



MaineDOT

REQUEST FOR PROPOSALS

BOOK 1 – DESIGN-BUILD
LOW BID GENERAL CONDITIONS

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Book 1 – General Requirements

DIVISION 100 – DESIGN BUILD GENERAL CONDITIONS

100.1 Replacement of General Conditions of the Standard Specifications and Standard Details.

This version of the Maine Department of Transportation's General Conditions of the Standard Specifications and Standard Details for Highways and Bridges, was drafted and adopted by the Department pursuant to the authority granted by 23 MRSA §4244-A. These General Conditions replace and supersede the General Conditions of the Standard Specifications and Standard Details for Highways and Bridges, and pertain to the Department's Design-Build Projects, unless otherwise noted in the Project Requirements. References in these Design-Build General Conditions relating to the Standard Specifications also refers to Division 200 forward of the latest version of the Supplemental Specification (Repair Spec) which is located at <https://www.maine.gov/dot/doing-business/bid-opportunities/standards>

SECTION 101 - CONTRACT INTERPRETATION

Scope of Section. This Section consists of abbreviations, definitions, and general rules of interpretation.

101.1 Abbreviations. Abbreviations are defined in the following list. Abbreviations not defined in this Section or otherwise in the Contract shall have the meaning that is commonly accepted in the Engineering and construction industry.

AAN	American Association of Nurserymen, Incorporated
AAR	Association of American Railroads
AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
ADA	Americans with Disabilities Act
AGC	Associated General Contractors of America
AIA	American Institute of Architects
AISC	American Institute of Steel Construction
ANLA	American Nursery & Landscape Association
ANSI	American National Standards Institute
ARA	American Railway Association
AREMA	American Railway Engineering and Maintenance-of-way Association
ARTBA	American Road & Transportation Builders Association
ASCE	American Society of Civil Engineers
ASD	Allowable Stress Design
ASLA	American Society of Landscape Architects
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
ATC	Alternate Technical Concept
ATSSA	American Traffic Safety Services Association
AWWA	American Water Works Association
AWPA	American Wood Protection Association
AWS	American Welding Society
BMP	The Department's "Best Management Practices for Erosion and Sediment Control"
CFR	Code of Federal Regulations
CQMP	Construction Quality Management Plan
DBE	Disadvantaged Business Enterprise
DREW	Daily Reports of Extra Work
DRB	Dispute Review Board
DQMP	Design Quality Management Plan
EIA	Electronic Industries Association
EEO	Equal Employment Opportunity
EMS	Emergency Medical Service
FAA	Federal Aviation Administration
FERC	Federal Energy Regulatory Commission
FHWA	Federal Highway Administration

FRA	Federal Railroad Administration
FSS	Federal Specifications and Standards, General Services Administration
IES	Illuminating Engineering Society
IMSA	International Municipal Signal Association
IPCEA	Insulated Power Cable Engineers Association
ISEE	International Society of Explosives Engineers
ISO	Insurance Services Office
ITE	Institute of Transportation Engineers
LUPC	Land Use Planning Commission - Maine
MaineDOT	Maine Department of Transportation
MCTCB	Maine Concrete Technician Certification Board
MDEP	Maine Department of Environmental Protection
MDOT	Maine Department of Transportation
MIL	Military Specifications
MRSA	Maine Revised Statutes Annotated
MUTCD	Manual on Uniform Traffic Control Devices
NBS	National Bureau of Standards
NEC	National Electrical Code
NEMA	National Electrical Manufacturers Association
NEPCOAT	Northeast Protective Coating Committee
NESC	National Electric Safety Code
NETTCP	New England Transportation Technician Certification Program
NHS	National Highway System
NICET	National Institute for Certification in Engineering Technologies
NTCW	Notice to Commence Work
OJT	On-The-Job Training
OSHA	Occupational Safety and Health Administration
PCI	Precast/Prestressed Concrete Institute
PIN	Project Identification Numbers
Q&A	Questions & Answers
QA	Quality Assurance
QC	Quality Control
QCP	Quality Control Plan
QLA	Quality Level Analysis
QPL	Qualified Products List
RFI	Request for Information
RFC	Release for Construction
RFP	Request for Proposals for the Project
RFQ	Request for Qualifications for the Project
SAE	Society of Automotive Engineers
SEWPCP	Soil Erosion and Water Pollution Control Plan
SHA	State Highway Agency (as used by FHWA, meaning the Department)
SOI	Statement of Interest submitted in response to the RFSOI
SPCCP	Spill Prevention Control and Countermeasure Plan
SSPC	The Society for Protective Coatings
TAPPI	Technical Association of Pulp and Paper Industry

TCP	Traffic Control Plan
USC	United States Code
USDA	United States Department of Agriculture
UL	Underwriter's Laboratory
VECP	Value Engineering Change Proposal

101.2 Definitions.

Certain words, terms, and phrases are defined below. Capitalized words in these Design-Build General Conditions are defined under this Section. Words, terms, or phrases that are not defined in this Section 101.2 or otherwise in the Contract shall have the meaning commonly accepted in the engineering and construction industry.

Acceptable Work. Work that Conforms or Substantially Conforms to the Contract and is satisfactory to the Department.

Acceptance. Consideration of operations, inspections, samples, tests, certifications, proper CQMP implementation, and end product properties to determine whether the product will be accepted for payment, including any adjustment to compensation as provided in the Contract.

Acceptance Test. Test utilized by the Department to evaluate the quality of a Material or product.

Actual Costs. Direct, Project-specific, costs actually incurred by the Design-Builder in the performance of Work. Actual Costs consist of labor, Material, Equipment, and administrative overhead. For related provisions, see Subsections 109.5.2 - Basis of Payment and 109.5.3 - Non-compensable Items.

Addendum. See definition for Amendment.

Aggregate. Inert Material such as sand, gravel, broken stone, crushed stone, or a combination of any of these Materials.

Agreement. The document executed by the Department and the Design-Builder entitled “Design-Build Contract Agreement,” the form of which is included in the RFP, as well as all documents listed in said Design-Build Contract Agreement.

Alternate Technical Concepts. Concepts that deviate from the requirements set forth in the RFP and that have been included in the Proposal with the Department’s prior approval.

Amendment. A written change to the RFP issued by the Department after issuing the Final RFP and before contract award.

Apparent Successful Proposer. The Proposer that submits the Proposal that the Department determines is the lowest responsible, responsive bid in accordance with the procedures set forth in the RFP. The apparent successful Proposer will not be awarded the Contract if

- A. its Price Proposal is determined to be non-responsive in accordance with Subsection 103.3.1 - Price Proposal Responsiveness,
- B. the Proposer fails to comply with all applicable pre-award and pre-execution requirements of the RFP and/or Contract, or
- C. the Department chooses not to Award a Contract.

Application for Progress Payment. A Design-Builder's request for a progress payment using forms and media approved by the Department.

Award. The decision of the Department to accept a responsive Proposal from a responsible Proposer that provides the lowest bid to the Department for the Work identified in the RFP, subject to the Design-Builder's satisfaction of the specified Award Conditions.

Award Conditions. Pre-award or pre-execution requirements that the Design-Builder must meet before Contract Execution including bonding and insurance. For a related provision, see Section 103 – Evaluation of Proposals and Award and Execution of Contract.

Award Decision. All decisions and/or determinations by the Department that impact to whom the Contract will be awarded including determination of Technical Proposal responsiveness and determination of Price Proposal responsiveness, determination of the Apparent Successful Proposer, all other responsiveness issues, and all protest decisions.

Basic Configuration. The salient characteristics of the Project as defined and/or illustrated in the RFP, including any permitted deviations thereto contained in the Design-Builder's Proposal. Basic Configuration elements may include the following:

- A. Horizontal and vertical alignments for the Highway
- B. Number of intersections/overpasses/underpasses
- C. Number of travel lanes
- D. Minimum vertical clearances
- E. Number, location, and types of interchanges
- F. Number and location of turning lanes
- G. Approximate Project limits
- H. Right-of-Way limits
- I. Lane and Shoulder Widths

Any changes in the Basic Configuration may be implemented only with the Department's prior written approval. For related provisions, see Section 102.4 – Alternative Technical Concepts and Subsection 109.1.4 – Basic Configuration Changes.

Bid. See definition for Proposal.

Bidder. See definition for Proposer.

Bid Escrow Documentation. See definition for Escrowed Proposal Documents

Bid Guaranty. See definition for Proposal Guaranty Package.

Blue Book. The edition of publications entitled “Rental Rate Blue Book for Construction Equipment” or “Rental Rate Blue Book for Older Construction Equipment” as applicable, published by Primedia Information Inc. that was current when the Work being priced was performed.

Bridge. A structure that is erected over a depression or an obstruction, such as water, a Highway or a railway, and has an opening measured along the centerline of the Roadway of more than 20 feet between: the faces of abutments; spring line of arches; extreme ends of openings of box culverts, pipes or pipe arches; or the extreme ends of openings for multiple box culverts, pipes, or pipe arches.

