SOMERSET, UNION,  
HUDSON, AND MIDDLESEX COUNTIES

Bureau of Traffic Operations, North Region (TOCN)  
670 River Drive  
Elmwood Park, NJ 07407-1347  
Telephone: 732-697-7360

\*\*\*\*\*OR\*\*\*\*\*

FOR MERCER, MONMOUTH, OCEAN, BURLINGTON, CAMDEN, GLOUCESTER, ATLANTIC, SALEM,  
CUMBERLAND, AND CAPE MAY COUNTIES

Bureau of Traffic Operations, South Region (TOCS)  
1 Executive Campus-Route 70 West  
Cherry Hill, NJ 08002-4106  
Telephone: 856-486-6650

2\*\*\*\*\*2

2\*\*\*\*\*2

SELECT THE APPROPRIATE TRAFFIC OPERATIONS OFFICE, IN ADDITION, WHEN FACILITIES OTHER  
THAN FIBER OPTIC EXIST; SELECT OTHER ITS CONTACT FROM BELOW AS NECESSARY

For Weigh-in-Motion and Traffic Volume systems contact:

Transportation Data and Safety Unit  
PO Box 600  
Trenton, NJ 08625  
609-963-1891

For Roadway Weather Information Systems contact:

Permits, Electrical Maintenance & Claims Unit  
PO Box 600

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Trenton, NJ 08625  
609-963-1829

2\*\*\*\*\*2

3.

2\*\*\*\*\*2

**SELECT THE APPROPRIATE ELECTRICAL OFFICE(S)**

Bureau of Electrical Maintenance, North Region  
200 Stierli Court  
Mt. Arlington, NJ 07856-1322  
Telephone: 973-601-6650

\*\*\*\*OR\*\*\*\*

NJDOT  
Central Region Electrical  
1035 Parkway Avenue  
4th Floor E&O Bldg.  
CN 600  
Trenton, NJ 08625  
Telephone: 609-963-1491

\*\*\*\*OR\*\*\*\*

Bureau of Electrical Maintenance, South Region  
One Executive Campus Route 70 West  
Cherry Hill, NJ 08002-4106  
Telephone: 856-486-6627

2\*\*\*\*\*2

1\*\*\*\*\*1

**C. Protection of Utilities.**

2\*\*\*\*\*2

Facility Daily Access Request Form is available at: <http://www.state.nj.us/transportation/eng/elec/TTS/access.shtm>.

2\*\*\*\*\*2

2\*\*\*\*\*2

**COMPLETE AND INCLUDE THE FOLLOWING WHEN A RAILROAD IS LOCATED WITHIN THE PROJECT LIMITS.**

**SME CONTACT – PROJECT MANAGER**

Frequency of Trains			
Location	Speed	Number Per Day	Time

2\*\*\*\*\*2

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



**105.07.02 Work Performed by Utilities**

1\*\*\*\*\*1

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING FOR ALL UTILITY COMPANIES THAT ARE AFFECTED BY THE PROJECT FOR THE ADVANCE NOTICE REQUIREMENTS. ENSURE NUMBER OF (DAY/S) ADVANCED NOTICE ARE BASED ON CALENDAR DAYS AS RELATED TO THE SCHEDULE

PROVIDE THESE AFFECTED UTILITY COMPANIES WITH A COMPACT DISC CONTAINING ELECTRONIC FILES OF PLANS & SPECIAL PROVISIONS

Company Name & Address	Contact Person	Number of Day/s Advance Notice
------------------------	----------------	--------------------------------

2\*\*\*\*\*2

LIST WORK PER STAGE TO BE PERFORMED BY THE UTILITY COMPANIES. INCLUDE A GENERAL DESCRIPTION OF THE WORK TO BE PERFORMED BY THE COMPANY AND PROVIDE COMPANY TIME FRAME TO MOBILIZE ON-SITE AND TO PERFORM THE WORK. ENSURE WORK DURATION (DAY/S) ARE BASED ON CALENDAR DAYS AS RELATED TO THE SCHEDULE. INCLUDE SEASONAL RESTRICTIONS FOR THE WORK. ENSURE THAT ANY STAGING AND MULTIPLE COMPANY COORDINATION IS PROPERLY ACCOUNTED FOR IN ALL CONTRACT DOCUMENTS.

Stage # _____	Utility Company Name	Work Description	Work Duration (Day/s)	Restriction
---------------	----------------------	------------------	-----------------------	-------------

Stage Total \_\_\_\_\_

2\*\*\*\*\*2

1\*\*\*\*\*1

**105.09 LOAD RESTRICTIONS**

1\*\*\*\*\*1

BDC 20S-05 DATED JUN 5, 2020

COMPLETE AND INCLUDE THE FOLLOWING MTV STRUCTURAL LOAD RESTRICTION TABLE FOR ALL PAVING PROJECTS

ADD OTHER MTV VEHICLES WHICH ARE IDENTIFIED BY THE INDUSTRY  
**SME CONTACT – STRUCTURAL & RAILROAD ENGINEERING SERVICES**

THE FOLLOWING IS ADDED:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

Material Transfer Vehicles Structural Load Restriction								
Route	Bridge Structures		Structure Name	Material Transfer Vehicles				
	Number	Mile Post		MTV SB-2500C by Roadteck	MTV MC-330 by Blaw-Knox	MTV SB-1500B by Roadteck	MTV SB-1000B by Roadteck	ADD OTHER MTV
				Gross Weight 125,500 lbs	Gross Weight 114,100 lbs	Gross Weight 92,000 lbs	Gross Weight 74,000 lbs	
				<b>TO BE COMPLETED BY SME ALLOWED, ALLOWED WITH SPEED LIMIT OR NOT ALLOWED</b>				

1\*\*\*\*\*1

**SECTION 106 – CONTROL OF MATERIAL**

1\*\*\*\*\*1

BDC20S-14 DATED OCT 09, 2020

THE SECTION HEADING IS CHANGED TO:

**SECTION 106 – CONTROL OF MATERIAL AND EQUIPMENT**

1\*\*\*\*\*1

**106.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS**

1\*\*\*\*\*1

2\*\*\*\*\*2

BDC22S-17 DATED DEC 23, 2022

DETERMINE IF **NJSA 52:32-62** 'REQUIRED USE OF UNIT CONCRETE PRODUCTS THAT UTILIZE CARBON FOOTPRINT-REDUCING TECHNOLOGY' AND **NJSA 52:27D-141.17** 'STANDARDS, PROCEDURES, IMPLEMENTATION' ARE RELEVANT TO THE PROJECT, AND ADD THE APPROPRIATE SPECIFICATIONS, REQUIREMENTS, AND ITEMS AS NECESSARY TO COMPLY WITH THE STATUTE.

2\*\*\*\*\*2

2\*\*\*\*\*2

BDC21S-04 DATED AUG 23, 2021

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure that materials furnished for the Project are new, unless otherwise specified in the Contract. Comply with 2 CFR 200.323 – Procurement of recovered materials, ensuring that materials furnished for the Project contain, “the highest percentage of recovered materials practicable,” where the purchase price of the covered item listed exceeds \$10,000. Use materials that conform to the requirements of the Contract. When required by the Contract, use only products and suppliers listed on the QPL. Use sources of materials that have been approved by the Department on a Materials Questionnaire as specified in 106.04.

2\*\*\*\*\*2

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

2\*\*\*\*\*2

BDC20S-14 DATED OCT 09, 2020

THE FOLLOWING IS ADDED TO THE END OF THE SUBSECTION:

For telecommunication and video surveillance services or equipment a certification is required to confirm that the telecommunication and video surveillance services or equipment are not from companies as listed in 2 CFR 200.216. Ensure that the certification includes the statement that all telecommunication and video surveillance services or equipment proposed in this project are not produced by companies as listed in 2 CFR 200.216.

2\*\*\*\*\*2

1\*\*\*\*\*1

**106.02 DEPARTMENT-FURNISHED MATERIAL**

1\*\*\*\*\*1

INCLUDE THE TYPE OF MATERIALS AND THEIR LOCATION

1\*\*\*\*\*1

**106.03 FOREIGN MATERIALS**

1\*\*\*\*\*1

BDC20S-14 DATED OCT 09, 2020

THE SUBSECTION HEADING IS CHANGED TO:

**106.03 FOREIGN MATERIALS AND EQUIPMENT**

1\*\*\*\*\*1

2\*\*\*\*\*2

**1. Wholly State Funded Projects**

FOR A WHOLLY STATE FUNDED PROJECT WHICH HAS FEDERAL FUNDS IN AN ASSOCIATED PROJECT COVERED BY THE SAME NEPA (NATIONAL ENVIRONMENTAL POLICY ACT) DOCUMENT, INCLUDE THE FOLLOWING:

**SME CONTACT – PROJECT MANAGER**

THE ENTIRE TEXT IS CHANGED TO:

Due to the requirements of MAP-21 (Moving Ahead for Progress in the 21st Century Act), comply with the Federal Aid Project requirements specified under Subpart 2.

2\*\*\*\*\*2

BDC22S-14 DATED DEC 16, 2022

**2. Federal Aid Projects.**

THE FOLLOWING IS ADDED:

Comply with the Infrastructure Investment and Jobs Act (“IIJA”), Pub. L. No. 117-58, which includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§ 70901-52. Comply with IIJA’s three categories: iron and steel, manufactured products, and construction materials:

- a. Ensure all iron and steel used in the project are produced in the United States. Ensure all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- b. Ensure all manufactured products as defined by IIJA are exempted from the Buy America requirements pursuant to 48 FR 50399 (1983) which excludes manufactured products from 23 CFR 635.410.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

- c. Ensure all construction materials are manufactured in and manufacturing processes occurred in the United States. Construction materials includes an article, material, or supply - other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives – that is or consists primarily of non-ferrous metals, plastic and polymer-based products (including PVC, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber or drywall. Items that consist of two or more of the listed materials that have been combined through a manufacturing process, and items that include at least one of the listed materials combined with a material that is not listed through a manufacturing process, should be treated as manufactured products, rather than as construction materials.

2\*\*\*\*\*2

**FOR A WHOLLY STATE FUNDED PROJECT WHICH HAS NO FEDERAL FUNDS PERFORM THE FOLLOWING:  
SME CONTACT – PROJECT MANAGER**

REMOVE SECTION **106.03.2 Federal Aid Projects**

2\*\*\*\*\*2

**BDC20S-14 DATED OCT 09, 2020**

THE FOLLOWING IS ADDED TO THE END OF THE SUBSECTION:

Comply with 2 CFR 200.216 Prohibition on Certain Telecommunication and Video Surveillance Services or Equipment.

Do not provide Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities). Do not provide video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities). Do not provide Telecommunications or video surveillance services provided by such entities or using such equipment.

Do not provide Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Do not provide any equipment assembled by others that has an integral component that was manufactured and supplied by the aforementioned companies.

2\*\*\*\*\*2

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**106.07.02 Certification for Iron and Steel**

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**BDC22S-14 DATED DEC 16, 2022**

THE HEADING AND THE ENTIRE SUBPART IS CHANGED TO:

**106.07.02 Certification for Iron and Steel, and Construction Materials**

- A. Precast Concrete Steel and Concrete Pipe Certification of Compliance.** For precast concrete and concrete pipe items, a Buy America Compliance Plan is required to confirm that the material meets the Buy America requirements and the Infrastructure Investment and Jobs Act (“IIJA”), Pub. L. No. 117-58, which includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§ 70901-52 as specified in 106.03. The ME will periodically audit compliance with the program at the precast plant. If the precast concrete item is not inspected by ME, submit a

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Certification of Compliance for the precast concrete item as required in 106.07.01. When a Certification of Compliance is submitted, ensure that the Certification of Compliance contains a statement that the reinforcing steel used in the precast concrete item complies with the Buy America requirements and the Infrastructure Investment and Jobs Act (“IIJA”), Pub. L. No. 117-58, which includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§ 70901-52 as specified in 106.03.

**B. Certification for Construction Materials.** For construction materials, a Buy America Compliance Plan is required to confirm that the material meets the Infrastructure Investment and Jobs Act (“IIJA”), Pub. L. No. 117-58, which includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§ 70901-52 as specified in 106.03. When a Certification of Compliance is submitted, ensure that the Certification of Compliance contains a statement that the construction materials used complies with the Infrastructure Investment and Jobs Act (“IIJA”), Pub. L. No. 117-58, which includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§ 70901-52 as specified in 106.03.

**C. Step Certification of Compliance.** For products that contain steel or iron components and are not covered in 106.07.02.A, step Certification of Compliance is required to confirm that the item meets the Buy America requirements and the Infrastructure Investment and Jobs Act (“IIJA”), Pub. L. No. 117-58, which includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§ 70901-52 as specified in 106.03. A step certification is a process under which each handler (e.g., supplier, fabricator, manufacturer, processor, coating facility) of the iron and steel components certifies that the steel and iron components were of domestic origin, and that their step in the process was domestically performed.

Every step in the process from melting to coating must be performed in the United States in order for the steel or iron component to be considered domestic and must be documented by step certification. If a domestic source for a steel or iron component cannot be found, submit a request for waiver to the Department. Do not purchase non-domestic steel or iron components without the express written consent of the Department.

Ensure that 3 copies of the Contractor’s Certification of Compliance (Form DC-17) and the step Certifications of Compliance are provided for items containing steel or iron. Retain 1 copy and submit 2 copies to the RE. The Contractor may submit the DC-17 and the step certifications electronically in a scanned document.

Ensure that step Certifications of Compliance contain the following information:

1. Name of the Company supplying the material.
2. Name and location of the Company the material was shipped to.
3. Material description.
4. Quantity of material represented by the Certification.
5. Means of identifying the consignment, such as label marking or seal number.
6. Date and method of shipment.
7. A statement that the material conforms to the Contract material requirements and to the Buy America requirements in 106.03 and the Infrastructure Investment and Jobs Act (“IIJA”), Pub. L. No. 117-58, which includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§ 70901-52.
8. A statement that all steel or iron components in the material or assembly were “melted and manufactured in the US”, unless there is non-domestic steel or iron in the material or assembly.
9. If there is non-domestic steel or iron in the assembly, describe in detail the non-domestic steel or iron material and the quantity. Attach a copy of the Department’s approval for the use of non-domestic steel or iron components.
10. Signature of a person having legal authority to bind the supplier.
11. Typed or printed name of the person who signed the certification.

The Department will not make payment for work containing steel or iron materials until the RE has received the required DC-17 and step Certifications of Compliance, has inspected and accepted the material or assembly.

↑\*\*\*\*\*↑

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**106.09 SUBSTITUTES FOR PROPRIETARY ITEMS**

1\*\*\*\*\*1  
2\*\*\*\*\*2  
CONTACT THE APPROPRIATE SMES TO DETERMINE IF A SUBSTITUTE PROPRIETARY ITEM OR THE NAME OF A PARTICULAR SUPPLIER WILL NOT BE PERMITTED FOR A WORK. SPECIFY IN THE APPROPRIATE SUBSECTION WHERE THE INTENDED WORK IS SPECIFIED, AS FOLLOWS:  
2\*\*\*\*\*2  
2\*\*\*\*\*2  
INCLUDE "No substitution is permitted" STATEMENT IN THE APPROPRIATE SUBSECTION WHEN A SUBSTITUTION IN SUCH WORK IS NOT PERMITTED  
FOR EXAMPLE: IF A PROPRIETARY FENCE MATERIAL IS NEEDED, THEN INCLUDE THE "No substitution is permitted" STATEMENT IN SUBSECTION 605.02.01.  
2\*\*\*\*\*2  
1\*\*\*\*\*1

**106.10 USE OF UNITED STATES FLAG VESSELS**

INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

THE ENTIRE TEXT IS CHANGED TO: This section intentionally left blank.

**SECTION 107 – LEGAL RELATIONS**

1\*\*\*\*\*1

**107.11 RISKS ASSUMED BY THE CONTRACTOR**

**107.11.01 Risks**

1\*\*\*\*\*1

**1. Damage Caused by the Contractor.**

FOR PROJECTS WITHIN THE LIMITS NOTED BELOW, THE DESIGNER SHALL INCLUDE THE FOLLOWING ADDITIONAL CLAUSE WITH THE RESPECTIVE LIMITS FOR THAT PROJECT. IF WORKING WITHIN THE VICINITY OF THE TURNPIKE, GARDEN STATE PARKWAY, OR ATLANTIC CITY EXPRESSWAY, NOTE THOSE ALSO.

- RT 38 MP 0.5 TO 9.5
- RT 42 MP 6.3 TO 13.3
- RT 70 MP 0.0 TO 5.4
- I-80 MP 57.5 TO 68.3
- I-295 MP 40.6 TO 67.79
- I-95 MP 0.58 TO 8.77
- I-195 MP 0.00 TO 6.25

THE FOLLOWING IS ADDED:

For any damages by the Contractor to the fiber optic network along Route \_\_\_\_, MP \_\_\_\_, also notify the G4S Technology LLC at 877-637-2344 within 2 hours. Only G4S Technology LLC will be allowed to complete repairs on that respective section of the fiber optic network. Directly pay G4S Technology LLC within 30 days from the receipt of G4S Technology LLC's invoice for such repairs, and provide the RE with a copy of the

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

transmittal letter. If the Contractor does not make payment within 30 days, the Department may recover the costs incurred for repairs from the Contract.

1\*\*\*\*\*1

**107.11.02 General Insurance**

**B. Types**

1\*\*\*\*\*1

2\*\*\*\*\*2

**1. Comprehensive General Liability Insurance.**

**IF JCP&L RELATED UTILITY WORK IS TO BE PERFORMED, ADD THE FOLLOWING:**

THE FOLLOWING IS ADDED:

Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

2\*\*\*\*\*2

2\*\*\*\*\*2

**2. Comprehensive Automobile Liability Insurance.**

**IF JCP&L RELATED UTILITY WORK IS TO BE PERFORMED, ADD THE FOLLOWING:**

THE FOLLOWING IS ADDED:

Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

2\*\*\*\*\*2

2\*\*\*\*\*2

**5. Excess Liability Insurance.**

**IF JCP&L RELATED UTILITY WORK IS TO BE PERFORMED, ADD THE FOLLOWING:**

THE FOLLOWING IS ADDED:

Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

2\*\*\*\*\*2

1\*\*\*\*\*1

**107.12 THE CONTRACTUAL CLAIM RESOLUTION PROCESS**

**PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS**

REPLACE THIS SECTION WITH: This section intentionally left blank.

1\*\*\*\*\*1

**107.13 LITIGATION OF CLAIMS BY THE CONTRACTOR**

**PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

REPLACE THIS SECTION WITH: The Department will not participate in litigation between the RE and the Contractor.

1\*\*\*\*\*1

**107.14 PATENED DEVICES, AMTERIALS, AND PROCESSES**

PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

REMOVE THE SECOND PARAGRAPH OF THIS SECTION

1\*\*\*\*\*1

**107.15 TAXES**

PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

REVISE THE THIRD SENTENCE OF THE FIRST PARAGRAPH OF THIS SECTION TO: The sales tax exemption does not apply to equipment used for Contract work.

1\*\*\*\*\*1

**SECTION 108 – PROSECUTION AND COMPLETION**

**108.01 SUBCONTRACTING**

1\*\*\*\*\*1

INCLUDE DETAILS, IN THE APPROPRIATE SECTIONS, REGARDING: SPECIALIZED KNOWLEDGE, EXPERIENCE, CRAFTSMANSHIP, AND/OR EQUIPMENT REQUIRED. THE SUBCONTRACTOR MUST BE QUALIFIED TO PERFORM CERTAIN SPECIALTY ITEMS (SUCH AS: SEGMENTAL BRIDGE, DRILLED SHAFTS, BLASTING, ETC.).

1\*\*\*\*\*1

2\*\*\*\*\*2

FOR A WHOLLY STATE FUNDED PROJECT, PERFORM THE FOLLOWING:

REMOVE SENTENCE FOUR OF PARAGRAPH TWO OF THIS SECTION.

2\*\*\*\*\*2

**1. Values and Quantities.**

1\*\*\*\*\*1

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

a.

LIST "SPECIALTY ITEMS"  
ITEMS MAY BE CONSIDERED "SPECIALTY ITEMS" DUE TO SPECIALIZED KNOWLEDGE, CRAFTSMANSHIP, OR EQUIPMENT REQUIRED TO PERFORM THE WORK. OBTAIN APPROVAL OF APPROPRIATE SME.

2\*\*\*\*\*2

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



SELECT ONE OF THE FOLLOWING.

There are no Specialty Items in this Project.

\*\*\*\*\*OR\*\*\*\*\*

Specialty Items are as listed below:

3\*\*\*\*\*3  
SME CONTACT – GEOTECHNICAL ENGINEERING

3\*\*\*\*\*3  
SELECT APPROPRIATE ITEM(S).

SME CONTACT – TRAFFIC SIGNAL AND SAFETY ENGINEERING

Above ground highway lighting items.

\*\*\*\*\*AND/OR\*\*\*\*\*

Above ground sign lighting items.

\*\*\*\*\* AND/OR \*\*\*\*\*

Above and below bridge deck lighting items.

\*\*\*\*\* AND/OR \*\*\*\*\*

Electrical wire items.

3\*\*\*\*\*3

3\*\*\*\*\*3

SME CONTACT – MOBILITY AND SYSTEMS ENGINEERING (MSE)

ITS items, except for foundations, standards, and junction boxes.

3\*\*\*\*\*3

3\*\*\*\*\*3

LIST ADDITIONAL "SPECIALTY ITEMS"  
AS APPROVED BY THE SME

3\*\*\*\*\*3

2\*\*\*\*\*2

1\*\*\*\*\*1

PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS:

REMOVE PARAGRAPH FOUR OF SECTION 108.01

REVISE SECTION 108.01.3.a TO THE FOLLOWING:

a. Federal Aid Projects. This section intentionally left blank.

1\*\*\*\*\*1

1\*\*\*\*\*1

BDC22S-10 DATED AUG 03, 2022

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**108.07.01 Interference**

THE SECOND PARAGRAPH IS CHANGED TO:

Schedule and perform the Work so that successive construction operations and lane or roadway openings follow preceding operations as closely as possible. Limit work zones according to the Special Provisions. Confine construction operations adjacent to traffic to one side of the roadway at a time unless otherwise specified by the Contract. Where the Work is performed in stages adjacent to traffic, ensure that the road opened to traffic adequately accommodates traffic. Do not interfere with existing traffic access, except when required to perform the Work or as approved by the RE.

2\*\*\*\*\*2  
COMPLETE AND INCLUDE THE FOLLOWING MAXIMUM WORK ZONE RESTRICTIONS AS APPLICABLE. THE LIMITS SHOULD MATCH ASSUMPTIONS USED TO CALCULATE TRAFFIC CONTROL QUANTITIES. DELETE ANY REMAINING STATEMENTS.

**SME CONTACT – TRAFFIC CONTROL DESIGNER (ROADWAY DESIGN)**

- A. Limit work zone to \_\_\_\_ lane miles per day, unless otherwise approved by the RE.
- B. Limit the number of work zones to a maximum of \_\_\_\_ concurrently.

2\*\*\*\*\*2  
1\*\*\*\*\*1  
1\*\*\*\*\*1

INCLUDE THE FOLLOWING IF LANE RENTAL IS NECESSARY OTHERWISE DELETE.

**SME CONTACT – TRAFFIC OPERATIONS (TO OBTAIN ALLOWABLE HOURS)  
SME CONTACT – ROAD USER SOLUTIONS (TO OBTAIN RENTAL RATE)**

THE FOLLOWING NEW SUBPART IS ADDED:

**108.07.03 Lane Rental**

Lane and shoulder closures are restricted to the schedule provided in the Traffic Control Details of the plans, and as specified in 108.07.01. The Contractor may extend the allowable hours for lane and shoulder occupancy as provided by Table 108.07.03-1 with the RE’s written approval. Submit a written request to the RE to rent lanes and shoulders for an extended period at least 14 days prior to the anticipated use. In the request, provide the following information:

- 1. Route, direction, and milepost limits
- 2. Closure Description (Lane type/shoulder)
- 3. Date(s)/Days
- 4. Start Time(s)
- 5. Finish Time(s)
- 6. Reason
- 7. Calculation of Lane Rental Cost for each closure

The Department will assess the lane rental charge for each hour the Contractor occupies a lane in accordance with Table 108.07.03-1. If the Contractor does not occupy the lane during the extended hours, the Department will not assess a lane rental charge. If the Contractor occupies the lane for fewer hours than requested, the Department will only assess a lane rental charge for the time that the Contractor has actually occupied the lane. If the Contractor occupies a lane for a portion of an hour, the Department will round the occupancy time to the next highest half hour.

The Department will assess a lane rental charge for lane and/or shoulder occupancy of the roadway at the rates provided in Table 108.07.03-1.

2\*\*\*\*\*2

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

COMPLETE AND INCLUDE THE APPROPRIATE LANE RENTAL CHARGE INFORMATION.

**SME CONTACT – TRAFFIC OPERATIONS (TO OBTAIN ALLOWABLE HOURS)**  
**SME CONTACT – ROAD USER SOLUTIONS (TO OBTAIN RENTAL RATE)**

Table 108.07.03-1 Lane Rental Availability and Charge						
Roadway	Direction	Closure Description	Closure Time			Rental Time
			Day(s)	Start Time	Finish Time	\$ per hour
				Hours	Hours	

2\*\*\*\*\*2

Do not occupy a lane or shoulder beyond the RE’s approved extension of the allowable hours for lane and shoulder occupancy. If the Contractor’s lane closure exceeds the allowable time period, the Department will assess Lane Occupancy Charges in accordance with 108.08.

1\*\*\*\*\*1

**108.08 LANE OCCUPANCY CHARGES**

1\*\*\*\*\*1

BDC20S-03 DATED JUL 17, 2020

SUBSECTION IS RENAMED AND CHANGED TO:

**108.08 OCCUPANCY CHARGES**

The closure schedule shown in the plans indicates the time periods for allowable closures as specified in the Contract. Allowable closures are permitted for, but not limited to; roadways, lanes, shoulders and ramps. If the Contractor’s closures exceed these time periods, the Department will deduct from the monthly estimate an occupancy charge for the use and occupancy beyond the time periods shown in the closure schedule until such time that the closure is reopened to traffic or until such time that the closure is allowed to take place again under the closure schedule. The Department will recover the cost of occupancy charges as specified in 107.16.

The RE will keep record of each occurrence as well as the cumulative amount of time that a closure exceeds the time periods shown in the closure schedule and provide the record to the Contractor. The Department will calculate an occupancy charge by multiplying the length of time of each delayed opening, in minutes, by the rate of \$10 per minute, unless otherwise specified in the Special Provisions. The total amount per day for occupancy charges that the Department will collect will not exceed \$10,000.00.

The Department will waive an occupancy charge where a closure is not reopened to traffic as specified in the closure schedule directly and solely by reason of extraordinary, exigent circumstances not under the control of or reasonably foreseeable by the Contractor. Equipment breakdowns, supplier deliveries, and weather related hindrances are not extraordinary, exigent circumstances. However, the Department has the right to assess an occupancy charge for any period of time that a closure remains closed beyond the reasonable period of time needed by the Contractor to reopen a closure due to an extraordinary, exigent circumstance.

1\*\*\*\*\*1

1\*\*\*\*\*1

INCLUDE APPROPRIATE LANE OCCUPANCY CHARGE INFORMATION.

**SME CONTACT – ROAD USER SOLUTIONS**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

THE FOLLOWING IS ADDED:

The rate to calculate the Occupancy Charge is as follows:

Description	Rate
-------------	------

1\*\*\*\*\*1

**108.10 CONTRACT TIME**

1\*\*\*\*\*1

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING WHEN DATES ARE SPECIFIED.  
DELETE "A", IF NOT APPLICABLE, AND REASSIGN APPROPRIATE LETTER TO THE REMAINING STATEMENTS.

**SME CONTACT – CONSTRUCTION MANAGEMENT AND REGIONAL CONSTRUCTION ENGINEER**

- A. Complete all work required for Interim Completion for \_\_\_\_\_ on or before \_\_\_\_\_.
- B. Complete all work required for Substantial Completion on or before \_\_\_\_\_.
- C. Achieve Completion on or before \_\_\_\_\_.

2\*\*\*\*\*2

\*\*\*\*OR\*\*\*\*

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING WHEN A NUMBER OF DAYS ARE SPECIFIED.  
DELETE "A", IF NOT APPLICABLE, AND REASSIGN APPROPRIATE LETTER TO THE REMAINING STATEMENTS.

**SME CONTACT – CONSTRUCTION MANAGEMENT AND REGIONAL CONSTRUCTION ENGINEER**

FOR TRANSPORTATION SYSTEMS MANAGEMENT (TSM) LEAD ITS PROJECTS, CONTACT MSE FOR THE NEED OF ITS BURN-IN PERIOD FOR ITS SYSTEM TESTING.

**SME CONTACT – MOBILITY AND SYSTEMS ENGINEERING (MSE)**

- A. Complete all work required for Interim Completion for \_\_\_\_\_ in \_\_\_\_\_ days.
- B. Complete all work required for Substantial Completion in \_\_\_\_\_ days.
- C. Achieve Completion in \_\_\_\_\_ days.

2\*\*\*\*\*2

\*\*\*\*OR\*\*\*\*

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING WHEN A NUMBER OF WORKING DAYS ARE SPECIFIED.  
DELETE APPROPRIATE PART(S), IF NOT APPLICABLE, AND REASSIGN APPROPRIATE LETTER TO THE REMAINING STATEMENTS

**SME CONTACT – CONSTRUCTION MANAGEMENT AND REGIONAL CONSTRUCTION ENGINEER**

FOR TSM LEAD ITS PROJECTS, CONTACT MSE FOR THE NEED OF ITS BURN-IN PERIOD FOR ITS SYSTEM TESTING.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SME CONTACT – MOBILITY AND SYSTEMS ENGINEERING (MSE)**

- A. Complete all work required for Interim Completion for \_\_\_\_\_ in \_\_\_\_\_ working days.
- B. Complete all work required for Substantial Completion in \_\_\_\_\_ working days.
- C. Achieve Completion in \_\_\_\_\_ working days.

2\*\*\*\*\*2  
 1\*\*\*\*\*1

**108.11.01 Extensions to Contract Time**

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FOR WHOLLY STATE FUNDED PROJECTS, PERFORM THE FOLLOWING:

**108.11.01.A**

REVISE THE SECOND PARAGRAPH TO:

The Department will not extend Contract Time due to Extra Work or other type of delay unless an approved progress schedule and updates are current as specified in 153.03. The Department will not make payment for delay damages, unless an approved progress schedule and updates are current as specified in 153.03.

2\*\*\*\*\*2

**B. Types of Delays.**

**2. Excusable, Non-Compensable Delays.**

**b. Utilities.**

INCLUDE THE FOLLOWING, IF THE PROJECT DURATION IS LESS THAN 1 YEAR AND AMOUNT OF DURATION OF UTILITY WORK PERFORMED BY UTILITY COMPANY IS MINOR. SUBJECT TO REVIEW AND APPROVAL OF SME

**SME CONTACT – PROJECT MANAGER**

THE LAST PARAGRAPH IS CHANGED TO:

If approved excusable, non-compensable delays exceed a total of 90 days, the time in excess of 90 days will become excusable and compensable as specified in 108.11.01.B.3.

2\*\*\*\*\*2

FOR WHOLLY STATE FUNDED PROJECTS, PERFORM THE FOLLOWING:

CHANGE SECTION **108.11.01.B.3** TO:

**3. Excusable, Compensable Delays.** Excusable, compensable delays are delays that are the Department’s fault or responsibility. For excusable, compensable delays, the Department will grant an extension of Contract Time and will make payment for delay damages.

CHANGE SECTION **108.11.01.B.4** TO:

**4. Concurrent Delays.** Concurrent delays are separate delays on the critical path that occur at the same time. When an excusable, non-compensable delay is concurrent with an excusable, compensable delay, the Department will grant an extension of Contract Time but will not make payment for delay damages. When a non-excusable delay

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

is concurrent with an excusable delay, the Department will not grant an extension of Contract Time or make payment for delay damages.

\*\*\*\*\*2\*\*\*\*\*

C. **Submitting Time Impact Evaluation.** If an excusable delay occurs, notify the RE, detailing how the event or cause is affecting the approved progress schedule that is current at the time the delay occurred. When the full extent of the impact on the approved progress schedule can be determined, submit a request for an extension of Contract Time to the RE with a Time Impact Evaluation Form and a CPM fragnet diagram including all additional work, and the fragnet’s relationship to the approved progress schedule that is current at the time the delay occurred. Clearly identify how each change or delay is represented by an activity or group of activities. Ensure that the fragnet shows logic revisions, duration changes, and new activities, including the predecessor and successor relationships.

The Contractor is considered to have waived its rights to claim an extension of Contract Time, if the Contractor fails to provide written notice or fails to provide the time impact evaluation.

The RE will evaluate the time impact evaluation. The Department will only extend Contract Time when delay causes the work to be extended beyond the scheduled Contract Time as specified in 108.10. If the Contractor is already behind schedule and an excusable delay delays the work beyond the Contract Time as specified in 108.10, the Department will only extend Contract Time for the amount of time that directly results from the excusable delay. If the Department determines that an extension of Contract Time is warranted, the Department will extend Contract Time by a Change Order.

For excusable, compensable delays, submit a request for and documentation supporting the entitlement to compensable delay damages associated with the delay.

\*\*\*\*\*1\*\*\*\*\*

**108.12 RIGHT-OF-WAY RESTRICTIONS**

\*\*\*\*\*1\*\*\*\*\*

COMPLETE AND INCLUDE THE FOLLOWING WHEN ROW HAS NOT BEEN SECURED FOR THOSE PARCELS. PROVIDE ANTICIPATED DATES OF AVAILABILITY.

**SME CONTACT – PROJECT MANAGER**

The Department has not obtained the following ROW parcels. The anticipated availability dates are provided:

Properties and Vacation/Availability Dates			
Demolition and/or Parcel No.	Approximate Baseline Station	Offset/Direction	Date

\*\*\*\*\*1\*\*\*\*\*

**108.14 DEFAULT AND TERMINATION OF CONTRACTOR’S RIGHT TO PROCEED**

\*\*\*\*\*1\*\*\*\*\*

COMPLETE AND INCLUDE THE FOLLOWING IF START OF WORK IS RESTRICTED BY DEPARTMENT ACTION

**SME CONTACT – PROJECT MANAGER**

LIST ITEM (1) OF THE FIRST PARAGRAPH IS CHANGED TO:

1. Fails to begin construction operations within \_\_ days of execution of the Contract.

\*\*\*\*\*1\*\*\*\*\*

**108.15 TERMINATION OF CONTRACT**

FOR WHOLLY STATE FUNDED PROJECTS, PERFORM THE FOLLOWING:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**108.15.02 For Cause**

REVISE PARAGRAPH FIVE TO:

The Department will not make payment for profit and overhead not included in the Contract price for Items for work completed or partially completed except that the Department may make payment for profit and overhead on work.

1\*\*\*\*\*1

**108.19 COMPLETION AND ACCEPTANCE**

1\*\*\*\*\*1

INCLUDE SPECIFICATION PRIOR TO THE FINAL DESIGN SUBMISSION FOR INCENTIVE PAYMENT.  
IF NO INCENTIVE PAYMENT FOR EARLY COMPLETION IS TO BE SPECIFIED INCLUDE THE  
FOLLOWING:

**SME CONTACT – ROAD USER SOLUTIONS**

THE FOLLOWING IS ADDED:

No Incentive Payment for Early Completion is specified for this project.

1\*\*\*\*\*1

**108.20 LIQUIDATED DAMAGES**

1\*\*\*\*\*1

OBTAIN ROAD USER COST

**SME CONTACT – ROAD USER SOLUTIONS**

OBTAIN CONSTRUCTION ENGINEERING COST

**SME CONTACT – CONSTRUCTION MANAGEMENT**

SELECT APPROPRIATE CONDITION FROM THE FOLLOWING LIST

Liquidated damages are as follows:

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING.  
DELETE APPROPRIATE PART(S), IF NOT APPLICABLE AND REASSIGN APPROPRIATE LETTER TO  
THE REMAINING STATEMENTS

- A. For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Interim Completion, the Department will assess liquidated damages in the amount of \$ \_\_\_\_\_.  
**USE ONLY THE ROAD USER COST**
- B. For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Substantial Completion, the Department will assess liquidated damages in the amount of \$ \_\_\_\_\_.  
**FULL TRAFFIC ACCESS NOT ACHIEVED – USE THE TOTAL COST OF THE ROAD USER AND CONSTRUCTION ENGINEERING COSTS.**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Substantial Completion but has completed the work as specified for Full Traffic Access, the Department will assess liquidated damages in the amount of \$\_\_\_\_\_.

**FULL TRAFFIC ACCESS ACHIEVED – USE ONLY THE CONSTRUCTION ENGINEERING COST**

C. For each day that the Contractor fails to achieve Completion as specified in Subsection 108.10 of these Special Provisions, the Department will assess liquidated damages in the amount of \$\_\_\_\_\_.

**USE ONLY THE CONSTRUCTION ENGINEERING COST DIVIDED BY 2.**

**2\*\*\*\*\*2**

**1\*\*\*\*\*1**

**SECTION 109 – MEASUREMENT AND PAYMENT**

**109.01 MEASUREMENT OF QUANTITIES**

**1\*\*\*\*\*1**

**BDC21S-01 DATED MAR 08, 2021**

THE LAST PARAGRAPH IS CHANGED TO:

The Department does not typically measure quantities for Proposal Items, except quantities designated on the Plans as “if and where directed,” for payment. The Contractor or the RE can measure Proposal Items for payment. If making a measurement for a change in payment, submit drawings, calculations, and other information demonstrating the as-built quantity to the party not initiating measurement. If the difference between the measured quantity and the Contract quantity is less than or equal to 10 percent of the Proposal quantity, the Department will make payment based on the Contract quantity. If the difference is more than 10 percent of the Contract quantity, the Department will make payment based on the measured quantity. For each Item that the Contractor requests a Proposal Item be measured, and it is determined that the difference between the quantity measured and the Contract quantity is less than or equal to 10 percent of the Proposal quantity, the Department will deduct \$500.00. The Department will measure quantities for Proposal Items that are designated on the Plans as “if and where directed” for payment when the RE directs work using the “if and where directed” quantity.

**1\*\*\*\*\*1**

**1\*\*\*\*\*1**

**FOR WHOLLY STATE FUNDED PROJECTS, MAKE THE FOLLOWING CHANGES**

REVISE THE ENTIRE TEXT OF SECTION **109.03** TO THE FOLLOWING:

**109.03 PAYMENT FOR FORCE ACCOUNT**

This section intentionally left blank.

**1\*\*\*\*\*1**

**FOR WHOLLY STATE FUNDED PROJECTS, MAKE THE FOLLOWING CHANGES**

**109.04 PAYMENT FOR DELAY DAMAGES**

REVISE THE FIRST SENTENCE OF SECTION **109.04** TO:

For eligible extensions, the department will make payment for the costs allowed based on the following documentation submitted by the contractor:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



1\*\*\*\*\*1

**109.05 ESTIMATES**

**INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS**

2\*\*\*\*\*2

**BDC20S-07 DATED MAY 29, 2020**

THE FOURTH PARAGRAPH IS CHANGED TO:

The RE will provide a summary of the Estimate to the Contractor. Before the issuance of each payment, certify, on forms provided by the Department, whether:

1. No subcontractor or supplier was used on the project; or
2. Each subcontractor and supplier used on the project has been paid the amount due, excluding retainage, from the previous progress payment and will be paid the amount due from the current progress payment, excluding retainage, for the subcontractor or supplier's work that was paid by the Department; or
3. There exists a valid basis under the terms of the subcontractor's or supplier's contract to withhold payments from the subcontractor or supplier. Therefore, the following subcontractors and suppliers have not been paid for work performed or materials supplied to the project from the proceeds of the previous progress payment or will not be paid for work performed or materials supplied to this project from the proceeds of the current progress payment, or both.

2\*\*\*\*\*2

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**INCLUDE THE FOLLOWING FOR WHOLLY LANDSCAPE PROJECTS**

**SME CONTACT – LANDSCAPE ARCHITECTURE**

THE THIRTEENTH PARAGRAPH IS CHANGED TO:

In the first Estimate following installation of all landscape work, the Department will reduce the retainage withheld to 1 percent of the Total Adjusted Contract Price, unless it has been determined by the Department that the withholding of additional retainage is required. If retainage is held in cash withholdings, the reduction is to be accomplished by payment under the next Estimate. If retainage is held in bonds, the Department will authorize a reduction in the escrow account.

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**109.06 MATERIALS PAYMENTS AND STORAGE**

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**BDC22S-19 DATED DEC 28, 2022**

THE SUBSECTION IS CHANGED TO:

The Contractor may request payment for the cost of materials, including the storage cost, not incorporated into the Work. If approved by the RE, the Department will make payment for the cost of materials, including storage costs if such payment exceeds \$25,000.00; however, the amount of payment may not exceed 85 percent of the bid price for the associated Item. The Department may also direct the Contractor to purchase materials ahead of schedule for this purpose. The Department will not make payment for such materials until the RE is satisfied that:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

1. The Contractor has properly stored and protected materials within the Project Limits or at locations owned or leased by the Contractor or the Department within the State, except that the Contractor may store structural steel outside the State with the prior approval of the Department. Provide and comply with manufacturers', suppliers', and fabricators' storing and handling recommendations for each material, as specified in 108.04.
2. The ME has inspected the materials and they appear to be acceptable based upon available supplier's certification and materials test reports.
3. The Contractor has provided the RE with the paid invoice or paid bill of sale for the materials and a fully executed Release of Liens for Materials Stored for Incorporation in Department of Transportation Project Form, including the transfer of ownership to the Department.
4. For material stored on property not belonging to the Department, the material is stored in a fenced area with access limited to the Department and the Contractor. Additionally, the Contractor has posted a sign at the location clearly identifying, and printed in large letters, that the materials are without encumbrances and are to be solely used for the Project.
5. When materials are stored in a leased area, the lease is made out to the Contractor and provides that it shall be canceled only with the written permission of the Department. Submit a copy of the lease to the RE.

Payment for materials does not constitute Department approval or Acceptance of the materials or work. If materials paid for are damaged, stolen, or prove to be unacceptable, the Department has the right to recover the costs from the Contractor. Stored materials are not to be removed from storage except for incorporation into the project. The Department will not make payment for plant materials until they are planted or installed.

↑\*\*\*\*\*↑

**109.09 AUDITS**

**INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS**

THE FIRST SENTENCE IS REVISED TO:

All claims filed are subject to audit at any time following the filing, whether or not part of a suit pending in the courts of this State pursuant to N.J.S.A. 59:13-1, et seq.

↑\*\*\*\*\*↑

**109.11 FINAL PAYMENT AND CLAIMS**

**PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS**

REVISE THE FOURTH PARAGRAPH TO THE FOLLOWING:

Include in the release the specific monetary amounts and the specific nature of the claims being reserved. Failure to state specific monetary amounts and the specific nature of the claim shall result in a waiver of such claims. The Contractor may reserve only those claims properly filed with the Department and not previously resolved. The Contractor waives all claims for which the required notice has not been filed with the Department.

↑\*\*\*\*\*↑

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

# DIVISION 150 – CONTRACT REQUIREMENTS

## SECTION 152 – INSURANCE

### 152.03.01 Railroad Protective Liability Insurance

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2\*\*\*\*\*2  
INCLUDE THE FOLLOWING WHEN RAILROAD INSURANCE IS REQUIRED.

#### SME CONTACT – PROJECT MANAGER

Procure and maintain insurance coverage for the following railroad(s):

3\*\*\*\*\*3  
INCLUDE THE APPROPRIATE RAILROAD(S).

National Railroad Passenger Corporation (AMTRAK)  
\*\*\*\*\*AND/OR\*\*\*\*\*

Consolidated Rail Corporation (CONRAIL)  
\*\*\*\*\*AND/OR\*\*\*\*\*

New Jersey Transit Rail Operations  
\*\*\*\*\*AND/OR\*\*\*\*\*

New York Susquehanna & Western Railway Corporation (NYS&W)  
3\*\*\*\*\*3

2\*\*\*\*\*2

2\*\*\*\*\*2  
LIST THE NAME AND ADDRESS OF THE RAILROAD COMPANY REPRESENTATIVE

2\*\*\*\*\*2

2\*\*\*\*\*2  
COMPLETE AND INCLUDE THE PERCENTAGE OF PROJECT COST WITHIN RAILROAD ROW

It is estimated that \_\_\_ percent of the Project cost is located within or adjacent to the railroad ROW.

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## SECTION 153 – PROGRESS SCHEDULE

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CHOOSE “BAR CHART PROGRESS SCHEDULE AND UPDATES” ONLY IF TOTAL CONTRACT PRICE IS  
BELOW 2 MILLION DOLLARS AND THE CONSTRUCTION DURATION IS LESS THAN 9 MONTHS.  
CONFIRM WITH THE DEPARTMENT

#### SME CONTACT – PROJECT MANAGER

2\*\*\*\*\*2  
MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS

### 153.03.01 CPM PROGRESS SCHEUDLE

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

REVISE THE SIXTH PARAGRAPH TO:

The progress schedule does not constitute notice and does not satisfy the notice requirements. Approval of the schedule by the RE does not modify the contract or constitute acceptance of the feasibility of the contractor’s logic, activity durations, or assumptions used in creating the schedule. If the schedule reflects a completion date different than that specified in 108.10, this does not change the specified completion date. If the re approves a schedule that reflects a completion date earlier than that specified as the contract time, the department will not accept claims for additional contract time or compensation as the result of failure to complete the work by the earlier date shown on the CPM schedule. Float is the amount of time that an activity may be delayed from its early start without delaying completion. Float belongs to the project and is not for the exclusive use of the contractor or the department.

2\*\*\*\*\*2  
MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS

**153.03.03 BAR CHART PROGRESS SCHEULE UPDATE**

REVISE THE THIRD PARAGRAPH TO:

Approval of the schedule by the RE does not modify the Contract or constitute Acceptance of the feasibility of the Contractor’s logic, activity durations, or assumptions used in creating the schedule. The progress schedule does not constitute notice and does not satisfy the notice requirements. Provide 3 color paper copies of a bar chart progress schedule or similar type that is acceptable to the RE for approval as follows:

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**SECTION 155 – CONSTRUCTION FIELD OFFICE**

1\*\*\*\*\*1

MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS

REPLACE THIS SECTION WITH THE FOLLOWING:

This section intentionally left blank.

**SECTION 156 – MATERIALS FIELD LABORATORY AND CURING FACILITY**

1\*\*\*\*\*1

MAKE THE FOLLOWING REVISION FOR WHOLLY STATE FUNDED PROJECTS

REPLACE THIS SECTION WITH THE FOLLOWING:

This section intentionally left blank.

1\*\*\*\*\*1

**SECTION 157 – CONSTRUCTION LAYOUT AND MONUMENTS**

**157.03.02 Monument**

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

THE SUBPART IS CHANGED TO:

Comply with the Map Filing Law N.J.S.A. 46:26B-1 through 8 and N.J.A.C. 13:40-5.1 through 2. Set non-Department monuments according to the requirements of the agency. Set Department monuments at the specified location and elevation, and ensure that the monuments are held firmly in place. Excavate so that concrete for the monument base and sides can be placed against undisturbed in-situ material, ensuring that the base is wider than the shaft. If rock is encountered, drill into the rock to provide a rock socket to the satisfaction of the RE. Reuse excess excavated material as specified in 202.03.03.C.1. Place concrete, as specified in 504.03.02.D, and set the reinforcement steel and the monument marker at the time of the concrete pour. Ensure that the top surface of the monument is level, and the disk is in the true position. After the concrete has attained strength, punch the disk.

After the monuments have been set, obtain the current horizontal and vertical control datum values on the monument and submit these values, signed and sealed by the land surveyor, to the RE.

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**SECTION 158 – SOIL EROSION AND SEDIMENT CONTROL AND WATER QUALITY CONTROL**

**158.03.02 SESC Measures**

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**19. Oil-Only Emergency Spill Kit.**

PROVIDE OTHER TYPE EMERGENCY SPILL KIT, IF NEEDED

**SME CONTACT – ENVIRONMENTAL SOLUTIONS**

1\*\*\*\*\*1

**SECTION 159 – TRAFFIC CONTROL**

1\*\*\*\*\*1

PROVIDE SPECIFICATIONS FOR TEMPORARY ITS OR OTHER REQUIREMENTS, IF NECESSARY.

**SME CONTACT – TRAFFIC OPERATIONS CENTERS**

1\*\*\*\*\*1

**159.02.01 Materials**

1\*\*\*\*\*1

BDC22S-04 DATED MAY 13, 2022

THE FIRST ITEM IS CHANGED TO:

Tack Coat 64-22..... 902.01.01

1\*\*\*\*\*1

**159.02.02 Equipment**

1\*\*\*\*\*1

INCLUDE THE FOLLOWING EQUIPMENT IF THE REMOTELY OPERATED PVMS OR PORTABLE TRAILER MOUNTED CCTV CAMERA ASSEMBLY ARE NEEDED

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SME CONTACT – TRAFFIC OPERATIONS**

THE FOLLOWING IS ADDED TO THE LIST OF EQUIPMENT REFERENCES:

- Portable Variable Message Sign w/Remote Communication.....1001.04
- Portable Trailer Mounted CCTV Camera Assembly.....1001.05

1\*\*\*\*\*1

**159.03.01 Traffic Control Coordinator**

THE FIRST PARAGRAPH BEFORE THE LIST IS CHANGED TO:

Before starting Work, submit to the RE the name, training, work experience, and contact information of an employee assigned as the on-site Traffic Control Coordinator (TCC). The TCC must be certified as having successfully completed the Rutgers CAIT Traffic Control Coordinator Program, or an equivalent course as approved by the NJDOT Office of Capital Project Safety. The TCC must also successfully complete an approved Traffic Coordinator refresher course every 2 years. The TCC is a full-time position and the employee designated as TCC must be available on a 24 hour a day, 7 days a week basis. The TCC shall have the responsibility for and authority to implement and maintain all traffic operations for the Project on behalf of the Contractor. Ensure that the TCC is present at the work site at all times while the Work is in progress. The TCC’s responsibilities and duties shall include the following:

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**159.03.02 Traffic Control Devices**

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**BDC19S-10 DATED APR 30, 2020**

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure that FHWA category 1, 2, 3, and 4 traffic control devices (TCDs) conform to the requirements of the 2016 Edition of the Manual for Assessing Safety Hardware (MASH), except that TCDs manufactured on or before December 31, 2019 must have been purchased by the Contractor on or before December 31, 2019, and conform to the requirements of NCHRP 350, MASH 2009, or MASH 2016. Provide each device’s applicable MASH 2016, MASH 2009, or NCHRP 350 test results and FHWA Eligibility letter, if issued by the FHWA, to the RE. Provide the RE with the purchase date certification for devices not meeting the MASH 2016 requirements upon delivery to the site. Ensure that traffic control devices meet or exceed an acceptable condition as described in the ATSSA guide Quality Standards for Work Zone Traffic Control Devices. Traffic control devices need not be new but must be in good condition. Provide traffic control devices according to MUTCD.

2\*\*\*\*\*2

**2. Construction Barrier Curb.**

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**BDC19S-07 DATED FEB 28, 2020**

THE SECOND PARAGRAPH IS CHANGED TO:

At least 30 days before delivering construction barrier curb to the Project Limits, provide the RE notice that the barrier curb is available for inspection. Ensure the barrier curb is not stacked for this inspection. The RE will inspect the barrier curb, along with a Contractor representative, to determine what pieces are not approved for delivery to the Project Limits. Final determination of construction barrier approval will be made at the time of placement at the Project.

2\*\*\*\*\*2

**BDC20S-15 DATED JAN 15, 2021**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

PART (5) IS CHANGED TO:

- 5. **Temporary Crash Cushion.** Install inertial barrier systems as specified in 611.03.01. Install temporary compressive crash cushions as specified in 611.03.02. Immediately repair or replace crash cushions that become damaged or become inoperable. Begin repair or replacement of the temporary crash cushion within 1 hour of receiving notice of damage from the Department. Ensure that workers assigned to such repair or replacement work continuously until the temporary crash cushion is repaired or replaced. If the Contractor fails to respond to a damage notification and begin work within 1 hour of notification, or does not continue to work until the temporary crash cushion is repaired or replaced, the Department, will require closure of the adjacent live lane. Lane occupancy charges will be imposed as specified in 108.08 for the period of time the adjacent lane is closed. Should the Department have to respond to a repair with its own forces because of a Contractor’s lack of response to a damage notification, the Contractor agrees to pay the Department a sum of \$3,000 for costs of mobilizing its forces and equipment. In addition, the Contractor must pay the Department the actual cost of material used for the repair and pay the actual costs of police traffic protection. Maintain an adequate number of replacement parts to repair damaged units at all times. Keep the areas in front, atop, and around the crash cushions clear of snow accumulation of more than 4 inches in depth.

Upon removal of the crash cushion, cut anchor bolts at least 3 inches below the surface of the surrounding roadway. Repair HMA pavement as specified in 401.03.03. Repair concrete pavement as specified in Section 452.

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BDC22S-07 DATED AUG 01, 2022

PART 6 IS CHANGED TO:

- 6. **Traffic Control Truck with Mounted Crash Cushions.** Provide the RE with a copy of the crash cushion manufacturer’s recommendations. Provide the RE a certified weigh ticket of the Traffic Control Truck with arrow board and mounted Crash Cushion. Position the traffic control truck to ensure that there is adequate stopping distance after impact and to prevent errant vehicles from traveling around the truck and endangering workers. When used in a fixed position, place manual transmission vehicles in second gear and place automatic transmission vehicles in park. Ensure that the parking brake is set and the wheels are set straight. Do not use traffic control trucks in place of other temporary impact attenuators for more than 24 hours. Relocate the traffic control truck as specified by the TCP, or as directed by the RE. Do not use the truck to carry additional equipment, materials, or debris. When using ballast, ensure that it is secured to the truck. Submit drawings to the RE detailing the manner of securing the ballast, signed and sealed by a Professional Engineer, certifying that it is capable of withstanding the impact forces for which the impact attenuator is rated.

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- 9. **Portable Trailer Mounted CCTV Camera Assembly (PTMCCA).**

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IF THE PTMCCA IS REQUESTED BY CONSTRUCTION MANAGEMENT, REVISE THIS AND OTHER REQUIREMENTS WILL NEED TO BE INCLUDED.

**SME CONTACT – MSE; TRAFFIC OPERATIONS/CONSTRUCTION MANAGEMENT AS APPLICABLE**

2\*\*\*\*\*2

2\*\*\*\*\*2

DESIGNERS MUST CHECK WITH MSE’S MOBILITY MANAGEMENT WORK ZONE UNIT AND TRAFFIC OPERATIONS TO CONFIRM IF REAL TIME WORK ZONE TRAFFIC SYSTEM (RTWZTS) IS REQUIRED. ONCE CONFIRMED AND IF RTWZTS IS REQUESTED BY TRAFFIC OPERATIONS, THEN REQUEST THE

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

SPECIFICATIONS FROM MSE AND INCLUDE HEREAFTER MODIFYING THE SPECIFICATIONS TO INCLUDE THE NUMBER OF PVMSRC REQUIRED WITH LOCATIONS AND ANY OTHER ADDITIONAL REQUIREMENTS SPECIFIC TO THE PROJECT. DEVELOP AND INCLUDE A REAL TIME MESSAGE TABLE LISTING THE DESIGNATED ROUTE, LOCATION OF EXISTING/PROPOSED SIGN AND THE TRAVEL TIME MESSAGE TO BE DISPLAYED.

**SME CONTACT –MSE’S MOBILITY MANAGEMENT WORK ZONE UNIT, TRAFFIC OPERATIONS**

**10. REAL TIME WORK ZONE TRAFFIC SYSTEM (RTWZTS)**

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1\*\*\*\*\*1

**159.03.03 Removable Black Line Masking Tape**

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**BDC22S-06 DATED JUL 13, 2022**

THE ENTIRE SUBSECTION IS CHANGED TO:

Apply black line masking tape over existing traffic stripes as specified in 159.03.05. Ensure that the black line masking tape completely covers existing stripes. Replace black line masking tape that becomes loose after placement within 2 hours. When black line masking tape is no longer required or directed by the RE, carefully and completely remove without using heat, solvents, grinding, sanding, or water.

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**159.03.05 Temporary Pavement Marking Tape**

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**BDC22S-06 DATED JUL 13, 2022**

THE ENTIRE SUBSECTION IS CHANGED TO:

Install tape according to the manufacturer’s recommendations when the weather is favorable as determined by the RE. Do not install the tape during wet conditions. Immediately before marking the pavement surface, clean the surface of dirt, oil, grease, and foreign material, including curing compound on new concrete. Clean the surface 2 inches beyond the perimeter of the marking to be placed.

Install tape on dry surfaces having a surface temperature between 50 °F and 150 °F, when the ambient temperature is at least 50 °F and rising as determined by the National Weather Service (<http://www.nws.noaa.gov/>). When splicing is required, install the tape using butt splices. Do not overlap the tape.

Tamp the tape for initial adhesion and then apply pressure by driving a truck slowly over the tape several times. Maintain tape by replacing loose or damaged tape within 2 hours. Remove tape when no longer required or when directed by the RE.

The surface must be dry. Do not install tape when precipitation is imminent as determined by the RE. The RE will coordinate with the Contractor to install the tape when there is no anticipated precipitation. Install the tape in continuous lengths of 20 feet or less. Any continuous length of more than 20 feet must be removed and replaced at no cost to the Department. Ensure that the removable tape is capable of being removed manually, intact or in large pieces, at temperatures above 40 ° F, without the use of solvents, burning, grinding, or blasting and without damage to the underlying surface.

If conditions do not allow for the proper adhesion of the tape, use Latex Traffic Stripes, Latex Traffic Markings Lines, and Latex Traffic Markings Symbols as specified in 159.03.06.

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



**159.03.08 Traffic Direction**

**B. Police.**

1\*\*\*\*\*1

**BDC21S-17 DATED DEC 10, 2021**

PART B IS CHANGED TO:

**B. Police.** Unless designated as local police at the preconstruction conference, police will be on-duty New Jersey State Police. Police are either provided by the RE as employees of the State, or by the local government as a vendor to the State. The use of police services by the RE does not relinquish or diminish the Contractor’s responsibilities for work zone safety.

Submit a request for police services to the RE 72 hours before beginning construction operations.

Activities requiring police services include:

- 1. Traffic direction through signalized intersections, where the integrity of the existing traffic signal system is impacted or where an override of the signal is required.
- 2. Temporary closure of all lanes on state highways and interstates.

Police services may be requested as an enhancement to the TCP.

This enhancement includes:

- 1. Temporary closure of one or more lanes on interstates.
- 2. Temporary closure of one or more lanes on state highways with a posted speed of 50 miles per hour or higher.

Emergency situations may prevent police from arriving at the scheduled date or time. The RE will not permit construction operations that, by law, require police services if police are unavailable. The Department will not accept claims for interruptions or delays resulting from any failure of police to arrive as requested.

The RE must notify State and local police of cancellations 24 hours in advance. At least 24 hours before the scheduled start of work, notify the RE of any work cancellation for which police services were requested.

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**159.04 MEASUREMENT AND PAYMENT**

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**AFTER CHECKING WITH TRAFFIC OPERATIONS INCLUDE PAYMENT CRITERIA FOR PVMSRC AND PTMCCA. NOTE THAT WHEN REAL TIME WORK ZONE SYSTEM (RTWZS) IS ALSO SPECIFIED IN A PROJECT INCLUDE SEPARATE SPECIFIC PAYMENT CRITERIA BASED ON PERFORMANCE OF RTWZS.**

**SME CONTACT – TRAFFIC OPERATIONS & MOBILITY AND SYSTEMS ENGINEERING (MSE)**

1\*\*\*\*\*1

**BDC20S-01 DATED MAR 13, 2020**

THE FOLLOWING IS ADDED AFTER THE SECOND PARAGRAPH:

The Department will measure TRAFFIC STRIPES, LATEX and TRAFFIC MARKINGS LINES, LATEX by the linear foot for each specified width of stripe. The Department will not measure gaps in striping.

1\*\*\*\*\*1

**SECTION 160 – PRICE ADJUSTMENTS**

THE ENTIRE SECTION 160 IS CHANGED TO:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**160.01 DESCRIPTION**

This Section describes the requirements for price adjustments for fuel and asphalt usage.

**160.02 MATERIALS**

(Intentionally Blank)

**160.03 PROCEDURE**

**160.03.01 Fuel Price Adjustment**

The Department will make price adjustments for fuel usage for Items listed in Table 160.03.01-1. Each month may be divided into two periods. Period one includes the first day of the month through the fourteenth day of the month. Period two includes the fifteenth day of the month through the last day of the month. Work starting within period one and continuing past midnight of the fourteenth day into the fifteenth day of the month will be included in period one for any price adjustments. Work continuing past midnight of the last day of the month into the first day of the next month will be included in period two.

The Department will calculate fuel price adjustments based on the pay quantities of listed Items using the fuel usage factors listed in Table 160.03.01-1.

Price adjustments may result in an increased payment to the Contractor for increases in the price index and may result in a reduction in payment for decreases in the price index.

If the as-built quantity of an Item listed in Table 160.03.01-1 differs from the sum of the quantities in the Estimates and the as-built quantity cannot be readily distributed among the time periods that the Item listed in Table 160.03.01-1 was constructed, then the Department will determine fuel price adjustment by distributing the difference in the same proportion as the Item’s Estimate quantity is to the total of the Item’s time period estimates.

**Table 160.03.01-1 Fuel Price Adjustments**

Items	Fuel Usage Factor
EXCAVATION, UNCLASSIFIED	0.50 Gallons per Cubic Yard
EXCAVATION, REGULATED MATERIAL	0.50 Gallons per Cubic Yard
EXCAVATION, ACID PRODUCING SOIL	0.50 Gallons per Cubic Yard
REMOVAL OF PAVEMENT	0.25 Gallons per Square Yard
MICRO-MILLING	0.25 Gallons per Square Yard
HMA MILLING, 3" OR LESS	0.25 Gallons per Square Yard
HMA MILLING, MORE THAN 3" TO 6"	0.25 Gallons per Square Yard
CONCRETE MILLING	0.25 Gallons per Square Yard
HMA PROFILE MILLING	0.25 Gallons per Square Yard
BREAKING PAVEMENT	0.25 Gallons per Square Yard
RUBBLIZATION	0.25 Gallons per Square Yard
SUBBASE	1.00 Gallon per Cubic Yard
I-__ SOIL AGGREGATE	1.00 Gallon per Cubic Yard
SOIL AGGREGATE BASE COURSE, __ " THICK	1.00 Gallon per Cubic Yard
SOIL AGGREGATE BASE COURSE, VARIABLE THICKNESS	1.00 Gallon per Cubic Yard
DENSE-GRADED AGGREGATE BASE COURSE, __ " THICK	1.00 Gallon per Cubic Yard

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**Table 160.03.01-1 Fuel Price Adjustments**

<b>Items</b>	<b>Fuel Usage Factor</b>
DENSE-GRADED AGGREGATE BASE COURSE, VARIABLE THICKNESS	1.00 Gallon per Cubic Yard
CONCRETE BASE COURSE, ___ " THICK	0.25 Gallons per Square Yard
CONCRETE BASE COURSE, REINFORCED ___ " THICK	0.25 Gallons per Square Yard
ASPHALT-STABILIZED DRAINAGE COURSE	2.50 Gallons per Ton
OPEN-GRADED ___ FRICTION COURSE	2.50 Gallons per Ton
HOT MIX ASPHALT ___ SURFACE COURSE	2.50 Gallons per Ton
HOT MIX ASPHALT ___ INTERMEDIATE COURSE	2.50 Gallons per Ton
HOT MIX ASPHALT ___ BASE COURSE	2.50 Gallons per Ton
MODIFIED OPEN-GRADED ___ FRICTION COURSE ___	2.50 Gallons per Ton
ULTRA-THIN FRICTION COURSE	2.50 Gallons per Ton
STONE MATRIX ASPHALT ___ SURFACE COURSE	2.50 Gallons per Ton
HIGH PERFORMANCE THIN OVERLAY	2.50 Gallons per Ton
BINDER RICH INTERMEDIATE COURSE	2.50 Gallons per Ton
BRIDGE DECK WATERPROOFING SURFACE COURSE	2.50 Gallons per Ton
NON-VEGETATIVE SURFACE, HOT MIX ASPHALT	2.50 Gallons per Ton
COLOR-COATED NON-VEGETATIVE SURFACE, HOT MIX ASPHALT	2.50 Gallons per Ton
CONCRETE SURFACE COURSE, ___ " THICK	0.25 Gallons per Square Yard
CONCRETE SIDEWALK, 4" THICK	0.25 Gallons per Square Yard
CONCRETE SIDEWALK, 5" THICK	0.25 Gallons per Square Yard
CONCRETE SIDEWALK, 6" THICK	0.25 Gallons per Square Yard
CONCRETE SIDEWALK, 8" THICK	0.25 Gallons per Square Yard
CONCRETE SIDEWALK, REINFORCED, 6" THICK	0.25 Gallons per Square Yard
CONCRETE SIDEWALK, REINFORCED, 8" THICK	0.25 Gallons per Square Yard
DIAMOND GRINDING OF CONCRETE SURFACE COURSE	0.25 Gallons per Square Yard
DIAMOND GRINDING EXISTING CONCRETE PAVEMENT	0.25 Gallons per Square Yard
SLURRY SEAL AGGREGATE, TYPE II	2.5 Gallons per Ton
SLURRY SEAL EMULSION	0.10 Gallons per Gallon
CONCRETE BRIDGE APPROACH	0.50 Gallons per Cubic Yard
CONCRETE CULVERT	1.00 Gallon per Cubic Yard
CONCRETE FOOTING	1.00 Gallon per Cubic Yard
CONCRETE WING WALL	1.00 Gallon per Cubic Yard
CONCRETE PIER COLUMN PROTECTION, HPC	1.00 Gallon per Cubic Yard
CONCRETE PIER COLUMNS AND CAP	1.00 Gallon per Cubic Yard
CONCRETE ABUTMENT WALL	1.00 Gallon per Cubic Yard
CONCRETE PIER SHAFT	1.00 Gallon per Cubic Yard
CONCRETE PEDESTRIAN BRIDGE	1.00 Gallon per Cubic Yard
CONCRETE BRIDGE DECK	1.00 Gallon per Cubic Yard
CONCRETE BRIDGE DECK, HPC	1.00 Gallon per Cubic Yard
CONCRETE BRIDGE SIDEWALK	1.00 Gallon per Cubic Yard
CONCRETE BRIDGE SIDEWALK HPC	1.00 Gallon per Cubic Yard
CONCRETE BRIDGE PARAPET	1.00 Gallon per Cubic Yard

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**Table 160.03.01-1 Fuel Price Adjustments**

<b>Items</b>	<b>Fuel Usage Factor</b>
CONCRETE BRIDGE PARAPET HPC	1.00 Gallon per Cubic Yard
15" BY 32" CONCRETE BARRIER CURB, BRIDGE	0.12 Gallon per Linear Foot
24" BY 32" CONCRETE BARRIER CURB, BRIDGE	0.17 Gallon per Linear Foot
21" BY 34" CONCRETE BARRIER CURB, BRIDGE	0.15 Gallon per Linear Foot
24" BY 42" CONCRETE BARRIER CURB, BRIDGE	0.21 Gallon per Linear Foot
CAST-IN-PLACE CONCRETE PILES, DRIVEN ____ " DIAMETER	1.00 Gallon per Cubic Yard
RETAINING WALL, LOCATION NO. ____	0.10 Gallon per Square Foot
CONCRETE MEDIAN BARRIER, HPC	0.16 Gallon per Linear Foot
15" BY 41" CONCRETE BARRIER CURB	0.28 Gallon per Linear Foot
24" BY 32" CONCRETE BARRIER CURB	0.17 Gallon per Linear Foot
15" BY 54" CONCRETE BARRIER CURB	0.15 Gallon per Linear Foot
38" BY 79" CONCRETE BARRIER CURB	0.40 Gallon per Linear Foot
24" BY 39" CONCRETE BARRIER CURB	0.18 Gallon per Linear Foot
18 5/8" BY 65" CONCRETE BARRIER CURB	0.20 Gallon per Linear Foot
32" BY 41" CONCRETE BARRIER CURB	0.24 Gallon per Linear Foot
24" BY 41" CONCRETE BARRIER CURB	0.19 Gallon per Linear Foot
24" BY 45" CONCRETE BARRIER CURB	0.19 Gallon per Linear Foot
15" BY 35" CONCRETE BARRIER CURB, DOWELLED	0.09 Gallon per Linear Foot
15" BY VARIABLE HEIGHT CONCRETE BARRIER CURB	0.28 Gallon per Linear Foot
24" BY VARIABLE HEIGHT CONCRETE BARRIER CURB	0.15 Gallon per Linear Foot
15" BY VARIABLE HEIGHT CONCRETE BARRIER CURB, DOWELLED	0.24 Gallon per Linear Foot
24" BY VARIABLE HEIGHT CONCRETE BARRIER CURB, DOWELLED	0.15 Gallon per Linear Foot
19" BY 32" CONCRET BARRIER CURB, DOWELLED	0.10 Gallon per Linear Foot
24" BY 32" CONCRETE BARRIER CURB, DOWELLED	0.13 Gallon per Linear Foot
24 1/2" BY 53" CONCRETE BARRIER CURB, DOWELLED	0.18 Gallon per Linear Foot
24 1/2" BY VARIABLE HEIGHT CONCRETE BARRIER CURB, DOWELLED	0.15 Gallon per Linear Foot
24" BY 35" CONCRETE BARRIER CURB, DOWELLED	0.13 Gallon per Linear Foot
GROUND MOUNTED BARRIER CURB	0.15 Gallon per Linear Foot
15" BY 51" F SHAPE CONCRETE BARRIER CURB	0.34 Gallon per Linear Foot
24 1/2" BY 51" F SHAPE CONCRETE BARRIER CURB	0.23 Gallon per Linear Foot
24 1/2" BY ____ " F SHAPE CONCRETE BARRIER CURB, DOWELLED	0.23 Gallon per Linear Foot
15" BY VARIABLE HEIGHT F SHAPE CONCRETE BARRIER CURB, DOWELLED	0.34 Gallon per Linear Foot
15" BY ____ " F SHAPE CONCRETE BARRIER CURB, DOWELLED	0.34 Gallon per Linear Foot
VARIABLE WIDTH BY VARIABLE HEIGHT F SHAPE CONCRETE BARRIER CURB	0.34 Gallon per Linear Foot
9" BY 16" CONCRETE VERTICAL CURB	0.04 Gallon per Linear Foot
9" BY 18" CONCRETE VERTICAL CURB	0.04 Gallon per Linear Foot
9" BY 20" CONCRETE VERTICAL CURB	0.04 Gallon per Linear Foot
9" BY 22" CONCRETE VERTICAL CURB	0.05 Gallon per Linear Foot
9" BY 14" CONCRETE VERTICAL CURB	0.03 Gallon per Linear Foot
9" BY 4" CONCRETE VERTICAL CURB, DOWELLED	0.01 Gallon per Linear Foot
9" BY 6" CONCRETE VERTICAL CURB, DOWELLED	0.01 Gallon per Linear Foot
9" BY 8" CONCRETE VERTICAL CURB, DOWELLED	0.02 Gallon per Linear Foot
9" BY 10" CONCRETE VERTICAL CURB, DOWELLED	0.02 Gallon per Linear Foot

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**Table 160.03.01-1 Fuel Price Adjustments**

<b>Items</b>	<b>Fuel Usage Factor</b>
12" BY 13" CONCRETE SLOPING CURB	0.04 Gallon per Linear Foot
12" BY 3" CONCRETE SLOPING CURB, DOWELLED	0.01 Gallon per Linear Foot
___ " BY ___ " CONCRETE SLOPING CURB, DOWELLED	0.01 Gallon per Linear Foot
9" BY VARIABLE HEIGHT CONCRETE VERTICAL CURB	0.04 Gallon per Linear Foot
9" BY VARIABLE HEIGHT CONCRETE VERTICAL CURB, DOWELLED	0.02 Gallon per Linear Foot

If an item listed in Table 160.03.01-1 has a payment unit which differs from that listed in Table 160.03.01-1, the Department will apply an appropriate conversion factor to determine the number of gallons of fuel used.

The Department will calculate fuel price adjustment using the following formula:

$$F = (MF - BF) \times G$$

Where:

- F = Fuel Price Adjustment
- MF = Fuel Price Index for work performed in the time period immediately before the estimate cutoff date.
- BF = Basic Fuel Price Index
- G = Gallons of Fuel for Price Adjustment

The Department will post the Fuel Price Index every month on the Department's website: <https://www.state.nj.us/transportation/business/aashtoware/PriceIndex.shtm>.

The Basic Fuel Price Index is the Index which is listed for the month prior to the receipt of bids. If the month prior to the receipt of bids has two Indexes, the Index in effect for the first day of that month will govern for the Basic Fuel Price Index. If the Fuel Price Index increases by 50 percent or more over the Basic Fuel Price Index, do not perform any work involving Items listed in Table 160.03.01-1 without written approval from the RE.

### **160.03.02 Asphalt Price Adjustment**

The Department will make price adjustments for asphalt binder usage. The Department will calculate asphalt price adjustments based on the quantities of Items containing asphalt binder constructed.

Each month may be divided into two periods. Period one includes the first day of the month through the fourteenth day of the month. Period two includes the fifteenth day of the month through the last day of the month. Work starting on the fourteenth day of the month and continuing past midnight into the fifteenth day of the month will be included in period one for any price adjustments. Work continuing through midnight of the last day of the month into the first day of the next month will be included in period two.

The Asphalt Price Adjustment will be separated between asphalt binder grades PG 64S-22 and PG 64E-22. The price used for both the Basic and Monthly Price Indexes will be determined based on the performance grade of asphalt binder in the approved mix design for the asphalt mixture.

Price adjustments may result in an increased payment to the Contractor for increases in the price index and may result in a reduction in payment for decreases in the price index.

The Department will calculate the asphalt price adjustment by the following formula:

$$A = (MA - BA) \times T$$

Where:

- A = Asphalt Price Adjustment
- MA = Asphalt Price Index for work performed in the time period immediately before the estimate cutoff date.
- BA = Basic Asphalt Price Index
- T = Tons of New Asphalt Binder<sup>1</sup>

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

1. The Department will determine the weight of asphalt binder for price adjustment by multiplying the percentage of new asphalt binder in the approved job mix formula by the weight of the item containing asphalt binder. If a Hot Mix Asphalt Item has a payment unit other than ton, the Department will apply an appropriate conversion factor to determine the number of tons of asphalt binder used.

For Tack Coat, Prime Coat, MICRO SURFACING EMULSION, SLURRY SEAL EMULSION, and FOG SEAL SURFACE TREATMENT, the Department will calculate the weight of asphalt as follows:

$$T = G \times C \times 0.00428$$

- C = Petroleum content of the product  
 Use 100% for Tack Coat 64-22 and Tack Coat 64E-22  
 Use 60% for Polymer Modified Tack Coat, and all other emulsified asphalts
- G = Gallons furnished

The constant 0.00428 is derived from the conversion factor of tons per gallon using 8.345 lbs/gallon for water and a factor of 1.025 for the specific gravity of asphalt binder.

The Department will not calculate an asphalt price adjustment for FOG SEAL STRIP.

The monthly asphalt price index, as determined by the Department, will be the average of quotations from suppliers serving the area in which the Project is located, and will be determined by the Department. The Department will post the asphalt price index every month on the Department's website: <https://www.state.nj.us/transportation/business/aashtoware/PriceIndex.shtm>.

The Basic Asphalt Price Index will be the Index which is listed for the month prior to the receipt of bids. If the month prior to the receipt of bids has two Indexes, the Index in effect for the first day of the month will govern for the Basic Asphalt Price Index.

The Monthly Asphalt Price Index will be that for the month that the work is constructed in. If work is constructed over the course of two or more months for a particular pay estimate, then multiple Monthly Indexes will be used corresponding to the date that the work was performed.