- A. Length. The length of a Bridge structure is the overall length measured along the construction centerline back to back of backwalls of abutments, if present; otherwise end to end of the Bridge floor; but in no case less than the total clear opening of the structure.
- B. Roadway Width. The width measured at right angles to the longitudinal centerline of the Bridge between the bottom of curbs or guard timbers or in case of multiple heights of curbs, between the bottoms of the lower risers.

Business Day. Every Calendar Day less Saturdays, Sundays, and Holidays.

Calendar Day. Every day shown on the calendar, beginning at 12:01 a.m. and ending at midnight.

Change Order. See definition for Contract Modification.

Closeout Documentation. Documents required of the Design-Builder by the Department for final Acceptance of the Project. These documents are: Letter “All Bills Paid”, Request for Final Payment, “Buy America” Statement, Certificate of Materials, DBE Goal Attainment Verification Form, Testing Compliance Letter, and as-built Drawings stamped by the Design-Builder’s Engineer. The Department reserves the right to add to this list of required closeout documentation. (For example, Maintenance Bonds on all 621 items or Design-Builder performance evaluation) For a related provision, see Subsection 107.8.4 – Closeout Documentation.

Commissioner. The Commissioner of Transportation established by 23 MRSA §4205.

Compensable Delay. See Subsection 109.3.1 – Definitions - Types of Delays.

Completion. Completion occurs when the Design-Builder has finished all Work pursuant to the Contract, including Delivery of all conforming Closeout Documentation. Completion does not mean Substantial Completion. Unless the context indicates otherwise, Completion also does not mean Completion of Physical Work.

Completion of Physical Work. Completion of Physical Work occurs when the Work has been substantially completed and has undergone a successful final inspection.

Conduit. A pipe used for receiving and protecting wires or cable.

Conform or Conformity. Conform or Conformity means in accordance with the Plans, Specifications, or other Contract requirements, as initially and reasonably determined by the Design-Builder, and ultimately as determined by the Department. For a related definition, see Substantially Conform.

Construction Easement. A right acquired for a specific use of private property outside of the established Right-of-Way. Examples include but are not limited to Drainage Easements, Construction and Maintenance Easements, and Slope Easements. Construction Easement areas, including Temporary Construction Limits and Temporary Road Limits, outside of the Right-of-Way remain private property. No use other than to access and perform the specified work activity is permitted without written permission of the owner.

Contract. The entire agreement affecting the rights and responsibilities of the Department and the Design-Builder, as evidenced by the Contract Documents.

Contract Bonds. The forms of security approved by the Department, executed by the Design-Builder and its Surety or Sureties, guaranteeing performance of the Work, and the payment of all obligations pertaining to the Work. For related provisions, see the definitions of Proposal Guaranty, Performance Bond, and Payment Bond.

Contract Completion Date. The required completion date of all Work pursuant to the Contract, except the landscape establishment period and warranty work, as established by the Agreement and as set forth in the Proposer's project schedule.

Contract Completion Time. Length of time allowed under the Contract to complete the Work pursuant to the terms of the Contract.

Contract Documents. The documents forming the Contract, as listed in the Agreement.

Contract Execution. Execution of the Contract by the Commissioner or his/her authorized agent by signing the Agreement, which action, upon written notification to the Design-Builder, forms a Contract as provided in Subsection 103.4.3 - Execution of Contract by Department.

Contract Modification. A general term describing a formal change to a Contract. Types of Contract Modifications include; change orders, extra work orders, resident work orders, and supplemental agreements. For a related provision, see Section 109.6 – Contract Modification.

Contract Representative. The person designated in the RFP to be the Department’s single point of contact with the Design-Builder from issuance of the RFP through execution of the Contract.

Contract Time. See definition for Contract Completion Time and Section 107 - Time.

Contracting Entity. Unless the context clearly indicates otherwise, “Contracting Entity” means “Design-Builder”.

Contractor. See the definition for Design-Builder.

Critical Path. The sequence of activities from the Project start to the Completion having the greatest cumulative elapsed time, thereby determining the minimum time duration of the entire Project. The Critical Path is identified by the sequence of those activities with the least float.

Critical Rock Slopes. Critical rock slopes shall be rock slopes higher than 6 feet with an overburden slope steeper than 3H:1V and all rock slopes greater than 10 feet high.

Culvert. Any structure not defined as a Large Culvert, Bridge, or Minor Span that provides a Drainage opening less than 5 feet, under the Roadway or approaches to the Roadway.

Days. Business Days.

Default. See Section 112.1 - Default.

Defects or Defective Work. Work that is unsatisfactory, faulty, or deficient in that it is not in Conformity with the Contract or with prevailing industry standards applicable to the Work at the time of submission of the Proposal as determined by the Department or its agents. For related provisions, see the definition of Acceptable Work and Subsection 101.3.1 – Meaning of “Approved,” Etc.

Deliver. To cause Receipt by a means set forth in the definition of Received or Receipt.

Department. The Department of Transportation of the State of Maine, as established by 23 MRSA §4205 et seq. for the administration of Highway, Bridge, and other public Works; acting through the Commissioner and his/her duly authorized representatives. For related provisions, see definitions of Department Project Manager and Resident.

Department Project Manager. The Department’s duly authorized representative for overall coordination of the Project from preliminary design to Final Acceptance.

Design Checker. The designer performing quality control of the design, being either an employee of the Designer or an independent design firm other than the Design-Builder.

Design Documents. Design-Builder produced drawings, specifications, calculations, records, reports or other documents, including shop drawings and special process procedures, which may be used for design, manufacture fabrication, installation, construction, testing, examination, and certification of items.

Design-Build Contract. A contract in which the Design-Builder is responsible for both design and construction requirements under the Contract, which is procured through a Low-Bid Procurement process as outlined in 23 MRSA § 4244.

Design-Builder. The legal entity that will be executing the Contract and that will be a single point of responsibility for all obligations under the Contract. The Design-Builder shall be independent with respect to the Department and shall not be an employee, agent, or representative of the Department. Design-Builder is also used synonymously with the term “Contractor,” in the Federal forms of Appendix A to the Design-Build General Conditions, and wherever necessary in this RFP.

Design-Builder’s Early Completion Date. A completion date earlier than the Contract Completion Date proposed by the Design-Builder in its initial Schedule of Work submitted with its Proposal. For related provisions, see Subsection 109.3.3 – Early Completion Date Delay Claims.

Design Manager. Engineer of Record who is a Maine Licensed Professional Engineer responsible for all aspects of the design including Quality of the end product. The Design Manager’s duties shall include, as a minimum, oversight, assessment and evaluation of the following:

- A. Design reports;
- B. Site investigations and reports;
- C. Analytical approach;
- D. Basis of Design Documents;
- E. Drawings and Specifications for conformity with the Contract Documents, and for compliance with codes, permits, and regulations;
- F. Coordination of the different Release for Construction Packages;
- G. Coordination of design compliance with the findings of constructability reviews;
- H. DQMP compliance;
- I. Field design changes; and
- J. As-built plans for conformity with final design and Contract Documents.

Designer. The entity responsible for design and related work for the Project, either through subcontract to the Design-Builder or otherwise.

Detailed Schedule of Prices. A list of contract work items with unit prices provided in a form that may be included as an Appendix to the RFP on which each Proposer lists all quantities and unit prices used to calculate its Price.

Differing Site Conditions. See Section 109.2 - Differing Site Conditions.

Dispute. Disagreements, claims, counterclaims, matters in question, and differences of opinion between the Department and the Design-Builder and those Working for or through the Design-Builder regarding matters related to the Work that arise after Contract Execution. These include interpretation of the Contract, compensation and costs, time for performance, and quality.

Dispute Review Board. A panel of three experienced persons that the parties may agree to use to make recommendations regarding the resolution of Disputes. For a related provision, see Section 111.4 - Dispute Review Board.

Drainage. The system of pipes, drainage ways, ditches, and Structures by which surface or subsurface waters are collected and conducted from the Highway area.

Drawings. See definition for Plans.

Dredge Material (Dredge Spoils). Sand, silt, mud, gravel, rock or other sediment or material removed from beneath any surface water. The term “beneath any surface water” has been interpreted by the MDEP to mean that area that falls beneath the plane bounded by the normal high water line of any stream, river, brook, pond, lake, vernal pool etc. Note that the entire area of Dredge Material removal could be dry at the time of excavation.

Engineer. Unless otherwise indicated in this Contract, a Maine Licensed Professional Engineer who is an employee of the Design-Builder, or a Subcontractor, with the responsibility and authority to require that the Work be performed in Conformity with the Contract.

Engineer of Record. See Design Manager.

Environmental Information. Hazardous waste assessments, Dredge Material test results, boring logs, geophysical studies, and other records and reports of the environmental conditions. For a related provision, see Subsection 104.3.14 – Interpretation and Interpolation.

Equipment. All machinery, supplies for repair and maintenance of such machinery, tools, and other apparatus necessary or appropriate for Completion of the Work in Conformity with the Contract.

Equitable Adjustment. An adjustment to compensation due to a change in the nature or scope of the Work made part of the Contract by formal Contract Modification. For a related provision, see Section 109.5 - Equitable Adjustments to Compensation.