If the Asphalt Price Index increases 50 percent or more over the basic asphalt price index, do not perform work on Items containing asphalt binder without written approval from the RE.

2\*\*\*\*\*2

BDC22S-11 DATED OCT 14, 2022

THE FOLLOWINGS IS ADDED:

COMPLETE AND INCLUDE THE FOLLOWING WHEN A CONTRACT CONTAINS 1,000,000 POUNDS (OR 500,000 POUNDS FOR CONTRACTS WITH A 3 YEAR OR GREATER DURATION FROM AWARD TO COMPLETION) OF A COMBINATION OF THE BELOW ITEMS EXCEPT THAT BEAM GUIDE RAIL, RUB RAIL, OVERHEAD SIGN STRUCTURE AND CANTILEVER SIGN STRUCTURE WILL ALWAYS BE INCLUDED WITHOUT MEETING THE POUND REQUIREMENT.

**160.03.03 Steel Price Adjustment**

THE FOLLOWINGS SUBPART IS ADDED:

The Department will make a steel price adjustment for Items listed in Table 160.03.03-1 using the price index indicated for the Item. This adjustment is based solely on the mill provided steel.

3\*\*\*\*\*3

COMPLETE AND REMOVE ITEMS THAT DO NOT QUALIFY

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

**SME CONTACT – CONSTRUCTION MANAGEMENT**

<b>Table 160.03.03-1 Steel Price Adjustment Items</b>		
<b>Item</b>	<b>Price Index (BS &amp; MS)</b>	<b>Cost Basis (CB) \$/Lb</b>
STRUCTURAL STEEL	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101702	
REINFORCEMENT STEEL	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101704	
REINFORCEMENT STEEL, EPOXY-COATED	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101704	
REINFORCEMENT STEEL, GALVANIZED	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101704	
REINFORCEMENT STEEL, STAINLESS	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101704	
CAST-IN-PLACE CONCRETE PILE FURNISHED	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Hot Rolled Steel Bars, Plates and Structural Shapes WPU 101704	
STEEL H-PILE, FURNISHED	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Hot Rolled Steel Bars, Plates and Structural Shapes WPU 101702	
BEAM GUIDE RAIL	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101702	
RUB RAIL	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101702	
OVERHEAD SIGN STRUCTURE NO. ____	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101702	
BUTTERFLY SIGN SUPPORT, DMS STRUCTURE NO. ____	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101702	
CANTILEVER SIGN STRUCTURE NO. ____	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101702	
CANTILEVER SIGN SUPPORT, DMS STRUCTURE NO. ____	US Dept. of Labor, Bureau of Labor Statistics - Producer Price Index for Semifinished Steel Mill Products WPU 101702	

3\*\*\*\*\*3

For a noted price index, the Department will use the final published price index and will not use preliminary price information.

Price adjustments may result in an increased payment to the Contractor for increases in the price index and may result in a reduction in payment for decreases in the price index.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

A steel price adjustment will only be made for price increases when  $\frac{(MS-BS)}{BS} > 10\%$ , and a price adjustment will only be made for price decreases when  $\frac{(BS-MS)}{BS} > 10\%$ .

When the Monthly Steel Price Index is greater than the Benchmark Steel Price Index, the Department will calculate STEEL PRICE ADJUSTMENT using the following formula:

$$S = \frac{[(BS - MS) + (BS \times 0.10)]}{-BS} \times CB \times W$$

When the Monthly Steel Price Index is less than the Benchmark Steel Price Index, the Department will calculate STEEL PRICE ADJUSTMENT using the following formula:

$$S = \frac{[(MS - BS) + (BS \times 0.10)]}{BS} \times CB \times W$$

Where:

- S = Steel Price Adjustment (Dollars).
- BS = Benchmark Steel Price Index – the steel preliminary price index for the month before the project is bid.
- MS = Monthly Steel Price Index – the steel price index for the month steel is shipped from the mill.
- CB = Cost Basis (\$/lb) – from Table 160.03.03-1.
- W = Weight of Steel (lb).

The Department will post the Monthly Steel Price Index every month on the Department’s website.

With each delivery of steel, submit to the RE documentation from the fabricator or supplier, which details the following information:

1. Weight of the steel shipped from the mill to the fabricator or supplier.
2. Date of the shipment.
3. Item description and Item number(s) for which the steel is associated.

If the documented steel weight is for more than one Item, provide the RE with the weight attributed to each Item.

Provide the documentation to the RE within 60 days of the date of the shipment. The Department will not make a price adjustment for steel shipped before the bid date.

The Department will make a price adjustment for the Items STRUCTURAL STEEL based on the weights listed in Table 160.03.03-2. If the steel for an Item is shipped on dates having different monthly index prices, the Department will proportionately adjust the weight used in the calculation of the price adjustment by multiplying the weight shipped by the ratio of the weight for the Item listed in Table 160.03.03-2 to the sum total of weight shipped for that Item. If the weight of steel estimated for a structure in Table 160.03.03-2 differs from the actual weight by more than 10 percent, the Department will make a price adjustment based on the actual weight.

3\*\*\*\*\*3  
**COMPLETE AND INCLUDE THE FOLLOWING**

**SME CONTACT – PROJECT MANAGER**

Table 160.03.03-2 Structural Steel Price Adjustment Items		
Structure	Item No.	Weight (Lb)

3\*\*\*\*\*3

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.



The Department will make a price adjustment for the Items OVERHEAD SIGN STRUCTURE and CANTILEVER SIGN STRUCTURE based on the weights listed in Table 160.03.03-3. If the steel for an Item is shipped on dates having different monthly index prices, the Department will proportionately adjust the weight used in the calculation of the price adjustment by multiplying the weight shipped by the ratio of the weight for the Item listed in Table 160.03.03-3 to the sum total of weight shipped for that Item. If the weight of steel estimated for a structure in Table 160.03.03-3 differs from the actual weight by more than 10 percent, the Department will make a price adjustment based on the actual weight.

3\*\*\*\*\*3  
**COMPLETE AND INCLUDE THE FOLLOWING**

**SME CONTACT – PROJECT MANAGER**

<b>Table 160.03.03-3 Overhead Sign Structure and Cantilever Sign Structure Price Adjustment Items</b>		
<b>Overhead and Cantilever Sign Structure Number</b>	<b>Item No.</b>	<b>Weight (Lb)</b>

3\*\*\*\*\*3

The Department will only make a price adjustment for reinforcement steel for steel provided in association with the reinforcement steel items. The Department will make a price adjustment for reinforcement steel based on the weight of reinforcement steel indicated in the Proposal for an Item as adjusted by Change Orders. If the reinforcement steel for an Item is shipped on dates having different monthly index prices, the Department will proportionately adjust the weight used in the calculation of the price adjustment by multiplying the weight shipped by the ratio of the weight for the Item to the sum total of weight shipped for that Item.

The Department will make a price adjustment for piles based on the weight of steel furnished for pipe piles and for H-piles based on the RE’s order list. The weight of steel furnished for piles will not include the weight for ancillary materials such as pile shoes and splice collars.

The Department will make a price adjustment for BEAM GUIDE RAIL (including posts) and RUB RAIL based on the weight of steel furnished. The weight does not include coating. The weight does not include associated hardware and the weight of end treatments.

If the preliminary Monthly Steel Price Index increases 100 percent or more over the Benchmark Steel Price Index, do not order more steel without written approval from the RE. The RE will determine if work will continue based on the Steel Price Index increase.

There will be no increase to STEEL PRICE ADJUSTMENT if the work is behind schedule by fault of the Contractor and the steel was not purchased prior to the delay.

2\*\*\*\*\*2

**160.04 MEASUREMENT AND PAYMENT**

THE SUBSECTION IS CHANGED TO:

The Department will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
FUEL PRICE ADJUSTMENT	DOLLAR
ASPHALT PRICE ADJUSTMENT	DOLLAR

2\*\*\*\*\*2

**BDC22S-11 DATED OCT 14, 2022**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

THE FOLLOWING IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
STEEL PRICE ADJUSTMENT	DOLLAR
2*****2	

The Items FUEL PRICE ADJUSTEMENT and ASPHALT PRICE ADJUSTMENT must be included in the Proposal to qualify for payment.

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

# DIVISION 200 – EARTHWORK

## SECTION 201 – CLEARING SITE

### 201.03.01 Clearing Site

1\*\*\*\*\*1  
2\*\*\*\*\*2

IF JCP&L RELATED UTILITY WORK IS TO BE PERFORMED, ADD THE FOLLOWING:

Remove trees and branches within 15 feet of the end of JCP&L pole cross arms. If the resulting tree is rendered hazardous, then remove the entire tree according to Section 802.

2\*\*\*\*\*2

2\*\*\*\*\*2

BDC22S-05 DATED MAY 27, 2022

PART A IS CHANGED TO:

A. **Preparation.** Construct SESC measures, as specified in 158.03.02, before clearing site.

THE FIRST PARAGRAPH IN PART B IS CHANGED TO:

B. **Clearing and Grubbing.** Before beginning excavation or embankment construction, clear the site within the limits of construction. Clear the ground surface of vegetation (trees of various caliper, brush, weeds, roots, matted leaves), small structures not shown on the Plans for demolition, debris, and other objectionable material where its existing position conflicts with the limits of construction. In cut sections, grub out tree stumps within the limits of the total cut area. In fill sections, the Contractor may leave tree stumps extending less than 1 foot above the original ground surface in those areas where the proposed subgrade, or proposed finished grade in non-pavement sections, is greater than 3 1/2 feet above the original ground surface. Grub out tree stumps that lie within 5 feet horizontally or vertically from any proposed structure, pipe, or duct.

2\*\*\*\*\*2

1\*\*\*\*\*1

### 201.03.02 Clearing Site, Bridge and Clearing Site, Structure

1\*\*\*\*\*1  
2\*\*\*\*\*2

BDC22S-05 DATED MAY 27, 2022

THE FIRST PARAGRAPH IS CHANGED TO:

Submit a demolition plan detailing the work area, methods, and equipment to be used to the RE for approval 30 days before demolition operations. Clear site within work area as specified in 201.03.01. Remove the substructures of existing structures to at least 3 feet below the natural stream bottom, and remove those parts outside of the stream to at least 2 feet below natural ground surface. Where such portions of existing structures lie wholly or in part within the limits of a new structure, remove them to accommodate the construction of the proposed structure. Only the following equipment is permitted for the work:

2\*\*\*\*\*2

2\*\*\*\*\*2

INCLUDE THE FOLLOWING FOR DECK AND/OR BEAM ENCASEMENT REMOVAL WHEN THE REMAINDER OF EXISTING SUPERSTRUCTURE IS TO REMAIN.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SME CONTACT – STRUCTURAL DESIGN**

THE FOLLOWING IS ADDED:

The procedure is described below:

1. **Prestressed Concrete Stringers and Concrete Diaphragms.** Repair damage to prestressed concrete stringers and concrete diaphragms using nonshrink grout conforming to 903.08 before deck placement.
2. **Steel Stringers, Floorbeams, Cross Frames, and Diaphragms.**
  - a. Repair procedures to tensile components in conformance with ASTM A6/A6M and the following:
    - 1 Repair gouges up to 1/8 inch by grinding flush in the direction of principal stress.
    - 2 Repair gouges deeper than 1/8 inch by first grinding; then, depositing weld metal and grinding flush with the surface of the metal in the direction of principal stress. Weld using low hydrogen electrodes conforming to current AWS Specifications A5.1 and A5.5.
    - 3 Repair kinks and deformations by flame straightening or a combination of flame straightening and jacking. Ensure flame straightening is performed by personnel having a minimum of three years of documented experience. Submit the names of the personnel to the RE for review and approval prior to performing the work.
  - b. Repair procedures to compression components for kinks and deformations as outlined in 2.a.3 above. Where more than 5 percent of the cross-sectional area of the member is damaged, submit a repair procedure to the RE for review and approval.

Clean and paint exposed existing top flanges of beams with prime coat as specified in 554.03.

2\*\*\*\*\*2

2\*\*\*\*\*2

**INCLUDE THE FOLLOWING IF GROUNDING FOR ELECTRIFIED RAIL LINES IS REQUIRED TO BE DONE BY THE RAILROAD**

1. **Grounding for Electrified Railroad.** Submit a list of required grounding materials to the RE for approval 21 days before construction operation. In the list, include the material description, manufacturer, and catalog number. After obtaining the RE’s approval, submit the list to the railroad for review and approval. Do not order the materials prior to obtaining the railroad’s approval. Furnish and deliver the grounding materials to the railroad. Obtain a receipt for the materials from the railroad and provide a copy to the RE.

2\*\*\*\*\*2

2\*\*\*\*\*2

**ENTER THE QUANTITIES BELOW AND ANY REVISIONS TO THE MATERIALS LISTED AFTER CONSULTATION WITH THE RAILROAD.**

**SME CONTACT – STRUCTURAL DESIGN AND PROJECT MANAGER**

**List of Materials**

Description	Quantity Required
U-bolt, 7/8 inch diameter by 4 inch, BS fastener	-----
Strap, clevis, 1 1/4 by 2 inches stock, 12 inch connecting length, 1 inch diameter hole, 5/8 inch diameter bolt, ultimate strength 25 psi, Brewer Tilchener Corp.-3074 C	-----
Dead end eye bolt, compression type steel, use DIE 6010SH, compression tool, 60A ALCOA 9190-332	-----

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**List of Materials**

Description	Quantity Required
Jumper cable, compression type aluminum, use DIE 6020AH, compression tool 60A ALCOA 5120-781	-----
Terminal - Bundy AK2C39B1 to 336400 Cable (1)	-----
Ground terminal - Bundy AK2C39B1 to 336400 Cable (2)	-----
Terminal - solid barrier to 0.17 square inch cable Bundy KC28B1	-----
Compound, aluminum to copper connection (ALNOX) CANS	-----
Termination, dead end strand clamp, ALCO 336 4 KCM	-----
Clip, bronze, complete type BC, Ohio brass	-----
Thimble-Bronx 336 4 KCM	-----
U-bolt, 1 1/4 inch diameter by 1 1/2 inch loop 336 4 KCM 11, 30/7 STR ACSR, ANACONDA insulated aluminum cable having a diameter of 0.17 square inches, ANACONDA	-----

2\*\*\*\*\*2  
1\*\*\*\*\*1

**201.03.03 Clearing Site, Tank Removal**

1\*\*\*\*\*1

COMPLETE AND INCLUDE FOLLOWING INFORMATION, WHEN TANK(S) REMOVAL ARE REQUIRED

**SME CONTACT – ENVIRONMENTAL SOLUTIONS**

Remove following:

Parcel No.	Tank Size	Contents	Tank Registration No.

1\*\*\*\*\*1

**201.03.08 Removal of Asbestos**

1\*\*\*\*\*1

INCLUDE LOCATION AND OTHER REQUIREMENTS FOR THE REMOVAL OF ASBESTOS

**SME CONTACT – CAPITAL PROGRAM SYSTEMS MANAGEMENT**

1\*\*\*\*\*1

**201.04 MEASUREMENT AND PAYMENT**

THE FOLLOWING IS ADDED:

1\*\*\*\*\*1

2\*\*\*\*\*2

COMPLETE AND INCLUDE AMOUNT USING ENGINEER'S ESTIMATE

**SME CONTACT – CONSTRUCTION MANAGEMENT**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

The Department will not make payment for the Item CLEARING SITE in excess of \$ \_\_\_\_\_ until Completion.

2\*\*\*\*\*2

2\*\*\*\*\*2

INCLUDE PARTIAL PAYMENTS, IF REQUIRED FOR REMOVAL OF THE BRIDGE OR STRUCTURE SCHEDULED IN STAGES.

THE FOLLOWING EXAMPLE REPRESENTS A BRIDGE SCHEDULED TO BE REMOVED IN 3 STAGES. THE SEQUENCE OF CONSTRUCTION REQUIRED REMOVAL OF 20 PERCENT OF THE BRIDGE IN STAGE I, 40 PERCENT IN STAGE II, AND 40 PERCENT IN STAGE III. THE ENGINEER'S ESTIMATE FOR THE ITEM AMOUNT WAS \$4,000,000. THE PAYMENT SCHEDULE FOR "CLEARING SITE, BRIDGE (STRUCTURE NO.)" WILL BE AS FOLLOWS:

- FOR THE ITEM "CLEARING SITE BRIDGE (STRUCTURE NO.)", THE DEPARTMENT WILL NOT MAKE IN EXCESS OF \$4,000,000 UNTIL SUBSTANTIAL COMPLETION.
- THE DEPARTMENT WILL MAKE PAYMENT OF 20 PERCENT OF THE PRICE BID (OR \$800,000, WHICHEVER IS LESS) UPON ACCEPTANCE OF STAGE I DEMOLITION.
- THE DEPARTMENT WILL MAKE PAYMENT OF 40 PERCENT OF THE PRICE BID (OR \$1,600,000, WHICHEVER IS LESS) UPON ACCEPTANCE OF STAGE II DEMOLITION.
- THE DEPARTMENT WILL MAKE PAYMENT OF 40 PERCENT OF THE PRICE BID (OR \$1,600,000, WHICHEVER IS LESS) UPON ACCEPTANCE OF STAGE III DEMOLITION.

3\*\*\*\*\*3

COMPLETE AND INCLUDE THE VALUE

**SME CONTACT – CONSTRUCTION MANAGEMENT**

The Department will not make payment for the Item CLEARING SITE, BRIDGE ( ) in excess of \$ \_\_\_\_\_ until Substantial Completion.

The Department will not make payment for the Item CLEARING SITE, STRUCTURE ( ) in excess of \$ \_\_\_\_\_ until Substantial Completion.

3\*\*\*\*\*3

2\*\*\*\*\*2

1\*\*\*\*\*1

**SECTION 202 – EXCAVATION**

**202.03.01 Stripping**

1\*\*\*\*\*1

BDC20S-02 DATED MAR 20, 2020

THE SECOND PARAGRAPH IS CHANGED TO:

Strip vegetation and underlying soil to a depth of 4 to 6 inches below the existing ground surface. Confirm the thickness of stripping with the RE based on field conditions. Temporarily store in stockpiles, as specified in 202.03.03.B, stripped material including excess that is determined suitable for the future use of the Department. The Department will sample and analyze stripped material in stockpiles to determine suitability for use as topsoil. Reuse or dispose of unsuitable stripped material as specified in 202.03.03.C.

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO. OR PROJECT IDENTIFICATION.

**DIVISION 300 – SUBBASE AND BASE COURSES**

**SECTION 304 – CONCRETE BASE COURSE**

**304.03.01 Concrete Base Course**

1\*\*\*\*\*1

**FOR A WHOLLY STATE FUNDED PROJECT, INCLUDE THE FOLLOWING**

ADD THE FOLLOWING SENTENCE TO THE END OF THE FIRST PARAGRAPH:

If the concrete thickness lot area is less than 5000 square yards, the Regional District Local Aid Office may waive the test strip requirements.

1\*\*\*\*\*1

**SECTION 305 – RUBBLIZING CONCRETE PAVEMENT**

**305.03.01.F Rubblization**

1\*\*\*\*\*1

**FOR A WHOLLY STATE FUNDED PROJECT, INCLUDE THE FOLLOWING**

ADD THE FOLLOWING THIRD PARAGRAPH TO THE END OF THIS SECTION:

If the rubblized concrete thickness lot area is less than 5000 square yards, the Regional District Local Aid Office may waive the test strip requirements.

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**DIVISION 400 – PAVEMENTS**

**SECTION 401 – HOT MIX ASPHALT (HMA) COURSES**

**401.02.01 Materials**

1\*\*\*\*\*1

BDC22S-04 DATED MAY 13, 2022

THE FIRST ITEM IS CHANGED TO:

Tack Coat 64-22, PG 64S-22 ..... 902.01.01

1\*\*\*\*\*1

**401.03.01 Milling**

**A. HMA Milling.**

1\*\*\*\*\*1

COMPLETE AND INCLUDE TIME INTERVAL FOR RESURFACING THE MILLED PAVEMENT BASED ON THE PROJECT STAGING. MAXIMUM TIME INTERVAL MAY VARY BUT SHALL NOT EXCEED 72 HOURS.

**SME CONTACT – TRAFFIC OPERATIONS AND REGIONAL CONSTRUCTION ENGINEER**

Stage	Max. Time Interval Allowed
-------	----------------------------

1\*\*\*\*\*1

**C. Micro-Milling and Profile Milling.**

1\*\*\*\*\*1

BDC21S-19 DATED JAN 20, 2021

THE FOLLOWING IS ADDED AT THE END:

The Department will provide the time interval for resurfacing the micro-milled areas in the Special Provisions. Extensions to the time interval may be approved by the RE. The RE is responsible for performing a daily inspection of the micro-milled surface to ensure continued compliance with ASTM E 965. The contractor is responsible for any incidental costs incurred as a result of time interval extension.

2\*\*\*\*\*2

COMPLETE AND INCLUDE TIME INTERVAL FOR RESURFACING THE MILLED PAVEMENT BASED ON THE PROJECT STAGING:  
FOR PROJECTS WITH A POSTED SPEED LIMIT OF 40 MPH OR LESS MAXIMUM TIME INTERVAL MAY VARY BUT SHALL NOT EXCEED 72 HOURS.  
FOR PROJECTS WITH A POSTED SPEED LIMIT OF 45 MILES PER HOUR OR GREATER THE TIME INTERVAL IS TO BE 0 HOURS.

3\*\*\*\*\*3

The RE may increase the allowable time interval to a maximum of 72 hours based on field conditions and provided that the condition does not deteriorate the pavement or impact the safety of the traveling public.

**SME CONTACT –REGIONAL CONSTRUCTION ENGINEER**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



Stage	Max. Time Interval Allowed
-------	----------------------------

3\*\*\*\*\*3

2\*\*\*\*\*2

1\*\*\*\*\*1

**401.03.03 HMA Pavement Repair**

1\*\*\*\*\*1

BDC22S-03 DATED JUN 22, 2022

THE TITLE AND ENTIRE SUBSECTION IS CHANGED TO:

**401.03.03 HMA Repair**

- A. HMA Pavement Repair.** Arrange a project site meeting with the RE to establish the limits of HMA pavement repair. Additional repairs, not delineated on the Plans or by the RE during the project site meeting, may be required if the need is established by the RE.

If potholes are discovered, notify the RE immediately. The RE may immediately direct repairs of small areas. The RE may require further evaluation of a large area to determine the need for additional milling and paving.

Perform HMA repairs as a separate operation before milling, paving, and other surface treatments. The Contractor may request approval of the RE to perform the repair work as one operation with the paving or surface treatment.

HMA repairs may be performed on full depth HMA pavement or on composite pavement (HMA over concrete pavement). For full depth HMA pavement, sawcut existing HMA pavement to a depth of 8 inches. For composite pavement, sawcut existing HMA to a depth of 8 inches or up to the top of concrete, whichever is less. Sawcut lines parallel and perpendicular to the roadway baseline and 3 inches away, at the closest point, from the damaged area to be repaired.

Remove damaged and loose material within the boundary of the sawcuts to form rectangular openings with vertical sides to a depth of 8 inches for HMA pavement, or to the top of concrete for composite pavement. A milling machine may be used to remove damaged pavement to form the repair areas if approved by the RE.

After the existing damaged HMA and loose material has been removed, the RE will examine underlying material to determine its condition.

If the base of the repair area is unbound material, then shape and compact the unbound material to produce a firm and level base.

If water exists in the area, remove the underlying material to the depth as directed by the RE. Place geotextile, then place and compact coarse aggregate to required grade to provide for a minimum 8 inch thick HMA pavement repair. Compact coarse aggregate as specified in 203.03.02.B.3.

If the base of the repair is HMA or concrete pavement, then ensure that the remaining pavement is cleaned and dry prior to applying tack coat.

Apply tack coat at an application rate of 0.15 gallons per square yard to the vertical surfaces and base of the opening. Spread and grade HMA surface course mix in the opening as specified for the roadway surface or a HMA surface course mix approved by the RE. Ensure that the temperature of the HMA when placed is at least 250 °F, and compact as specified in 401.03.07.F. Compact areas not accessible to rollers with a flat face compactor. Compact until the top of the patch is flush with, or 1/8 inch higher than, the adjacent pavement surface.

Reuse removed material as specified in 202.03.03.C.1.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**B. HMA Longitudinal Joint Repair.** Arrange a project site meeting with the RE to establish the limits of HMA longitudinal repair areas. Additional repairs, not delineated on the Plans or by the RE during the project site meeting, may be required if the need is established by the RE.

Mill 2 feet wide, unless directed otherwise by the RE, centered over the HMA longitudinal joint, rumble strip, longitudinal distress areas or any combination of the three, as shown on the Plans and as directed by the RE. Mill to a minimum 2 inches in depth, or as required to remove the damaged pavement. For distress areas wider than 4 feet, the RE may direct the use of HMA pavement repair as specified in 401.03.03.A.

Clean the milled area as specified in 401.03.01.A. Obtain RE approval of the repair area before proceeding with the repair.

Apply polymerized joint adhesive to the vertical surfaces of the repair area as specified in 401.03.04. Apply tack coat as specified in 401.03.05 at an application rate of 0.15 gallons per square yard to the bottom surface of the repair area. Obtain RE approval of the repair area before proceeding with the repair. Spread and grade Hot Mix Asphalt 9.5M64 Surface Course in the repair area as specified in 401.03.07.E. Ensure that the temperature of the HMA when placed and compacted is at least 250 °F. Compact as specified in 401.03.07.F, ensuring that the top of the compacted HMA is flush with, or not greater than 1/8 inch higher than, the adjacent pavement surface.

Reuse removed material as specified in 202.03.03.C.1.

1\*\*\*\*\*1

**401.03.07 HMA Courses**

**A. Paving Plan.**

1\*\*\*\*\*1

BDC20S-09 DATED JUL 6, 2020

PART (4) IS CHANGED TO:

4. Lighting plan for night operations as specified in 108.06.

1\*\*\*\*\*1

**C. Test Strip**

2\*\*\*\*\*2

FOR WHOLLY STATE FUNDED PROJECTS INCLUDE THE FOLLOWING

REPLACE THE FIRST PARAGRAPH OF THIS SECTION WITH THE FOLLOWING:

**Test Strip.** Construct a test strip for each HMA mix for contracts with more than a total of 5,500 tons of HMA. For HMA HIGH RAP, construct the test strip at least 14 days prior to production. Test strips are not necessary for temporary pavement. Ensure that the tack coat or prime coat has been placed as specified in [401.03.05](#) and [401.03.06](#), before placing HMA. Transport and deliver, spread and grade, and compact as specified in [401.03.07.D](#), [401.03.07.E](#), and [401.03.07.E](#), respectively, and according to the approved paving plan. Construct a test strip for the first 700 to 1,200 square yards placed for each job mix formula. If the paving lot area is less than 700 square yards, the District Local Aid Office may waive the coring requirements. While constructing the test strip, record the following information and submit to the RE:

2\*\*\*\*\*2

**D. Transportation and Delivery of HMA.**

1\*\*\*\*\*1

BDC20S-09 DATED JUL 6, 2020

THE SECOND SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Do not allow trucks to leave the plant within 1 hour of sunset unless lighting for night operations is provided as specified in 108.06.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

1\*\*\*\*\*1

**E. Spreading and Grading.**

2\*\*\*\*\*2  
USE 100% OF THE SURFACE COURSE JOINT LENGTH TO ESTIMATE THE QUANTITY OF  
POLYMERIZED JOINT ADHESIVE

**G. Opening to Traffic.**

1\*\*\*\*\*1

BDC20S-08 DATED JUN 12, 2020

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure that RPMs are installed and rumble strips are constructed within 14 days of opening each day's surface paving to traffic.

1\*\*\*\*\*1

**H. Air Void Requirements**

2\*\*\*\*\*2  
FOR WHOLLY STATE FUNDED PROJECTS INCLUDE THE FOLLOWING

FOR LOCAL AID PROJECTS, THIS SUBSECTION IS REPLACED BY THE FOLLOWING.

Pavement lots are defined as approximately 15,000 square yards of pavement in Surface area. If pavement lot area is less than 5000 square yards, the Local Aid District Office may waive the air voids requirements.

The RE will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program ([www.amrl.net](http://www.amrl.net)). The Laboratory's accreditation must include AASHTO T 166 and AASHTO T 209.

The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

The Laboratory will determine air voids from 5 (Five) 6 inch diameter cores taken from each lot in random locations within the traveled way and at least one core in each travel lane. The HMA Core Sampling Plan form provided on the [Local Aid Website](#) must be utilized by the Laboratory to determine the random locations of the cores. The Laboratory may rerun the random location functions on the HMA Core Sampling Plan form to resolve any conflicts generated by the HMA Core Sampling Plan form and physical limitations of the HMA lot, such as utility conflicts, or the specifications defined herein. The coring locations must be designated by a station and offset, and offsets are taken from the left edge of the pavement in the direction of travel within the lane lines. The Laboratory must disclose the contents of the HMA Core Sampling Plan with the Contractor to assist in the schedule of construction.

The Laboratory will determine air voids of cores from the values for the maximum specific gravity of the mix and the bulk specific gravity of the core. The Laboratory will determine the maximum specific gravity of the mix according to NJDOT B-3 and AASHTO T 209, except that minimum sample size may be waived in order to use a 6-inch diameter core sample. The Laboratory will determine the bulk specific gravity of the compacted mixture by testing each core according to AASHTO T 166.

The Laboratory will calculate the percent defective (PD) as the percentage of the lot outside the acceptable range of 2 percent air voids to 8 percent air voids. The acceptable quality limit is 15 percent defective. For lots in which PD > 15, the Department will assess a negative pay adjustment.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

The Laboratory will use and submit to the RE the DS8S-PD form provided on the [Local Aid Website](#) and verify manually the PD calculation.

The Laboratory will calculate pay adjustments based on the following:

1. **Sample Mean ( $\bar{X}$ ) and Standard Deviation (S) of the N Test Results ( $X_1, X_2, \dots, X_N$ ).**

$$\bar{X} = \frac{(X_1 + X_2 + \dots + X_N)}{N}$$

$$S = \sqrt{\frac{(X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 + \dots + (X_N - \bar{X})^2}{N - 1}}$$

2. **Quality Index (Q).**

$$Q_L = \frac{(\bar{X} - 2.0)}{S}$$

$$Q_U = \frac{(8.0 - \bar{X})}{S}$$

3. **Percent Defective (PD).** Using NJDOT ST for the appropriate sample size, the Laboratory will determine  $PD_L$  and  $PD_U$  associated with  $Q_L$  and  $Q_U$ , respectively.  $PD = PD_L + PD_U$

4. **Reduction Per Lot.** Calculate the reduction per lot as specified in Table 401.03.07-3:

Table 401.03.07-3	
Reduction in Payment for Nonconformance to Air Void Requirements	
Percent Defective (PD) Per Lot	Reduction Per Lot (%)
$0 < PD \leq 15$	0
$15 < PD \leq 30$	0.5
$30 < PD \leq 35$	2
$35 < PD \leq 40$	10
$40 < PD \leq 45$	15
$45 < PD \leq 50$	20

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

50 < PD ≤ 60	30
60 < PD ≤ 75	45
PD > 75	Remove & Replace

5. **Outlier Detection.** If PD < 10, the Laboratory will not screen for outliers. If PD ≥ 10, the Laboratory will screen acceptance cores for outliers using a statistically valid procedure. The following procedure applies only for a sample size of 5 or 10.

1. The Laboratory will arrange the core results in ascending order, in which X<sub>1</sub> represents the smallest value and X<sub>N</sub> represents the largest value.
2. If X<sub>N</sub> is suspected of being an outlier, the Laboratory will calculate:

$$R = \frac{X_N - X_{(N-1)}}{X_N - X_1}$$

3. If X<sub>1</sub> is suspected of being an outlier, the Laboratory will calculate:

$$R = \frac{X_2 - X_1}{X_N - X_1}$$

4. For N = 5 if R > 0.642, the value is judged to be statistically significant and the core is excluded.  
For N = 10 if R > 0.412, the value is judged to be statistically significant and the core is excluded.

If an outlier is detected for N = 5 and no retest is warranted, the Contractor may replace that core by taking an additional core at the same offset and within 5 feet of the original station. If an outlier is detected and a retest is justified, take a replacement core for the outlier at the same time as the 5 additional retest cores are taken. If the outlier replacement core is not taken within 15 days, the Laboratory will use the initial core results to determine reduction per lot.

If an outlier is detected for N = 10, the Contractor may replace that core by taking an additional core at the same offset and within 5 feet of the original station. If the outlier replacement core is not taken within 15 days, the Laboratory will use the initial core results to determine the reduction per lot.

6. **Retest.** If the initial series of 5 cores produces a percent defective value of PD ≥ 30 for mainline or ramp lots, or PD ≥ 50 for other pavement lots, the Contractor may elect to take an additional set of 5 cores at random locations chosen by the HMA Core Sampling Plan form. Take the additional cores within 15 days of receipt of the initial core results. If the additional cores are not taken within the 15 days, the Laboratory will use the initial core results to determine the PPA. If the additional cores are taken, the Laboratory will recalculate the reduction per lot using the combined results from the 10 cores.

7. **Removal and Replacement.** If the final lot PD ≥ 75 (based on the combined set of 10 cores or 5 cores if the Contractor does not take additional cores), remove and replace the lot and all overlying work. The replacement work is subject to the same requirements as the initial work.

For shoulder lots, the Department will assess the calculated reduction per lot instead of removal and replacement. Fog seal the lot as specified in 422.03.01.

2\*\*\*\*\*2

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**I. Thickness Requirements**

2\*\*\*\*\*  
FOR WHOLLY STATE FUNDED PROJECTS INCLUDE THE FOLLOWING

3\*\*\*\*\*3  
PERFORM THE FOLLOWING FOR RESURFACING PROJECTS:

DELETE THIS SUBSECTION AND REPLACE THIS SUBSECTION’S CONTENTS WITH THE FOLLOWING:  
This subsection is deleted. In no instance will a compacted average thickness of less than 1.25 inches be acceptable.

3\*\*\*\*\*3  
PERFORM THE FOLLOWING FOR NEW CONSTRUCTION, COMPLETE RECONSTRUCTION OR  
WIDENINGS GREATER THAN EIGHT FEET

DELETE THIS SUBSECTION AND REPLACE THIS SUBSECTION’S CONTENTS WITH THE FOLLOWING:

Thickness requirements will apply when full-depth, uniform-thickness HMA pavement construction is shown.

Pavement lots are defined as approximately 15,000 square yards of pavement area. The Engineer will not include areas consisting of different HMA mixtures or thicknesses in the same lot. If thickness lot area is less than 5000 square yards, the District Local Aid Office may waive the thickness requirements.

The RE will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program ([www.amrl.net](http://www.amrl.net)). The Laboratory’s accreditation must include AASHTO T 166 and AASHTO T 209.

The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

The Laboratory will test for thickness using the full-depth cores taken for surface course air voids, evaluated according to NJDOT B-4. The Laboratory will base acceptance on total thickness and thickness of the surface course.

- 1. **Total Thickness.** The Laboratory will calculate the percent defective (PD) as the percentage of the lot that is less than the design thickness. The Laboratory will consider 25 percent defective as the acceptable quality limit. For lots where PD < 25, the Department will award a positive pay adjustment. For lots where PD > 25, the Department will assess a negative pay adjustment.

The Department will base total thickness acceptance on the percentage of the lot estimated to fall below the specified thickness as follows

- a. **Sample Mean ( $\bar{X}$ ) and Standard Deviation (S) of the N Test Results ( $X_1, X_2, \dots, X_N$ ).** Calculate as specified in 401.03.07.H.1.

$$\bar{X} = \frac{(X_1 + X_2 + \dots + X_N)}{N}$$

$$S = \sqrt{\frac{(X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 + \dots + (X_N - \bar{X})^2}{N - 1}}$$

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

b. **Quality Index (Q<sub>L</sub>)**

$$Q_L = \frac{(\bar{X} - T_{des})}{S}$$

Where T<sub>des</sub> = design thickness.

- c. **Percent Defective (PD).** Using NJDOT ST for the appropriate sample size, determine the percentage of material (PD) falling below the design thickness associated with Q<sub>L</sub> (lower limit).
- d. **Reduction in Payment.** The Department will determine the reduction in payment based on the quantity of the surface course multiplied by the percent reduction in payment from Table 401.03.07-5.

<b>Percent Defective</b>	<b>Percent Reduction</b>
0 to 25.0	0
25.1 to 30.0	2
30.1 to 35.0	5
35.1 to 40.0	10
40.1 to 45.0	20
Over 45.0	Remove & Replace

- e. **Retest.** If the initial series of 5 cores produces a percent defective value of PD ≥ 30, the Contractor may elect to take an additional set of 5 cores at random locations chosen by the RE. Notify the RE within 15 days of receipt of the initial core results to take the additional cores. If the RE is not notified within the 15 days, the Laboratory will use the initial core results to determine the reduction in payment for nonconformance requirements. If the additional cores are taken, the ME will recalculate the reduction in payment for nonconformance requirements using the combined results from the 10 cores.
- f. **Removal and Replacement.** If the lot PD ≥ 45, remove and replace, or mill and overlay, the lot. The replacement work is subject to the same requirements as the initial work.
2. **Surface Course Thickness.** The Laboratory will evaluate the surface course solely to determine whether a remove- and-replace or an overlay condition exists, not for pay adjustment. The Laboratory will calculate the percent defective (PD) as the percentage of the lot that is less than the allowable thickness for the nominal maximum aggregate used in the surface course. The Laboratory will accept pavement lots with PD ≤ 30 and will reject pavement lots with PD > 30.

The Laboratory will base surface thickness acceptance on the percentage of the lot estimated to fall below the allowable thickness as follows:

- a. **Sample Mean (X) and Standard Deviation (S) of the N Test Results (X<sub>1</sub>, X<sub>2</sub>,..., X<sub>N</sub>).** Calculate using the formula as specified in 401.03.03.I.1.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

- b. Quality Index (Q).

$Q_L = (X - T_{all})/S$ , where  $T_{all}$  is the minimum allowable thickness from Table 401.03.07-6.

Table 401.03.07-6 Surface Course Thickness Requirements	
HMA Mix Design Size Designation	Minimum Allowable Compacted Lift Thickness ( $T_{all}$ )
4.75 MM	0.50 inch
9.5 MM	1.00 inch
12.5 MM	1.25 inches
19 MM	2.00 inches

- c. **Percent Defective.** Using NJDOT ST - Statistical Tables (NJDOT Standard Specs for Roads and Bridges 2019-NJDOT TEST METHODS) for the appropriate sample size, determine the percentage of material (PD) falling below the allowable thickness associated with  $Q_L$  (lower limit).
- d. **Retest.** If the initial series of 5 cores produces a percent defective value of  $PD > 30$ , the Contractor may take an additional 5 cores at random locations determined by the Laboratory. Notify the RE within 15 days of receipt of the initial core results to take the additional cores. If the RE is not notified within the 15 days, the Laboratory will use the initial core results to determine the PPA. When the additional cores are taken, the Laboratory will recalculate the reduction in payment for nonconformance requirements using the combined results from the 10 cores to obtain the total PD.
- e. **Removal and Replacement.** If the surface course fails to meet the acceptance requirement with a  $PD \leq 45$ , the Department will require removal and replacement of the lot. The replacement work is subject to the same requirements as the initial work.

3\*\*\*\*\*3

2\*\*\*\*\*2

**J. Ride Quality Requirements.**

REPLACE THIS SUBSECTION WITH THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

The Department will evaluate the ride quality of the final riding surface of all constructed pavement on the project, for routes designated as National Highway System (NHS) and routes under NJDOT jurisdiction, using the International Roughness Index (IRI) according to ASTM E 1926. All NHS roadways are listed on the Department’s website [here](#). The Department may evaluate ride quality of other routes not designated as NHS or under NJDOT jurisdiction. The final riding surface is defined as the last lift of the pavement structure where traffic will be allowed. The pavement will be evaluated using the current average IRI (C) to select the target IRI (T) from Table 401.03.07-8. The current average IRI (C) is defined as the preconstruction ride quality measured not more than two years from the start of the project pavement construction.

The RE will designate an independent testing agency to perform the ride quality testing and analysis. The testing agency is required to comply with testing and certification requirements according to NJDOT R-1. If the current average IRI (C) is not available, then the testing agency will test, analyze and report ride quality before pavement construction to measure current average IRI (C). The testing agency will use and submit to the RE the [IRI Testing](#)

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[Summary Report form](#) provided from The Local Aid District Office and verify manually the pay adjustment calculation.

Current IRI data for paving routes designated NHS or NJDOT jurisdiction can be made available by request by contacting Simon Nwachukwu at [Simon.Nwachukwu@dot.nj.gov](mailto:Simon.Nwachukwu@dot.nj.gov).

For projects paving routes designated NHS or NJDOT jurisdiction on mainline travel lanes equal to or greater than 2,500 feet length and any lane within the project of at least 1,000 feet length, the Department will evaluate the ride quality of the final riding surface of the mainline travel lanes using IRI. The Department will use the measured IRI to calculate the pay adjustment (PA) using pay adjustment equation (PAE) type PA1 as specified in Table 401.03.07-7. PA will be based on lots of 0.01 mile length. The PA will be zero for acceptable quality and negative for inferior quality work.

For projects paving routes designated NHS or NJDOT jurisdiction on mainline travel lanes of less than 2,500 feet length, the RE will visually inspect the final riding surface. Based on visual inspection, if the RE determines that the work may not conform to the ride quality requirements, then the Department will evaluate the ride quality of the final riding surface using IRI. Visual inspection by the RE is considered sufficient grounds for such evaluation. The Department will use the measured IRI to calculate the PA using pay equation type PA1 as specified in Table 401.03.07-7.

For paving on ramps and shoulders, the RE will visually inspect the final riding surface. Based on visual inspection, if the RE determines that the work may not conform to the ride quality requirements, then the Department will evaluate the ride quality of the final riding surface using IRI. Visual inspection by the RE is considered sufficient grounds for such evaluation. The Department will use the measured IRI to calculate the pay adjustment using pay equation type PA2 as specified in Table 401.03.07-7.

When paving over bridge structures on NHS or NJDOT jurisdiction roadways, the Department will use the measured IRI to calculate the pay adjustment using pay equation type PA3 as specified in Table 401.03.07-7.

For paving on Local roadways other than NHS and NJDOT jurisdiction on mainline travel lanes equal to or greater than 2,500 feet length and any lane within the project of at least 1,000 feet length, the Department may evaluate the ride quality of the final riding surface of the mainline travel lanes using IRI. Local roadways are defined as municipal and county roads that are not designated as part of the NHS. The Department will use the measured IRI to calculate the pay adjustment (PA) using pay adjustment equation (PAE) type PA4 as specified in Table 401.03.07-7.

1. **Smoothness Measurement.** The Department will test the longitudinal profile of the final riding surface for ride quality with a Class 1 Inertial Profiling System according to NJDOT R-1. If project conditions preclude the use of the Class 1 Inertial Profiling System, the Department will use a Class 1 Walking Profiler or lightweight profiler.
2. **Quality Control Testing.** Perform quality control testing during lift placement to ensure compliance with the ride quality requirements specified in Table 401.03.07-8.
3. **Preparation for IRI Testing.** Notify the RE when all paving is complete and the RE will request IRI testing by independent testing agency. Provide traffic control when the independent testing agency performs IRI testing. Perform mechanical sweeping of the surface before IRI testing. To facilitate auto triggering on laser profilers, place a single line of temporary pavement marking tape perpendicular to the roadway baseline at the beginning and end of each lane, shoulder, and ramp to be tested or as per direction of the independent testing agency. Submit the actual stationing for each temporary pavement marking tape location to the RE.
4. **Quality Acceptance.** The Department will determine acceptance and provide PA based on the following:
  - a. **Pay Adjustment.** The acceptable IRI for the roadway pavement will be the target IRI (T) from Table 401.03.07-8 rounded to the nearest whole number for which full payment will be made and will be determined using the latest available current average IRI (C) data. The number of lots for final pay adjustment will be reduced by the number of lots excluded for each segment shown in Table 401.03.07-7. Lots excluded from final PA will be those with the highest recorded IRI numbers for respective roadway

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and bridge deck segments. A single average IRI value and the corresponding PA for each 0.01 mile lot will be reported. IRI units are in inches per mile.

Table 401.03.07-7 Pay Adjustment Equations (PAE) for Ride Quality			
Pay Equation Type	Exclusions	Pay Equations	
PA1	As shown in the Special Provisions Table 401.03.07-7A	IRI < T	PA1 = PAE (see note 2)
		T ≤ IRI ≤ 170	PA1 = PAE
		IRI > 170	PA1 = -A or Corrective action
PA2	Will include, if tested	IRI ≤ 120	PA2 = 0
		120 < IRI ≤ 170	PA2 = (IRI - 120) x (-\$5.00)
		IRI > 170	Maximum Negative Pay or Corrective action
PA3	Will include, if tested	IRI ≤ 120	PA3 = 0
		120 < IRI ≤ 170	PA3 = PAE
		IRI > 170	PA3 = -A or Corrective action
PA4	Will include, if tested	IRI ≤ T	PA4 = 0
		T < IRI ≤ T + 80 or 170 whichever is higher	PA4 = (IRI - T) x (-\$1.25)
		IRI > T + 80 or 170 whichever is higher	Maximum Negative Pay or Corrective action

$$PAE = \frac{A}{-37.75347 \times \log_e(T) + 194.87} - \frac{A}{-37.75347 \times \log_e(IRI) + 194.87}$$

$$A = 1267.2 \left[ \frac{M}{9} + \frac{PD}{150} \right]$$

P = Bid price of last lift of the pavement structure to be evaluated or price listed in table 401.03.07-7B, whichever is higher, per Ton

D<sup>1</sup> = Design thickness of last lift to be evaluated, Inch

M = Bid price of Milling, per Square Yard

T = Target IRI

- For various design thicknesses of last lift to be evaluated within a segment, calculate the thickness using the following equation:

$$\text{Design thickness of last lift to be evaluated (D)} = \frac{D_1 N_1 + D_2 N_2 + \dots + D_N N_N}{N_1 + N_2 + N_3 + \dots + N_N}$$

Where:

D<sub>N</sub> = Design thickness of the last lift to be evaluated of N sections having same mix, Inch

N<sub>N</sub> = Number of lots of N section with design thickness D<sub>N</sub> of last lift to be evaluated

- Positive pay adjustment will be used to offset negative pay adjustment. Total pay adjustment for each lane will not be greater than zero, but may result in a negative pay adjustment.

3\*\*\*\*\*3

**COMPLETE AND INCLUDE TABLE 401.03.07-7A FOR ANY ROADWAYS THAT ARE TO BE EXCLUDED FROM THE RIDE QUALITY REQUIREMENTS OF SUBSECTION 401.03.07.J:**

THE FOLLOWING IS ADDED:

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**Table 401.03.07-7A Exclusions for Resurfacing or Reconstruction**

Roadway	Lane Number	Exclusions
---------	-------------	------------

Lane designation is by increasing numbers from left to right in the direction of traffic with left lane being Lane 1.

3\*\*\*\*\*3

**Table 401.03.07-7B Minimum Value of P**

Surface Course Mix	P
Hot Mix Asphalt (Dense Graded) with PG 64-22 binder	\$60.00
Hot Mix Asphalt (Dense Graded) with PG 64E-22 binder	\$70.00
Stone Matrix Asphalt, High Performance Thin Overlay, Ultra-Thin Friction Course, Open Graded or Gap Graded Mixes not specified in this table	\$80.00
Bridge Deck Waterproof Surface Course	\$250.00

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**Table 401.03.07-8 Target IRI for Resurfacing or Reconstruction (T)<sup>3</sup>**

Roadway Type	Current average IRI (C)	New Construction or Reconstruction	Number of Operation for other than New Construction or Reconstruction <sup>5</sup>			
			One <sup>4</sup>	Two <sup>4</sup>	Three <sup>4</sup>	Four or More <sup>4</sup>
Target IRI (T)						
NHS & NJDOT Freeways or Limited Access Highways	≤ 60	50	50	50	50	50
	61 to ≤95		53	50	50	50
	96 to ≤170		55	53	50	50
	171 to ≤200		0.64C <sup>7</sup>	55	53	50
	201 to ≤285			58	55	50
	>286 <sup>8</sup>			60	58	53
NHS & NJDOT Roadways other than Freeways or Limited Access Highways with speed limit > 35 MPH	≤ 60	60	60	60	60	60
	61 to ≤95		63	60	60	60
	96 to ≤170		66	63	60	60
	171 to ≤200		0.64C <sup>7</sup>	66	63	60
	201 to ≤285			69	66	60
	>286 <sup>8</sup>			72	69	63
NHS & NJDOT Roadways other than Freeways or Limited Access Highways with speed limit ≤ 35 MPH	≤ 60	70	70	70	70	70
	61 to ≤95		74	70	70	70
	96 to ≤170		77	74	70	70
	171 to ≤200		0.64C <sup>7</sup>	77	74	70
	201 to ≤285			81	77	70
	>286 <sup>8</sup>			84	81	74
Local Roadway with Posted Speed ≥45 MPH	C	80	0.7C or 80 whichever is higher	0.49C or 80 whichever is higher	0.34C or 80 whichever is higher	0.24C or 80 whichever is higher
Local Roadway with Posted Speed <45 MPH	C	100	0.84C or 100 whichever is higher	0.59C or 100 whichever is higher	0.41C or 100 whichever is higher	0.29C or 100 whichever is higher

- The Department will determine target IRI (T) of roadways containing multiple speed limits of greater than 35 MPH and less than or equal to 35 MPH based on the following equation:

$$\text{Target IRI of a roadway consists of N Roadway type (T)} = \frac{T_1 L_1 + T_2 L_2 + \dots + T_N L_N}{L_1 + L_2 + L_3 + \dots + L_N}$$

Where T<sub>N</sub> is the Target IRI of N section and L<sub>N</sub> is the length of N section in miles to the nearest 0.01 mile

- Current average IRI (C) is the average of the latest available preconstruction IRI data.
- The target IRI (T) is selected or calculated from the table and rounded to the nearest whole number.
- Multiply T with 1.05 for HMA over Concrete, if total HMA after proposed treatment is less than 8 inch thick.
- Milling is one operation. Paving each layer of asphalt mix is an individual operation unless plans specify paving a mix in two lifts. In such case, each lift is considered as an operation.
- Construction or reconstruction of full pavement box on subgrade is new construction or reconstruction.
- Use Pay Equation as below:

$$\begin{aligned} \text{IRI} \leq T & \quad \text{PA} = \text{PAE}^* \\ \text{IRI} > T & \quad \text{PA} = \text{PAE} \end{aligned}$$

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\*Positive Pay adjustment will be used to offset negative pay adjustment. Total pay adjustment for each lane will not be greater than zero, but may result in a negative pay adjustment.

8. For paving over rubblized concrete, use C >286 to determine target IRI, then multiply T with 1.05 if total HMA after proposed treatment is less than 8-inch thick.
  9. Paving in one lift with no corrective work such as milling, grinding or pre-levelling of at least 25 percent of surface area of existing pavement is one operation.
- 

- b. Corrective Action.** The Department may require corrective action or assess the maximum negative pay adjustment as computed in Table 401.03.07-7, if the average IRI after testing is performed of NHS or NJDOT jurisdiction roadway is greater than 170 inches per mile, or average IRI local roadway is greater than T+80 or 170 whichever is higher. If the Department requires corrective action submit a plan for corrective action. If the plan for corrective action is approved and the lot is corrected, the Department will retest and evaluate the corrected area as a new lot that must meet the same requirements as the initial work. If the plan for corrective action is not approved, the Department may require removal and replacement. The replacement work is subject to the same requirements as the initial work.

2\*\*\*\*\*2  
FOR WHOLLY STATE FUNDED PROJECTS PERFORM THE FOLLOWING

#### 401.03.08 Core Samples

REPLACE THIS SUBSECTION WITH THE FOLLOWING:

The LPA will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program ([www.amrl.net](http://www.amrl.net)). The Laboratory's accreditation must include AASHTO T 166 and AASHTO T 209. The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

Upon completion of an HMA lot, the Laboratory shall drill cores at random locations at least 12 hours after paving. Take cores in the presence of the RE. The Laboratory will determine air voids from 5 (Five) 6 inch diameter cores taken from each lot in random locations within the traveled way and at least one core in each travel lane. The HMA Coring Layout Sheet provided on the [Local Aid Website](#) must be utilized by the Laboratory to determine the random locations of the cores. The Laboratory may rerun the random location functions on the HMA Coring Layout Sheet to resolve any conflicts generated by the HMA Core Sampling Plan form and physical limitations of the HMA lot, such as utility conflicts, or the specifications defined herein. The Laboratory must disclose the contents of the HMA Core Sampling Plan with the Contractor to assist in the schedule of construction.

The Laboratory shall use drilling equipment with a water-cooled, diamond-tipped masonry drill bit that produces 6 inch nominal diameter cores for the full depth of the pavement. The Laboratory shall remove the core from the pavement without damaging it. After the Laboratory removes the core, the Laboratory shall remove all water from the hole. The Laboratory shall apply an even coating of tack coat to sides of the hole. The Laboratory shall place cold patching material or HMA in maximum lifts of 4 inches in the hole and compact each lift. If cold patching material is utilized to fill the coring hole, then it is not necessary to apply tack coat to the sides of the hole. The Laboratory shall ensure that the final surface is 1/4 inch above the surrounding pavement surface.

**HMA cores are to be taken from the HMA lot for quality assurance sampling, testing and analysis within seven (7) days of completing the HMA lot.** For test strip lots and the first traveled way lot, the Laboratory shall deliver cores from the field to the testing Laboratory within 48 hours of completing the lot. The Laboratory shall deliver all other acceptance cores within 7 days of completing the lot.

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After each air void lot is placed, the Laboratory shall drill cores so that the full depth of the course is recovered for air void acceptance testing. If thickness acceptance testing is required as specified in 401.03.07.I, the Laboratory shall drill the surface course air void cores for the full depth of pavement.

The Laboratory shall utilize a tamper proof core sample box for core storage and transportation. The Laboratory shall ensure that the core sample box can be locked and sealed and is tamper proof in such a manner that it cannot be opened without removing the seals. The Laboratory shall ensure that the core sample box provides protection for the cores from being disturbed or damaged during transit. The Laboratory shall mark the assigned core number on the side of the sample. The Laboratory shall place core samples in the core sample box. The Laboratory shall transport the sealed core sample boxes to the testing Laboratory.

The Laboratory will not accept damaged core samples for testing. If the core sample box exhibits indications of tampering, the core samples will be rejected. If any core samples are rejected, drill a replacement core at the same offset and within 5 feet of the original station and deliver to the Laboratory as specified above within 48 hours.

If the project is utilizing quality control cores, the Laboratory shall provide the results of the quality control core testing to the Contractor in a timely manner which will not unnecessarily impede construction.

1\*\*\*\*\*1

**401.04 Measurement and Payment**

REPLACE THIS SUBSECTION WITH THE FOLLOWING:

The Department will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
HMA MILLING, 3" OR LESS	SQUARE YARD
HMA MILLING, MORE THAN 3" TO 6"	SQUARE YARD
CONCRETE MILLING	SQUARE YARD
MICRO-MILLING	SQUARE YARD
HMA PROFILE MILLING	SQUARE YARD
HOT MIX ASPHALT PAVEMENT REPAIR	SQUARE YARD
HMA LONGITUDINAL JOINT REPAIR	SQUARE YARD
SEALING OF CRACKS IN HOT MIX ASPHALT SURFACE COURSE	LINEAR FOOT
POLYMERIZED JOINT ADHESIVE	LINEAR FOOT
TACK COAT	GALLON
TACK COAT 64-22	GALLON
POLYMER MODIFIED TACK COAT	GALLON
PRIME COAT	GALLON
HOT MIX ASPHALT _____ SURFACE COURSE	TON
HOT MIX ASPHALT _____ SURFACE COURSE HIGH RAP	TON
HOT MIX ASPHALT _____ INTERMEDIATE COURSE	TON
HOT MIX ASPHALT _____ INTERMEDIATE COURSE HIGH RAP	TON
HOT MIX ASPHALT _____ BASE COURSE	TON
HOT MIX ASPHALT _____ BASE COURSE HIGH RAP	TON

The specified depth of the milling is measured from the original surface to the top of the high spots of the textured surface.

The Department will measure HMA LONGITUDINAL JOINT REPAIR before overlay by the square yard of the area.

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The RE will measure HOT MIX ASPHALT PAVEMENT REPAIR before overlay by the square yard of area bounded by the sawcuts.

The RE will measure TACK COAT, TACK COAT 64-22, PRIME COAT, and POLYMER MODIFIED TACK COAT by the volume delivered, converted to the number of gallons at 60 °F as calculated by the temperature-volume correction factors specified in 902.01.

The RE will measure HOT MIX ASPHALT \_\_\_\_\_ SURFACE COURSE, HOT MIX ASPHALT \_\_\_\_\_ INTERMEDIATE COURSE, and HOT MIX ASPHALT \_\_\_\_\_ BASE COURSE by the ton as indicated on the certified weigh tickets, excluding unused material. When nominal maximum aggregate size 3/8 inch HMA surface course is directed for use in transition (run out) areas, the Department will include this weight with the weight for HOT MIX ASPHALT \_\_\_\_\_ SURFACE COURSE.

The Department will not include payment for polymerized joint adhesive in the various paving Items. The Department will make payment for polymerized joint adhesive under POLYMERIZED JOINT ADHESIVE.

The Department will make a payment adjustment for HMA air void quality per lot by the following formula:

$$\text{Pay Adjustment Per HMA Lot} = - Q \times \text{BP} \times \text{Reduction Per Lot (\%)}$$

Where:

- BP = Bid Price of HMA
- Q = Quantity of HMA in lot receiving payment adjustment
- Reduction Per Lot (%) = Air void Reduction (%) per lot as specified in 401.03.07.H.

The Department will make a payment adjustment for HMA thickness quality per lot by the following formula:

$$\text{Pay Adjustment Per HMA Lot} = - Q \times \text{BP} \times \text{Percent Reduction (\%)}$$

Where:

- BP = Bid Price of HMA
- Q = Quantity of HMA in lot receiving payment adjustment
- Percent Reduction (%) = Thickness Percent Reduction (%) per lot as specified in 401.03.07.I.

The Department will make a payment adjustment for HMA ride quality, as specified in 401.03.07.J.

↑\*\*\*\*\*1

## SECTION 403 – ULTRA-THIN FRICTION COURSE

### 403.03.01 Ultra-Thin Friction Course

↑\*\*\*\*\*1

INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS:

REPLACE THE FIRST PARAGRAPH OF SECTION 401.03.01.F WITH THE FOLLOWING:

**Test Strip.** Construct a test strip for the first 700 to 1,200 square yards placed of ultra-thin friction course. If the ultra-thin friction course paving lot area is less than 700 square yards, the Regional District Local Aid Office may waive the coring requirement. Operate spray paver without mix to determine tack coat application rate for the project. Ensure that the polymer modified tack coat has been placed as specified in 401.03.05. Transport and deliver, spread and grade, and compact as specified in [403.03.01.D](#), [403.03.01.E](#), and [403.03.01.F](#), respectively, and according to the approved paving plan. While constructing the test strip, record the following information and submit to the RE:

↑\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SECTION 405 – CONCRETE SURFACE COURSE**

**405.03.02 Concrete Surface Course**

**A. Concreting Plan.**

1\*\*\*\*\*1

**BDC20S-09 DATED JUL 6, 2020**

PART (4) IS CHANGED TO:

- 4. Lighting plan for night operations as specified in 108.06.

1\*\*\*\*\*1

**I. Thickness Requirements.**

**INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS:**

ADD THE FOLLOWING AS THE LAST SENTENCE OF THE FIRST PARAGRAPH OF SECTION **405.03.02.I**:

If the total thickness course paving lot area is less than 5000 square yards, the Regional District Local Aid Office may waive the coring requirement.

1\*\*\*\*\*1

**J. Ride Quality Requirements.**

- 4. Quality Acceptance.

- a. Pay Adjustment.

1\*\*\*\*\*1

**SEND EMAIL TO SME TO REQUEST THE EXCLUSIONS IN TABLE 405.03.02-1A FOR ROADWAYS WITHIN THE PROJECT AND INCLUDE THE FOLLOWING**

**SME CONTACT – PAVEMENT & DRAINAGE MANAGEMENT & TECHNOLOGY UNIT**

THE FOLLOWING IS ADDED:

Table 405.03.02-1A Exclusions for Concrete Surface Course		
Roadway	Lane Number	Exclusions

Lane designation is by increasing numbers from left to right in the direction of traffic with left lane being Lane 1.

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



**DIVISION 420 – PAVEMENT PRESERVATION TREATMENTS**

**SECTION 421 – MICRO SURFACING AND SLURRY SEAL**

**421.03.03 Micro Surfacing Aggregate and Micro Surfacing Emulsion**

**A. Micro Surfacing Plan.**

1\*\*\*\*\*1

**BDC20S-09 DATED JUL 6, 2020**

PART (4) IS CHANGED TO:

- 4. Lighting plan for night operations as specified in 108.06 for milling and paving.

1\*\*\*\*\*1

**J. Ride Quality Requirements.**

- 4. Quality Acceptance.

**a. Pay Adjustment.**

1\*\*\*\*\*1

**SEND EMAIL TO SME TO REQUEST THE EXCLUSIONS IN TABLE 421.03.03-2A FOR ROADWAYS WITHIN THE PROJECT AND INCLUDE THE FOLLOWING**

**SME CONTACT – PAVEMENT & DRAINAGE MANAGEMENT & TECHNOLOGY UNIT**

THE FOLLOWING IS ADDED:

Table 421.03.03-2A Exclusions for Micro Surfacing or Slurry Seal		
Roadway	Lane Number	Exclusions

Lane designation is by increasing numbers from left to right in the direction of traffic with left lane being Lane 1.

1\*\*\*\*\*1

**SECTION 422 – FOG SEAL**

**422.03.01 Fog Seal Surface Treatment**

**A. Fog Sealing Plan.**

1\*\*\*\*\*1

**BDC20S-09 DATED JUL 6, 2020**

PART (5) IS CHANGED TO:

- 5. Lighting plan for night operations as specified in 108.06 for paving.

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

# DIVISION 450 – CONCRETE PAVEMENT REHABILITATION

## SECTION 454 – DIAMOND GRINDING EXISTING CONCRETE PAVEMENT

### 454.03.02 Ride Quality Requirements

4. **Quality Acceptance.** The Department will determine acceptance and provide PA based on the following:

a. **Pay Adjustment.**

1\*\*\*\*\*1

SEND EMAIL TO SME TO REQUEST THE EXCLUSIONS IN TABLE 454.03.02-1A FOR ROADWAYS WITHIN THE PROJECT AND INCLUDE THE FOLLOWING

**SME CONTACT – PAVEMENT & DRAINAGE MANAGEMENT & TECHNOLOGY UNIT**

THE FOLLOWING IS ADDED:

Table 454.03.2-1A Exclusions for Diamond Grinding		
Roadway	Lane Number	Exclusions

Lane designation is by increasing numbers from left to right in the direction of traffic with left lane being Lane 1.

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**DIVISION 500 – BRIDGES AND STRUCTURES**

**SECTION 502 – LOAD BEARING PILES**

**502.03.03 Driving Piles**

**C. Test Piles.**

1\*\*\*\*\*1

**1. Static Pile Load Test.**

2\*\*\*\*\*2

**COMPLETE AND INCLUDE STATIC TEST LOAD TO BE APPLIED**

**SME CONTACT – GEOTECHNICAL ENGINEERING**

Apply a total of \_\_\_\_\_ tons of static test load to the piles.

2\*\*\*\*\*2

**2. Dynamic Pile Load Tests.**

2\*\*\*\*\*2

**SPECIFY IF RESTRIKE IS REQUIRED**

**SME CONTACT – GEOTECHNICAL ENGINEERING**

2\*\*\*\*\*2

1\*\*\*\*\*1

**SECTION 504 – STRUCTURAL CONCRETE**

**504.01 DESCRIPTION**

THE FOLLOWING IS ADDED:

1\*\*\*\*\*1

**BDC20S-10 DATED SEP 11, 2020**

This Section also describes the requirements for the application of color stain and primer to concrete structures and staining other areas as described herein and as shown on the plans.

1\*\*\*\*\*1

**504.02 Materials**

1\*\*\*\*\*1

**BDC20S-10 DATED SEP 11, 2020**

THE FOLLOWING MATERIAL IS ADDED TO THE LIST

Concrete Stain..... 912.01.04

1\*\*\*\*\*1

**504.03.02 Concrete**

1\*\*\*\*\*1

**G. Removal of Forms and Falsework.**

**COMPLETE AND INCLUDE THE FOLLOWING IF CONCRETE STRENGTH REQUIRED FOR THE REMOVAL OF FORMS AND FALSEWORK**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SME CONTACT – STRUCTURAL DESIGN**

Do not remove forms and falsework until the concrete obtains a compressive strength of \_\_\_\_ pounds per square inch.

1\*\*\*\*\*1

BDC20S-10 DATED SEP 11, 2020

THE FOLLOWING SUBPART IS ADDED:

**504.03.04 Concrete Staining**

Prior to staining, examine the surfaces to be stained. Bring areas requiring patching or repair to the attention of the RE.

- A. **Submittals.** Submit product information and manufacturer color chip sample for approval by the Office of Landscape Architecture.
- B. **Cleaning.** After the concrete areas and any patching has cured for at least 28 days, power wash all surfaces for initial preparation at a minimum pressure of 2,500 psi using a 25 degree tip and a standoff distance of 2 feet. Verify that all foreign materials, such as dirt, dust and form oil, have been removed and surfaces are clean prior to application of primer and stain. If contaminants are still present after initial preparation, vary power washing parameters or use other suitable methods to clean surfaces.
- C. **Test Staining.** Complete a test staining program for porosity, adhesion, and color acceptance before staining operations on approved textural mock-ups or in place according to contract plans. Test area(s) to include both smooth and textured concrete sections. Prepare test area for initial surface preparation as described in 504.03.04.B for inspection by the RE. If the staining mock-ups are approved, they may be included as part of the final construction.

After concrete has cured, test for porosity prior to testing for adhesion or color acceptance, on both the smooth concrete section and the textured concrete section by spraying water onto the surface to be stained. Notify the RE if the water does not absorb rapidly as per manufacturers recommendations.

If the concrete passed the porosity test, apply production stain to concrete as specified in 504.03.04.D. After the manufacturer’s recommended drying time of the stain, test for satisfactory adhesion of stain as described in Table 912.01.04-1.

The final stain color scheme will be approved by the Office of Landscape Architecture in the field after reviewing and approving the test stain program. Do not order final quantities of stain and primer until approved. When approved the sample area will serve as a standard of acceptance for all further work.

- D. **Stain and Primer.** Apply one coat of primer and one coat of stain to smooth concrete surfaces. Apply one coat of stain, only to textured concrete surfaces.
- E. **Stain Colors.** See the Special Provisions for stain colors.

2\*\*\*\*\*2

INCLUDE STAIN COLORS AS NEEDED FOR BASE, HIGHLIGHT, AND SHADOW COATS

**SME CONTACT – LANDSCAPE ARCHITECTURE**

2\*\*\*\*\*2

1\*\*\*\*\*1

**504.04 MEASUREMENT AND PAYMENT**

1\*\*\*\*\*1

BDC20S-10 DATED SEP 11, 2020

THE FOLLOWING ITEM IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
CONCRETE STAINING	SQUARE YARD

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

1\*\*\*\*\*1

**SECTION 505 – PRECAST AND PRESTRESSED STRUCTURAL CONCRETE**

**505.03.01 Pretensioned Prestressed Concrete Beam and Prestressed Concrete Beam**

1\*\*\*\*\*1

**BDC21S-07 DATED MAY 25, 2021**

THE FIRST PARAGRAPH IN PART A IS CHANGED TO:

- A. Working Drawings.** Submit working drawings for certification, as specified in 105.05, that include the class of concrete, the pattern and schedule for releasing strands before detensioning, detensioning concrete strength, and tensioning and detensioning patterns.

PART C IS CHANGED TO:

- C. Erection Plan.** Submit working drawings for approval, as specified in 105.05, regarding the plan of operations to the RE at least 30 days before the pre-erection meeting. Include, at a minimum, the following in the plan:
  1. Number and type of manpower and equipment.
  2. Shipping procedures.
  3. Lifting procedures.
  4. Erecting sequence.
  5. Temporary bracing.
  6. Manufacturer’s recommendations.
  7. Procedures for employee safety.
  8. Traffic control and protection.
  9. Method of post-tensioning and determining friction loss.
  10. Anchorage details and design calculations, signed and sealed by a Professional Engineer.

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**505.03.02 Precast Concrete Culvert**

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**BDC21S-07 DATED MAY 25, 2021**

PART A IS CHANGED TO:

- A. Working Drawings.** Submit working drawings for approval, as specified in 105.05, that show plan, elevation, and sections as well as details for all appurtenances such as headwalls, cutoff walls, wingwalls, and aprons. In addition, include details of the neoprene gasket between the precast concrete culvert units as well as all threaded inserts, bar extensions, waterproofing, and end anchorage details for the post-tensioning reinforcement. Provide erection details including handling points, neoprene gasket details, the method for pulling the culvert boxes together, section lengths, and the method of installing the units.

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**SECTION 506 – STRUCTURAL STEEL**

**506.03.01 Structural Steel**

1\*\*\*\*\*1

**BDC21S-07 DATED MAY 25, 2021**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

PART B IS CHANGED TO:

**B. Erection Plan.** At least 30 days before the pre-erection meeting, submit working drawings for approval, as specified in 105.05, regarding the plan of operations to the RE. Include, at a minimum, the following in the plan:

1. Number and type of manpower and equipment.
2. Shipping procedures.
3. Lifting procedures.
4. Beam erecting sequence, including method of setting bearings and diaphragms.
5. Temporary bracing.
6. Manufacturer’s recommendations.
7. Procedures for employee safety.
8. Traffic control and protection.

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## SECTION 507 – CONCRETE BRIDGE DECK, BRIDGE PARAPET, AND APPROACHES

### 507.02.01 Materials

↑\*\*\*\*\*↑

BDC21S-05 DATED JAN 06, 2023

THE FOLLOWING IS ADDED:

Provide and use a penetrating type of protective sealer as directed by the RE.

Ensure the protective sealer does not contain an aqueous solvent or carrier.

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### 507.03.01 Joint Assemblies

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BDC21S-08 DATED NOV 18, 2021

#### A. Working Drawings.

PART A IS CHANGED TO:

Submit working drawings for approval, as specified in 105.05, for modular expansion joint assemblies. Submit working drawings for certification, as specified in 105.05, for strip seal expansion joint assemblies, preformed elastomeric joint assemblies, and other types of expansion joint assemblies. Finger joint assemblies are not allowed. As a minimum, indicate the following information on the working drawings:

1. Plan, elevation, and section of the joint system for all movement ratings and roadway width limitations, as well as relative dimensions and tolerances.
2. All ASTM, AASHTO, or other material designations.
3. Method of installation including sequence of installation, relative temperature settings, setting anchorage, and installation at curb lines.
4. Corrosion protection system or material.
5. Details of temporary supports for shipping and handling. Include lifting mechanisms and locations.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

6. Design calculations for all structural elements. As warranted, include fatigue design calculations and strength design calculations. Indicate locations of all welded splices.
7. Design the joint system as one continuous unit without field splices. If due to shipping or construction requirements, splices are necessary indicate that the locations of the splices are to be in areas outside the main traffic lanes. Provide field splicing procedures.
8. Ensure that the removal and reinstallation of the strip seal can be accomplished from above the joint without full closure of the roadway.
9. Ensure that the expansion joint assembly seals do not protrude above the top of the joint. Use preformed neoprene strip seals that are mechanically held in place.

In addition, for modular expansion joint assemblies, incorporate the following requirements:

1. Provide the modular expansion joint assembly to accommodate all expected longitudinal movements as well as vertical and horizontal rotations. Incorporate strip seal glands with a maximum movement range of 3.15 inches per seal. Support centerbeam(s) with an independent support bar that is welded to the centerbeam. Suspend the support bars over the joint opening by sliding elastomeric bearings. Incorporate an equidistant control system that develops its maximum compressive force when the joint is at its maximum opening. Do not use bolted connections between the centerbeams and support bars unless approved by the Designer. If bolted connections are approved, lock them into position after tightening. Provide tightening procedure for Designer's approval to ensure all bolts cannot loosen during the service life.
2. Provide continuous centerbeams without any field splice unless approved by the Designer. If a field splice is inevitable due to a manufacturing constraint, provide a fatigue resistant field splice (welded or bolted, and located away from potential wheel paths) and installation procedure. Submit welding procedure specification (WPS), welder qualification, weld procedure, and QC inspection plans for field welds for Designer's approval. Installation is to be supervised by the Manufacturer and Contractor. If bolted connections are used, provide a bolt tightening procedure and ensure bolt loosening does not happen during service life. Provide continuous strip seals even if centerbeams are spliced.

Verify the blockout location, dimensions, and details shown on contract plans, and ensure that installation of a modular expansion joint assembly shall fit in the blockouts on site.

3. Fatigue test the modular expansion joint assembly, including the transverse centerbeams, support bars, and other structural elements and connections, according to Section 19/A19 of AASHTO LRFD Construction Specifications. Submit prequalification fatigue test report. Ensure welded (or bolted, if approved) details used in project products match those that have been fatigued tested. When a fatigue test report is not available, welded, or bolted details may be fatigue designed in accordance with Section 14 of AASHTO LRFD Bridge Design Specifications as approved by the Designer.
4. Perform prequalification tests, Open Movement and Vibration (OMV) testing and Seal Push-Out (SPO) testing as specified in 914.04.03 for review and approval by the Designer.
5. Provide the elastomeric springs and bearings to be removable and replaceable in the event maintenance is necessary.

Verify the blockout location, dimensions, and details shown on contract plans, and ensure that installation of a modular expansion joint assembly shall fit in the blockouts on site.

**B. Installation.**

PART 3 IS CHANGED TO:

3. **Modular Expansion Joint Assemblies.** Modular expansion joint assemblies include preformed neoprene strip seals that are held in place by steel edgebeams and centerbeams, support bars to support the centerbeam and sliding elastomeric bearings. These assemblies contain no bolted connections unless approved by the Designer.

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**507.03.02 Concrete Bridge Deck**

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BDC21S-07 DATED MAY 25, 2021

**A. Forms.** Construct forms as follows:  
THE FIRST PARAGRAPH IN PART 1 IS CHANGED TO:

- 1. **Stay-In-Place (SIP) Forms.** Submit working drawings for approval, as specified in 105.05, that include the following:
  - a. Deck reinforcement location.
  - b. Grade of steel.
  - c. Galvanizing specification.
  - d. Physical and section properties for all permanent steel bridge deck form sheets.
  - e. Locations where the forms are supported by steel flanges subject to tensile stresses.

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**507.03.05 Concrete Parapet and Concrete Barrier Curb**

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BDC20S-10 DATED SEP 11, 2020

THE FOLLOWING PART 3 IS ADDED:

- 3. **Concrete Staining.** Perform concrete staining as specified in 504.03.04.

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BDC21S-05 DATED JAN 06, 2023

THE FOLLOWING SUBPART IS ADDED:

**507.03.08 Bridge Deck and Bridge Approach Sealing**

The RE will direct if and where to apply BRIDGE DECK AND BRIDGE APPROACH SEALING.

- A. Instructions.** At least 5 days prior to starting the sealing operation provide the RE with the manufacturer’s instructions for application and use. Use only 1 brand and specific type of sealer on each deck or approach slab.
- B. Surface Preparation.** Ensure the concrete is air dry for 24 hours after saw cut grooving is completed. If the concrete is subjected to rain or moisture from other project operations, extend the drying time by 24 hours from the time that the concrete has stopped being wetted. Complete all work such as surface texturing, saw cut grooving, barriers, parapets, sidewalks and safety walks prior to the cleaning the concrete surface. After the drying period has ended, clean the concrete surface by vacuum methods, to remove loose particles.  
  