Escrowed Proposal Documents. All writings, working papers, computer printouts, charts, schedules of prices, and data compilations that contain or reflect information, quantities, unit costs, data, or calculations used by the Proposer to determine the Technical and Price Proposal shall be submitted, including but not limited to material relating to design as well as construction work, relating to the determination and application of:

A. Design costs

- B. Equipment rates
- C. Overhead rates and related time schedules
- D. Labor rates
- E. Arithmetic extensions
- F. Subcontractors and Material supplier quotations

Any manuals standard to the industry used by the Proposer in determining the Price Proposal are also considered part of the Escrowed Proposal Documentation. These manuals shall be included in the Escrowed Proposal Documentation by reference and shall show the name and date of the publication and the publisher. Escrowed Proposal Documentation need not include documents provided by the Department for the Proposer's use in the preparation of the Proposal.

Excusable Delay. See Subsection 109.3.1 – Definitions - Types of Delays.

Extra Work. Work that is outside the scope of the Contract and that the Department determines is necessary.

Extra Work Order. See Contract Modification.

Fabrication Engineer. The Department's representative responsible for Quality Assurance of pre-fabricated products that are produced off-site.

Federal Contract Provisions Supplement. Appendix A to the Design-Build General Conditions, which set forth additional provisions that apply to federally funded Contracts.

Final Acceptance. The Department's Acceptance of all Work and responsibility for the Project from the Design-Builder, except for any Design-Builder warranty obligations.

Force Account Work. Prescribed Work paid on the basis of Actual Costs and additives as set forth in Subsection 109.5.4 – Force Account Work.

Geometrics. The physical location (horizontally and vertically) and shape of the object under consideration.

Geotechnical Information. Boring logs, soil reports, geotechnical design reports, ground penetrating radar evaluations, seismic refraction studies, and other records of subsurface conditions. For a related provision, see Subsection 104.3.14 - Interpretation and Interpolation.

Haul Road. A private way leading to a public way that is used by the Design-Builder to move Equipment and Materials related to the Work.

Hearing. Unless otherwise specified by the Department in writing, a Hearing is a review of a decision that includes a review of existing documentation on file with the Department and any additional documentation, including written arguments and supporting exhibits that may be

submitted by any interested party. Unless the context clearly indicates otherwise, a Hearing need not include an evidentiary Hearing for the oral presentation of evidence if such an evidentiary Hearing is not requested or if the Department reasonably determines that such an evidentiary Hearing is not necessary to review the matter at issue adequately. Unless the context clearly indicates otherwise, a Hearing shall not be construed as an adjudicatory proceeding within the meaning of the Maine Administrative Procedure Act.

Highway. A general term denoting a public way for purposes of vehicular travel, including the entire area within the Right-of-Way.

Holidays. New Year's Day, Martin Luther King Day, President's Day, Patriot's Day, Memorial Day, Juneteenth, Independence Day, Labor Day, Indigenous Peoples Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. For a related provision, see Subsection 107.3.3 - Sundays and Holidays.

Incentive/Disincentive Payment. An adjustment to the Contract Price of a predetermined amount for each Calendar Day the Work is completed ahead of or behind the Contract Completion Time, Contract Completion Date or some specified intermediary milestone. A disincentive is not a penalty, but an estimate of user and other costs incurred by the people of the State of Maine.

Incidental. The terms "Incidentals" and "Incidental to the Contract" mean cost items that are accessory to or incorporated in the Work. The cost of incidentals shall be included in the Design-Builder's Lump Sum Price; there will be no separate or individual payment for incidentals.

Incomplete. Not complete, as defined above by Completion.

Independent Assurance Inspection (IAI). Unbiased and independent evaluations of all sampling and testing (or inspection) procedures used in a Quality Assurance Program. IA provides an independent verification of the reliability of the Acceptance data obtained by the Department and the data obtained by the Design-Builder. The results of IA testing or inspection are not to be used as a basis of Acceptance.

Independent Assurance Testing (IAT). A test conducted to check the calibration of the testing equipment and processes being used.

Independent Verification (IV). A program of planned policies, procedures, and systematic actions including inspection, sampling and testing, and audits of the QC and Acceptance programs. Unless otherwise noted, these activities are to be performed by the Department.

Inexcusable Delay. See Subsection 109.3.1 - Definitions - Types of Delays.

Inspector. An authorized representative of the Design-Builder assigned to:

- A. make detailed inspections of the Work,
- B. make initial determinations regarding the Conformity of the Work, and

- C. require the Design-Builder to correct Work not in Conformity. For related provisions, see the definition of Conformity and Subsection 106.2.4.6 – Acceptance for QC Inspector Qualifications.

In Stream Work. Any Work activity(ies) conducted in the water (see Permits in individual contract documents).

Joint Venture. A legal association of two or more firms to carry out a single, for-profit business enterprise, for which the parties combine their property, capital, efforts, skills and knowledge, and is responsible for a distinct, clearly defined portion of the Work of the Contract and whose share in the capital contribution, control, management, risk, and profits of the joint venture are commensurate with its ownership interest.

Landscape Establishment Period. The period of time commencing at initial Acceptance of each planting and extending for two years, unless otherwise provided in the Contract. For a related provision, see Section 621 – Landscaping of the Standard Specifications.

Landscape Establishment Period Obligations. The obligations of the Design-Builder with regard to landscaping during the Landscape Establishment Period. Unless otherwise provided in the Contract, these obligations consist of monthly inspection and reporting from March through November of the condition of all plants installed and replacing plants that are not in a healthy, vigorous growing condition. For a related provision, see Section 621 – Landscaping of the Standard Specifications.

Lane. A strip of Roadway intended to accommodate a single line of vehicles.

Large Culvert. Any structure not defined as a Culvert or Bridge that provides a Drainage or non-drainage opening under the Roadway or Approaches to the Roadway, with an opening that is at least 5 feet but less than 10 feet.

Letter of Intent to Award. A written notice to the selected Proposer stating that the Proposal has been conditionally accepted by the Department and is instructing the Apparent Successful Proposer to perform all pre-award requirements and execute the Agreement. For a related provision, see Section 103 – Evaluation of Proposals, and Award and Execution of the Contract.

Liquidated Damages. An amount due and payable to the Department by the Design-Builder, normally accomplished by a reduction of amounts to be paid to the Design-Builder under the Contract. Liquidated Damages are calculated by multiplying a daily amount set forth in the Contract by the number of Calendar Days the Work remains Incomplete after the Contract Completion Date. By submitting a Proposal, the Design-Builder acknowledges that such an amount is not a penalty and that the daily amount set forth in the Contract is a reasonable per diem forecast of damages incurred by the Department due to the Design-Builder’s failure to complete on time.

Lump Sum Price. The price contained in the Price Proposal Form, being a single lump sum price for Completion of all Work described in the Contract in conformity with the Contract.

Major Participant. Major Participant means:

- A. The Design-Builder and any Related Entities/Affiliated Companies;
- B. The Builder and all Related Entities/Affiliated Companies;
- C. The Designer and all Related Entities/Affiliated Companies;
- D. Any firm providing more than the percentage specified in the RFSOI of the value of the on-site construction work and all Related Entities/Affiliated Companies; or
- E. Any firm providing more than the percentage specified in the RFSOI of the value of the design work and all Related Entities/Affiliated Companies.

Material. Any substance specified for use in the construction of the Project and related approaches.

Modification. See Contract Modification.

National Highway System (NHS). A system of Interstate Highways and major collectors specifically designated by the Federal Highway Administration. It includes the Interstate System, other urban and rural principal arterials, highways that provide motor vehicle access between the NHS and major intermodal transportation facilities, the defense strategic highway network, and strategic highway network connectors.

Necessary Basic Configuration Change. Any change in the Basic Configuration that is necessary to correct an error, omission, inconsistency or other defect in the Basic Configuration (with the understanding that a change shall be deemed “necessary” only if the error, omission, inconsistency or other defect creates a conflict with other Contract requirements or another problem that cannot be corrected without a material change in the Basic Configuration). For a related provision, see Subsection 109.1.2.4 – Basic Configuration Changes.

Non-conforming Work. All Defective, Unauthorized, or Uninspected Work.

Non-Resident Proposer. A Proposer that is:

- A. any person who is not a resident of the State of Maine, or
- B. any firm, corporation, limited liability company, partnership, joint venture, sole proprietorship, or other entity which:
 - 1. is not licensed to do business within the State of Maine, or
 - 2. does not have a principal place of business within the State of Maine.

Notice of Award. A written notice to the Design-Builder stating that the Contract has been executed.

Notice to Commence Work (NTCW). Written notice to the Design-Builder to proceed with the Work including, when applicable, the date of beginning of the Contract Completion Time. Unless specified elsewhere by authorized Departmental officials in writing, the execution of the General Requirements

Contract by the Department will constitute a Notice to Commence Work. For related provisions, see Section 107 – Time.

Offer. A response to a solicitation that, if accepted, would bind the offeror to perform the resultant contract. Submission of a Proposal constitutes an Offer by the Proposer.

Order. A directive from the Department requiring compliance by the Design-Builder.

Owner. The legal or record owner of the building or premises on which the Project is to be constructed, generally the State of Maine acting by and through the Department.

Partnering. See Subsection 104.4.1 - Partnering.

Pavement Structure. The combination of subbase, base course, and surface course placed on a subgrade to support the traffic load and distribute it to the roadbed.

- A. Base Course. One or more layers of specified Material thickness placed on a subbase or a subgrade to support a surface course.
- B. Subbase. Layers of specified Material thickness placed on a subgrade to support a base course.
- C. Surface Course. Layer(s) of a Pavement Structure designed to accommodate the traffic load. The top layer is sometimes called the “Wearing Course.”

Payment Bond. The security furnished by the Design-Builder and its Surety to guarantee payment of all obligations incurred by the Design-Builder related to the Contract. For a related provision, see Subsection 110.2.1 - Bonds.

Performance Bond. The security furnished by the Design-Builder and its Surety to guarantee performance of the Work in Conformity with the Contract. For a related provision, see Subsection 110.2.1 - Bonds.

Permits. Permits granted to the Department for the Project. Permits often required include (a) environmental Permits, including Natural Resources Protection Act (NRPA) Permits from MDEP and the Army Corps of Engineers and (b) a U.S. Coast Guard Permit.

Physical Work. All Work specified in the Contract that affects the physical environment including all Work within the Project Limits, final cleaning up and finishing, and Completion of Punch List Items as provided in Section 107.8 – Project Closeout, and removal of traffic control devices.

Plans. When the context so indicates, “Plans” mean applicable construction drawings including plan, profile, typical cross sections, Working Drawings, and supplemental Drawings or exact reproductions thereof or electronically displayed equivalents that show the location, character, dimensions, and details of the Work. Where the context so indicates, “Plan” may also mean a detailed process, program, or method worked out beforehand for the accomplishment of

an objective. Examples include QCP, the SEWPCP, the TCP, Safety Plan and Project specific emergency planning.

Premises. Land of the Owner on which the building(s) or railroad now stand or to which they are to be moved.

Price. Unless the context clearly indicates otherwise, “Price” means “Lump Sum Price”.

Price Proposal. The component of the Proposal that includes pricing information, specifically the Price Proposal Form and other submissions required by Section 102 – Proposal Submission and Content Requirements.

Price Proposal Form. The form included in the Appendices to be completed (including a Lump Sum Price) and signed by the Proposer.

Process Control Test. Test performed at the source of supply of Material to determine whether the Material meets the Specification prior to Delivery.

Profile Grade. The trace of a vertical plane intersecting the top of the wearing surface, usually along the longitudinal centerline of the roadbed. Profile Grade means either elevation or gradient of such trace according to the context.

Program. The specific working unit within the Department’s Bureau of Project Development and Maintenance & Operations within which a particular Department project is developed, designed, constructed and administered. Such Programs include the Highway Program, Bridge Program, Multimodal Program and other similar Units.

Program Manager. Individual responsible for any one of the four Programs.

Progress Meeting. See Subsection 104.4.4 - Progress Meetings.

Project. The bridge, highway, railroad, pier, airport, building, bike trail, pedestrian trail, ferry vessel, or other infrastructure improvement being constructed, rehabilitated, or repaired, including all professional services, labor, equipment, materials, tools, supplies, warranties, and Incidentals needed for a complete and functioning product.

Project Limits. Areas within the Right-of-Way, Construction Easements, or Temporary Construction Limits shown on the Plans or otherwise indicated in the Contract. If no Project Limits are indicated in the Contract, the Project Limits shall be determined by the Design-Builder. The limits shall encompass one continuous boundary containing an entire Project Site. These limits include but are not necessarily limited to: Temporary Construction Limits as specified in the Project Requirements and proposed by the Proposer in their Proposal, utility relocation, and erosion control measures.

Project Manager. Unless otherwise stated, “Project Manager” means the person designated by the Design-Builder as Project Manager (or an analogous title) in its Statement of Qualifications, or a replacement approved by the Department.

Project Records. Records or data of any type on any media including those produced by the Design-Builder or its consultants, Subcontractors, suppliers, or manufacturers that are related to the Project. Project Records include, but are not limited to:

- A. Plans,
- B. Working Drawings,
- C. Specifications,
- D. design notes and computations,
- E. manufacturer's recommendations,
- F. catalog cuts,
- G. daily time reports,
- H. records of Force Account Work,
- I. schedules and schedule updates or revisions,
- J. quality control Plans and related documentation,
- K. inspectors' reports,
- L. traffic control Plans and log,
- M. safety program and incident reports,
- N. soil erosion and water pollution control Plans and log,
- O. employment records,
- P. payrolls,
- Q. internal accounting records,
- R. equal opportunity and affirmative action records,
- S. on-the-job and Disadvantaged Business Enterprise reports
- T. preconstruction conference records,
- U. as-built records,
- V. Progress Meeting records,
- W. Partnering records,

- X. correspondence,
- Y. e-mails, and
- Z. any other documents related to the Work.

Project Requirements. Specifications, provisions, and all other information related to a specific project included as Part 2 of the RFP.

Project Site. A geographical subset of the Project as defined in the Project Requirements.

Proposal. The offer by a Proposer to perform the Work submitted in response to the RFP. In order to be responsive, the Proposal must meet all requirements in the RFP and must offer to perform the Work in accordance with the Contract, the Proposer's SOI, and the Proposer's Technical Proposal, for the price submitted in the Proposer's Price Proposal. The Proposal consists of two major components and related certifications, bonds, and documentation, to be submitted separately, but simultaneously; the Technical Proposal and the Price Proposal.

Proposal Due Date. The calendar date specified in the Project Requirements on which each Proposer must submit its Proposal to the Department.

Proposal Guaranty Package. A bond or other acceptable security specified in the Project Requirements or elsewhere in the RFP that is forfeited if the Apparent Successful Proposer refuses to enter into a Contract with the Department. For a related provision, see Section 102.3.2.3 – Proposal Guaranty Package.

Proposer. An individual, firm, corporation, limited liability company, partnership, joint venture, sole proprietorship or other entity that was shortlisted by the Department and that intends to submit a Proposal for the Work. After execution of the Contract, the Proposer is known as the "Design-Builder". Proposer is also used synonymously with the term, "Bidder," in the Federal forms of Appendix A to the Design-Build General Conditions, and wherever necessary in this RFP.

Punch List. See Subsections 107.8.2 - Notice/Inspection/Punch List and 107.8.3 - Notices/Final Inspections/Physical Work Completion.

Qualification (Personnel). The characteristics or abilities gained through training or experience or both, as measured against established written and performance tests, that qualify an individual to perform a required function.

Quality. Those features that the Department determines are most important to the project. Quality criteria shall include, but may not be limited to, quality of design, constructability, long-term maintenance costs, aesthetics, local impacts, traveler and other user costs, service life, time to construct, and other factors that the Department considers to be in the best interest of the State.

Quality Assurance (QA). A program of planned policies, procedures, detailed responsibilities and systematic actions including inspection, testing and audits of the QC program necessary to provide adequate confidence that the QC, results, and the Project meet the Contract requirements.

Quality Control (QC). The acts of examining, witnessing, inspecting, checking, and testing of in-process or completed work (including design) and installation activities, to determine Conformity with specified requirements and Acceptance of construction. Unless otherwise noted, these activities are to be preformed by the Design-Builder.

Quality Control Plan (QCP). The program and documentation of that program, approved by the Department, which specifies the actions, inspection, sampling, and testing necessary to keep production and placement operations within Specifications, including provisions to quickly determine when an operation becomes out of control and those actions that the Design-Builder will take to restore compliance.

Receipted Bill. Written Evidence provided by the Contractor that the cost of materials has actually been paid by the Contractor. This could take the form of a copy of a cancelled check, a copy of an invoice with written verification from the Subcontractor that the bill has been paid, or a written declaration from the Subcontractor, on its letterhead, that the bill has been paid.

Received or Receipt. When considering documents, unless the context indicates otherwise, Receipt by regular US mail, overnight courier, service in hand, or by fax or electronic transmission with confirmation of receipt originating from the recipient (which may be a telephone confirmation). If delivered by regular US mail, notices that are properly addressed will be deemed Received three (3) Calendar Days after mailing, unless the recipient admits earlier Receipt, in which case Receipt will be the date admitted.

Reference Documents. Supplementary information provided with the RFP, or by reference therein, intended to assist Proposers with the development of Proposals.

Reference Stake. A stake set beyond the proposed grading areas for use as control for the new construction.

Related Entities. All general partners, joint venturers, parent firms, subsidiaries, or sister firms that are owned or controlled by the Design-Builder or other entity under consideration.

Released for Construction Documents. Those documents certified to have met all requirements for design quality management and construction and have been stamped and sealed “Released for Construction” by the Engineer.