After cleaning, ensure no laitance, standing water, oil, dirt or other foreign particles are present. Do not start sealer application until the RE approves the surface preparation.
- C. Weather Limitations.** Do not apply sealer materials during wet weather conditions or when adverse weather conditions are anticipated within 12 hours of completion of sealer application. Ensure ambient and surface temperatures, during application, and until the sealed concrete is dry to the touch, is maintained at a minimum of 40°F. Spray application is not permitted during windy conditions, if in the opinion of the RE, unsatisfactory results will be obtained.
- D. Sealer Application.** Do not alter or thin the sealer. Ensure sealer equipment is free of foreign materials. Apply the sealer by means of brushing, spraying or rolling, as recommended by the manufacturer.

Apply a minimum of 2 coats of the sealer to achieve uniform coverage. Apply the sealer to an application rate as recommended by the manufacturer and to the satisfaction of the RE. Apply second and each additional coat

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



perpendicular to the previous coat. Do not allow the sealer to run or puddle. Ensure each coat dries for a minimum of 2 hours before the next coat is applied. Ensure the final coat dries according to the manufacturer's instructions, prior to allowing traffic on the surface.

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**507.04 MEASUREMENT AND PAYMENT**

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**BDC21S-05 DATED JAN 06, 2023**

THE FOLLOWING PAY ITEM IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
BRIDGE DECK AND BRIDGE APPROACH SEALING	SQUARE FOOT

1\*\*\*\*\*1

1\*\*\*\*\*1

**BDC20S-10 DATED SEP 11, 2020**

THE FOLLOWING IS ADDED:

The Department will not include Concrete Staining under Concrete Parapet and Concrete Barrier Curb. The Department will make payment for Concrete Staining under CONCRETE STAINING.

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**BDC21S-05 DATED DEC 29, 2022**

THE FOLLOWING IS ADDED:

The Department will not make payment for BRIDGE DECK AND BRIDGE APPROACH SEALING if it is determined by the RE that cracking occurred due to fault of the contractor.

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**SECTION 510 – TIMBER STRUCTURES**

**510.03.02 Sheeting and Wales**

1\*\*\*\*\*1

**INCLUDE THE CORROSION REQUIREMENTS FOR METAL COMPONENTS, IF NECESSARY**

**SME CONTACT – STRUCTURAL DESIGN**

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**SECTION 512 – SIGN SUPPORT STRUCTURES**

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**512.04 MEASUREMENT AND PAYMENT**

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**INCLUDE THE FOLLOWING WHEN SUPPORT STRUCTURES FOR DYNAMIC MESSAGE SIGN (DMS) (OTHER THAN GROUND MOUNTED DMS) ARE PROPOSED.**

THE FOLLOWING ITEMS ARE ADDED:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

<i>Item</i>	<i>Pay Unit</i>
CANTILEVER SIGN SUPPORT, DMS STRUCTURE NO. ____	UNIT
BUTTERFLY SIGN SUPPORT, DMS STRUCTURE NO. ____	UNIT

2\*\*\*\*\*2

2\*\*\*\*\*2

INCLUDE THE FOLLOWING WHEN DRILLED SHAFT FOUNDATION IS PROPOSED.

THE FOLLOWING IS ADDED:

The Department will make payment for drilled shaft foundations for sign supports under DRILLED SHAFT FOR SIGN STRUCTURE FOUNDATION as specified in 51X.04.

2\*\*\*\*\*2

1\*\*\*\*\*1

INCLUDE THE FOLLOWING UPON ASSIGNING AN APPROPRIATE SECTION/SUBSECTION/SUBPART NUMBERS IF DRILLED SHAFT FOUNDATIONS FOR SIGN SUPPORT STRUCTURES IS NECESSARY

**SME CONTACT – STRUCTURAL DESIGN**

THE FOLLOWING SECTION IS ADDED:

**SECTION 513 – RETAINING WALLS**

1\*\*\*\*\*1

BDC20S-10 DATED SEP 11, 2020

THE FOLLOWING SUBPART IS ADDED:

**513.03.03 Concrete Staining**

Perform concrete staining as specified in 504.03.04.

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**513.04 MEASUREMENT AND PAYMENT**

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BDC20S-10 DATED SEP 11, 2020

THE FOLLOWING IS ADDED:

The Department will make payment for CONCRETE STAINING as specified in 504.04.

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**SECTION 514 – TEMPORARY STRUCTURES**

**514.03.01 Temporary Structures**

1\*\*\*\*\*1

BDC21S-07 DATED MAY 25, 2021

PART A IS CHANGED TO:

- A. **Working Drawings.** At least 30 days before beginning the work, submit working drawings for approval, as specified in 105.05.

PART B IS CHANGED TO:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**B. Erection Plan.** At least 30 days before beginning work, submit to the RE a plan for approval, as specified in 105.05, that includes the proposed equipment, detailed erection instructions and drawings of all structures, and the proposed scheme for traffic control during the erection and use.

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## SECTION 51X - DRILLED SHAFT FOUNDATIONS FOR SIGN SUPPORT STRUCTURES

### 51X.01 DESCRIPTION

This work describes the requirements for installing drilled shafts for sign support structures.

### 51X.02 MATERIALS

#### 51X.02.01 Materials

Provide materials as specified:

Concrete .....	903.03
Self Consolidating Concrete .....	903.06.01
Grout .....	903.08.02
Reinforcement Steel.....	905.01
Drilled Shaft Casing.....	906.03
Structural Steel Paint (Organic Zinc).....	912.01.01
Water.....	919.08

Provide clay-mineral based slurry (processed attapulgate or bentonite) for mineral slurry. Ensure that the mineral slurry has a mineral grain size that will remain in suspension and has sufficient viscosity and gel characteristics to transport excavated material to a suitable screening system. Ensure that the percentage and specific gravity of the material used to make the mineral suspension is sufficient to maintain the stability of the excavation and to allow proper concrete placement.

Provide polymer slurry as recommended by the manufacturer.

#### 51X.02.02 Equipment

Provide equipment as specified:

Concrete Batching Plant.....	1010.01
Concrete Trucks .....	1010.02

Ensure that equipment does not introduce uncontrolled exhaust fumes into the surrounding areas, or other occupied areas adjacent to the work site. Crane and drilling engine exhaust fumes will require their own separate exhaust systems adequately vented to the atmosphere away from any confined work sites.

Ensure that equipment used for final bottom cleaning does not have a centralizing guide at the tip.

Use excavation and drilling equipment having adequate capacity, including power, torque, and down thrust to excavate a hole of both the maximum specified diameter and to a depth of 20 percent beyond the depths shown on the plans when operated at rated capacity.

Provide Crosshole Sonic Logging (CSL) test equipment that includes the following components:

1. A microprocessor-based CSL system for display of individual CSL records, analog-digital conversion, and recording of CSL data, analysis of receiver responses, and printing of CSL logs.
2. Ultrasonic source and receiver probes for 1.5 or 2 inch inner diameter pipe, as appropriate.
3. An ultrasonic voltage pulser to excite the source with a synchronized triggering system to start the recording system.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

4. A depth measurement device to determine and record depths.
5. Appropriate filter/amplification and cable systems for CSL testing.

### **51X.03 CONSTRUCTION**

#### **51X.03.01 Working Drawings and Calculations**

Submit 6 copies of the following items to the RE for approval:

1. A summary of the Contractor's or his specialized drilled shaft subcontractor's experience on projects of a similar nature and scope. Select and obtain approval from the RE for the use of a specialty subcontractor. Approval will be based on qualifications and previous experience on similar projects.
2. List and size of proposed equipment including cranes, drills, augers, bailing buckets, final cleaning equipment, desanding equipment, slurry pumps, concrete pumps, temporary steel casing, slurry sampling, and testing equipment.
3. Details of equipment and procedures for drilled shaft installation, including drawings showing consecutive steps of drilled shaft installation and drawings with measurements showing that the proposed equipment can perform the specified work. Identify in the drawings the areas that are planned to be used for staging the work. Specify the proposed sequence of the drilled shaft installation including details of concrete placement and splicing and centering devices for reinforcement steel.
4. Approval for the concrete mix design that is to be used for the work.
5. Slurry details including proposed methods of mixing, placing, and circulating.
6. Details of shaft excavation methods.
7. Details of proposed methods to clean the shaft after initial excavation.
8. Procedures for control and removal of spoils.
9. Details of shaft reinforcement steel, including methods to ensure centering, required cover, cage integrity during placement, placement procedures, and cage support.
10. Details of concrete placement including proposed operational procedures for concrete pump or tremie including initial placement, raising during placement, overfilling of the shaft concrete, and provisions to prepare the completed shaft top at its final shaft top elevation.

#### **51X.03.02 Shaft Drilling**

Perform the excavations required for the shafts through whatever materials are encountered, to the dimensions and elevations shown in the plans or otherwise required by these specifications. Ensure that the equipment is capable of constructing shafts to a depth equal to the deepest shaft shown in the plans plus 15 feet or 3 times the shaft diameter, whichever is greater.

Provide, for all drilled shafts, an approved fixed template that is adequate to maintain the shaft position and alignment during all excavation and concreting operations.

Install a suitable temporary casing for the full depth of the drilled shaft. Ensure that all drilled shafts meet construction tolerance criteria and are installed in accordance with the dimensions as shown on the plans, or as directed by the RE.

Ensure that the top center of each drilled shaft does not vary from the plan location by more than 3 inches. At the top of the drilled shaft, ensure that reinforcement steel does not vary in plan distance from the plan shaft by more than 1 inch. Ensure that the drilled shaft does not vary from the vertical by more than 1 percent of its length, as measured above ground and is not out of the required position at the top by more than 3 inches.

Protect any existing utility that is to remain within the drilled shaft installation work zone in accordance with the requirements of authorities having jurisdiction over same. Repair or replace any construction-induced damage to the satisfaction of the governing authority.

Employ within the contract bid price, a licensed registered Land Surveyor, experienced in the type of work, who will establish lines and grades. Assume responsibility for the correct location of drilled shafts and for keeping a record of drilled shafts that are installed.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Locate the drilled shaft locations and provide a stake out of the locations prior to the start of installation work. Maintain all location stakes along with required elevation designations.

### **51X.03.03 Shaft Concrete**

Ensure that the handling, measuring, proportioning, mixing, and placing of concrete conforms to these specifications. Place concrete only in the presence of the RE.

Place concrete by using concrete pumps or a tremie pipe from the bottom of the excavation upward so as to avoid segregation. Do not inject air, water, or slurry into the shaft concrete during placement. Use a disposable foam or rubber plug in the concrete pump line or tremie pipe to separate the fresh concrete from the slurry at the start of concrete placement. Insert the plug so that the first flow of concrete pushes the plug out of the pipe and prevents slurry mixing and contamination as the concrete placement commences. Ensure that the concrete pump line or tremie consists of a tube constructed in sections that have flanged couplings fitted with gaskets. Ensure the means of supporting the concrete pump line or tremie so as to permit free movement of the discharge end over the entire top of the concrete and to permit its being lowered rapidly when necessary to choke off or retard the flow. If used, fill the tremie by a method that prevents washing of the concrete. Submerge the discharge end completely in the concrete at all times after initiation of the concrete placement flow. Ensure that the concrete line contains sufficient concrete to prevent any water entry. Maintain the concrete level at the top of the drilled shaft until the concrete has set.

If concrete flow is halted and the concrete line's discharge end is for any reason raised out of the shaft concrete, reinitiate the placement only after fully recharging the concrete line with fresh concrete by the following:

1. Inserting a foam or rubber plug or pig into the concrete line at the concrete hopper end.
2. Placing the discharge end approximately 6 inches above the top of the shaft concrete.
3. Recharging the pump or tremie line and depositing what will be classified as waste concrete on the top of the previously placed concrete.
4. Discharging waste concrete until the line is fully recharged with fresh concrete and the pig is pushed completely through the line.
5. Without halting the flow of fresh concrete plunging the discharge end of the concrete line into the shaft concrete to within 6 inches or less of the shaft bottom or to a level as directed by the RE.
6. Continuing the concrete placement without further interruption.
7. Placing a final volume of additional concrete in the shaft that is no less than the volume of waste concrete placed to recharge the line in the process of resuming the concrete flow

Apply this procedure without exception as necessary to avoid injecting any air, any water, any slurry, or any concrete that has flowed through a line filled with air, water, or slurry into the shaft concrete.

Do not initiate boring a new shaft hole that is within 5 drilled shaft diameters of a previously installed drilled shaft, until the concrete has been in place for a minimum of 2 days.

### **51X.03.04 Shaft Construction Timing**

Make every effort to plan, coordinate, and carry out the work to minimize the time between the start of excavation and completion of shaft concrete placement. In general, the time between shaft excavation and completion of concrete placement is expected to be 8 continuous hours or less.

For cases where 2 or more continuous hours elapse between completion of excavation and commencement of concrete placement, remove any reinforcement steel already placed in the shaft, clean the shaft bottom, replace the reinforcement steel in the shaft and immediately commence the placement of the concrete.

### **51X.03.05 Shaft Reinforcement Steel**

Where shafts are extended at the direction of the RE to final authorized tip elevations that are lower than the estimated minimum tip elevations, extend no fewer than 1/2 of the vertical reinforcement steel (every other bar around the circumference) to the authorized tip elevation by lap splicing or mechanical splicing. Firmly tie lap splices so as to support

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

the full weight of the cage above the lap zone. Add horizontal bands in the bottom extension zone at a vertical spacing that is no more than 6 inches center to center.

### **51X.03.06 Shaft Top Preparation**

If tremie concrete is used, consider the top-most concrete placed in the shaft to be waste concrete and either:

1. Completely eject out of the top of the casing the wasted concrete or,
2. Pump the waste upward to a level that is at least 2 feet clear distance above the plan shaft top level and allow it to cure in place for removal later.

Consider waste concrete to be the top 2 feet of initial concrete that is placed, plus

1. The height of any additional volume of waste concrete deposited in the shaft where concrete placement was halted and restarted, plus
2. Any additional amount necessary to produce full strength non-segregated concrete at the plan shaft top level.

Where the above waste concrete alternative 1 is selected, permit the waste concrete to evenly overflow the full top circumference of the casing. Do not channel or bleed off by notches or holes cut in the casing top. Any fresh concrete in the casing at a level above the plan shaft top level after ejecting all waste concrete may be dipped or pumped out to the plan top elevation while still plastic by methods and equipment approved by the RE, or be allowed to cure in place for removal later.

Final shaft top preparation may commence only after the drilled shaft concrete obtains its verification strength. In lieu of concrete strength testing, the preparation may begin 7 full days after completion of concrete placement. Final top preparation steps will consist of the following:

1. Cutting off any extra casing above the top of casing elevation.
2. Cutting off any cured over pour concrete to the plan shaft top elevation by approved methods.
3. Dressing the final shaft top surface.
4. Verification by the RE that the exposed concrete consists of full strength concrete with a typical, non-segregated mortar and aggregate distribution.
5. Approved non-destructive strength testing by the Contractor where required by the RE to verify that concrete has attained its full design strength.
6. Removal of additional concrete below the plan shaft top level as necessary to reach full-strength, non-segregated concrete.
7. Preparation of the shaft top key recess.

### **51X.03.7 Shaft Acceptance**

Provide a comparison of the computed volume of the excavation (theoretical) with the volume of concrete actually placed. Plot depth versus volume chart. Provide cooperation and whatever assistance necessary to accurately monitor the volume of concrete that is placed at all times during the pour.

Unaccepted drilled shafts are drilled shafts that are rejected by the RE because of damage, failure to advance through obstructions, mislocation, misalignment, or failure to install the drilled shaft to the proper bearing stratum. Submit a written plan of action to the RE for approval showing how to correct any problem and how to prevent a reoccurrence. Repair the drilled shaft or replace it to the satisfaction of the RE. To mitigate and/or to remedy unaccepted drilled shafts, the Contractor may be required to provide additional drilled shafts or supplement drilled shafts to meet specified requirements at no cost to the State.

When acceptably installed drilled shafts exceed specified tolerances, provide an accurate as-built survey. If the load on any drilled shaft exceeds 10 percent of the specified load capacity, make as-directed corrections.

### **51X.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment as follows:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

*Item*  
DRILLED SHAFT FOR SIGN STRUCTURE FOUNDATION

*Pay Unit*  
LINEAR FOOT

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

# DIVISION 600 – MISCELLANEOUS CONSTRUCTION

## SECTION 601 PIPE

### 601.02 MATERIALS

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BDC21S-12 DATED AUG 16, 2022

THE FOLLOWING MATERIAL IS ADDED:

Polypropylene (PP) Pipe ..... 909.02.02  
1\*\*\*\*\*1

### 601.03.01 Pipe

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BDC21S-12 DATED AUG 16, 2022

#### B. Excavating.

THE FIFTH PARAGRAPH IN PART B IS CHANGED TO:

If the material at the bottom of the trench is rock or other hard material, remove at least 6 inches of the material for RCP or at least 12 inches of the material below the bottom of the pipe for corrugated metal, steel, aluminum alloy pipe, HDPE or polypropylene (PP) pipe. Backfill the undercut with Class C bedding.

#### D. Installing Pipe

THE FIRST PARAGRAPH IN PART D IS CHANGED TO:

Before the installation of HDPE and polypropylene (PP) pipe and as directed by the RE, provide a technical representative from the pipe manufacturer on the work site for the first day of pipe installation to ensure proper installation procedures.

THE LAST PARAGRAPH IN PART D IS CHANGED TO:

When using heavy construction equipment (100 kips axle load) over, or within 10 feet of HDPE and polypropylene (PP) pipe or corrugated aluminum alloy pipe, place the manufacturer recommended temporary compacted cover over the top of the pipe. Ensure that the temporary cover is free from stones larger than 1 inch.

#### E. Joining Pipe.

THE LAST PARAGRAPH IN PART E IS CHANGED TO:

Do not use split couplings to join field-cut HDPE and polypropylene (PP) pipe unless approved by the RE. Ensure that joints are bell and spigot type, or bell and spigot type with a gasket, according to ASTM F 477, to provide a silt-tight seal. Construct pipe connections according to the manufacturer's recommendations for assembly of joint components, lubrications, and making of joints. Ensure that the pipe fittings are free of inclusions and visible defects. Cut the ends of the pipe squarely so as not to adversely affect joining.

#### F Backfilling.

THE FIRST PARAGRAPH IN PART F IS CHANGED TO:

When using corrugated aluminum pipe, backfill from the bottom of the trench to 2 feet above the top of the pipe with Class C bedding. When using HDPE and polypropylene (PP) pipe, backfill from the bottom of the trench to 1 foot above the top of the pipe with Class C bedding. When using pipe other than corrugated aluminum, HDPE or polypropylene (PP) pipe, backfill from the bottom of the trench to 2 feet above the top of the pipe with suitable excavated material free from stones and rock larger than 2 inches in any dimension. For distances 2 feet above the top of the pipe, backfill using suitable excavated material.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



**601.03.03 End Section**

1\*\*\*\*\*1  
BDC21S-12 DATED AUG 16, 2022

THE SECOND PARAGRAPH IS CHANGED TO:

Use end sections of the same material as the adjoining pipe or pipe arch, except use concrete end sections for HDPE and polypropylene (PP) pipe.

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**601.03.04 Underdrain**

1\*\*\*\*\*1  
BDC21S-12 DATED AUG 16, 2022

**A. Excavating.**

THE FOURTH PARAGRAPH IN PART A IS CHANGED TO:

If the material at the bottom of the trench is rock or other hard material, remove at least 6 inches of the material for RCP or at least 12 inches of the material below the bottom of the pipe for corrugated metal, steel, aluminum alloy pipe, HDPE or polypropylene (PP). Backfill the undercut with Class C bedding.

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**601.03.06 Video Inspection of Pipe**

1\*\*\*\*\*1  
BDC21S-12 DATED AUG 16, 2022

THE SECOND PARAGRAPH IS CHANGED TO:

Perform the video inspection in dry pipe conditions to ensure viewing of the entire pipe circumference. Ensure that a visual numerical registration of the distance the video camera is traveling from the starting point to the ending point within the pipe drainage structure is recorded on the digital footage at all times. Also, ensure that the name of the pipe run and the name of the structure is recorded on the digital footage at all times. Stop the video camera at all joints, lateral connections, breaks, and irregularities to ensure full view at these locations. Ensure that the video provides clear, sharply focused pictures. The Department will not accept blurred or out of focus footage. Submit color digital footage of the inspection to the RE to become the property of the Department. Number the files sequentially and provide a corresponding index for all videos, listing the location, date, size and type of pipe, cross or longitudinal drains, berm, slope, and similar identifying information.

1\*\*\*\*\*1

**601.03.07 Deflection Inspection of HDPE Pipe**

1\*\*\*\*\*1  
BDC21S-12 DATED AUG 16, 2022

THE SUBPART HEADING IS CHANGED TO:

**601.03.07 Deflection Inspection of HDPE Pipe and Polypropylene (PP) Pipe**

THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Test approximately 25 percent of the length of HDPE and polypropylene (PP) pipe for deflection no sooner than 30 days after installation.

1\*\*\*\*\*1

**601.04 Measurement And Payment**

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

REVISE THE SECOND PARAGRAPH TO:

When the RE directs undercutting of unstable material in a pipe trench, the Department will make payment for the additional excavation. The Department will also make payment, for the additional bedding if there is not an excess of excavation available.

2\*\*\*\*\*2  
BDC20S-11 DATED OCT 02, 2020

THE FOLLOWING ITEM IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
REMOVAL OF RUMBLE STRIP	LINEAR FOOT

2\*\*\*\*\*2

1\*\*\*\*\*1

**SECTION 606 SIDEWALKS, DRIVEWAYS, AND ISLANDS**

1\*\*\*\*\*1

**606.04 Measurement And Payment**

PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

REVISE THE SECOND PARAGRAPH TO:

When the RE directs undercutting of unstable material in the excavation area, the Department will make payment, for the additional excavation. The Department will also make payment, for the additional bedding if there is not an excess of excavation available.

1\*\*\*\*\*1

**SECTION 608 NON-VEGETATIVE SURFACES**

1\*\*\*\*\*1

**608.04 Measurement And Payment**

PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

REVISE THE SECOND PARAGRAPH TO:

When the RE directs undercutting of unstable material in the excavation area, the Department will make payment, for the additional excavation. The Department will also make payment, for the additional bedding if there is not an excess of excavated material available for use as bedding.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SECTION 609 – BEAM GUIDE RAIL**

**609.03.01 Beam Guide Rail**

1\*\*\*\*\*1

**BDC20S-10 DATED SEP 11, 2020**

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

Remove trees and shrubs as specified in 801.03 and 802.03 from the entire guide rail element extending 4 feet behind the guide rail post.

1\*\*\*\*\*1

**609.03.05 Reset Beam Guide Rail**

1\*\*\*\*\*1

**BDC20S-10 DATED SEP 11, 2020**

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

Remove trees and shrubs as specified in 801.03 and 802.03 from the entire guide rail element extending 4 feet behind the guide rail post.

1\*\*\*\*\*1

**STRIPS SECTION 610 – TRAFFIC STRIPES, TRAFFIC MARKINGS, AND RUMBLE STRIPS**

**610.03.03 RPMs (Raised Pavement Markers)**

1\*\*\*\*\*1

**BDC20S-08 DATED JUN 12, 2020**

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure that RPMs are installed within 14 days of opening each day’s surface paving to traffic.

1\*\*\*\*\*1

**610.03.07 Rumble Strip**

1\*\*\*\*\*1

LIST LOCATIONS OF THE APPROXIMATE MIDPOINT OF WEIGH-IN-MOTION (WIM) SYSTEMS BASED  
ON THE DATABASE INFORMATION PROVIDED IN  
[HTTP://WWW.STATE.NJ.US/TRANSPORTATION/REFDATA/ROADWAY/PDF/WIM\\_SITES.PDF](http://www.state.nj.us/transportation/refdata/roadway/pdf/wim_sites.pdf)

**SME CONTACT – BUREAU OF TRANSPORTATION DATA AND SAFETY**

Route	Weigh-in-Motion (WIM) Systems Midpoint Station

1\*\*\*\*\*1

2\*\*\*\*\*2

**BDC21S-15 DATED JAN 21, 2022**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

THE FOURTH PARAGRAPH IS CHANGED TO:

Ensure that after cutting centerline rumble strips, the centerline rumble strips are cleaned, all debris is collected and the surface is prepared as specified in 610.03.01.B before placing traffic stripes.

\*\*\*\*\*2\*\*\*\*\*

\*\*\*\*\*1  
BDC20S-08 DATED JUN 12, 2020

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure that rumble strips are constructed within 14 days of opening each day's surface paving to traffic.

\*\*\*\*\*1

\*\*\*\*\*1  
BDC20S-11 DATED OCT 02, 2020

THE FOLLOWING SUBPART IS ADDED:

**610.03.09 Removal of Rumble Strip**

Prior to shifting lanes, remove rumble strips as indicated in the plans and as directed by the RE.

Centered over the rumble strip, mill the width of the rumble strip plus 4 inches beyond the edge of the rumble strip on both sides. Mill to a minimum depth of 2 inches.

Clean the milled area as specified in 401.03.01.A. Obtain RE approval of the removal before proceeding with paving in the milled rumble strip.

Apply polymerized joint adhesive to the vertical surfaces of the milled rumble strip area as specified in 401.03.04. Apply tack coat as specified in 401.03.05 at an application rate of 0.15 gallons per square yard to bottom surface of the milled rumble strip area. Spread and grade HMA surface course in the milled rumble strip area as specified in 401.03.07.E. Ensure that the temperature of the HMA when placed and compacted is at least 250 °F. Compact as specified in 401.03.07.F, ensuring that the top of the compacted HMA is flush with, or not greater than 1/8 inch higher than, the adjacent pavement surface.

Reuse removed material as specified in 202.03.03.C.

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**610.04 MEASUREMENT AND PAYMENT**

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BDC20S-11 DATED OCT 02, 2020

THE FOLLOWING ITEM IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
REMOVAL OF RUMBLE STRIP	LINEAR FOOT

\*\*\*\*\*1

**SECTION 611 – CRASH CUSHIONS**

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BDC21S-10 DATED JUN 02, 2022

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**611.03.02 Crash Cushion, Compressive Barrier**

THE SUBPART IS CHANGED TO:

At least 10 days before beginning the work, submit the manufacturer's installation guide to the RE. Install compressive crash cushions including transitions according to the manufacturer's recommendations and as shown on the Plans. Install permanent compressive crash cushions on a concrete pad foundation according to the manufacturer's recommendation. Submit working drawings for the concrete pad foundation for each location.

↑\*\*\*\*\*↑

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

# DIVISION 650 – UTILITIES

## SECTION 651 – WATER

1\*\*\*\*\*1

### 651.02 MATERIALS

INCLUDE ADDITIONAL MATERIALS REQUIREMENTS AS NEEDED

#### SME CONTACT – UTILITIES

1\*\*\*\*\*1

### 651.03.02 Ductile Iron Water Pipe, Bridge

1\*\*\*\*\*1

INCLUDE SPECIFICATIONS FOR WATER MAINS ON BRIDGES

#### SME CONTACT – UTILITIES

1\*\*\*\*\*1

## SECTION 652 – SANITARY SEWERS

1\*\*\*\*\*1

### 652.02 MATERIALS

INCLUDE ADDITIONAL MATERIALS REQUIREMENTS AS NEEDED

#### SME CONTACT – UTILITIES

1\*\*\*\*\*1

### 652.03.01 Sewer Pipe

#### G. Sewer Pipe Testing.

##### 1. Gravity Main Sewer Testing.

1\*\*\*\*\*1

INCLUDE LEAKAGE TESTING LIST

#### SME CONTACT – UTILITIES

1\*\*\*\*\*1

### 652.03.02 Ductile Iron Sewer Pipe, Bridge

1\*\*\*\*\*1

INCLUDE SPECIFICATIONS FOR SANITARY SEWER PIPES ON BRIDGES

#### SME CONTACT – UTILITIES

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**SECTION 653 – GAS**

**653.03.01 Gas Main**

**A. Prequalification.**

1\*\*\*\*\*1

**INCLUDE LIST OF PRE-QUALIFIED SUBCONTRACTORS**

**SME CONTACT – UTILITIES**

List of prequalified subcontractors is as follows:

1\*\*\*\*\*1

**C. Handling and Storing.**

1\*\*\*\*\*1

**INCLUDE UTILITY LOCATION FOR PICKUP AND RETURN**

1\*\*\*\*\*1

**J. Air-Pressure Test.**

1\*\*\*\*\*1

**INCLUDE PRESSURES AND DURATIONS FOR TEST**

1\*\*\*\*\*1

1\*\*\*\*\*1

**INCLUDE THE FOLLOWING UPON ASSIGNING AN APPROPRIATE SECTION/SUBSECTION/SUBPART NUMBERS IF JCP&L RELATED UTILITY WORK IS TO BE PERFORMED**

**ENSURE THAT THE WORK PACKAGE HAS BEEN RECEIVED FROM JCP&L; PROVIDE AN ELECTRONIC FILE (PDF FORMAT) OF THE CONSTRUCTION ORDER DETAIL & CONSTRUCTION ORDER COMPATIBLE UNIT SUMMARY ONLY TO THE PROJECT MANAGER FOR IT TO BE POSTED ON BID EXPRESS AS MENTIONED IN QIA NO: 046 DATED AUG 01, 2007**

THE FOLLOWING SECTION IS ADDED:

**SECTION 65X – JCP&L FACILITY**

**65X.01 DESCRIPTION**

This Section describes the requirements for installing, relocating, and removing Jersey Central Power and Light (JCP&L) electric utility facilities including conduits, manholes, transformer vaults, handholes, and appurtenances and also includes the requirements for transferring electric services.

**65X.02 MATERIALS**

Except for the materials noted below, JCP&L will supply all materials necessary for the work at no cost to the Contractor. Provide JCP&L written notice 30 days in advance of when materials will be required. Ensure the electric subcontractor takes delivery of the materials from JCP&L’s storage facility within 2weeks of the notice from JCP&L indicating that the material is available. Materials may be located at more than one JCP&L storage facility. If the electric subcontractor fails to take delivery, the material may not be available, and the electric subcontractor may be required to provide an additional request for materials. The Contractor is responsible for compensating the Department for any additional handling costs incurred by JCP&L resulting from the failure to take delivery within the time required.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

The electric subcontractor is responsible for loading the material, delivering it to the job site, and all subsequent handling and delivery within the jobsite. Store and protect all materials received from JCP&L. Return and deliver all excess materials furnished by JCP&L to JCP&L's storage facility. Obtain a receipt for all material received from JCP&L, maintain a documented inventory of materials used and obtain a receipt for all material returned to JCP&L.

Provide materials as specified:

Tack Coat 64-22, PG 64S-22 .....	902.01.01
Hot Mix Asphalt (HMA).....	902.02
Concrete .....	903.03
Controlled Low Strength Material (CLSM).....	903.09
Curing Materials .....	903.10
Joint Sealer, Hot-Poured .....	914.02
Polymerized Joint Adhesive.....	914.03

**65X.03 CONSTRUCTION**

**65X.03.01 Electric**

**A. Prequalification.** Only a prequalified electric subcontractor, approved by JCP&L, may construct and relocate JCP&L electric facilities.

A list of the prequalified electric subcontractors is available at [http://www.njua.com/utility\\_relocations](http://www.njua.com/utility_relocations).

The Contractor is responsible for soliciting from a subcontractor that will be approved by JCP&L when preparing its Bid. Work restricted to the electric subcontractor does not preclude the Contractor from performing the work of layout, traffic control, sawcutting, pavement removal, temporary or final pavement restoration, and landscape restoration associated with the work of installing or relocating JCP&L electrical facilities.

**B. Indemnification.** The Contractor agrees to indemnify and hold harmless JCP&L, its officers, employees, and agents from liability and claims related to the work described under this Section. This requirement does not establish JCP&L as a third party beneficiary; the provisions specified in 107.10 are unaltered.

**C. Scheduling of Work and Interruption to Utilities.** Provide the RE and the designated JCP&L representative with a detailed schedule of when the electric utility work will be performed. Indicate in the schedule for each activity the following information: the work locations; the number of crews; and whether the work will be performed during a day shift or night shift, or on weekends. Coordinate all electric utility work with the JCP&L representative, and notify the RE and the JCP&L representative at least 2 weeks prior to starting electric utility work. Do not interrupt existing electric service until approved by the JCP&L representative.

Weather conditions may prevent connections to existing systems between June 1 and September 30. Do not perform work which will require electric transmission service interruptions from June 1 through September 30 without the approval of JCP&L. JCP&L may extend this period based on weather conditions and system demand. Notify JCP&L at least 1 month in advance of commencing conductor work.

If service transfers are required, coordinate service transfers with the JCP&L representative. Notify the property owner and all tenants affected by service interruptions or transfers prior to making the service transfer. Minimize disruption to normal operations of existing facilities and minimize any interruption of electric service to JCP&L customers. Protect existing facilities during construction and installation of the service transfer.

**D. Quality Control and Quality Assurance.** Provide access to the work for the JCP&L representative at all times. Perform all electric utility work in a manner acceptable to the JCP&L representative. Perform all electric utility work in accordance with JCP&L standards and details.

**E. Safety.** Perform work in accordance with applicable OSHA regulations, N.J.S.A. 34:6-47.1 et seq. "High Voltage Proximity Act", and JCP&L safety standards.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



- F. Abandonment and Removal.** Prior to beginning work, review the condition of all existing electric utility facilities noted to be removed with the JCP&L representative. If the JCP&L representative designates the material to be salvaged, remove the material and deliver it to a JCP&L storage facility. Remove and dispose of all other electrical utility material designated for removal.
- G. Excavation.** When excavation is required in areas having existing pavement and sidewalk, sawcut to the full depth of the existing pavement and sidewalk. Excavate trenches for conduit, manholes and vaults and appurtenances. Provide vertical sides for excavations within the traveled way, shoulder, sidewalk areas, and where existing facilities require protection. Remove unstable material at the bottom of the excavation and backfill with granular material. Do not excavate trenches more than 300 feet in advance of installing conduit unless approved by the RE. Provide and maintain trench crossings where necessary to maintain access. Do not leave trenches open overnight unless protected by temporary fencing or steel plates. Remove and dispose of excess or unsuitable material as specified in 202.03.03.C.2.
- H. Backfill.** Backfill with suitable material in lifts not exceeding 6 inches thick, loose measurement. If the backfill is predominantly granular material, compact the backfill material with a vibratory plate compactor. For material that is not predominately granular, compact the backfill material with a vibratory rammer compactor. If it is not possible to compact the backfill material, the Contractor may backfill with CLSM with the approval of the JCP&L representative. If using CLSM, install as specified in 601.03.01.F.
- I. Restoration.** Restore areas disturbed in the performance of electrical utility relocations to its original condition. In areas that are disturbed for which the plans provide final grading, pavement or landscaping, provide temporary restoration to the satisfaction of the RE. If open-cut trenching across a road is required, restore the pavement with in-kind construction.
- J. Field Testing.** Perform a high-potential test (also known as a dielectric voltage withstand test) on all cables and splices prior to energizing. Testing must be performed by a person who is qualified to operate the test equipment, and is familiar with the cable system. Ensure that the cables are disconnected from non-cable systems equipment, and that adequate physical clearances are maintained between all cable ends, energized cables, and electrical grounds and all other equipment during the test. Prior to performing the test, verify that all taps or laterals in the circuit are cleared. In the event hot poured compound filled splices and terminations are involved, do not perform testing until they have cooled to ambient temperature. Set the relays in the high voltage direct current test equipment to operate between 5 and 25 milliampere leakage. The shape of the leakage curve under constant voltage is more important than the absolute leakage current of a “go or no go” withstand test result. The field test voltage is related to the final factory applied dc potentials using a factor of 80 percent.

Ensure the high potential test is performed in the presence of the JCP&L representative. Apply a direct current field test voltage according to the following table:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Field Test Values				
Rated Voltage	dc Hi-Pot Test		dc Hi-Pot Test	
Phase to	(15 Minutes)			
Phase	Wall - mils	Kv	Wall - mils	kV
5000	90	25	115	35
8000	115	35	140	45
15000	175	55	220	65
25000	260	80	320	95
28000	280	85	345	100
35000	345	100	420	125
46000	445	130	580	170
69000	650	195	650	195

Note: If the leakage current quickly stabilizes, the duration may be reduced to 10 minutes.

After the voltage has been applied and the test level reached, record the leakage current at 1 minute intervals. If the leakage current decreases or stays steady after it has leveled off, the cable is considered satisfactory. If the leakage current starts to increase, excluding momentary spurts due to supply-circuit disturbances, extend the test to see if the rising trend continues. At the conclusion of the test, discharge the circuit through the test set and voltmeter circuit. After the potential drops below 95 percent of the test value, ground the cable, and discharge the circuit. Leave the grounds on all conductors for a minimum of 4 times as long as the test voltage was applied.

Remove and replace cables that fail to meet the requirements of the direct current field test. The Contractor is responsible for reimbursing the Department for any additional material costs incurred by the Department resulting from the failure to meet the requirements of the direct current field test.

- K. Energizing Lines.** Energize lines with the guidance of the JCP&L representative. Prior to energizing lines, submit a request to JCP&L. Switching orders may only originate from JCP&L employees. Submit a request for permission to energize transmission lines 10 days in advance of when the work will be performed. Request permission to energize distribution lines in a manner that will permit the JCP&L representative to submit a request to JCP&L's Dispatch Office by 12:00 p.m. the previous working day.
- L. As-builts.** Upon completion of the work, submit to JCP&L as-built drawings in accordance with JCP&L standards. Prints of construction drawings, marked to show the final location, are acceptable. Provide a copy of the as-built drawings to the RE.