Request for Proposal (RFP). The Department’s solicitation in a Low-Bid Procurement Process for Proposals, such as when soliciting for an anticipated Design-Build Contract, and all other documents issued by the Department and identified as part of the RFP. See definitions for Proposal and Low-Bid Procurement Process.

Request for Statement of Interest (RFSOI). Document issued by the Department as a solicitation for the qualifications of interested Design-Build teams. Based solely upon the responses it receives to the RFSOI, the Department will short-list a select number of Design-Build teams to submit a Proposal for the referenced Project. Only Design-Build teams selected by the Department during the short-listing process are eligible to submit a Proposal.

Resident. The Department's on-site representative.

Resident Work Order. See Contract Modification.

Responsible Proposer. A Proposer whose reputation, past performance, and business and financial capabilities are such that the Proposer would be judged by an appropriate authority as capable of satisfying an organization's need for a specific contract. In the phrase "lowest responsible Proposer", responsible means that such Proposer has the requisite skill, judgment, and integrity necessary to perform the Contract involved and has the financial resources and ability to carry the task to Completion.

RFP Plans. The plans provided by the Department as listed in RFP Appendices.

Right-of-Way. The area of land, property, or interest therein, acquired for or devoted to the Project or other purposes. Portions of the Right-of-Way may be used for storage of materials and equipment and the location of engineering facilities, subject to written approval by the Department.

Road. A general term denoting a public way for purposes of vehicular travel, including the entire area within the Right-of-Way.

Roadbed. The graded portion of a Highway within top and side slopes, prepared as a foundation for the Pavement Structure and Shoulders.

Roadside. A general term denoting the area adjoining the outer edge of the Roadway. Extensive areas between the Roadways of a divided Highway may also be considered Roadside.

Roadside Development. Those items necessary to complete the Highway that provide for the preservation of landscape Materials and features; the rehabilitation and protection against erosion of all areas disturbed by construction through seeding, sodding, mulching, and the placing of other ground covers; and such suitable planting and other improvements that increase the effectiveness and/or enhance the appearance of the Highway.

Roadway. The portion of a Highway, including Shoulders, for vehicular use. A divided Highway has two or more Roadways.

Schedule of Work. A written work schedule submitted and maintained by the Design-Builder by which the Design-Builder plans and prosecutes the Work. The Schedule of Work contains dates of commencement and completion of various items of Work within the Contract Time and all authorized extensions. For a related provision, see Subsection 107.4.3 - Schedule of Work Required.

Shop Drawings. See Working Drawings.

Shoulder. The portion of the Road or Roadway that is contiguous with the Traveled Way and that is provided for accommodation of stopped vehicles, emergency use, and lateral support of base and surface courses.

Sidewalk. A way constructed primarily for the use of pedestrians.

Skew or Skew Angle. The acute angle formed by the intersection of the line normal to the centerline of the Roadway or the working line of the Superstructure with a line parallel to the face of the Substructure or in the case of structural plate units and Culverts, with the centerline of the structural plate units and Culverts.

Special Provision. Revisions to the Standard and/or Supplemental Specifications applicable to an individual Contract.

Specifications. A written or electronic textual compilation of provisions and requirements for the performance of the Work, including incorporations by reference.

Stakeholder. A person or group with an interest in the successful and subsequent use of a project.

Standard Details. Detailed Drawings published and approved by the Department for general application and repetitive use.

Standard Specifications. Maine Department of Transportation Standard Specifications and Standard Details for Construction Revision of March 2020, which were published and approved by the Department pursuant to 23 MRSA §4243 for general application and repetitive use on Projects.

State. The State of Maine acting through its authorized agencies and representatives.

Statement of Interest (SOI). Document submitted by an interested Design-Build team in response to a Request For Statement of Interest (RFSOI) issued by the Department. The Department will select a number of Design-Build teams to submit a Proposal, based solely upon the information within the SOI.

Stipend. A fee that the Department may pay unsuccessful Proposers that submit responsive Proposals and that are otherwise in compliance with the requirements of the RFP.

Street. A general term denoting a public way for purposes of vehicular travel, including the entire area within the Right-of-Way.

Structures. Bridges, Culverts, catch basins, drop inlets, retaining walls, cribbing, manholes, endwalls, buildings, sewers, services pipes, underdrains, foundation drains, and other manufactured features.

Strut. See Large Culvert.

Subcontractor. An individual, firm, corporation, limited liability company, partnership, joint venture, sole proprietorship, or any other entity to whom the Design-Builder subcontracts a portion of the Work, and any other entity with whom any Subcontractor has further subcontracted any part of the Work, at all tiers. A subcontracting arrangement shall be considered to exist when a person or firm assumes obligation for performing part of the Work using its own Equipment and workers, procuring its own Materials and supplies, and furnishing its own supervision with only general overall supervision being exercised by the prime Contracting Entity of the Design-Builder or

higher tier Subcontractors. Unless the context indicates otherwise, Subcontractors include suppliers, vendors, fabricators, and any other entities with which the Design-Builder (or a Subcontractor) contracts to perform any portion of the Work.

Subgrade. The top surface of a Roadbed upon which the Pavement Structure, Shoulders, and curbs are constructed.

Subgrade Treatment. Modification of Roadbed Material by stabilization.

Substantial Completion. The point at which the Project is complete such that it can be safely and effectively used by the public without further delays, disruption, or other impediments. For conventional bridge and highway work, the point at which all bridge deck, parapet, Pavement Structure, shoulder, permanent signing and markings, traffic barrier, and safety appurtenance work is complete.

Substantially Conform or Substantial Conformity. Substantially Conform or Substantial Conformity means that the Work at issue, though not in strict accordance with the Plans, Specifications, or other Contract requirements, Conforms sufficiently to the applicable standard such that it may be acceptable to the Department (possibly with a credit to the Department) and not require removal, as determined by the Department. For a related definition, see Conformity. For a related provision, see Section 106.2.4.13 – Substantially Conforming Work.

Substructure. All of that part of the Structure below the bearings of simple and continuous spans, Skewbacks of arches, and tops of footings of rigid frames, together with the backwalls, parapets, and wingwalls of abutments.

Superintendent. The Design-Builder's authorized on-site representative who is in charge of and responsible for the Work.

Superstructure. Excluding backwalls, wingwalls, and wing protection railing, the portion of the Structure above the bearings of simple and continuous spans, skewbacks of arches and top of footings of rigid frames.

Supplemental Liquidated Damages. Liquidated Damages for additional costs resulting from the Design-Builder's failure to complete a specific Work item, phase, or milestone within the time specified in the Contract for that item. Supplemental Liquidated Damages are in addition to and separate and distinct from Liquidated Damages.

Supplemental Specification. Approved additions or modifications to the Standard Specifications.

Supplemental Standard Details. Approved additions or modifications to the Standard Details.

Surety. The corporation, limited liability company, partnership, or individual, or other entity, other than the Contractor, that executes or is obligated under a Contract Bond or Bid Bond.

Technical Proposal. The part of a Proposal detailing, among other things, schedule, management, organization, design, and construction of the project.

Technical Proposal Submission Form (Form A). A required submission in which the Proposer certifies that it has received and reviewed all posted materials, and that its Technical Proposal meets the requirements set forth in the RFP.

Temporary Construction Right. A temporary right to use or control property, outside of the established Right-of-Way.

Temporary Construction Limits. The area within which the Contractor may access and perform the Physical Work and outside of which Work may not be performed without written authorization by the property owner.

Temporary Road Limits. The area within which the Contractor may construct and maintain a temporary detour for maintenance of traffic.

Traveled Way. The portion of the Roadway that is intended for the movement of vehicles, exclusive of Shoulders and auxiliary Lanes.

Unacceptable Work. All Work that does not Substantially Conform to the Contract as determined by the Department.

Unauthorized Work. Work performed without providing the Resident with reasonable notice of the date and time that the Work is to be performed, Work performed contrary to the instructions of the Department, or any Extra Work performed without written Contract Modification or Agreement. For a related provision, see Section 106.2.4.15 - Unauthorized Work.

Uncontrollable Events. Events or acts that were unforeseeable at the time of Proposal submission and that were beyond the Design-Builder's control in that the risk of the event or act could not have been prevented or managed by the Design-Builder with proper planning, coordination, Subcontractor management, insurance, bonding, maintenance, erosion control, traffic control, security precautions, workers or Equipment. Uncontrollable Events are of two types:

- A. severe weather events that meet the requirements of the first sentence of this definition and/or
- B. non-weather events that meet the requirements of the first sentence of this definition which might include acts by foreign enemy, quarantine restrictions, strikes not involving the Design-Builder, action or inaction by governmental authorities, action or inaction by Utility Companies or other third parties (not Subcontractors) working on Project related Work within the Project Limits, and freight embargoes.

Uncontrollable Events specifically do not include: fires (unless caused by a weather event described in this definition above), acts by other third parties, including vandals and members of the traveling public, non-performance of Subcontractors (except in cases of unforeseeable, permanent, and complete cessation of all operations by the Subcontractor for reasons unrelated to the Design-Builder), and difficult, but foreseeable weather for the location and time of the Work including but not limited to cold, snow, and ice in the winter, flooding caused by snow melt and

rain in the spring, and thunderstorms in the summer. For a related provision, see Subsection 104.2.7 – Damage to Project Caused by Uncontrollable Events.

Uninspected Work. Work that was performed without inspection by the Department. For a related provision, see Subsection 106.2.4.16 - Uninspected Work.

Unit Price. The price for one unit of work used by the Design-Builder in the calculation of its Lump Sum Price.

Utility Companies. All persons or entities set forth in 35-A MRSA §2501(2).

Utility Facilities. All Structures, facilities, Equipment, and all appurtenances thereto used by Utility Companies including, but not limited to, poles, wires, support poles, guys, anchors, water pipelines, sewer pipelines, gas pipelines, all other pipelines, fire alarms, service connections, meter boxes, valve boxes, light standards, cableways, Conduits, signals, and manholes.

Value Engineering Change Proposal. See Section 109.4 - Value Engineering.

Wetlands. Areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Winter Suspensions. See Subsection 107.5.1 - Winter Suspensions.

Witness Point. A point in production, identified in the approved QCP, where the Department will be afforded the opportunity to inspect the work. Work may proceed beyond a witness point with or without action by the Department provided proper notification has been given.

Work. The furnishing of all administrative, personnel, design, engineering, labor, materials, supplies, installation, construction, supervision, management, testing, verification, documentation, and other Incidentals necessary for the Completion of the Project in conformity with the Contract. For a related provision, see Section 105.1 - Intent of the Contract.

Working Day. Any Calendar Day except:

- Identified non-work days in the Project Requirements
- Saturdays, Sundays and Holidays – as outlined in Section 107.3.3
- The period from November 15th to April 15th, inclusive
- Any day a Weather Event prevents the Contractor from performing at least seven hours of weather dependent activities, as determined by the Department. Up to a three-hour hold prior to the start of work may be required if weather conditions are uncertain.

The Contractor may request, in writing, a non-working day due to a Weather Event up to 16 hours in advance of the normal start time. The Department may approve this request depending on the certainty of the forecast.

If the Contractor elects to work a Saturday, an allowable holiday, or receives approval to work Sunday, the same process will be utilized to determine if it is a Working Day.

If the Contractor requests approval to work Saturday and does not cancel their request by Thursday at the end of shift, that Saturday will be considered a Working Day regardless of the actual weather conditions and whether work occurred.

Working Drawings. Plans, sketches, or drawings provided by the Design-Builder, or its Subcontractors, vendors, or fabricators for the purpose of supplementing the Plans and being necessary to demonstrate that the Work will comply with the Contract and meet the intent of the Contract. Working Drawings shall be of sufficient detail to meet the purpose set forth in the preceding sentence. Examples include shop drawings, erection plans, falsework plans, cofferdam plans, and bending diagrams for reinforcing steel.

Work Order. See Contract Modification.

101.3 General Rules of Interpretation.

101.3.1 Meaning of “Approved,” Etc. Unless the Contract clearly indicates otherwise, whenever anything is to be done or is not to be done unless “approved”, “accepted”, “authorized”, “ordered”, “required”, “determined”, “directed”, “specified”, “designated”, “established”, “suitable”, “satisfactory”, “sufficient”, “unacceptable”, or a similar word or phrase, the word or phrase shall be interpreted as if it were followed by the words “by the Department” or “to the Department” as applicable.

Note that such terms, when used in the context of obtaining the Department’s approval of a specific approach, proposal, plan, schedule, analysis, or design submitted by the Design-Builder, means that the Department is in agreement with the specific approach, proposal, plan, schedule, analysis or design and that the submittal itself and its contents appear to conform to the respective requirements of the Contract Documents for that submittal.

101.3.2 Referenced Publications. The Design-Builder is responsible for obtaining all manuals, specifications, reference guides, or other publications referenced or indicated by the Contract and performing the Work in Conformity with the same. Unless a specific date or version is specified, the Design-Builder shall use the most recent version of such publication that existed at the time the final RFP was issued.

The information set forth or referenced in the Project Requirements provides basic background project information for use by Proposers. Although the Department believes that the information provided is accurate, Proposers are advised of their responsibility to verify information and to report any errors, omissions, discrepancies, and inconsistencies before making any final determinations regarding the design, pricing, or construction of the Work.

The Design-Builder shall be solely responsible for the Project design, and the Department shall have no liability or obligation as a result of the design work contained in the Reference Documents. The Reference Documents are provided solely for Proposer's reference and are without representation or warranty by the Department, except where specifically stated otherwise in the Contract.

101.3.3 Cross References. Cross-references are sometimes provided in the Contract. (Example: "For a related provision, see Section ___"). These cross references are provided for convenience only and are not a comprehensive listing of related Sections. The lack of a cross reference or an incorrect reference shall not be interpreted as indicating that there are no related provisions and does not relieve the parties of the obligation to read the Contract as a whole.

101.3.4 Headings and Tables of Contents. All headings, indices, titles, and tables of contents are for convenience only. They do not control interpretation and do not relieve the parties of the obligation to read the Proposal Documents or Contract as a whole. For example, requirements shown under the heading "Design Requirements" that impact construction shall have all the force and effect as if shown under the heading "Construction Requirements" and vice versa.

101.3.5 Calculated Dimensions Control. In the case of discrepancy between calculated dimensions and scaled dimensions, calculated dimensions shall control.

101.3.6 Priority of Conflicting Contract Documents. If the Design-Builder discovers any ambiguity, error, omission, conflict, or discrepancy ("ambiguity, etc.") related to the Contract Documents that may significantly affect the cost, quality, Conformity, or timeliness of the Work, the Design-Builder must comply with Subsection 104.3.3 - Duty to Notify Department If Ambiguities Discovered. In the case of ambiguity, etc., the following components of the Contract Documents shall control in the following descending order of priority:

- A. Contract Modifications;
- B. Agreement;
- C. Proposal, to the extent that it meets or exceeds the requirements of the other Contract Documents;
- D. Special Provisions;
- E. Project Requirements, as defined in the RFP;
- F. Design-Build General Conditions;
- G. latest version of the Supplemental Specification (Repair Spec) (Excluding Section 100);
- H. Plans;
- I. Supplemental Specifications;

- J. Supplemental Standard Details;
- K. Standard Specifications; and
- L. Standard Details.

101.3.7 Overall Intent of Contract Documents. The intent of the Contract Documents is to provide for the design, construction, and completion of the Work described in the Contract in Conformity with the Contract. The Design-Builder shall furnish all design services, supervision, coordination, administration, testing, inspection services, labor, Materials, Equipment, tools, transportation services, supplies and all incidentals required to complete the Work in accordance with the Contract.

101.3.8 Interrelationships Between SOI, RFP, Proposal, and Contract. The SOI is the document submitted by potential Proposers for the purpose of allowing the Department to determine that the Design-Builder, including the Designer and all other Major Participants, are sufficiently qualified and experienced to satisfactorily complete the Work. By executing the Contract, the Design-Builder covenants that all representations in the SOI are true and accurate to the best of its knowledge and belief and that it will perform the Work in conformity with the SOI. The SOI is a Contract Document.

The RFP is the document consisting of the Agreement, Design-Build General Conditions, Project Requirements, and related Appendices that are advertised for the purposes of transmitting project information to the Proposers, setting forth procedures to be used during the Proposal preparation period, specifying Proposal submittal requirements, specifying Proposal submittal requirements, and specifying procedures and pre-award submittal requirements for Award and execution of the Contract.

The Proposal is the submittal by the Design-Builder (then designated a “Proposer”) in response to the RFP. The Proposal represents the Offer by the Design-Builder to perform the Work in accordance with the Contract, its SOI, and the component of its Proposal known as the Technical Proposal; and for the price submitted in the component of its Proposal known as the Price Proposal. The Proposal is a Contract Document to the extent that it meets or exceeds the requirements of the other Contract Documents. In other words, if the Proposal includes statements that can reasonably be interpreted as Offers to provide higher quality items than otherwise required by the Contract or to perform services in addition to those otherwise required, or otherwise contain terms which are more advantageous to the Department than the requirements of the other Contract Documents, the Design-Builder’s obligations hereunder shall include compliance with all such statements, Offers and terms. This offer is accepted by the Department upon Award of the Contract.

The Contract is the written agreement setting forth the respective rights and obligations of the Department and the Design-Builder from execution of the Contract until the performance of all warranty obligations set forth in the Contract.

101.3.9 Covenants of Good Faith and Fair Dealing. See Section 104 – General Rights and Responsibilities.

101.3.10 Figures Written in Words Control. In the event of a conflict between figures, including prices written out in words and figures given in numerical form, the written words shall control.

101.3.11 Severability. The invalidity or unenforceability of any particular provision or part thereof of these Design-Build General Conditions shall not affect the remainder of said provision or any other provisions, and these Design-Build General Conditions shall be construed in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

101.3.12 Successors and Assigns. The Department and the Design-Builder respectively bind themselves, their partners, successors, assigns and legal representatives to the other party to this Agreement and to partners, successors, assigns of such other party with respect to covenants of this Contract.