**65X.04 MEASUREMENT AND PAYMENT**

The Department will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
ELECTRICAL UTILITY RELOCATION, JCP&L	LUMP SUM
↑*****↑	

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**DIVISION 700 – ELECTRICAL**

**SECTION 701 – GENERAL ITEMS**

1\*\*\*\*\*1

**701.03.01 Existing Systems**

2\*\*\*\*\*2

**IF THERE ARE ANY ITS MATERIALS TO BE SALVAGED, PROVIDE THE LOCATION TO DELIVER AND UNLOAD SALVAGED ITS MATERIALS**

**SME CONTACT – TRAFFIC OPERATIONS AND/OR MSE**

Deliver and unload salvaged ITS materials to:

Mobility Management North (MMN)- ITS Maintenance  
670 River Drive  
Elmwood Park, NJ 07407-1347  
Telephone: 732-697-7360

Mobility Management South (MMS) – ITS Maintenance  
One Executive Suite Route 70 West  
Cherry Hill, NJ 08002-4106  
Telephone: 856-486-6615

2\*\*\*\*\*2

2\*\*\*\*\*2

**INCLUDE THE FOLLOWING WHEN EXISTING CONDUIT SYSTEMS ARE PROPOSED TO BE USED FOR PULLING ELECTRICAL CONDUCTORS OR FIBER OPTIC CABLES.**

**SME CONTACT – TRAFFIC ENGINEERING AND/OR BUREAU OF MOBILITY AND SYSTEMS ENGINEERING (MSE)**

THE FOLLOWING IS ADDED:

If new cable or wire is designated to be installed into existing conduit systems, clean and swab the conduit system prior to installing the cable or wire. After cleaning, test each conduit by pulling through a metal ball with a diameter at least 85 percent of the nominal inside diameter of the conduit to ensure the conduit is free of any obstruction or foreign material. If the ball fails to pass through the conduit, repair or replace the defective conduit as directed by the RE. Restore disturbed areas to original condition.

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**701.03.15 Cable and Wire**

**C. Connection and Coordination with Utility Services.**

1\*\*\*\*\*1

**BDC21S-20 DATED MAY 12, 2022**

THE LAST PARAGRAPH IN PART C IS CHANGED TO:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Provide temporary services if required for testing and operation of the electrical systems until Substantial Completion or as directed by the RE. Coordinate temporary services with the Utility Company.

2\*\*\*\*\*2  
**FOR ITS FACILITIES DESIGN, CONFIRM ON THE REQUIREMENTS FOR INTERIM COMMUNICATION AND POWER CONNECTIONS, AND CONNECTIONS TO NJTA NETWORK. ALSO, FOR ESTABLISHMENT OF IP ADDRESSES, INTERIM AND PERMANENT.**

**SME CONTACT – MSE**

2\*\*\*\*\*2

2\*\*\*\*\*2  
**INCLUDE THE FOLLOWING FOR TRANSPORTATION MOBILITY AND MOBILITY ENGINEERING PROJECTS WHICH REQUIRE ANY NEW UTILITY SERVICES.**

**SME CONTACT – MSE**

THE LAST PARAGRAPH IS CHANGED TO:

Obtain and provide for utility services required for testing and operation of ITS systems until interim acceptance of each system or device. Utility Services may be governed by differing Authorities Having Jurisdiction (AHJ). Along with Utility Requirements, comply with all AHJ requirements. Upon successful completion of level C testing and acceptance of any device, provide the RE with a letter requesting transfer of utility services providing the latest copy of the utility bill from each utility company. Such transfers are to be effective beginning the next monthly billing cycle after completion of successful ITS system testing as specified in Section 704 and interim acceptance of the device or as directed by the RE.

Once new utility services have been energized or activated and the utility company has de-energized and unhooked the old service connection; remove existing pole risers and service heads, cut back 1 foot below grade, and plug the conduits.

**Service Requests**

<b>Device Site No.</b>	<b>Primary Route</b>	<b>Final MP</b>	<b>Direction</b>	<b>Location</b>	<b>Township</b>	<b>County</b>	<b>Utility Territory</b>	<b>Job No.</b>	<b>Utility Contact Person</b>	<b>Utility Pole No.</b>
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2\*\*\*\*\*2

**701.04 Measurement and Payment**

**PERFORM THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS**

REVISE THE FIFTH PARAGRAPH TO:

If restoration of disturbed areas includes pavement, curb, sidewalk, driveway, or island, the Department will make payment for such work.

REVISE THE SIXTH PARAGRAPH TO:

When the RE directs the installation of a new conduit or a repair to the defective conduit, the Department will make payment for this work.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

REVISE THE SEVENTH PARAGRAPH TO:

When the RE directs the contractor to install a tracer wire in existing conduit, the Department will make payment for this work.

REVISE THE EIGHTH PARAGRAPH TO:

The Department will not include payment for restoring disturbed areas in the various items of this section. The Department will pay for restoring disturbed areas (pavement, curb, sidewalk, driveway, or island).

REVISE THE NINTH PARAGRAPH TO:

The Department will not include payment when the re directs the installation of a new conduit or a repair to the defective conduit in the various items of this section. The Department will pay for the installation, when directed by the re, of a new conduit or a repair to the defective conduit.

REVISE THE TENTH PARAGRAPH TO:

The Department will not include payment when the RE directs the installation of a tracer wire in existing conduit in the various items of this section. The Department will pay for the installation, when directed by the RE, of a tracer wire in existing conduit.

2\*\*\*\*\*2

1\*\*\*\*\*1

**SECTION 703 – HIGHWAY LIGHTING**

1\*\*\*\*\*1

**703.03.07 Temporary Highway Lighting System**

2\*\*\*\*\*2

**DETERMINE WHETHER OR NOT THE CONTRACTOR MUST DESIGN THE TEMPORARY LIGHTING SYSTEM AT A GIVEN LOCATION AND INCLUDE THE FOLLOWING**

**SME CONTACT – TRAFFIC SIGNAL AND SAFETY ENGINEERING**

The Contractor must design the Temporary lighting system at \_\_\_\_\_.

2\*\*\*\*\*2

2\*\*\*\*\*2

**PROVIDE THE LOCATIONS TO DELIVER AND UNLOAD SALVAGED MATERIALS**

**SME CONTACT – TRAFFIC SIGNAL AND SAFETY ENGINEERING**

Deliver and unload salvaged materials to:

2\*\*\*\*\*2

1\*\*\*\*\*1

**SECTION 704 – INTELLIGENT TRANSPORTATION SYSTEMS (ITS)**

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

PRIOR TO FINAL DESIGN SUBMISSION CONFIRM WITH THE RESPECTIVE TRAFFIC OPERATIONS CENTER IF ANY OF THE PROPOSED ITS SYSTEMS HAVE TO BE COMPLETED EARLY IN THE PROJECT THAT ARE REQUIRED TO BE AVAILABLE TO USE FOR TRAFFIC MITIGATION DURING CONSTRUCTION. INCLUDE RESPECTIVE INTERIM COMPLETION DATES IN SUBSECTION 108.10 AND CONFIRM WITH MOBILITY AND SYSTEMS ENGINEERING (MSE) ON THE REQUIREMENTS FOR INTERIM COMMUNICATION AND POWER CONNECTIONS.

IF PROJECT INCLUDES CONNECTION TO NJTA NETWORK, INCLUDING DIRECT FIBER OR WIRELESS, CONFIRM WITH MOBILITY AND SYSTEMS ENGINEERING (MSE) ON COORDINATION REQUIREMENTS WITH NJTA.

**SME CONTACTS – TRAFFIC OPERATIONS & MSE**

1\*\*\*\*\*1  
1\*\*\*\*\*1

**704.02.01 Materials**

MOST COMMON ITS MATERIAL SPECIFICATIONS ARE AVAILABLE ON THE DEPARTMENT’S WEBSITE AND A QPL OF PREQUALIFIED MATERIALS IS POSTED, DOWNLOAD THE REQUIRED SPECIFICATIONS FROM THE DEPARTMENT’S WEBSITE AND LIST THEM HERE IN THE TABLE REFERRING TO THE APPROPRIATE SUBSECTION OF SECTION 918 AND INCLUDE THE SPECIFICATIONS IN THAT SECTION.

1\*\*\*\*\*1

**704.03.01 General System (GS)**

1\*\*\*\*\*1

**B. Installation.**

2\*\*\*\*\*2

CONTACT TRAFFIC OPERATIONS TO CONFIRM THE EXISTING SYSTEM SHUTDOWN TIME. REVISE AS DIRECTED AND INSERT HERE.

**SME CONTACT – TRAFFIC OPERATIONS AND MSE**

2\*\*\*\*\*2

2\*\*\*\*\*2

PROVIDE THE COST OF DAMAGES FOR EXCEEDING THE ALLOWABLE TIME FRAMES

**SME CONTACT – MSE**

2\*\*\*\*\*2

2\*\*\*\*\*2

**1. Junction Box ITS.**

**a. Installation.**

IF REMOVAL OR RELOCATION OF ITS JUNCTION BOX IS NOT FEASIBLE IN A PROJECT THAT REQUIRES TRAFFIC TO BE SHIFTED IN THE AREA OVER THIS JUNCTION BOX DURING ANY STAGE OF CONSTRUCTION THEN IT MUST BE PROTECTED DURING CONSTRUCTION AND MUST INCLUDE DETAILS FOR PROTECTING THE ITS JUNCTION BOX.

**SME CONTACT – MSE**

2\*\*\*\*\*2

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

2\*\*\*\*\*2

**6. Control Center System.**

INCLUDE THE WORK TO BE PERFORMED AT EACH CONTROL CENTER (TOC, HUB, OR ANY BUILDING/CABINET WITH A NETWORK NODE) CLEARLY AND REMOVE THE PORTION OF THE WORK THAT IS NOT APPLICABLE TO ANY PARTICULAR PROJECT AS THE BID PRICE FOR THIS ITEM WILL BE BASED ON THE WORK INVOLVED AT THE DESIGNATED CONTROL CENTER. THE DESIGNERS MUST INCLUDE SYSTEM BLOCK DIAGRAMS AND FIBER ASSIGNMENT DIAGRAMS IN THE SET OF CONSTRUCTION PLANS. THE CONTRACTOR WILL USE THESE AS WORKING DRAWINGS BY ADDING A LIST OF EQUIPMENT AND NETWORK IP ADDRESSES.

**SME CONTACT – MSE**

2\*\*\*\*\*2

2\*\*\*\*\*2

**7. Meter Cabinet ITS.**

THIS INCLUDES A FNMC RESERVED FOR ELECTRICAL SERVICE CONDUCTORS THAT MAY REQUIRE SEPARATE JUNCTION BOXES AT SHORT INTERVALS. COORDINATE WITH MSE BEFORE PROCEEDING WITH THE DESIGN PLANS TO DETERMINE WHAT IS EXACTLY REQUIRED. IF A FIBER GLASS SLEEVE IS REQUIRED, SPECIFY IT AND INCLUDE WITH BRIDGE STRUCTURE ATTACHMENTS AND EXPANSION FITTINGS AS PER MANUFACTURER REQUIREMENTS. WHEN FIBERGLASS CONDUIT IS NOT PROPOSED ACROSS AN EXISTING STRUCTURE, BUILT-IN SLEEVES WITHIN THE PARAPET CAN BE UTILIZED IF EMPTY AND AVAILABLE.

ITS CONDUIT TYPE A INCLUDES 3 FNMC. IF THE PROJECT SPECIFIC CONSTRUCTION REQUIREMENTS NEED DIFFERENT SIZE CONDUITS, MODIFY THE STANDARD DETAIL TO INCORPORATE THE PROPOSED CHANGES AND INCLUDE IT IN THE SET OF PLANS REFLECTING THE CORRECT SIZE AND TYPE OF CONDUITS. ALSO, REVISE THE SPECIFICATIONS BELOW TO LIST ANY CHANGES NEEDED TO MATCH THE TYPE OF CONDUITS OTHER THAN FNMC.

**SME CONTACT – MSE**

2\*\*\*\*\*2

1\*\*\*\*\*1

**704.03.02 Camera Surveillance System (CSS)**

1\*\*\*\*\*1

**F. Equipment Training.**

PROVIDE RECOMMENDATION PRIOR TO FINAL DESIGN SUBMISSION FOR ANY SPECIAL TRAINING, AND/OR IF MORE THAN 10 PERSONNEL REQUIRE THE TRAINING.

**SME CONTACT – MSE**

1\*\*\*\*\*1

**704.03.03 Fiber Optic Cable**

1\*\*\*\*\*1

**F. Equipment Training.**

PROVIDE RECOMMENDATION PRIOR TO FINAL DESIGN SUBMISSION FOR ANY SPECIAL TRAINING, AND/OR IF MORE THAN 10 PERSONNEL REQUIRE THE TRAINING.

**SME CONTACT – MSE**

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**704.03.04 Controlled Traffic Signal System (CTSS)**

1\*\*\*\*\*1  
2\*\*\*\*\*2

**F. Equipment Training.**

PROVIDE RECOMMENDATION PRIOR TO FINAL DESIGN SUBMISSION FOR ANY SPECIAL TRAINING,  
AND/OR IF MORE THAN 10 PERSONNEL REQUIRE THE TRAINING.

**SME CONTACT – AAM UNIT OF MSE**

2\*\*\*\*\*2  
2\*\*\*\*\*2

**G. Warranty.**

CONTACT MSE'S AAM UNIT FOR ANY SPECIFIC WARRANTY REQUIREMENTS AND MODIFY THE  
ABOVE TO MEET THEIR REQUIREMENTS AND INSERT HERE

**SME CONTACT – AAM (ADVANCED ARTERIAL MANAGEMENT) OF MSE**  
2\*\*\*\*\*2  
2\*\*\*\*\*2

**H. Networking Requirements.**

PROVIDE ADDITIONAL NETWORKING REQUIREMENTS

**SME CONTACT – NJOIT**  
2\*\*\*\*\*2  
2\*\*\*\*\*2

**I. IT Requirements.**

PROVIDE ADDITIONAL IT REQUIREMENTS

**SME CONTACT – NJOIT**  
2\*\*\*\*\*2  
1\*\*\*\*\*1

**704.03.05 Travel Time Systems (TTS)**

1\*\*\*\*\*1

**F. Equipment Training.**

PROVIDE RECOMMENDATION PRIOR TO FINAL DESIGN SUBMISSION FOR ANY SPECIAL TRAINING,  
AND/OR IF MORE THAN 10 PERSONNEL REQUIRE THE TRAINING.

**SME CONTACT – MSE**  
1\*\*\*\*\*1

**704.03.06 Road Weather Information System (RWIS)**

1\*\*\*\*\*1

**F. Equipment Training.**

PROVIDE RECOMMENDATION PRIOR TO FINAL DESIGN SUBMISSION FOR ANY SPECIAL TRAINING,  
AND/OR IF MORE THAN 10 PERSONNEL REQUIRE THE TRAINING.

**SME CONTACT – BUREAU OF PERMITS, ELECTRICAL MAINTENANCE & CLAIMS**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



1\*\*\*\*\*1

**704.03.07 Dynamic Message System (DMS)**

1\*\*\*\*\*1

2\*\*\*\*\*2

**A. Components.**

COMPLETE AND INCLUDE THE FOLLOWING WHEN DMS SIGNS ARE INCLUDED IN THE PROJECT. ALSO, INCLUDE THE APPROPRIATE NOTES AND INFORMATION FOR EACH DMS PROPOSED IN THE CONTRACT.

**SME CONTACT – MOBILITY & SYSTEMS ENGINEERING**

The following are the Model numbers for the various DMS to be provided and installed in this project:

Location	Communication Type	DMS Type	Manufacturer/Model No.
----------	--------------------	----------	------------------------

Ensure that the designated Model numbers for the various DMS signs are provided as specified in the Contract documents.

Ensure that Controller, DMS is purchased with pre-installed controller, pre-wired with the equipment listed below along with specialized communications cables (minimum 120 feet Fiber Optic Cable with Connectors for each sign).

As part of the specified model numbers, ensure the DMS manufacturer supplies the cabinet and controller for each DMS sign with pre-installed uninterruptable power supply (UPS), a media converter, and a TCP/IP wireless modem conforming to the wireless provider requirements. Provide other equipment not listed here but required for the remote operation of the DMS.

2\*\*\*\*\*2

2\*\*\*\*\*2

**B. Installation.**

3\*\*\*\*\*3

Construct the DMS sign mounting structure and foundation as specified in Division 500.

DMS STRUCTURE REQUIRES THE CONTRACTOR TO FOLLOW DIVISION 500 SPECIFICATIONS FOR STRUCTURAL DETAILS AND OTHER REQUIREMENTS. INCLUDING FOUNDATION.

**SME CONTACT –STRUCTURES**

3\*\*\*\*\*3

3\*\*\*\*\*3

4\*\*\*\*\*4

**1. DMS Sign.**

THIS ITEM IS FOR DMS SIGNS OF VARIOUS TYPES AND SIZES WHEN PROPOSED TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR. INCLUDE THE MAKE AND MODEL NUMBER OF DMS SIGN IN SECTION 918 AND IN THE TABLE IN SUBSECTION 704.03.07.A. ALSO, INCLUDE IT IN THE ITS PLANS. CONTACT MSE FOR FURTHER DETAILS. WHEN THIS ITEM IS USED IN A PROJECT, "CONTROLLER

PROVIDE PROJECT ROUTE/CONTRACT NO. OR PROJECT IDENTIFICATION.

DMS" AND "FOUNDATION ITS TYPE D" OR "FOUNDATION ITS TYPE D-MC" AS APPLICABLE WILL BE REQUIRED FOR CONTROLLER/METER CABINET MOUNTING.

**SME CONTACT – MSE**

4\*\*\*\*\*4

4\*\*\*\*\*4

**2. Controller, DMS.**

THIS ITEM IS REQUIRED WHEN INSTALLING NEW DMS SIGNS AND MUST BE PURCHASED FROM THE DMS SIGN MANUFACTURER. PROVIDE THE MODEL NUMBER OF THE DMS SIGNS TO THE MANUFACTURER FOR WHICH CONTROLLER DMS ARE REQUIRED. ADDITIONAL PAY ITEMS LIKE "FOUNDATION ITS TYPE D" OR "FOUNDATION ITS TYPE D-MC" FOR MOUNTING CONTROLLER/METER CABINETS AS APPLICABLE WILL BE REQUIRED.

**SME CONTACT – MSE**

4\*\*\*\*\*4

3\*\*\*\*\*3

2\*\*\*\*\*2

**F. Equipment Training.**

PROVIDE RECOMMENDATION PRIOR TO FINAL DESIGN SUBMISSION FOR ANY SPECIAL TRAINING, AND/OR IF MORE THAN 10 PERSONNEL REQUIRE THE TRAINING.

**SME CONTACT – MSE**

2\*\*\*\*\*2

1\*\*\*\*\*1

**704.03.08 Weigh-in-Motion System (WIMS)**

1\*\*\*\*\*1

2\*\*\*\*\*2

**B. Installation.**

CONTACT TRAFFIC OPERATIONS TO CONFIRM THE EXISTING SYSTEM SHUTDOWN TIME. REVISE AS DIRECTED AND INSERT HERE

**SME CONTACT – TRANSPORTATION DATA AND SAFETY**

PROVIDE THE COST OF DAMAGES FOR EXCEEDING THE ALLOWABLE TIME FRAMES

**SME CONTACT – TRANSPORTATION DATA AND SAFETY**

2\*\*\*\*\*2

2\*\*\*\*\*2

**F. Equipment Training.**

PROVIDE RECOMMENDATION PRIOR TO FINAL DESIGN SUBMISSION FOR ANY SPECIAL TRAINING, AND/OR IF MORE THAN 10 PERSONNEL REQUIRE THE TRAINING.

**SME CONTACT – TRANSPORTATION DATA AND SAFETY**

2\*\*\*\*\*2

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**704.03.09 Traffic Volume System (TVS)**

1\*\*\*\*\*1

**B. Installation.**

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING.  
INSERT THE EXISTING SYSTEM SHUTDOWN TIME FRAMES, INCLUDING DAYS OF THE WEEK,  
SPECIFIC DATES, AND/OR HOURS OF THE DAY(S).

**SME CONTACT – TRANSPORTATION DATA AND SAFETY**

The Department will allow existing TVS system shutdowns from \_\_\_\_.

PROVIDE THE COST OF DAMAGES FOR EXCEEDING THE ALLOWABLE TIME FRAMES

**SME CONTACT – TRANSPORTATION DATA AND SAFETY**

2\*\*\*\*\*2

2\*\*\*\*\*2

**F. Equipment Training.**

PROVIDE RECOMMENDATION PRIOR TO FINAL DESIGN SUBMISSION FOR ANY SPECIAL TRAINING,  
AND/OR IF MORE THAN 10 PERSONNEL REQUIRE THE TRAINING.

**SME CONTACT – TRANSPORTATION DATA AND SAFETY**

2\*\*\*\*\*2

1\*\*\*\*\*1

1\*\*\*\*\*1

**704.03.10 Variable Speed Limit System (VSLS)**

**B. Installation.**

**2. Controller, VSLS.**

THIS ITEM IS REQUIRED WHEN INSTALLING NEW VSLS SIGNS AND MUST BE PURCHASED FROM  
THE VSLS SIGN MANUFACTURER. PROVIDE THE MODEL NUMBER OF THE VSLS SIGNS TO THE  
MANUFACTURER FOR WHICH CONTROLLER VSLS ARE REQUIRED. ADDITIONAL PAY ITEMS FOR  
MOUNTING CONTROLLER/METER CABINETS AS APPLICABLE WILL BE REQUIRED.

**SME CONTACT – MSE & TRAFFIC OPERATIONS**

1\*\*\*\*\*1

**704.04 MEASUREMENT AND PAYMENT**

1\*\*\*\*\*1

OBTAIN THE LATEST REVISED STANDARD DETAIL SHEETS THAT ARE AVAILABLE FROM NJDOT  
MOBILITY AND SYSTEMS ENGINEERING (MSE) FOR INCLUSION IN THE CONTRACT PLANS UNTIL  
THEY ARE ISSUED VIA BDC.

**SME CONTACT – MSE**

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**DIVISION 800 – LANDSCAPING**

**SECTION 811 – PLANTING**

**811.03.02 Plant Establishment and Maintenance Period**

1\*\*\*\*\*1

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE FOLLOWING

**SME CONTACT – LANDSCAPE ARCHITECTURE**

The Department will reinspect the plants annually for \_\_\_\_\_ years.

2\*\*\*\*\*2

**2. Maintenance Bond.**

2\*\*\*\*\*2

COMPLETE AND INCLUDE THE BOND AMOUNT (A PERCENTAGE OF PLANTING VALUE)

**SME CONTACT – LANDSCAPE ARCHITECTURE**

Provide a bond to the Department in the amount of \$\_\_\_\_\_.

2\*\*\*\*\*2

1\*\*\*\*\*1

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**DIVISION 900 – MATERIALS**

**SECTION 902 – ASPHALT**

**902.01.01 Asphalt Binder**

1\*\*\*\*\*1

BDC22S-04 DATED MAY 13, 2022

THE FIRST TWO PARAGRAPHS ARE CHANGED TO:

Use an asphalt binder that is storage-stable and conforms to AASHTO M 332. Include compliance with the elastic response requirement in Figure 1 of AASHTO R 92, if applicable.

1\*\*\*\*\*1

**902.02.01 Mix Designations**

1\*\*\*\*\*1

BDC22S-04 DATED MAY 13, 2022

PART (4) IS CHANGED TO:

- 4. “E” The fourth field in the Item description designates the high temperature designation of the performance-graded binder. Options are “64” for PG 64S-22 and “E” for PG 64E-22.

1\*\*\*\*\*1

2\*\*\*\*\*2

INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

**902.02.03 Mix Design**

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

Unless otherwise approved by the engineer, only one source of supply for hot mix asphalt surface course may be used on the project.

2\*\*\*\*\*2

**A General Acceptance Requirements.**

2\*\*\*\*\*2

BDC22S-04 DATED MAY 13, 2022

THE SECOND PARAGRAPH OF SECTION (A) IS CHANGED TO:

For PG 64S-22, ensure that the temperature of the mixture at discharge from the plant or surge and storage bins is at least 290 °F when the ambient temperature is less than 50 °F or is at least 275 °F when the ambient temperature is greater than or equal to 50 °F. For PG 64E-22, ensure that the temperature of the mixture at discharge from the plant or surge and storage bins is at least 10 °F above the manufacturer’s recommended laydown temperature. For mixes produced using a WMA additive or process, ensure that the temperature of the mixture at discharge from the plant or surge and storage bins is at least 10 °F above the WMA manufacturer’s recommended laydown temperature.

2\*\*\*\*\*2

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**DETERMINATION OF CONFORMANCE TO THE VOLUMETRIC PROPERTIES BY SAMPLING AND TESTING AT THE HMA PLANT BY AN INDEPENDENT TESTING AGENCY AND/OR LABORATORY IS PREFERRED; HOWEVER, THE FOLLOWING CHANGES TO SUBSECTION 902.02.04 MAY BE USED AS AN ALTERNATE TO THE SAMPLING AND TESTING PROVISIONS LISTED IN SUBSECTION 902.02.04 TO DETERMINE CONFORMANCE TO THE SPECIFICATION REQUIREMENTS.**

INCLUDE THE FOLLOWING FOR WHOLLY STATE FUNDED PROJECTS

**902.02.04 Sampling and Testing**

THE FOLLOWING SUBSECTION IS ADDED:

**E. Acceptance of HMA.** The Department may accept the HMA as specified in 902.02.04.A through 902.02.04.E by employing staff or an independent testing agency at the HMA plant during production. The inspector who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2. Form “DS-8 HMA Testing Summary Report – State Aid” provided on the [Local Aid Website](#) must be utilized by the Laboratory to report their findings to the RE.

Alternatively, the Department may accept the HMA by [Certification of Compliance](#) according to 106.07.

**902.05 STONE MATRIX ASPHALT (SMA)**

1\*\*\*\*\*1

BDC21S-14 DATED DEC 30, 2021

**902.05.01 Composition of Mixture**

THE FIFTH PARAGRAPH IS CHANGED TO:

For fine aggregate, use 100 percent manufactured stone sand conforming to 901.05.02. Ensure that the combined fine aggregate of 100 percent manufactured stone sand in the mixture conforms to the requirements in Table 902.02.02-2.

**902.05.02 Mix Design**

TABLE 902.05.02-1 AND TABLE 902.05.02-2 ARE CHANGED TO:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**Table 902.05.02-1 SMA Specification Band (% Passing) Nominal-Maximum Aggregate Size**

<b>Production Control Tolerances from JMF1</b>	<b>Sieve Size</b>	<b>19 mm % Passing</b>	<b>12.5 mm % Passing</b>	<b>9.5 mm % Passing</b>
0%	1"	100	100	100
±3%	3/4"	90 – 100	100	100
±5%	1/2"	50 – 88	90 – 100	100
±5%	3/8"	25 – 60	50 – 80	70 – 95
±6%	No. 4	20 – 28	20 – 35	30 – 50
±3%	No. 8	16 – 24	16 – 24	20 – 30
±4%	No. 16	–	–	0 – 21
±3%	No. 30	–	–	0 – 18
±3%	No. 50	–	–	0 – 15
±2%	No. 200	7.0 – 11.0	7.0 – 11.0	7.0 – 12.0
–	Coarse Aggregate Fraction	Portion Retained on No. 4 Sieve	Portion retained on No. 4 Sieve	Portion retained on No. 8 Sieve

1. Production tolerances are for the approved JMF and may not fall outside of the wide band gradation limits.

**Table 902.05.02-2 SMA Mixtures Volumetrics for Design and Plant Production**

<b>Property</b>	<b>Production Control Tolerances</b>	<b>Requirement</b>
Air Voids	±1%	3.5%
Voids in Mineral Aggregate (VMA)	–	17.0% minimum
VCA <sub>mix</sub>	–	Less than VCA <sub>DRC</sub>
Draindown @ production temperature <sup>1</sup>	–	0.30% maximum
Asphalt Binder Content (AASHTO T 308) <sup>2</sup>	±0.40%	6% minimum <sup>3</sup>
Tensile Strength Ratio (AASHTO T 283)	–	80% minimum

1. For design, conduct draindown test at anticipated mixing temperature and 15°F higher. Ensure draindown test meets requirement at both temperatures. For production, conduct draindown test at 15°F higher than anticipated mixing temperature.
2. Asphalt binder content may not be lower than the minimum after the production tolerance is applied.
3. Aggregate blends with a G<sub>sb</sub> value of 2.90 and higher may produce the mix with a minimum asphalt content of 5.8% with ME approval.

**902.05.03 Sampling and Testing**

THE ENTIRE SUBSECTION IS CHANGED TO:

- A. General Acceptance Requirements.** Ensure that the mix meets the requirements as specified in 902.02.04.A.
- B. Sampling.** The ME will take a random sample from each 700 tons of production for volumetric acceptance testing and to verify composition. The ME will perform sampling according to AASHTO T 168, NJDOT B-2, or ASTM D 3665. During production at the plant, a sample of asphalt binder will be taken once every 3,500 tons or as directed by the ME.
- C. Quality Control Testing.** Perform quality control testing as specified in 902.02.04.C.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

For each acceptance test, perform testing for draindown according to AASHTO T 305 at 15°F above the mixing temperature.

Perform bulk specific gravity of coarse aggregates ( $G_{CA}$ ) and dry-rodded voids in coarse aggregate  $VCA_{DRC}$  testing according to AASHTO R 46 by sampling and drying aggregates according to AASHTO R 90 and AASHTO T 255, respectively. The ME shall ensure that the  $G_{CA}$  and  $VCA_{DRC}$  of the aggregate blend has been determined within 7 days of the start of production. Stop production and conduct  $VCA_{DRC}$  test immediately when there are major changes to aggregate blend percentages. When performing the  $VCA_{DRC}$  test during production, use the  $G_{CA}$  value that was determined prior to production. The ME may request additional  $VCA_{DRC}$  tests to be conducted with or without requiring a new  $G_{CA}$  test to be performed at any time.

**D. Acceptance Testing and Requirements.** The ME will determine volumetric properties at 75 gyrations for acceptance from samples taken, compacted, and tested at the HMA plant according to AASHTO T 312. The ME will determine bulk specific gravity of the compacted sample according to AASHTO T 166. The ME will use the QC maximum specific gravity test result in calculating the volumetric properties of the SMA. The ME will determine  $VCA_{mix}$  according to AASHTO R 46.

If the acceptance sample is outside of the control tolerances for the No. 4 sieve in Table 902.05.02-1 or  $VCA_{mix}$  is greater than  $VCA_{DRC}$ , immediately take a quality control sample for testing. If the quality control sample is outside of the control tolerances for the No. 4 sieve in Table 902.05.02-1 or  $VCA_{mix}$  is greater than  $VCA_{DRC}$ , immediately stop production and shipping.

If the test results other than the No. 4 sieve or  $VCA_{DRC}$  are outside of the production control tolerances specified in Table 902.05.02-1 or Table 902.05.02-2 for an acceptance sample, immediately run a quality control sample. If the quality control sample is also outside of the control tolerances in Table 902.05.02-1 or Table 902.05.02-2, determine if a plant adjustment is needed and take corrective action to bring the mix into compliance. Take an additional quality control sample immediately after completing the corrective action to ensure that the mix is within tolerances. If the mix is within tolerance based on the quality control sample results, then the ME will immediately take an acceptance sample to test and verify that the composition, air voids, draindown,  $VCA_{mix}$ , and VMA meet the production control tolerances specified in Table 902.05.02-1 and Table 902.05.02-2. If 2 consecutive acceptance or quality control samples are outside the tolerances specified in Table 902.05.02-1 or Table 902.05.02-2, immediately stop production and shipping.

After a production stop, obtain ME approval of a plant correction plan before resuming production. Upon restarting production, do not transport mixture to the Project Limits before the results of a quality control sample from the mixture indicate that the mixture meets JMF tolerances and ME approval.

**902.06.01 Composition**

1 \*\*\*\*\*1  
BDC22S-04 DATED MAY 13, 2022

THE SECOND PARAGRAPH IS CHANGED TO:

The mixture shall consist of asphalt binder and aggregate and may contain a WMA additive. Use asphalt binder that is PG 64S-22 as specified in 902.01.01. Use aggregate that conforms to 901.05.01 or 901.05.02 and the gradation requirements specified in Table 902.06.01-1.

1 \*\*\*\*\*1

**902.07.02 Asphalt-Rubber Binder**

1 \*\*\*\*\*1  
BDC22S-04 DATED MAY 13, 2022

PART (2) SUBSECTION (A) IS CHANGED TO:

**2. Asphalt Binder.**

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



- a. Use asphalt binder that conforms to AASHTO M 332, Table 1; PG 64S-22, PG 58-28 or an approved blend of both grades. The asphalt binder producer is required to provide the asphalt binder quality control plan annually to the ME for approval. Ensure that the quality control plan conforms to AASHTO R 26. Submit to the ME a certification of compliance, as specified in 106.07, for the asphalt binder. The ME will perform quality assurance sampling and testing of each asphalt binder lot as defined in the approved quality control plan.

1\*\*\*\*\*1

**902.13.01 Mix Designations**

1\*\*\*\*\*1

BDC22S-04 DATED MAY 13, 2022

PART (4) IS CHANGED TO:

- 4. “E” The fourth field in the Item description designates the high temperature designation of the performance-graded binder. Options are “64” for PG 64S-22 and “E” for PG 64E-22.

1\*\*\*\*\*1

**902.13.03 Mix Design**

1\*\*\*\*\*1

BDC22S-04 DATED MAY 13, 2022

TABLE 902.13.03-2 CHANGED TO:

Table 902.13.03-2 Performance Testing Requirements for HMA HIGH RAP Design				
Test	Requirement			
	Surface Course		Intermediate and Base Course	
	PG 64S-22	PG 64E-22	PG 64S-22	PG 64E-22
APA @ 8,000 loading cycles (AASHTO T 340)	≤ 7 mm	≤ 4 mm	≤ 7 mm	≤ 4 mm
Overlay Tester (NJDOT B-10)	≥ 200 cycles	≥ 275 cycles	≥ 100 cycles	≥ 150 cycles

1\*\*\*\*\*1

**902.13.04 Sampling and Testing**

1\*\*\*\*\*1

BDC22S-04 DATED MAY 13, 2022

TABLE 902.13.04-2 CHANGED TO:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Table 902.13.04-2 Surface Course Performance Testing Pay Adjustments for HMA HIGH RAP			
	Surface Course		PPA
	PG 64S-22	PG 64E-22	
APA @ 8,000 loading cycles, mm (AASHTO T 340)	$t \geq 7$	$t \leq 4$	0
	$7 < t \leq 10$	$4 < t \leq 7$	PG 64S-22: $-50(t-7)/3$ PG 64E-22: $-50(t-4)/3$
	$t > 10$	$t > 7$	-100 or Remove & Replace
Overlay Tester, cycles (NJDOT B-10)	$t \geq 200$	$t \geq 275$	0
	$200 > t \geq 150$	$275 > t \geq 200$	Surface PG 64S-22: $-(200-t)$ Surface PG 64E-22: $-(275-t)/1.5$
	$t < 150$	$t < 200$	-100 or Remove & Replace

TABLE 902.13.04-3 CHANGED TO:

Table 902.13.04-3 Intermediate and Base Course Performance Testing Pay Adjustments for HMA HIGH RAP			
	Intermediate and Base Course		PPA
	PG 64S-22	PG 64E-22	
APA @ 8,000 loading cycles, mm (AASHTO T 340)	$t \leq 7$	$t \leq 4$	0
	$7 < t \leq 10$	$4 < t \leq 7$	PG 64S-22: $-50(t-7)/3$ PG 64E-22: $-50(t-4)/3$
	$t > 10$	$t > 7$	-100 or Remove & Replace
Overlay Tester, cycles (NJDOT B-10)	$t \geq 100$	$t \geq 150$	0
	$100 > t \geq 75$	$150 > t \geq 110$	Intermediate PG 64S-22: $-(2t-200)$ Intermediate PG 64E-22: $-1.25(150-t)$
	$t < 75$	$t < 110$	-100 or Remove & Replace

1\*\*\*\*\*1

## SECTION 903 – CONCRETE

### 903.01 CEMENT

1\*\*\*\*\*1

BDC21S-02 DATED MAR 24, 2021

THE ENTIRE SUBSECTION TEXT IS CHANGED TO:

Use cement, listed on the QPL, that is either portland cement or blended hydraulic cement and conforms to the following:

Portland Cement, Type I, II, and Type III..... ASTM C 150  
Blended Hydraulic Cement, Type IS, IP, and IL ..... ASTM C 595

Only use Type III portland cement for Class V concrete, prestressed Items, and precast Items.

Use portland cement pre-blended with a maximum of 25 percent fly ash, by weight, or a maximum of 5 percent silica fume by weight, or with a maximum of 50 percent slag by weight for blended hydraulic cement Type IS or IP. Use portland cement pre-blended with a minimum of 5 percent limestone content and a maximum of 15 percent limestone content by weight for blended hydraulic cement Type IL. Ensure that a scaling test according to ASTM C 672 is completed on the mix design if more than 30 percent slag is used and that the concrete has a visual rating less than 3 after 50 cycles.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Do not add additional mineral admixtures to blended hydraulic cements Type IS or IP at the concrete plant unless approved by the ME. The use of additional mineral admixtures in blended hydraulic cement Type IL at the concrete plant is permitted if the mineral admixture is listed on the QPL

Do not mix different brands of cement, the same brand of cement from different mills, or different types of cement.

Provide suitable means for storing and protecting the cement against dampness. The ME will reject cement that has become partially set or that contains lumps of caked cement. Ensure that the temperature of the cement at the time of delivery to the mixer does not exceed 160 °F.

1\*\*\*\*\*1

**903.03.05 Control and Acceptance Testing Requirements**

**E. Acceptance Testing for Strength for Pay-Adjustment Items.**

2\*\*\*\*\*2  
**INCLUDE ONLY THE FOLLOWING ITEMS, AS APPLICABLE, FOR PAY ADJUSTMENT  
 (DO NOT INCLUDE ANY VARIANCE SUCH AS: CONCRETE BRIDGE DECK, HPC)**

Concrete Items which are subject to pay adjustment and the base prices are as follows:

ITEMS	DESCRIPTION	UNIT	BASE PRICE
507021P	CONCRETE BRIDGE DECK	CY	\$500.00
507036P	CONCRETE BRIDGE PARAPET	LF	\$305.00
505039P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SII-36), 36" X 15"	LF	\$125.00
505042P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIII-36), 36" X 18"	LF	\$130.00
505015P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BI-36), 36" X 27"	LF	\$170.00
505045P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIV-36), 36" X 21"	LF	\$160.00
505018P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BII-36), 36" X 33"	LF	\$170.00
505021P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIII-36), 36" X 39"	LF	\$175.00
505024P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIV-36), 36" X 42"	LF	\$185.00
505003P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 45"	LF	\$155.00
505006P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 54"	LF	\$155.00
505048P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SII-48), 48" X 15"	LF	\$160.00
505051P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIII-48), 48" X 18"	LF	\$135.00
505009P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 63"	LF	\$185.00
505027P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BI-48), 48" X 27"	LF	\$215.00
505054P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIV-48), 48" X 21"	LF	\$215.00
505030P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BII-48), 48" X 33"	LF	\$185.00
505033P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIII-48), 48" X 39"	LF	\$220.00
505036P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIV-48), 48" X 42"	LF	\$230.00
505012P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 72"	LF	\$200.00
502045M	CAST-IN-PLACE CONCRETE PILE, DRIVEN, 12" DIAMETER	LF	\$50.00
502090M	PRECAST CONCRETE PILE, DRIVEN, 12" X 12"	LF	\$90.00
502132M	PRESTRESSED CONCRETE PILE, DRIVEN, 12" X 12"	LF	\$50.00
502135M	PRESTRESSED CONCRETE PILE, DRIVEN, 14" X 14"	LF	\$50.00
502138M	PRESTRESSED CONCRETE PILE, DRIVEN, 16" X 16"	LF	\$50.00
502141M	PRESTRESSED CONCRETE PILE, DRIVEN, 18" X 18"	LF	\$50.00

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

502144M	PRESTRESSED CONCRETE PILE, DRIVEN, 20" X 20"	LF	\$75.00
502147M	PRESTRESSED CONCRETE PILE, DRIVEN, 22" X 22"	LF	\$75.00
502150M	PRESTRESSED CONCRETE PILE, DRIVEN, 24" X 24"	LF	\$75.00
502151M	PRESTRESSED CONCRETE PILE, DRIVEN, 30" X 30"	LF	\$75.00
502156M	PRESTRESSED CONCRETE PILE, DRIVEN, 54" DIAMETER	LF	\$200.00

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**SECTION 909 – DRAINAGE**

**909.02.02 HDPE Pipe**

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**BDC21S-12 DATED AUG 16, 2022**

THE SUBPART HEADING IS CHANGED TO:

**909.02.02 HDPE Pipe and Polypropylene (PP) Pipe**

THE ENTIRE SUBPART IS CHANGED TO:

Use corrugated HDPE drainage pipe that conforms to AASHTO M 294 and is Type S (smooth interior with annular corrugations) with gasketed silt-tight joints.

Use corrugated polypropylene (PP) drainage pipe that conforms to AASHTO M 330 and is Type S (smooth interior with annular corrugations) with gasketed silt-tight joints.

Use HDPE and polypropylene (PP) pipe from a manufacturer who is an AASHTO NTPEP (National Transportation Product Evaluation Program) certified manufacturer. For a list of NTPEP certified manufacturers, see the following webpage: <https://data.ntpep.org/>.

Submit a certification of compliance, as specified in 106.07, for HDPE and polypropylene (PP) pipe.

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**SECTION 910 – MASONRY UNITS**

**910.04 STONE CURB**

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**PROVIDE LITHOLOGY, COLOR, AND TEXTURE OF STONE CURB**

**SME CONTACT – LANDSCAPE ARCHITECTURE**

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**910.05 STONE FACING FOR PIER SHAFTS**

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**PROVIDE LITHOLOGY, COLOR, AND TEXTURE OF STONE FACING FOR PIER SHAFTS**

**SME CONTACT – LANDSCAPE ARCHITECTURE  
AND  
STRUCTURAL DESIGN**

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

**910.06 STONE PAVING BLOCK**

1\*\*\*\*\*1  
 PROVIDE COLOR, TEXTURE, AND UNIFORMITY OF STONE PAVING BLOCK

**SME CONTACT – LANDSCAPE ARCHITECTURE**

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**SECTION 911 – SIGNS, SIGN SUPPORTS, AND DELINEATORS**

**911.01.01 Materials**

**B. Retroreflective Sheeting.**

1\*\*\*\*\*1  
 BDC22S-12 DATED OCT 05, 2022

TABLE 911.01.01-2 IS CHANGED TO:

Table 911.01.01-2 Allowable Sign Sheeting Types		
Sign Type	Test Method	Type
Regulatory and Warning Signs	ASTM D 4956	Type III, Type VIII, Type IX or Type XI <sup>1</sup>
Guide Signs Mounted on Steel “U” Posts	ASTM D 4956	Type III, Type VIII, Type IX or Type XI
Guide Signs Mounted on Overhead Sign Structures, Breakaway Sign Supports, or Non-breakaway Sign Supports	ASTM D 4956	Type VIII, Type IX or Type XI <sup>2</sup>

1. Ground-mounted signs with white background shall be ASTM Type IX.  
 2. Do not use ASTM Type XI sheeting with any existing sign lighting improvement or signs that are lit.

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**SECTION 912 – PAINTS, COATINGS, TRAFFIC STRIPES, AND TRAFFIC MARKINGS**

**912.01.04 Concrete Stain**

1\*\*\*\*\*1  
 BDC20S-10 DATED SEP 11, 2020

THE SUBSECTION IS CHANGED TO:

Provide a penetrating stain that is a single component, water-based acrylic coating, alkali resistant, and water repellent. Primer is required for application on smooth concrete. Provide a primer that is a penetrating, water based, water repellent concrete sealer. Ensure that the stain conforms to the requirements in Table 912.01.04-1.

Table 912.01.04-1 Requirements for Concrete Stain		
Property	Value	ASTM Test Method
Dry – to – Touch Time	Max. 1 hour	D 1640
Dry – to – Recoat Time	Max. 4 hour	D 1640
Weight per Gallon	11.0 + 0.5 lbs.	D 1475
Weight Solids	52 + 2%	D 2369
Adhesion, Tape Test	Min. 4A	D 3359
Gloss	Flat	D 523
Weathering	<3.0 dE @ 3,000 hrs.	G 154 / D 4587
VOC	<100 g/L	D 2369

PROVIDE PROJECT ROUTE/CONTRACT NO.  
 OR PROJECT IDENTIFICATION.

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**912.04.02 Removable Pavement Marking Tape**

**A. Temporary Pavement Tape.**

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BDC22S-06 DATED JUL 13, 2022

THE FOURTH PARAGRAPH IN PART A IS CHANGED TO:

Provide a certification of compliance, as specified in 106.07, for temporary pavement tape.

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**B. Removable Black Line Masking Tape.**

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BDC22S-06 DATED JUL 13, 2022

THE THIRD PARAGRAPH IN PART B IS CHANGED TO:

Provide a certification of compliance, as specified in 106.07, for removable black masking tape.

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**SECTION 913 – GUIDE RAIL, FENCE, RAILING, AND BOX BEAM**

1\*\*\*\*\*1

BDC21S-13 DATED MAR 21, 2022

**913.04 BOX BEAM FOR CONSTRUCTION BARRIER CURB**

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure that the box beam is made of cold-formed welded and seamless structural tubing. Ensure that the box beam conforms to ASTM A 500, Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes, Grade C.

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**SECTION 914 – JOINT MATERIALS**

**914.04.03 Modular**

1\*\*\*\*\*1

BDC21S-08 DATED NOV 18, 2021

THE SUBPART IS RENAMED TO:

**914.04.03 Modular Expansion Joint Assemblies**

**B. Materials.**

PART 1 IS CHANGED TO:

1. Use structural steel conforming to the requirements of AASHTO M 270M / M 270 (ASTM A 709 / A 709M), Grade 50, or Grade 50W with Zone 2 CVN requirements for centerbeams, supporting beams, and yokes. Use structural steel AASHTO M 270 M / M (ASTM A 709 / A 709M) Grade 36, Grade 50, or Grade 50W for other steel components. Do not use aluminum components.

PART 3 IS CHANGED TO:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

3. Use PTFE that is 100 percent virgin material, woven PTFE fabric, or dimpled PTFE conforming to the material requirements in Section 14 of the AASHTO LRFD Bridge Design Specifications, and Section 19 of AASHTO LRFD Bridge Construction Specifications.

THE 2<sup>ND</sup> PARAGRAPH IS CHANGED TO:

Perform prequalification tests, Open Movement and Vibration (OMV) testing and Seal Push-Out (SPO) testing, according to AASHTO LRFD Construction Specifications Section 19/A19 and provide testing report. Certify that the tested modular expansion joint assembly has passed the prequalification tests required in AASHTO LRFD Construction Specifications.

THE FOLLOWING IS ADDED AT THE END:

Provide certification that materials of bearings, springs, and equidistant devices used in the project product are identical to those used in the prequalification tests in material composition and formulation, and conform to the same manufacturing process, fabrication procedure, and configuration as those used in the prequalification tests. In addition, certify that these materials and fabrication procedures are as per working drawing plans and specifications provided by the manufacturer at the time of approval.

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## SECTION 915 – TIMBER AND TIMBER TREATMENT

### 915.04 DIMENSION LUMBER, TIMBER, AND DECKING FOR STRUCTURES

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BDC22S-08 DATED JAN 13, 2023

THE FIRST PARAGRAPH IS CHANGED TO:

Use dimension lumber, timber, glued-laminated timber, and decking for structures that conform to AASHTO M 168 with the following modifications:

1. Manufacture dimension lumber and timber from Southern pine or Douglas fir of structural grade that conforms to the grading rules of the Southern Pine Inspection Bureau or the Western Lumber Inspection Bureau. Ensure that the grading is performed by an agency approved by the Board of Review of the American Lumber Standards Committee. Use Southern pine that is designated and graded as No. 2 if 2 to 4 inches nominal thickness and as No. 1 if 5 inches nominal thickness or thicker. Use Douglas fir that is designated and graded as Dense No. 1.
2. For decking subjected to vehicular traffic, use timber that is graded as No. 1 Dense Southern Pine or Douglas-fir lumber and timbers. Dress timber for bridge decking square edged S4S.
3. For decking used exclusively by pedestrians, use No. 1 grade Southern Pine or Douglas-fir lumber and timbers that are dressed square edged S4S.
4. Treat timber as specified in 915.05, except do not preserve timber railing systems and decking used by pedestrians with creosote. In addition, do not preserve timber decking to be covered with an HMA overlay with creosote.

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### 915.05 TIMBER TREATMENT

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BDC22S-08 DATED JAN 13, 2023

THE ENTIRE SUBSECTION IS CHANGED TO:

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

Treat wood species according to AASHTO M 133 and AWWA Standards U1-20 and T1-20, including those as summarized in Table 915.05-1, Table 915.05-2, and Table 915.05-3.

<b>Table 915.05-1 Treatment for Sawn Timber Posts</b>			
<b>Type of Wood</b>	<b>Location/Environment</b>	<b>AASHTO Treatments</b>	<b>AWPA Standard Reference for Minimum Retention Level</b>
Southern Pine	Soil or Fresh Water	CCA or Pentachlorophenol	UC4A
Douglas Fir	Soil or Fresh Water	ACZA	UC4A

<b>Table 915.05-2 Treatment for Round Timber Piles</b>			
<b>Type of Wood</b>	<b>Location/Environment</b>	<b>AASHTO Treatments</b>	<b>AWPA Standard Reference for Minimum Retention Level</b>
Southern Pine	Soil or Fresh Water	CCA	UC4C
Southern Pine	Marine	CCA	UC5B
Douglas Fir	Soil or Fresh Water	ACZA	UC4C
Douglas Fir	Marine	ACZA	UC5B

<b>Table 915.05-3 Treatment for Timber Sheet Piling and Timber for Structures</b>			
<b>Type of Wood</b>	<b>Location/Environment</b>	<b>AASHTO Treatments</b>	<b>AWPA Standard Reference for Minimum Retention Level</b>
Southern Pine	Soil or Fresh Water	CCA or Pentachlorophenol	UC4B
Southern Pine	Marine	CCA	UC5B
Douglas Fir	Soil or Fresh Water	ACZA	UC4B
Douglas Fir	Marine	ACZA	UC5B

Notify the ME at least 14 days before treating timber. If directed by the ME, perform an assay to determine the retention of preservative according to AASHTO M 133 and referenced AWWA standards. Submit certification of compliance as specified in 106.07. Attach the assay report to the certification.

The use of uncoated pressure-treated timber using the above timber treatments, as specified in Table 915.05-1, Table 915.05-2, and Table 915.05-3, may not be permitted in areas containing shellfish or submerged aquatic vegetation, or in other environmental sensitive areas. Alternative materials, such as plastic, natural cedar or other untreated wood, polymer coated pressure-treated wood, concrete or other inert products, may be required by regulatory agencies. Prior to using treated timber products, contact the NJDOT Bureau of Landscape Architecture and Environmental Solutions or the Division of Environmental Resources, as appropriate.

All lumber and timber, including those specified in Table 915.05-1, Table 915.05-2, and Table 915.05-3, must be pressure treated according to current AWWA or AASHTO M 133 standards. Preservatives are subject to EPA Guidelines 2004 with restricted use of CCA preservatives.

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## **SECTION 917 – LANDSCAPING MATERIALS**

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### **917.07 SOD**

**SPECIFY IF REQUIRED OTHER SOD  
SME CONTACT – LANDSCAPE ARCHITECTURE**

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.



**917.08 PLANT MATERIALS**

**H. Inspection.**

↑\*\*\*\*\*1  
COMPLETE AND INCLUDE THE FOLLOWING IF THE TIME FRAME FOR THE DELIVERY NOTIFICATION  
TO THE RE IS OTHER THAN 72 HOURS

**SME CONTACT – LANDSCAPE ARCHITECTURE**

Notify the RE at least \_\_\_\_ (hours or days) in advance of delivery to the Project Limits for installation.  
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**SECTION 919 – MISCELLANEOUS**

**919.05 GEOMEMBRANE LINER**

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BDC19S-09 DATED JAN 14, 2020

TABLE 919.05-1 IS CHANGED TO:

<b>Table 919.05-1 Requirements for HDPE Resin</b>		
<b>Property</b>	<b>Test Method</b>	<b>Requirements</b>
Specific Gravity (Resin & Carbon Black)	ASTM D 792	> 0.940
Melt Index	ASTM D 1238	< 0.4 g/10 min
Carbon Black Content	ASTM D 1603	2 – 3 %

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

# DIVISION 1000 – EQUIPMENT

## SECTION 1001 – TRAFFIC CONTROL EQUIPMENT

### 1001.03 TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHIONS

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BDC22S-01 DATED APR 22, 2022

THE FIRST PARAGRAPH IS CHANGED TO:

Provide a truck affixed with a bed-mounted type C flashing arrow board, as specified in 1001.01, and a rear mounted crash cushion. Ensure the weight of the truck with the type C flashing arrow board and the rear mounted crash cushion is minimum total weight of 10 tons. The Contractor may use ballast to meet the weight requirement. When using ballast, ensure that it is securely fastened to the truck. Provide crash cushions that conforms to the following requirements:

1. Meets crash-worthiness requirements as specified in 159.03.02.
2. Designed to be attached to the rear of a truck.
3. Equipped with a 90 degree hydraulic tilt system to raise and lower the crash cushion. The tilt system shall have a locking mechanism to secure the crash cushion when in the raised position.
4. If equipped with energy absorbing modules, ensure that they are painted yellow.
5. Displays alternating 6 inch wide black and yellow bands, composed of Type III-retroreflective sheeting, as specified in ASTM D 4956, in an inverted “V” chevron pattern on the surface of the rear module that faces traffic. When in the raised position, ensure that the surface of the rear facing module also displays the chevron pattern.
6. Equipped with standard trailer lighting systems, including brake lights, taillights, and turn signals that are visible in the raised and lowered positions.

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INCLUDE THE FOLLOWING SUBSECTIONS IF ANY OF THESE EQUIPMENT ARE REQUESTED BY TRAFFIC OPERATIONS

### SME CONTACT – TRAFFIC OPERATIONS

THE FOLLOWING SUBSECTION IS ADDED:

### 1001.04 PORTABLE VARIABLE MESSAGE SIGN WITH REMOTE COMMUNICATION

Provide a NTCIP compliant portable variable message sign as described under 1001.02 with the exceptions noted below and each equipped with broadband cellular modem.

Ensure that the sign panel is color full matrix model that displays a combination of letters and graphic images.

Ensure that the sign panel is capable of displaying 3 lines of text with variable size characters.

Ensure 9 characters are displayed per line for posting travel times. For this 9 character requirement, smaller size characters may be allowed that meets MUTCD guidelines.

Ensure that the panel is also capable of displaying 8 characters per line with a minimum character height of 18 inches.

Ensure that the PVMSRC can be integrated with the Department’s central DMS control software for remote operation.

### 1001.05 PORTABLE TRAILER MOUNTED CCTV CAMERA ASSEMBLY

2\*\*\*\*\*2

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

THESE SPECIFICATIONS ARE FOR PORTABLE CAMERAS FOR USE BY TOC. IF CONSTRUCTION MANAGEMENT REQUESTS A CAMERA FOR CONSTRUCTION USE SPECIFICALLY DOCUMENT THEIR REQUIREMENT AND REVISE THE SPECIFICATIONS TO MEET THEIR REQUIREMENT (WHETHER STREAMING VIDEO ARCHIVING OR HIGH MP SNAP SHOTS ARCHIVING IS REQUIRED). WHEN BOTH TOC AND CONSTRUCTION MANAGEMENT REQUESTS THIS ITEM IN THE SAME PROJECT INCLUDE TWO SEPARATE PAY ITEMS AND LIST THE DIFFERENCES IN THE TWO PAY ITEMS. IN THAT CASE, THE STANDARD PAY ITEM IS TO BE USED FOR BOTH ITEMS WITH THE DESCRIPTION ENDING WITH "TOC USE" OR "CONSTRUCTION USE".

### **SME CONTACTS – TRAFFIC OPERATIONS, MOBILITY AND SYSTEMS ENGINEERING (MSE) & BUREAU OF CONSTRUCTION MANAGEMENT**

Provide a Portable Trailer Mounted CCTV Camera Assembly (PTMCCA) with the following:

#### **A. Trailer Platform**

1. Maximum size, including tongue, 14 feet long by 7 feet wide by 8 feet high.
2. NJDOT approved lighting package to include electrical brake and marker lights with wire connections.
3. Primed and painted with powder coated orange color.
4. Fitted with manual telescoping outriggers with adjustable jacks sized to counter full mast extension.
5. Four 3,500 pounds, drop leg, top wind screw jacks.
6. All equipment secured to prevent theft or separation from platform.
7. 24/7 operation in all weather conditions.
8. One locking NEMA-4 equipment box for operational controls.
9. Removable wheels (with wheel locks) when trailer is in deployed position.
10. Operation manual with a copy placed in the storage bin.

#### **B. Mast**

1. 150 pounds payload capacity.
2. 29 feet to 32 feet of extension with capability to mount antenna at 20 feet, 25 feet or at the top, 10 feet maximum nested length of mast - 3 to 9 sections.
3. Un-guyed.
4. Driven by galvanized steel cable.
5. Spiral conduit for cables.
6. Compactly retractable when nested into storage container at the bottom, and foldable for easy transport.
7. Operated by a power winch with a safety brake.
8. Capable of being raised or lowered during sustained wind speeds of 30 miles per hour.

#### **C. Power Source**

Equip the PTMCCA with either a diesel charged or a solar charged battery system. Ensure that the PTMCCA is also capable of operating on 120 volt AC electrical service. The Department may require a solar charged battery system in noise sensitive areas. Provide the power with a battery backup system capable of providing continuous operation when the primary power source fails. Ensure that the power source meets the following requirements:

1. **Diesel.** Ensure that the fuel tank is capable of operating the sign for a period of 72 hours without refueling. Equip with an exhaust muffler and a United States Department of Forestry approved spark arrester. Ensure that the engine is shock mounted to reduce vibration and locked in a ventilated enclosure.
2. **Solar.** Provide solar panels capable of recharging the batteries at a rate of 4 hours of sun for 24 hours of camera usage. Ensure that the battery capacity is capable of operating the sign for a period of 18 days without sunlight.

#### **D. Electronics**

1. Cellular (CDMA), microwave, or 802.11 bandwidth option.
2. Work lights in all cabinets.

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

- 3. Remote trailer diagnostics (battery level, charging output, etc.)

**E. Camera and Software**

Ensure that the camera has the following characteristics:

- 1. Dome Camera in a heavy duty plastic dome or with a weather resistant case.
- 2. Impact resistant viewing window.
- 3. Minimum resolution of NTSC 704 (H) x 480 (V).
- 4. Backlight compensation.
- 5. Image stabilization.
- 6. Light Sensitivity 0.02 lux NIR Mode.
- 7. Auto Focus with Manual Focus capability.
- 8. Auto White Balance with Manual White Balance capability.
- 9. Motorized Zoom up to 16x optical, 10x digital.
- 10. Motorized Pan-Tilt, pan 360°, tilt 180°.
- 11. Thermostatically controlled heater and defroster -50° to 140°F operating range.
- 12. Windshield wiper.
- 13. 24/7 operation in all weather conditions.
- 14. Time and date stamp.

Ensure the software provides the following functionality:

- 1. Remote control of pan, tilt, and zoom.
- 2. Display of streaming video in MPEG format, motion-JPEG, and single snapshot JPEG images, remotely interchangeable by using central software.
- 3. Preset controls of pan/tilt/zoom combinations. Ensure all presets are accessible from a drop-down menu with descriptive name of preset. Set first 8 presets with quick-launch icons with graphical representation of the preset views.
- 4. Display of all the project’s webcams in a single view screen.
- 5. Display of local time and weather conditions including temperature and humidity.
- 6. Saving images and sending email images.

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**CONFIRM WITH TOC IF PROJECT SPECIFIC ARCHIVING IS REQUIRED OR NOT AND REVISE # 7 ACCORDINGLY, MEETING THEIR REQUIREMENT.**

**SME CONTACT – TRAFFIC OPERATIONS**

- 7. Viewing archived images via a graphical calendar control and storing archived images at least every 5 minutes.
- 8. Three levels of password protection: administrator, user, and guest individual user accounts.
- 9. Monitoring and controlling the cameras using web access.

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**SECTION 1003 – HMA SITE EQUIPMENT**

**1003.01 MATERIALS TRANSFER VEHICLE (MTV)**

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BDC 20S-05 DATED JUN 5, 2020

PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure the MTVs Gross Weight and maximum speed limit do not exceed the load restrictions as shown in 105.09 Special Provisions.

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## SECTION 1009 – HMA PLANT EQUIPMENT

### 1009.01 HMA PLANT

#### A. Requirements for HMA Mixing Plants.

##### 8. Safety.

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BDC20S-09 DATED JUL 6, 2020

THE THIRD PARAGRAPH IS CHANGED TO:

When plant production occurs during night operations, provide permanently fixed lighting throughout the plant operations, plant laboratory, and truck scale areas to ensure a clear view of the operations. Also provide permanently mounted lighting at the sampling platforms to sufficiently illuminate the bed of the truck for inspection and sampling operations.

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

# NJDOT TEST METHODS

## NJDOT R-1 – DETERMINING RIDE QUALITY OF PAVEMENT SURFACES

### B. Apparatus.

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BDC21S-06 DATED JUN 11, 2021

PART B IS CHANGED TO:

Use the following apparatus:

1. Class 1 IPS that meets the requirements of ASTM E 950, Sections 4.0, 5.0 and 6.0 of AASHTO M 328, and the following:
  - a. Valid certification.
  - b. Recertification after any major component repairs or replacements.
  - c. The data system provides the raw profile data in format readable in ProVal.
  - d. Current version of pavement profile analysis software installed on the IPS computer to compute the IRI.
2. Base plate and gauge blocks, of 1 inch and 2 inch thickness, provided by the manufacturer to verify daily vertical calibration.
3. Retro-reflective traffic marking tape or other approved mechanism to automatically trigger the start and stop of profile measurements.

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### C. Procedure.

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BDC21S-06 DATED JUN 11, 2021

PART C IS CHANGED TO:

Perform the following steps:

1. Turn on the inertial profiler and warm up all electronic equipment in accordance with the manufacturer recommendations before testing.
2. Perform Block and Bounce tests each day before collecting data. Record the results in the calibration log. Ensure tolerances are within the certified limits.
3. Ensure retro-reflective traffic marking tape or other approved mechanism is placed at the beginning and end of each direction of travel lane.
4. Enter project information in the test equipment system.
5. Make provisions to start and stop recording profile at the beginning and end of testing. If an automatic trigger mechanism is not installed, make provision to initiate start and end of data recording manually by pressing an appropriate key(s) on the computer.
6. Ensure that the required speed, as recommended by the manufacturer, is achieved and that the system is collecting profile data before recording profile.
7. For each test section, perform 3 test runs to collect data of both wheel paths of each lane in the longitudinal direction of travel. The wheel path is defined as being located approximately 3 feet on each side of the centerline of the lane and extending for the full length of the lane. Lanes are defined by striping.
8. Save data from each run separately before the next run or lane testing, clearly identifying each test run, lane identification, and run number.

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PROVIDE PROJECT ROUTE/CONTRACT NO.  
OR PROJECT IDENTIFICATION.

ATTACHMENTS

INCLUDE STATE ATTACHMENTS FOR WHOLLY STATE FUNDED PROJECTS

STATE FUNDED PROJECT ATTACHMENT 1

SMALL BUSINESS ENTERPRISE UTILIZATION ON WHOLLY STATE FUNDED PROJECTS

- A. Utilization of Small Business Enterprises Businesses as Subcontractors, Transaction Expeditors, Regular Dealers, Manufacturers and Truckers.** The Department advises the Contractor and subcontractor that failure to carry out the requirements set forth in this attachment constitutes a material breach of Contract and, after notification to the applicable State agency, may result in termination of the agreement or Contract by the Department or such remedy as the Department deems appropriate. Requirements set forth in this section shall also be physically included in all subcontract agreements in accordance with State of New Jersey requirements.
- B. Policy.** It is the policy of the Department that small businesses, as defined in N.J.A.C. 17:13-1.2 et seq. comprising a Small Business Enterprise (SBE) shall have the maximum opportunity to participate in the performance of contracts financed wholly with State funds. In this regard, the Department and all Contractors shall take all necessary and reasonable steps to ensure that registered Small Business Enterprises are utilized on, compete for, and perform on NJDOT construction contracts.
- C. Definitions**
- 1. Small Business Enterprise.** A business which has its principal place of business in the State of New Jersey; is independently owned and operated; has no more than 100 full-time employees; has gross revenues that do not exceed the applicable Federal revenue standards referenced at N.J.A.C. 17:13-2.1 and satisfies any additional eligibility standards under this chapter.
- Small businesses with no more than 100 full-time employees will be registered in one of the following three categories:
- a. Small business with gross revenues that do not exceed \$3 million.
  - b. Small businesses with gross revenues that do not exceed 50 percent of the applicable annual revenue standards set forth in federal regulation at 13 CFR 121.201, incorporated herein by reference, and as may be adjusted periodically.
  - c. Small business with gross revenues that do not exceed the applicable annual revenue standards set forth in federal regulation at 13 CFR 121.201, incorporated herein by reference, as may be adjusted periodically.
- The business must be independently owned and operated, with management being responsible for both its daily and long-term operation, as well as owning at least 51 percent interest in the business.
- Businesses must be incorporated or registered with the Division of Revenue & Enterprise Services to do business in the State and have its principal place of business in New Jersey, defined when:
- a. 51 percent or more of its employees work in New Jersey supported by paid New Jersey unemployment taxes or;
  - b. 51 percent or more of its business operations/activities occur in New Jersey supported by income and/or business tax returns.
  - c. The business must be a sole proprietorship, partnership, limited liability company or corporation with 100 or fewer employees in full-time positions, not including:
    - 1. Seasonal and part-time employees employed for less than 90 days, if seasonal and casual part-time employment are common to that industry and
    - 2. Consultants employed under contracts for which the business wants to be eligible as a small business.
- 2. Commercially Useful Function (CUF).** A SBE performs a commercially useful function when it is responsible for execution of a distinct element of the work of a contract and carrying out its

responsibility by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the SBE must also be responsible, with respect to materials and supplies used on the contract, for preparing the estimate, negotiating price, determining quality and quantity, ordering the material, arranging delivery, installing (where applicable), and paying for the material and supplies itself for the project.

3. **Transaction expeditor (broker).** A SBE who arranges or expedites transactions and who arranges for material drop shipments.
4. **SBE regular dealers.** A firm that must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. In addition, a regular dealer must own, operate, or maintain a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment required under this Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
5. **SBE manufacturer.** A firm that operates or maintains a factory or establishment that produces on the premises, the materials, supplies, articles, or equipment required for the Contract.
6. **Good faith effort (GFE).** Efforts to achieve a SBE goal or other requirement of N.J.A.C. 17:13 et seq. which by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement. Efforts to include firms not certified as SBEs in the state where the contract is being let are consequently not good faith efforts to meet a SBE contract goal.

**D. Compliance.** The Contractor is responsible for compliance as specified in Section 105.

**E Contractor SBE Goal Obligations.** Ensure that SBEs have an equal opportunity to receive and participate in contracts and subcontracts financed in whole with State funds in performing work with the Department. Take all necessary and reasonable steps in accordance with the Contract to ensure that SBEs are given equal opportunity to compete for and to perform on the Department's wholly State funded projects. Do not discriminate in the award and performance of any Contract obligation including, but not limited to, performance of obligations on wholly State funded contracts, as specified in Section 107.

1. Post Award Obligations

- a. Give SBEs equal consideration with non-small business firms in negotiation for any subcontracts, purchase orders or leases.
- b. Attempt to obtain qualified SBEs to perform the work. A directory of registered Small Businesses Enterprise firms can be found in the New Jersey Selective Assistance Vendor Information (NJSAVI) database online at: [https://www20.state.nj.us/TYTR\\_SAVI/vendorSearch.jsp](https://www20.state.nj.us/TYTR_SAVI/vendorSearch.jsp)

2. Affirmative Action After Award of the Contract

- a. **Subletting.** If at any time following the award of the Contract, the Contractor intends to sublet any portion(s) of the work under said Contract, or intends to purchase material or lease equipment not contemplated during preparation of bids, take affirmative action:
  - (1) Notify the RE, in writing, of the type and approximate value of the work which the Contractor intends to accomplish by such subcontract, purchase order or lease.
  - (2) Submit the Post-Award SBE Certification Form to the Regional Supervising Engineer with the application to sublet, or prior to purchasing material or leasing equipment. Obtain Post Award SBE Certification forms from the RE.
  - (3) Efforts made to identify and retain a SBE as a replacement subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer, or trucker when the arrangements with the original SBE prove unsuccessful, shall be followed as specified for SBE subcontractors in Section 108. Work in the category concerned shall not begin until such approval is granted in writing by the Department.
  - (4) Notification of a SBE subcontractor's termination will be the same as for SBE subcontractors, specified in Section 108. Send notice in writing to the Department through the RE, with a copy to DCR/AA. Said termination notice will include the firm's ethnic classification, whether the firm is a SBE and the detailed reason(s) for termination.



- b. Selection and Retention of Subcontractors.** Do not discriminate in the selection and retention of subcontractors, including procurement of materials and leases of equipment as specified in 108.01. Provide the RE with a listing of firms, organizations or enterprises solicited and those utilized as subcontractors on the proposed project. Such listing shall clearly delineate which firms are classified as SBEs. Provide the RE with subcontract agreements for all subcontractors performing work on the Contract as specified in Section 108.
- (1) Efforts made to identify and retain a SBE as a replacement subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer, or trucker when the arrangements with the original SBE prove unsuccessful, shall be the same as for SBE subcontractors and submitted as specified in Section 108. Work in the category concerned shall not begin until such approval is granted in writing by the Department.
  - (2) Notification of a SBE firm's termination will be as specified in Subsection 108.01. Send notice in writing to the Department through the RE. Said termination notice will include the firm's ethnic classification, whether the firm is a SBE and the detailed reason(s) for termination.
- c. Meeting Contract SBE Goal.** Report attainment toward meeting the Contract SBE goal by submitting monthly, all SBE participation, to the Department's RE and DCR/AA Contract Compliance Unit using the CR-267 – Monthly Report of Utilization of DBE/ESBE or SBE form. The form is due by the 5th of the month and must list all SBEs used on the Contract to meet the Contract goal, the specific Contract work items each SBE is performing, whether the SBE is performing full or partial work on the items, and the amount paid to each SBE each month. Failure to report the information, and accurately report it may result in payment being delayed or withheld as specified in Section 105, assessing sanctions, or termination of the Contract as specified in Section 108.
- d. Termination, Substitution or Replacement of SBEs.** Make good faith efforts to replace a SBE that is terminated or has otherwise failed to complete its work on the Contract with another registered SBE, to the extent needed to meet the Contract SBE goal. Notify the DCR/AA immediately of the SBE's inability or unwillingness to perform and provide reasonable documented evidence. Prior to termination, substitution, or replacement of a SBE subcontractor, lower-tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer, or trucker, submit a Revised CR-266 – Schedule of DBE/ESBE/SBE Participation form to the Department naming the replacement SBE firm(s), type of work performed, specific Contract work items, whether the SBE is performing full or partial work on the items, dollar value and percent of total Contract for each SBE firm. Submit detailed written explanation of why each change is being made, including documented evidence of good faith effort(s) with the submission of the revised Form CR- 266. Submit along with the revised CR-266: 1) a completed Confirmation of SBE Firm (Form CR-273) to demonstrate direct written confirmation from each SBE firm participating on the Contract, confirming the kind and amount of work that was provided on the Contractor's CR-266, and if applicable; 2) a completed SBE Regular Dealer/Supplier Verification (Form CR-272) for all SBE Regular Dealers/Suppliers listed on the revised CR-266; and if applicable, 3) a completed SBE Trucking Verification (Form CR-274) for all SBE truckers listed on the revised CR-266 form. The Contractor is not permitted to complete any portion of the CR-273, CR-272 or CR-274 forms. Termination, substitution, or replacement of SBEs shall be made as specified in Section 108. Termination or replacement of SBE cannot be made without prior written approval of the Department as per Section 108.
- e. Submission of Good Faith Effort Documentation.** If the Contractor is unable to meet the Contract goal for SBE participation, submit to the DCR/AA for review and approval, documented evidence of good faith efforts along with the monthly CR-267 form. This submission must include written details addressing each of the good faith efforts outlined in the Contract. Submittal of such information does not imply DCR/AA approval.
- F. SBE Goals for this Contract.** This Contract includes a goal of awarding \_\_\_\_\_ percentage of the Total Contract Price to subcontractors qualifying as SBEs.

**NOTE: SUBCONTRACTING GOALS ARE NOT APPLICABLE IF THE PRIME CONTRACTOR IS A REGISTERED SMALL BUSINESS ENTERPRISE (SBE) FIRM.**

The Department's DCR/AA has sole authority to determine whether the Contractor met the Contract goal or made adequate good faith efforts to do so. If the DCR/AA determines that the Contractor has failed to meet the Contract SBE goal or made adequate good faith efforts to do so, the Department will follow Section 105.

**G. Counting SBE Participation.**

1. Each SBE is subject to a registration procedure to ensure its SBE eligibility status prior to the award of Contract. All SBEs working on the Contract must be registered SBEs. Only Small Business Enterprises registered prior to the date of bid, or prospective Small Business Enterprises that have submitted to the New Jersey Commerce and Economic Growth Commission on or before the day of bid, a completed "State of New Jersey Small Business Vendor Registration Form" and all the required support documentation, will be considered in determining whether the Contractor has met the established Contract SBE goal. Early submission of required documentation is encouraged.
2. The Department determines the percentage of SBE participation that will be counted toward the Contract SBE goal. Once a firm is determined to be a bona fide SBE by the New Jersey Commerce and Growth Commission, the total dollar value of the contract awarded to the SBE is counted toward the applicable goal.
3. The Contractor will count SBE participation toward the Contract SBE goal only the value of the work actually performed by a SBE when that SBE performs a commercially useful function in the work of a contract as per Section H of this Special Provision Attachment.
4. If a Contractor is part of a Joint Venture and one or more of the Sole Proprietorships, Partnerships, Limited Liability companies or Corporations comprising the Joint Venture is a registered SBE, the actual payments made to the Joint Venture for work performed by the SBE member, will be applied toward the Contract SBE goal. Payments made to the Joint Venture for work performed by a non-small business firm will not be applied toward the Contract SBE goal.
5. If the Contractor is a registered SBE, payments made to the Contractor for work that the Contractor is registered to perform and performed by the Contractor will be applied toward the Contract SBE goal. Payments made to the Contractor for work performed by non-SBEs will not be applied toward the Contract SBE goal.
6. When a SBE subcontracts part of the work of its contract to another firm, the value of the subcontracted work may be counted towards the SBE goal only if the subcontractor itself is an SBE. Work that a SBE subcontracts to a non-SBE firm does not count toward the Contract SBE goal.

**H. Commercially Useful Function**

1. **Performance of Work.** The SBE must perform the work with their own permanent employees, or employees recruited through traditional recruitment and/or employment centers. SBEs must employ and control their own workforce, and cannot share employees with the Contractor, other subcontractors on the present project, or the renter-lessor of equipment being used on the present project. The SBE firm must be responsible for all payroll and labor compliance requirements for all of their employees performing work on the Contract. Direct or indirect payments by any other contractor are not allowed.
2. **Managing Work.** The SBE must manage the work themselves including the scheduling of work operations, ordering of equipment and materials, hiring/firing of employees, including supervisory employees, and preparing and submitting certified payrolls. The SBE must supervise their portion of daily work operations of the project. With respect to materials and supplies used on the Contract, the SBE must be responsible for preparing the estimate, negotiating price, determining quantity and quality, ordering the material, arranging delivery, installing, (where applicable), and paying for the material and supplies for the project.
3. **Responsibility of Work.** A SBE must perform or exercise responsibility for at least 30 percent of the total cost of its contract with its own workforce. The SBE must not subcontract a greater portion of the work of a contract than would be expected on the basis of normal industry practice for the type of work involved.