101.3.13 Survival. The Design-Builder representations and warranties, the dispute resolution provisions, and all other provisions which by their inherent character should survive termination of the Contract and Final Acceptance, shall survive the termination of the Contract and Final Acceptance.

SECTION 102 - PROPOSAL SUBMISSION AND CONTENT REQUIREMENTS

Scope of Section. This Section includes requirements related to eligibility to submit a Proposal, and Proposal pre-submittal and submittal requirements.

The procurement process for the Project is authorized by Title 23, MRSA §4244. The Department will Award the Contract (if at all) to the lowest, responsive and Responsible Proposer offering a Proposal meeting the requirements of the RFP. The Department will accept Proposals only from Proposers who have been advised by the Department in writing that they have been short-listed to submit Proposals.

102.1 Eligibility to Submit a Proposal.

102.1.1 Basic Requirements. To be eligible to submit a Proposal, prospective Proposers must:

- A. Have been short-listed by the Department after submitting an SOI in the first step of the two-step Low-Bid Procurement Process,
- B. not have been debarred or suspended from contracting with the State of Maine, and;
- C. not be in default with respect to any outstanding contract with the Department, unless the Department grants written permission to submit a Proposal despite such default.

102.1.2 Suspension From Proposing. The Department may suspend the right of a Proposer to submit Proposals on construction projects being developed by the Department's Bureau of Project Development for up to two years pursuant to Department's "Rules Regarding Suspension From Bidding".

102.1.3 Debarment. The Department may debar a Proposer from Proposing, subcontracting, or being employed in any capacity regarding any Project administered by the Department pursuant to "Rules Regarding Debarment of Contractors," Maine Department of Transportation Register 17-229, Chapter 102 (October 2, 1985).

102.1.4 Conflict of Interest. A person or entity entering into this Contract may not have any financial or other interest, other than the performance of the Contract, in the Project or in its outcome.

- A. This prohibition includes, without limitation,
 - 1. any agreement with, or other interest involving, third parties who have an interest in the outcome of the Project that is the subject of the Contract;
 - 2. any agreement providing incentives or guarantees of future work on the Project or related matters; and
 - 3. any interest in real property acquired for the Project unless such real property interest is openly disclosed to the Department before the person or entity entered into the Contract.

- B. This section prohibits all conflicts of interest both at the time the contracting party enters into a Contract and during the life of the Contract.
- C. This section prohibits situations involving an actual conflict of interest and those creating an appearance of a conflict of interest. The Department may waive this prohibition or impose curative modifications on the scope of any Contract between the person or entity and MaineDOT to eliminate the conflict or the appearance of a conflict.
- D. A Design-Builder involved in the preparation of information that shall be used or considered in evaluations under the National Environmental Policy Act shall, by virtue of signing the Contract, attest that Design-Builder:
 - 1. has no financial or other interest in, or commitment for, any future contract related to the design or construction of the Project or any of its alternatives,
 - 2. has no financial or other interest in said Project or its alternatives, or any part thereof, and
 - 3. has no other interest which, under applicable law, would prohibit the selection of said Design-Builder to prepare an Environmental Assessment, Environmental Impact Statement, or other environmental documents for the project.
- E. All determinations made under this section shall be left at the sole discretion of the Department.

102.2 Pre-Submittal Requirements for an RFP.

102.2.1 Designation of Proposer Representative. Each Proposer shall provide the Department with the name and address of a representative or key contact person to receive documents, notices, and Amendments hereunder. Each Proposer shall notify Department of any changes to the representative or address for any notices or Amendments to be sent to the Proposer by the Department. Failure to so identify a representative in writing may result in the Proposer failing to receive Amendments or other important communications from Department, for which the Department will not be responsible.

102.2.2 Examinations of Documents, Site and Other Information.

102.2.2.1 Responsibilities of Proposers. Before submitting a Proposal, the Proposer is responsible for the following:

- A. Proposers shall obtain and examine all documents included in the RFP. The RFP will be issued to Proposers in electronic format
- B. Proposers shall examine all information provided or referenced in the RFP.
- C. Proposers shall examine the Site(s) of Work and make other examinations and investigations that are needed to make the Proposer fully aware of the conditions that would be encountered in performing the Work. As a result of such review,

inspection, examination and other activities, the Design-Builder is familiar with and accepts the physical requirements of the Work, including:

1. The nature and location of the Work;
 2. The general and local conditions which can affect the Work or its cost, including:
 - (a) conditions bearing upon acquisition, transportation, disposal, handling, and storage of Materials;
 - (b) the availability of labor, Materials, water, electric power, and roads;
 - (c) uncertainties of weather, river stages, tides, or similar physical conditions at the site;
 - (d) the conformation and condition of the ground;
 - (e) the character of Equipment and facilities needed preliminary to and during Work performance; and,
 - (f) the site environmental hazards and associated physical hazards.
 3. The character, quality, and quantity of surface and subsurface Materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the Work site (including material sites) and review and interpretation of reference information included in the RFP; and
 4. The adequacy of time allowed for the completion of the physical Work.
- D. Proposers shall communicate with the Department as provided in Subsection 102.2.3 – Communication Before Proposal Opening. For a related provision, see Subsection 102.3.2.4 - Effects of Signing and Submission of Proposals.
- E. Proposers shall also be solely responsible for investigating any and all conditions that may in any way affect the amount or nature of its Proposal or the performance of the Work if Proposer enters into the Contract with the Department. The Technical Proposal Submission Form (Form A) includes an acknowledgment that the Proposer has received and reviewed all Materials posted thereon. Failure of the Proposer to so examine and inform itself shall be at the Proposer’s sole risk, and no relief for error or omission will be provided by the Department.

102.2.3 Communication Before Proposal Opening.

102.2.3.1 Questions From Proposers. Proposers shall direct questions, including requests for explanations or interpretation, in writing to the Contract Representative designated in the Project Requirements. Any such request regarding the RFP or the Project must be submitted in writing to the Contract Representative no later than the deadline for questions

set forth in the Project Requirements, provided that requests in connection with an Amendment must arrive no later than five (5) Days after issuance of the Amendment. Each Proposer must make itself available to the Department to discuss any matters it submits to the Department under this Section. For a related provision, see Subsection 102.2.3.4 - RFP Amendments.

102.2.3.2 Proposer's Duty To Notify Department If Ambiguities Discovered. During the preparation of the Proposal, Proposers shall not take advantage of any ambiguity, error, omission, conflict, or discrepancy ("ambiguity, etc.") contained in the RFP, Reference Documents, site conditions, or any other information that may significantly affect the cost, quality, Conformity, or timeliness of the Work. If a Proposer discovers any such ambiguity, etc., it must notify the Contract Representative immediately in writing.

Requests for clarification or interpretation must specifically reference the section and page number of the RFP at issue, unless such request is of general application. Requests shall be submitted via email to the Contract Representative, using the Request for Information transmittal sheet included in Appendix B to this RFP. Requests shall be clearly marked with the Project Name and Identification Number in the Subject field of the email, with Attention to the Contract Representative referenced in the Project Documents. Phone requests will not be accepted. Responses to written questions received will be provided to all Proposers. A final set of questions and answers will be compiled and distributed to all Proposers prior to the Proposal Due Date. If the Department determines, in its sole discretion, that such interpretation or clarification requires a change in the RFP Documents, the Department will prepare and issue an Amendment.

Inquiries shall not go to any Department staff other than the Contract Representative, or to any Department consultant. The Department has no duty to respond to any such inquiries, and the Department will not be responsible for any responses from any other source than the Contract Representative. Furthermore, the Department will not be bound by, and Proposer shall not rely on, any oral communication or representation regarding the RFP Documents, or any written communication except to the extent that it is an Amendment to this RFP and is not superseded by a later Amendment to this RFP.

102.2.3.3 One-On-One Meetings with Proposers. The Department may schedule oral presentations and/or discussion meetings with all Proposers on a one-on-one basis for the purpose of reviewing the Proposers' potential Alternate Technical Concept (ATC) Proposals prior to submittal of the ATC or the Technical Proposal. These meetings will be confidential and any documents or Materials used by the Proposers during these meetings will remain the property of the Proposers.

102.2.3.4 RFP Amendments. The Department reserves the right to revise the RFP Documents. Such revisions, if any, shall be announced by Amendments. Amendments to the RFP will be e-mailed to each Proposer and posted on the Project website. If any Amendment includes changes significantly impacting this RFP, as determined in the Department's reasonable discretion, the Department may set a new Proposal Due Date. The announcement of such new date, if any, shall be included in the Amendment. In any event, the Proposal Due Date shall not occur within five (5) Days after the issuance of the

last Amendment. Proposer must expressly acknowledge in its Technical Proposal Submission Form (Form A) receipt of all Amendments. Failure to acknowledge receipt of all Amendments shall cause the Proposal to be deemed non-responsive to this RFP and be rejected without further evaluation. The Department reserves the right to hold group or one-on-one meetings with each Proposer to discuss any Amendments or response to requests for clarifications.