4. **Equipment of SBE.** The SBE must perform the work stated in the subcontract with their own equipment, whether owned or leased and operated on a long-term agreement, not an ad hoc or contract by contract agreement. The equipment must be owned by the SBE firm or leased/rented from traditional equipment lease/rental sources. The equipment will not belong to the Contractor, any other subcontractor or lower tier subcontractors on the current project, or supplier of materials being installed by the SBE firm.
5. **Lease of Equipment.** A SBE firm may lease specialized equipment from a contractor, but not from the Contractor, if it is consistent with normal industry practices and at rates competitive for the area. Rental agreements must be for short periods of time, specify the terms of the agreement and involve specialty equipment to be used at the job site. The lease may allow the operator to remain on the lessor's payroll if it is the generally accepted industry practice, but the operation of the equipment must be subject to full control by the SBE. The SBE shall provide the operator for non-specialized equipment and is responsible for all payroll and labor compliance requirements. A separate lease agreement is required.
6. **SBE Trucking.** SBE trucking companies must perform a commercially useful function. Contrived arrangements for the purpose of meeting SBE goals will not be allowed. The SBE must be responsible for the management and supervision of the entire trucking operation on a contract-by-contract basis, and must own and operate at least one fully, licensed, insured, and operational truck used on the Contract.

The SBE trucking firm is not permitted to obtain trucks from the Contractor to perform work on the project. The SBE may lease trucks from a subcontractor working on the project, provided the trucks are obtained from the subcontractor prior to the project letting. Bona fide lease agreements must be for the length of time needed by the SBE on the Contract and signed by both the SBE and the firm(s), either certified SBE or non-SBE, from which the trucks will be leased. Leases must indicate that the SBE has exclusive use and control over the truck. All leased trucks must display the name and USDOT identification number issued for interstate commerce, of the SBE firm, on the outside of the truck. SBE firms are expected to use the same trucks for SBE credit on all projects so use of leased vehicles on a project-by-project basis is not permitted.

The Contractor shall have signed Hiring Agreements. Submit copies of these signed Hiring Agreements, and copies of all signed lease agreements to the RE prior to the trucking firm's commencing work on the project. Prior to the SBE trucking firm beginning work on the Contract, SBE Trucking firms will be required to complete the SBE Trucking Verification (Form CR-274). The SBE and Contractor must sign the form and the Contractor submit the original CR-274 form directly to the Department's RE, with a copy submitted to the DCR/AA. The Contractor is not permitted to complete any portion of the CR-274 form. The Contractor must prepare, sign and submit along with the CR-267 – Monthly Report of Utilization of DBE/ESBE or SBE form, a Monthly Trucking Verification form (CR-271), identifying each truck owner, SBE Certification number, company name and address, truck number, and commission or amount paid for all SBE and non-SBE truckers performing work on the project. Also, submit the form to the Department as per Section E of this Special Provision for the DCR/AA's review, approval, and determination of credit toward the Contract goal. Failure to submit the forms may result in denial or limit of credit toward the Contract SBE goal, payment being delayed or withheld as specified in Section 105, assessing sanctions or termination of the Contract as specified in Section 108.

7. **SBE Regular Dealers.** SBE regular dealers must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. In addition, a regular dealer must own, operate, or maintain a store, warehouse, or other establishment in which the materials, supplies, articles, or equipment of the general character described by the specifications and required under this Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
8. **SBE Manufacturers.** SBE manufacturers must be a firm that operates or maintains a factory or establishment that produces on the premises, the materials, supplies, articles, or equipment required for this Contract.

9. The Contractor shall not use a SBE solely for the purpose of acting as an extra participant in a transaction, a contract or the Contract through which funds are passed in order to obtain the appearance of SBE participation.

I. **Good Faith Effort.** To demonstrate good faith efforts to meet the Contract SBE goal, a Contractor shall, on an ongoing basis, adequately document the steps it takes to obtain SBE participation, including but not limited to the following:

1. Conducting market research to identify qualified potential small business subcontractors and suppliers and soliciting through all reasonable and available means, the interest of registered SBEs that have the capability to perform the work of the Contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices, or emails to all registered SBEs listed in the New Jersey Selective Assistance Vendor Information (NJSAVI) database that specialize in the areas of work desired (as noted in SAVI) and which are located in the area or surrounding areas of the project.

Solicit this interest as early in the acquisition process as practicable to allow the SBEs to respond to the solicitation and submit a timely offer for the subcontract. Determine with certainty if the SBEs are interested by taking appropriate steps to follow up initial solicitations.

Request a listing of small businesses from the New Jersey Department of the Treasury, Division of Property Management and Construction if none are known to the Contractor

2. Selecting portions of the work to be performed by SBEs in order to increase the likelihood that the SBE goals will be achieved. This includes, where appropriate, breaking out Contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate SBE participation, even when the Contractor might otherwise prefer to perform these work items with its own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates SBE participation.
3. Providing all potential SBE subcontractors with detailed information about the plans, specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract. Attempt to contact all potential subcontractors on the same day and use similar methods to contact them.
4. Negotiating in good faith with interested SBEs. Make a portion of the work available to SBE subcontractors and suppliers and select those portions of the work or material needs consistent with the available SBE subcontractors and suppliers, so as to facilitate SBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of SBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for SBEs to perform the work.

Consider a number of factors in negotiating with subcontractors, including SBE subcontractors. Take a firm's price and capabilities as well as Contract goals into consideration. The fact that there may be some additional costs involved in finding and using SBEs is not in itself sufficient reason for failure to meet the Contract SBE goal, as long as such costs are reasonable. The ability or desire of a Contractor to perform the work of a Contract with its own organization does not relieve the responsibility to make good faith efforts. Contractors are not, however, required to accept higher quotes from SBEs if the price difference is excessive or unreasonable.

5. Not rejecting SBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the Contract SBE goal. Another practice considered an insufficient good faith effort is the rejection of the SBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the Bidder to accept unreasonable quotes in order to satisfy the Contract SBE goal.

Inability to find a replacement SBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original SBE. The fact that the Contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the Contractor of the obligation to make good faith efforts to find a replacement SBE, and it is not a sound basis for rejecting a prospective replacement SBE's reasonable quote. Attempt, wherever possible, to negotiate prices with potential subcontractors which submitted higher than acceptable price quotes.

Keep a record of efforts, including the names of businesses contacted and the means and results of such contacts.

6. Making efforts to assist interested SBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
7. Making efforts to assist interested SBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.

If the Contractor fails to meet the Contract SBE goal, they must submit documented evidence of good faith effort(s) to meet the goal with the CR-268 final SBE Report to the DCR/AA for review and approval. Submittal of such information does not imply DCR/AA approval. The Department's DCR/AA has sole authority to determine whether the Contractor met the Contract SBE goal or made adequate good faith efforts to do so. If the DCR/AA determines that the Contractor has failed to meet the Contract SBE goal or made adequate good faith effort to do so, the Department will follow Section 105.

#### **J. Submission of Affirmative Action Program**

Contractors, subcontractors, and professional service firms performing work for the Department are required to submit their company's Affirmative Action Program annually to the DCR/AA. Contractors must have an **approved** Affirmative Action Program on file in the DCR/AA no later than seven (7) State business days after the date of bid opening. No recommendations to award will be made without an approved Affirmative Action Program on file in the DCR/AA. Ensure subcontractors and professional service firms have an approved Affirmative Action Plan on file in the DCR/AA prior to their beginning work on a particular project.

The Annual Affirmative Action Program will include, but is not limited to the following:

1. Copy of company's comprehensive EEO/Affirmative Action Plan, with a cover page that includes the company name and address, and signature of the Chief Executive or EEO Officer.
2. Copy of document designating the company's corporate EEO Officer, including the name, address and contact telephone number for the officer, and signature of the Chief Executive or President, on company letterhead.
3. Copy of the company's EEO Policy Statement on company letterhead, dated and signed by the Chief Executive and the EEO Officer.
4. Copy of the company's Sexual Harassment Policy on company letterhead.
5. EEO Legend such as letterhead, envelope, or published advertisement showing the company is an equal opportunity employer.
6. Copy of document designating the company's SBE Liaison Officer to administer the firm's Small Business Program.
7. SBE Affirmative Action Plan which is an explanation of affirmative action methods intended to be used to seek out and consider SBEs as subcontractors, material suppliers or equipment lessors. This refers to the Contractor's ongoing responsibility, i.e., Small Business Enterprise/Affirmative Action activities after the award of the Contract and for the duration of the Contract.

**K. SBE Liaison Officer.** Designate a SBE Liaison Officer who shall be responsible for the administration of your SBE program in accordance with the Contract and ensuring that the Contractor complies with all provisions of the SBE Program.

**L. Consent by Department to Subletting.** The Department will not approve any subcontract proposed by the Contractor unless and until said Contractor has complied with the terms of the Contract.

**M. Conciliation.** In cases of alleged discrimination regarding these and all equal employment opportunity provisions and guidelines, investigations and conciliation will be undertaken by the DCR/AA.

## **N. Documentation**

- 1. Requiring of Information.** The Department or the State funding agencies may at any time require information as specified in Subsection 107.02 and deemed necessary in the judgment of the Department to ascertain the compliance of any Bidder, Contractor, or subcontractor with the terms of the Contract.
  - 2. Record and Reports.** The Contractor, subcontractors and other sub-recipients will keep such records as are necessary to determine compliance with its SBE obligations. These records kept will be designed to indicate:
    - a. The names of SBE contractors, subcontractors, transaction expeditors and material suppliers contacted for work on the Contract, including when and how contacted, and the specific Contract work items and other information provided to each.
    - b. Work, services, and materials which are not performed or supplied by the Contractor.
    - c. The actual dollar value of work subcontracted and awarded to SBEs, including specific Contract work items and cost of each work item.
    - d. The progress being made, and efforts taken in seeking out and utilizing SBEs to include: solicitations, specific Contract work items and the quotes and bids regarding those specific Contract work items, supplies, leases, or other contract items, etc.
    - e. Detailed written documentation of all correspondence, contacts, telephone calls, etc., including names and dates/times, to obtain the services of SBEs on the Contract.
    - f. Records of all SBEs and non-SBEs who have submitted quotes/bids to the Contractor on the Contract.
    - g. Monthly CR-267 – Monthly Report, Utilization of DBE/ESBE or SBE, and other reports required for submission to the Department, hiring agreements, subcontracts, lease agreements, equipment rental agreements, supply tickets, delivery slips, payment information, and other records documenting SBE utilization on the Contract.
    - h. Documentation outlining EEO workforce information for the Contract.
    - i. Documentation outlining EEO and Affirmative Action efforts made in the administration and performance of the Contract.
  - 3. Submission of Reports, Forms and Documentation.** Submit reports, forms, and documentation, as required by the Department, on those contracts and other business transactions executed with SBEs in such form and manner as may be prescribed by the Department. Failure to submit the required forms, reports or other documentation as required may result in payment being delayed or withheld as specified in Section 105, assessing sanctions, or termination of the contract as specified in Section 108. Submission of falsified forms, reports, or other required documentation may result in termination of the Contract as specified in Section 108, investigation by the Department's Inspector General, and prosecution by the State Attorney General's Office.
  - 4. Maintaining Records.** All records must be maintained for a period of three (3) years following acceptance of final payment and will be available for inspection by the Department, or the State funding agencies.
- O. Prompt Payment to Subcontractors.** Payment to subcontractors, equipment lessors, suppliers, and manufacturers is made in accordance with Section 109.
- P. Non-Compliance.** Failure by the Contractor to comply with the SBE program, rules, and regulations in the administration of the Contract may result in denial or limit of credit toward the Contract SBE goal, payment being delayed or withheld as specified in Section 105, assessing sanctions, liquidated damages as specified in Section 108, default as specified in Section 108, debarment, or termination of the Contract as specified in Section 108. The Contractor may further be declared ineligible for future Department contracts.

## STATE FUNDED PROJECT ATTACHMENT 2

### STATE OF NEW JERSEY EQUAL EMPLOYMENT OPPORTUNITY SPECIAL PROVISIONS FOR WHOLLY STATE FUNDED PROJECTS

- A. General.** It is the policy of the New Jersey Department of Transportation (hereafter "NJDOT") that its contracts should create a workforce that reflects the diversity of the State of New Jersey. Therefore, contractors engaged by the Department to perform under a construction contract shall put forth a good faith effort to engage in recruitment and employment practices that further the goal of fostering equal opportunities to minorities and women.

The Contractor must demonstrate to the Department's satisfaction that a good faith effort was made to ensure that minorities and women have been afforded equal opportunity to gain employment under the Department's contract with the Contractor. Payment may be withheld from a Contractor's contract for failure to comply with these provisions.

Evidence of a "good faith effort" includes, but is not limited to:

1. The Contractor shall recruit prospective employees through the New Jersey career connections website, managed by the Department of Labor and Workforce Development, available online at [http://careerconnections.nj.gov/careerconnections/for\\_businesses.shtml](http://careerconnections.nj.gov/careerconnections/for_businesses.shtml)
2. The Contractor shall keep detailed documented evidence of its efforts, including records of all individuals interviewed and hired, including the specific numbers of minorities and women;
3. The Contractor shall actively solicit and shall provide the Department with proof of solicitations for employment, including but not limited to advertisements in general circulation media, professional service publications and electronic media;
4. The Contractor shall provide evidence of efforts described at 2 above to the Department no less frequently than once every 12 months; and
5. The Contractor shall comply with the requirements set forth at N.J.A.C. 17:27-1.1 et seq.

The Contractor is required to implement and maintain a specific Affirmative Action Compliance Program of Equal Employment Opportunity in support of the New Jersey "Law Against Discrimination", N.J.S.A. 10:5-31 et seq., and according to the Affirmative Action Regulations set forth at N.J.A.C. 17:27-1.1 et seq.

The provisions of N.J.S.A. 10:2-1 through 10:2-4 and N.J.S.A. 10:5-31 et seq., as amended and supplemented) dealing with discrimination in employment on public contracts, and the rules and regulations promulgated pursuant thereunto, are hereby made a part of this contract and are binding upon the Contractor.

Noncompliance by the Contractor with the requirements of the Affirmative Action program for Equal Employment Opportunity may be cause for delaying or withholding monthly and final payments pending corrective and appropriate measures by the Contractor to the satisfaction of the Department.

The Contractor will cooperate with the State agencies in carrying out its Equal Employment Opportunity obligations and in their review of its activities under the contract.

The Contractor and all its subcontractors, not including material suppliers, holding subcontracts of \$2,500 or more, will comply with the following minimum specific requirement activities of Equal Opportunity and Affirmative Action set forth in these special provisions. The Contractor will include the following mandatory equal employment opportunity language in every subcontract of \$2,500 or more with such modification of language in the provisions of such contracts as is necessary to make them binding on the subcontractor.

During the performance of this Contract, the contractor agrees as follows:

1. The Contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality, or sex. The Contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment

and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, veteran's status, disability, nationality, or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

2. The Contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.
3. The Contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. The Contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer, pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.
5. When hiring or scheduling workers in each construction trade, the Contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the targeted employment goal prescribed by N.J.A.C. 17:27-7.2; provided, however, that the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program, may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, a, b, and c, as long as the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program is satisfied that the Contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the targeted employment goal established in accordance with N.J.A.C. 17:27-7.2. The Contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:
  - a. If the Contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the Contractor or subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the Contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as supplemented and amended from time to time and the Americans with Disabilities Act. If the Contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five business days prior to the commencement of construction work, the Contractor or sub-contractor agrees to afford equal employment opportunities minority and women workers directly, consistent with this chapter. If the Contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the Contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under (B) below; and the Contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.
  - b. If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of (a.) above, or if the Contractor does not have a referral agreement or arrangement with a union for a construction trade, the Contractor or subcontractor agrees to take the following actions:



- (1) To notify the public agency compliance officer, the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;
  - (2) To notify any minority and women workers who have been listed with it as awaiting available vacancies;
  - (3) Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the Contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;
  - (4) To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the Contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area;
  - (5) If it is necessary to lay off some of the workers in a given trade on the construction site, layoffs shall be conducted in compliance with the equal employment opportunity and non-discrimination standards set forth in this regulation, as well as with applicable Federal and State court decisions;
  - (6) To adhere to the following procedure when minority and women workers apply or are referred to the Contractor or subcontractor:
    - i. The Contractor or subcontractor shall interview the referred minority or women worker.
    - ii. If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the Contractor or subcontractor shall in good faith determine the qualifications of such individuals. The Contractor or subcontractor shall hire or schedule those individuals who satisfy appropriate qualification standards in conformity with the equal employment opportunity and non-discrimination principles set forth in this chapter. However, a Contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program. If necessary, the Contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (c) below.
    - iii. The name of any interested women or minority individual shall be maintained on a waiting list and shall be considered for employment as described in 6(i) above, whenever vacancies occur. At the request of the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program, the Contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.
    - iv. If, for any reason, said Contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the Contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain a copy of the determination in its files, and send a copy to the public agency compliance officer and to the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program.
  - (7) To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program and submitted promptly to the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program upon request.
- c. The Contractor or subcontractor agrees that nothing contained in (b.) above shall preclude the Contractor or subcontractor from complying with the union hiring hall or apprentice-ship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral,

or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the targeted county employment goal, the Contractor or subcontractor shall consider for employment persons referred pursuant to (b) above without regard to such agreement or arrangement; provided further, however, that the Contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the Contractor or subcontractor agrees that, in implementing the procedures of (b) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

The Contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and/or off-the-job programs for outreach and training of minorities and women.

The Contractor and its subcontractors shall furnish such reports or other documents to the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program as may be requested by the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq..

The Contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and off-the-job programs for outreach and training of minority and female trainees employed on the construction projects.

- B. Equal Employment Opportunity Policy.** The Contractor agrees that it will accept and implement during the performance of this contract as its operating policy the following statement which is designed to further the provision of Equal Employment Opportunity to all persons without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex and to promote the full realization of Equal Employment Opportunity through a positive continuing program:

“It is the policy of this company that it will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex and that it will take Affirmative Action to ensure that applicants are recruited and employed and that employees are treated during employment without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.”

- C. Equal Employment Opportunity Officer.** Designate and make known to the Department's contracting officers, an Equal Employment Opportunity Officer (hereafter “EEO Officer”) who will have the responsibility for and must be capable of effectively administering and promoting an active Equal Employment Opportunity program and be assigned adequate authority and responsibility to do so.

**D. Dissemination of Policy.**

- 1. Implementation.** All members of the Contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, will be made fully cognizant of, and will implement, the Contractor's Equal Employment Opportunity Policy and contractual responsibilities to provide Equal Employment Opportunity in each grade and classification of

employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

- a. **Initial Project Site Meeting.** Conduct an initial project site meeting with supervisory and personnel office employees before the start of work and then not less often than once every 6 months, at which time the Contractor's Equal Employment Opportunity Policy and its implementation will be reviewed and explained. The EEO Officer will conduct the meetings.
  - b. **EEO Obligations.** Give all new supervisory or personnel office employees a thorough indoctrination by the EEO Officer covering all major aspects of the Contractor's Equal Employment Opportunity obligations within 30 days following their reporting for duty with the Contractor.
  - c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the Contractor's procedures for locating and hiring minority and women workers.
2. Take the following actions in order to make the Contractor's Equal Employment Opportunity Policy known to all employees, prospective employees, and potential sources of employees, i.e., schools, employment agencies, labor unions (where appropriate), college placement officers, etc.
    - a. Place notices and posters setting forth in the Contractor's Equal Employment Opportunity policy, as set forth in Section 2 of these Equal Employment Opportunity Special Provisions in conspicuous places readily accessible to employees, applicants for employment and potential employees.
    - b. Bring the Contractor's Equal Employment Opportunity Policy and the procedures to implement such policy to the attention of employees by means of meetings, employee handbooks, or other appropriate channels.

#### **E. Recruitment**

1. In all solicitations and advertisements for employees placed by or on behalf of the Contractor, the Contractor will state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, veteran's status, disability, nationality, or sex. All such advertisements will be published in newspapers or other publications having a large circulation among minorities and women in the area from which the project workforce would normally be derived.
2. Unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority and women applicants, including, but not limited to state employment agencies, schools, colleges and minority and women organizations. Through their EEO Officer, identify sources of potential minority and women employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the Contractor for employment consideration.
3. In the event the Contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the Contractor's compliance with Equal Employment Opportunity contract provisions. (The US Department of Labor has held that where implementations of such agreements have the effect of discriminating against minorities or women, or obligates the Contractor to do the same; such implementation violates Executive Order 11246, as amended).
4. In the event that the process of referrals established by such a bargaining agreement fails to provide the Contractor with a sufficient number of minority and women referrals within the time period set forth in such an agreement, the Contractor shall comply with the provisions of "Section I Unions" of this "State Of New Jersey Equal Employment Opportunity Special Provisions for Wholly State Funded Projects" Attachment.

- F. Personnel Actions.** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to age, race, color, creed, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, veterans' status, disability, nationality, or sex. The following procedures shall be followed:

1. Conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
2. Periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
3. Periodically review selected personnel actions in-depth to determine whether there is evidence of discrimination. Where evidence is found, the Contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.
4. Promptly investigate all complaints of alleged discrimination made to the Contractor in connection with his/her obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the Contractor will inform every complainant of all of their avenues of appeal.

**G. Training and Promotions.**

1. Assist in locating, qualifying, and increasing the skills of minority group and women workers, and applicants for employment.
2. Consistent with the Contractor's workforce requirements and as permissible under State regulations, make full use of training programs, i.e., apprenticeship, and on-the-job training programs, for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.
3. Advise employees and applicants for employment of available training programs and entrance requirements for each.
4. Periodically review the training and promotion potential of minority group and women workers and encourage eligible employees to apply for such training and promotion.

**H. Unions.** If the Contractor relies in whole or in part upon unions as a source of employees, the Contractor will use their good faith efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and women workers. Actions by the Contractor either directly or through a Contractor's association acting, as agent will include the procedures set forth below:

1. The Contractor will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract of understanding, a notice advising the labor union or workers' representative of the Contractor's commitments under both the law against discrimination and this contract and shall post copies of the notice in conspicuous places readily accessible to employees and applicants for employment. Further, the notice will request assurance from the union or worker's representative that such union or worker's representative will cooperate with the Contractor in complying with the Contractor's Equal Employment Opportunity and Affirmative Action obligations.
2. The Contractor will use their best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.
3. The Contractor will use their best efforts to incorporate an Equal Employment Opportunity clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their age, race, color, creed, sex, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, or nationality.
4. The Contractor is to obtain information as to the referral practices and policies of the labor union except to the extent that such information is within the exclusive possession of the labor union and such labor unions refuse to furnish this information to the Contractor, certify to the Department and shall set forth what efforts have been made to obtain this information.
5. In the event the union is unable to provide the Contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the Contractor will, through independent recruitment efforts, fill the employment vacancies without regard to age, race, color, creed, sex, national origin, ancestry, marital status, affectional or sexual orientation,

gender identity or expression, disability, or nationality making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The US Department of Labor has held that it shall be no excuse that the union with which the Contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees). In the event the union referral practice prevents the Contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these Special Provisions, such Contractor shall immediately notify the Department.

- I. Subcontracting.** The Contractor will use his best efforts to solicit bids from and to utilize minority group and women subcontractors or subcontractors with meaningful minority group and women representation among their employees. Contractors may use lists of minority owned and women owned construction firms as issued by the NJDOT and/or the New Jersey Unified Certification Program (NJUCP).

Ensure subcontractor compliance with the Contract's Equal Employment Opportunity obligations.

**J. Records and Reports**

1. Keep such records as are necessary to determine compliance with the Contractor's Equal Employment Opportunity obligations. Records kept will be designed to indicate:
  - a. The work hours of minority and non-minority group members and women employed in each work classification on the project;
  - b. The progress and efforts being made in cooperation with unions to increase employment opportunities for minorities and women (applicable only to Contractors who rely in whole or in part on unions as a source of their workforce);
  - c. The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and women workers; and
  - d. The progress and efforts being made in securing the services of minority group and women subcontractors or subcontractors with meaningful minority and women representation among their employees.
2. All such records must be retained for a period of five (5) years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the NJDOT.
3. Submit monthly reports to the NJDOT after construction begins for the duration of the project, indicating the work hours of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on a form supplied by the NJDOT.

### STATE FUNDED PROJECT ATTACHMENT 3

#### REQUIREMENTS FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY ON WHOLLY STATE FUNDED PROJECTS

**A. Minority and Women Employment Goal Obligations.** The Department has established, pursuant to N.J.A.C. 17:27-7.2, the minority and women goals for each construction contractor and subcontractor based on availability statistics as reported by the New Jersey Department of Labor, Division of Planning and Research, in its report, "EEO Tabulation - Detailed Occupations by Race/Hispanic Groups." The goals for minority and women participation, in the covered area, expressed in percentage terms for the Contractor's aggregate work force in each trade, on all construction work are:

<b>Minority and Women Employment Goal Obligations for Construction Contractors and Subcontractors on Wholly State Funded Projects</b>		
County	Minority % Participation Percent	Women % Participation Percent
Atlantic	18	6.9
Bergen	22	6.9
Burlington	15	6.9
Camden	19	6.9
Cape May	5	6.9
Cumberland	27	6.9
Essex	53	6.9
Gloucester	9	6.9
Hudson	60	6.9
Hunterdon	3	6.9
Mercer	30	6.9
Middlesex	24	6.9
Monmouth	15	6.9
Morris	16	6.9
Ocean	7	6.9
Passaic	36	6.9
Salem	10	6.9
Somerset	20	6.9
Sussex	4	6.9
Union	45	6.9
Warren	5	6.9

The NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program has interpreted Section 7.2 of the State of New Jersey Affirmative Action Regulations as applicable to work hour goals for minority and women participation.

If a project is located in more than one county, the minority work hour goal will be determined by the county which serves as the primary source of hiring or, if workers are obtained equally from one or more counties, the single minority goal shall be the average of the individual goal for the affected counties.

The NJ State Department of Labor and Workforce Development, Construction EEO Monitoring Program may designate a regional goal for minority membership for a union that has regional jurisdiction. No regional goals shall apply to this project unless specifically designated elsewhere herein.

When hiring workers in the construction trade, the Contractor and/or subcontractor agree to attempt, in good faith, to employ minority and women workers in each construction trade, consistent with the applicable county or, in special cases, regional goals.

It is understood that the goals are not quotas. If the Contractor or subcontractor has attempted, in good faith, to satisfy the applicable goals, they will have complied with their obligations under these EEO Special Provisions. It is further understood that if the Contractor shall fail to attain the goals applicable to this project, it will be the Contractor's obligation to establish to the satisfaction of the Department that it has made a good faith effort to satisfy such goals. The Contractor or subcontractor agrees that a good faith effort to achieve the goals set forth in these special provisions shall include compliance with the following procedures:

- B. Requests for Referrals from Unions to Meet Contract Workforce Goals.** Requests shall be made by the Contractor or subcontractor to each union or collective bargaining unit with which the Contractor or subcontractor has a referral agreement or arrangement for the referral of minority and women workers to fill job openings. Requests shall also be made for assurances for the referral of minority and women workers to fill job openings. Requests shall also be made for assurances from such unions or collective bargaining units that they will cooperate with the Contractor or subcontractor in fulfilling the Affirmative Action obligations of the Contractor or subcontractor under this contract. Such requests shall be made prior to the commencement of construction under the contract.
1. The Contractor and its subcontractors shall comply with Section I, Unions of these EEO Special Provisions and, in particular, with Section I, Paragraph D, if the referral process established in any collective bargaining arrangement is failing to provide the Contractor or subcontractor with a sufficient number of minority and women referrals.
  2. The Contractor and its subcontractors shall notify the Department's Compliance Officer, the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program and at least one approved minority referral organization of the Contractor's or subcontractors work force needs and of the Contractor's or subcontractor's desire for assistance in attaining the goals set forth herein. The notifications should include a request for referral of minority and women workers.
  3. The Contractor and its subcontractors shall notify the Department's Compliance Officer and the NJ Department of Labor and Workforce Development, Construction EEO Monitoring Program in the event that a union or collective bargaining unit is not making sufficient minority and women referrals to enable the Contractor or subcontractor to attain the workforce goals for the Contract.
  4. The Contractor and its subcontractors shall make standing requests to all local construction unions, the State's training and employment service and other approved referral sources for additional referrals of minority and women workers until such time as the project workforce is consistent with the work hour goals for the Contract.
- C.** In the event that it is necessary to lay off some of the workers in a given trade on the construction site, the Contractor and its subcontractors shall ensure that fair layoff practices are followed regarding minority, women and other workers.
- D.** Comply with the other requirements of these EEO Special Provisions.
- E.** Reporting Requirements.
1. Directly provide the NJ Department of Labor and Workforce Development, Office of Diversity Compliance, Construction Contract Compliance Unit with workforce data for the Contract.
    - a. After notification of award, but prior to signing the Contract, submit to the Department and the Department of Labor and Workforce Development, Construction EEO Monitoring Program an AA-201 – Initial Project Workforce Report Construction form in accordance with

N.J.A.C. 17:27-7. Also, submit the information within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the Contract. This form is available online at the New Jersey Department of the Treasury's website at:

[https://www.nj.gov/treasury/contract\\_compliance/documents/pdf/forms/aa202.pdf](https://www.nj.gov/treasury/contract_compliance/documents/pdf/forms/aa202.pdf).

Instructions for completing the form can be found online at:  
[https://www.nj.gov/treasury/contract\\_compliance/documents/pdf/forms/aa201ins.pdf](https://www.nj.gov/treasury/contract_compliance/documents/pdf/forms/aa201ins.pdf).

- b. Monthly, complete and submit an AA 202 - Monthly Project Workforce Report – Construction form for the duration of the Contract. This form may be completed:
  - (1) Manually and mailed to the Department of Labor & Workforce Development, Construction & EEO Monitoring Program, P.O. Box 209, Trenton, NJ 08625-0209, or:
  - (2) Input electronically directly onto the AA-202 form via the Department of the Treasury's Premier Business Services Online Forms web application. Information about how to register and access the Premier Business Services web application can be found at: [https://www.nj.gov/treasury/contract\\_compliance/documents/pdf/PBS-Introduction-Page.pdf](https://www.nj.gov/treasury/contract_compliance/documents/pdf/PBS-Introduction-Page.pdf). Follow all instructions to set up online access to the web application.
  - (3) Submit a printed copy of the AA-202 form to the Department along with the hard copy of the CC-257R and confirmation e-mail of the successful submission of Monthly Employment Utilization Report.
2. Directly provide the Department with employment workforce data of the number and work hours of minority and non-minority group members and women employed in each work classification for the Contract. The Contractor, subcontractors, professional service firms and others working on the project must submit this information via a web-based application through the New Jersey portal, Vendor Workforce Reporting Manager. Instructions on how to complete Form CC-257R are provided within the web application. Instructions for registering and receiving the authentication code to access the web based application can be found at the Contractor Manpower Project Reporting CC-257R website at: <https://www.nj.gov/transportation/business/civilrights/pdf/CC257R.pdf>.
  - a. On a monthly basis, submit Form CC-257R through the web-based application within 10 days following the end of each reporting month.
  - b. In addition to the above, submit a hard copy of the electronic Form CC-257R to the RE within 10 days following the end of each reporting month.
  - c. Submit a copy of the confirmation e-mail of the successful submission of Monthly Employment Utilization Report to the RE within 10 days following the end of each reporting month.
3. All employment data must be accurate and consistent with certified payroll records. The Contractor is responsible for ensuring compliance with these reporting requirements. Failure of the Contractor, subcontractors, professional service firms and others working on the Contract to report monthly employment and wage data may result in payments being delayed or withheld as per 105.01, or impact the Contractor's prequalification rating with the Department.



## STATE FUNDED PROJECT ATTACHMENT 4

### INVESTIGATING, REPORTING AND RESOLVING EMPLOYMENT DISCRIMINATION AND SEXUAL HARASSMENT COMPLAINTS ON WHOLLY STATE FUNDED PROJECTS

The Contractor hereby agrees to the following requirements in order to implement fully the nondiscrimination provisions of the Supplemental Specifications:

The Contractor agrees that in instances when it receives from any person working on the project site a verbal or written complaint of employment discrimination, prohibited under N.J.S.A. 10:5-1 et seq. 10:2-1 et seq., 42 U.S.C. 2000 (d) et seq., 42 U.S.C. 2000(e) et seq. and Executive Order 11246, it shall take the following actions:

- A. Within one (1) working day commence an investigation of the complaint, which will include but not be limited to interviewing the complainant, the respondent, and all possible witnesses to the alleged act or acts of discrimination or sexual harassment.
- B. Prepare and keep for its use and file a detailed written investigation report which includes the following information:
  1. Investigatory activities and findings.
  2. Dates and parties involved and activities involved in resolving the complaint.
  3. Resolution and corrective action taken if discrimination or sexual harassment is found to have taken place.
  4. A signed copy of resolution of complaint by complainant and Contractor.

(In addition to keeping in its files the above-noted detailed written investigative report, the Contractor shall keep for possible future review by the Department, all other records, including, but not limited to, interview memos and statements.)

- C. Upon the request of the Department, provides to the Department within ten (10) calendar days a copy of its detailed written investigative report and all other records on the complaint investigation and resolution.
- D. Take appropriate disciplinary actions against any Contractor employee, official or agent who has committed acts of discrimination or sexual harassment against any Contractor employee or person working on the project. If the person committing the discrimination is a subcontractor employee, then the Contractor is required to attempt to effectuate corrective and/or disciplinary action by the subcontractor in order to establish compliance with the Contract.
- E. Take appropriate disciplinary action against any Contractor employee, official or agent who retaliates, coerces or intimidates any complainant and/or person who provides information or assistance to any investigation of complaints of discrimination or sexual harassment. If the person retaliating, coercing or intimidating a complainant or other person assisting in an investigation is a subcontractor's employee, then the Contractor is required to attempt to effectuate corrective and/or disciplinary action taken by the subcontractor in order to establish compliance with the Contract.
- F. Ensure to the maximum extent possible that the privacy interests of all persons who give confidential information in aid of the Contractor's employment discrimination investigation are protected.
- G. In conjunction with the above requirements, the Contractor herein agrees to develop and post a written sexual harassment policy for its workforce.
- H. The Contractor also agrees that its failure to comply with the above requirements may be cause for the Department to institute against the Contractor any and all enforcement proceedings and/or sanctions authorized by the Contract or by State and/or Federal law.

## STATE FUNDED PROJECT ATTACHMENT 5

### PAYROLL REQUIREMENTS FOR WHOLLY STATE FUNDED PROJECTS

- A. Payroll Reports.** Each Contractor and subcontractor shall furnish the RE with payroll reports for each week of contract work. Such reports shall be submitted within 10 days of the date of payment covered thereby and shall contain the following information:
1. Each employee's full name and address of each such employee.
  2. The ethnicity and gender of each employee.
  3. Each employee's specific work classification (s).
  4. Entries indicating each employee's basis hourly wage rate(s) and, where applicable, the overtime hourly wage rate(s). Any fringe benefits paid to approved plans, funds or programs on behalf of the employee must be indicated. Any fringe benefits paid to the employee in cash must be indicated.
  5. Each employee's daily and weekly hours worked in each classification, including actual overtime hours worked (not adjusted).
  6. Each employee's gross wage.
  7. The itemized deductions made.
  8. The net wages paid.
- B. Statement of Wages.** Each Contractor or subcontractor shall furnish a statement each week to the RE with respect to the wages paid each of its employees engaged in contract work covered by the New Jersey Prevailing Wage Act during the preceding weekly payroll period. The statement shall be executed by the Contractor or subcontractor or by an authorized officer or employee of the Contractor or subcontractors who supervises the payment of wages. Contractors and subcontractors must use the certification set forth on NJ Department of Labor Payroll Certification for Public Works Project (R-08-12-08), or any form with identical wording.
- C. Maintaining Records.** Contractor and subcontractor shall maintain complete social security numbers and home address for employees. Government agencies are entitled to request or review all relevant payroll information, including social security numbers and addresses of employees. Contractors and subcontractors are required to provide such information upon request.
- D. Lack of Compliance.** Failure of the Contractor or subcontractor to comply with the payroll requirements may result in payment being delayed or withheld as specified in Section 105, default as specified in Section 108 or termination of the Contract as specified in Section 108.

## STATE FUNDED PROJECT ATTACHMENT 6

### AMERICANS WITH DISABILITIES ACT REQUIREMENTS FOR WHOLLY STATE FUNDED PROJECTS

#### Equal Opportunity for Individuals with Disabilities.

The CONTRACTOR and the STATE do hereby agree that the provisions of Title II of the American With Disabilities Act of 1990 (the "ACT") (42 U.S.C. Section 12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs, and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereunto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the STATE pursuant to this contract, the CONTRACTOR, agrees that the performance shall be in strict compliance with the Act. In the event that the CONTRACTOR, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the CONTRACTOR shall defend the STATE in any action or administrative proceeding commenced pursuant to this Act. The CONTRACTOR shall indemnify, protect, and save harmless the STATE, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The CONTRACTOR shall, at its own expense, appear, defend, and pay any and all charges for legal services and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the STATE'S grievance procedure, the CONTRACTOR agrees to abide by any decision of the STATE which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the STATE or if the STATE incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the CONTRACTOR shall satisfy and discharge the same at its own expense.

The STATE shall, as soon as practicable after a claim has been made against it, give written notice thereof to the CONTRACTOR along with full and complete particulars of the claim. If any action or administrative proceeding is brought against the STATE or any of its agents, servants, and employees, the STATE shall expeditiously forward or have forwarded to the CONTRACTOR every demand, complaint, notice, summons, pleading, or other process received by the STATE or its representatives.

It is expressly agreed and understood that any approval by the STATE of the services provided by the CONTRACTOR pursuant to this contract will not relieve the CONTRACTOR of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the STATE pursuant to this paragraph.

It is further agreed and understood that the STATE assumes no obligation to indemnify or save harmless the CONTRACTOR, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the CONTRACTOR expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the CONTRACTOR'S obligations assumed in this Agreement, nor shall they be construed to relieve the CONTRACTOR from any liability, nor preclude the STATE from taking any other actions available to it under any other provisions of this Agreement or otherwise at law.

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