102.2.3.5 Changes in Proposer's Organization. If a Proposer wishes to change its organization and business structure from that described in the SOI submitted by Proposer in response to the Department's RFSOI, the Proposer shall obtain written approval of the change from the Department prior to submitting its Proposal. This includes any changes in the form of organization of Proposer and Major Participants (including additions, deletions, and reorganization). Any such request shall be addressed to the Contract Representative at the address set forth in the Project Requirements, accompanied by the information specified for such entities or individuals in the RFSOI. The Department is under no obligation to approve such requests and may approve or disapprove a portion of the request or the entire request at its sole discretion.

102.2.3.6 Ex Parte Communications. During the Request for Proposals process and continuing until award of the Contract or cancellation of this RFP, no Proposer shall have any ex parte communications regarding the RFP Documents with the Department's staff, including any identified member of the RFP evaluation committee or consultant hired to assist with the development of the RFP Documents, except for communications expressly permitted by the RFP Documents. The Department will have the right to disqualify any Proposer engaging in such prohibited communications, and may withdraw its short-listing of the Proposer.

102.3 Proposal Submittal Requirements.

102.3.1 Submittal of Proposals.

102.3.1.1 Location and Time. Proposals must be received at the location and time specified in the Project Requirements.

102.3.1.2 Separate Packages. The Proposal shall be submitted in separate sealed packages as specified in the Project Requirements. Proposals received after the time due will be rejected without consideration or evaluation.

102.3.2 Proposal Format and Content.

102.3.2.1 Proposal Organization. The Proposal shall be organized as listed below. Each item listed shall be separately indexed and/or packaged, clearly titled, and identified as described below. Blank copies of Forms A through H (there is no Form B) are included in the Project Requirements, Appendix B.

Proposal Components	
Technical Proposal Package	
Technical Proposal Submission Form	Form A
Letter(s) Approving Changes in Proposer's Organization (if applicable)	Two (2) pages maximum each
Technical Proposal	Seventy-Five (75) pages maximum
11" x 17" Plan Set	
Preliminary Schedule	
Approved Response Summary for ATC #__ Forms	
Design Quality Management Plan Outline	
Construction Quality Management Plan Outline	
Proposal Guaranty Package	
Proposal Guaranty	Form C (separately sealed)
Price Proposal Package	
Price Proposal	Form D (separately sealed)
Commitment Confirmation Bidder's List Form	Form E1
OEPP Proposed DBE Participation Schedule	Form E2
OEPP Currently Undetermined Firms DBE Participation Schedule	Form E3

102.3.2.2 Technical Proposal Package.

102.3.2.2.1 Technical Proposal Submission Form.

The Technical Proposal Package shall include the Technical Proposal Submission Form (Form A). Attach to the Technical Proposal Submission Form evidence of the authorization to execute and deliver the Proposal and Contract, and identify its authorized representative.

102.3.2.2.2 Letter(s) Approving Changes in Proposer's Organization.

If the Proposer's organization has changed since submission of its SOI, the Proposer shall specifically describe such changes and submit the revised materials required by section 5.2.2.1 Design-Builder Organization and Key Personnel of the RFSOI.

102.3.2.2.3 Format.

The Technical Proposal shall contain concise written material and drawings that enable a clear understanding and evaluation of both the capabilities of the Proposer and the characteristics and benefits of the Proposal. Legibility, clarity, and completeness of the technical approach are essential. Proposers shall organize the Technical Proposal so that the Department can easily separate and evaluate each criterion in the order shown in the Project Requirements.

The purpose of the Technical Proposal is to demonstrate the Design-Builder's understanding of the Project and its approach to address technical responsiveness requirements listed in the Project Requirements. The Technical Proposal shall contain sufficient detail to allow the Department to clearly understand and evaluate both the capabilities of the Proposer and the characteristics and benefits of the proposed work. Forms, graphs, charts, matrices, plans, and other data may be attached separately.

The main body of the Technical Proposal shall conform to the following formatting requirements:

- A. Provide all information in a single PDF document on 8 ½" x 11" pages, with the exception of charts, schedules, and other illustrative and graphical content, which may be prepared on 11" x 17" pages.
- B. Address topics in the order set forth in the Project Requirements. The use of section summaries is encouraged.
- C. Number all pages sequentially including cover sheets, table of contents, etc, matching the total pages of the document.
- D. Provide a table of contents and separate each section, including appendices, exhibits, and forms, with clearly labeled headings and electronically navigable bookmarks.
- E. Count all illustrative and graphical content against the Technical Proposal page limit defined in Section 102.3.2.1, with the exception of the Preliminary Schedule, DQMP, CQMP, plan sets, and the required forms and letters listed in Section 102.3.2.1 – Proposal Organization.
- F. Draw all plans and details to an identifiable scale.
- G. Use a type font size no smaller than twelve (12) point, except that tables, figures, and schedules may use ten (10) point font. Printed lines may be single-spaced.
- H. Use U.S. Customary units of measurement.

102.3.2.2.4 Content. To assist the Proposers in preparing Proposals, the required contents of, as well as forms required for, the Proposal are listed in the Project Requirements.

102.3.2.3 Proposal Guaranty Package.

The Price Proposal must be accompanied by a Proposal Guaranty that complies with all the requirements of this RFP, unless noted otherwise in this RFP. The Proposal Guaranty will be considered as accompanying the Price Proposal so long as the Proposal Guaranty is submitted to the Contract Representative prior to the opening of the Price Proposals.

The Proposal Guaranty must be:

- A. in the amount of five percent (5%) of the Price Proposal;
- B. made payable to the “Treasurer – State of Maine”; and
- C. one of the following types: a Bond Conforming to the next paragraph, a cashier’s check, a certified check, or a United States Postal money order.

Bonds must:

- A. be issued by an insurance company licensed or approved by the State of Maine, Department of Business Regulation, Bureau of Insurance, to do business in the State of Maine;
- B. be properly signed by the Design-Builder (as Principal) and a duly authorized representative of the insurance company referenced above, and
- C. not contain any significant variations from the Department’s Proposal Guaranty Form as determined in the sole discretion of the Department.

102.3.2.4 Price Proposal Package.

102.3.2.4.1 Content.

As part of Form D, the Proposer is required to indicate the Lump Sum Price offered by Proposer to perform the work described in the Technical Proposal, which is referred to herein as the “Price.” The term “Price Proposal,” as used herein, means Form D and other documentation identified in Section 102.3.2.1 submitted by each Proposer.

102.3.2.4.2 DBE Submittal Requirements.

The Proposer shall submit the following Forms with the Price Proposal, identifying each of the DBE and non-DBE firms to be used as specified in the Project Requirements, as applicable:

- a. Form E1 – ~~Commitment Confirmation Bidder’s List~~ form. This form outlines anticipated subconsultants known at the time of submitting the Proposal.
- b. ~~Form E2 – an Open Ended Performance Plan (OEPP) indicating known DBE firms to be used on the project at the time of Submitting the Proposal, including a description of the work to be performed and anticipated cost of this work.~~
- c. ~~Form E3 – an OEPP indicating work that is currently unassigned at the time of submitting the Proposal, and could be assigned to a DBE firm.~~

The Proposer must demonstrate a proactive good faith effort to recruit DBEs and achieve commitments for work items prior to submission of the Proposal. ~~While making commitments to firms for all DBE opportunities (Form E2) may not be practical prior to submission of the proposal, identification of specific work items for potential future commitments (Form E3) must be completed.~~

102.3.2.4.3 Effects of Signing and Submission of Proposals. Each Proposal shall be executed on behalf of the Proposer by its authorized representative(s). The signing of the Technical Proposal Submission Form (Form A) and the delivery of a Proposal represents (a) an offer by the Proposer to perform the Work for the Price submitted in the Price Proposal, within the time(s) specified and in accordance with all provisions of the Contract Documents and (b) the Proposer’s agreement to all of the provisions of the RFP and Contract governing requirements and procedures applicable through execution of the Agreement.

By signing the above referenced Technical Proposal Submission Form and by delivering the Proposal, the Proposer makes the following affirmative representations.

- A. The Proposer has reviewed all documents and undertaken all investigations that could significantly impact the cost, timeliness, quality, or performance of the Work. Specifically, the Proposer has:
 - 1. carefully examined the RFP and Contract Documents and all documents referenced therein,
 - 2. carefully examined all available reports and data related to subsurface conditions,
 - 3. become familiar with all applicable Laws,
 - 4. visited the Site and undertaken field and site investigation, and
 - 5. correlated the information obtained from the above examinations and investigations.
- B. The Proposer has given the Department written notice of all errors, omissions, or discrepancies in the RFP and/or Contract Documents.

- C. The Proposer has determined that the RFP and Contract are generally sufficient to convey an understanding of all terms and conditions that could significantly impact the cost, timeliness, quality, or performance of the Work.
- D. The Proposer certifies all federally required certifications as set forth in Appendix A of the Design-Build General Conditions.

102.3.2.4.4 Withdrawal of Proposals Before the Time Specified for Submission of Proposals. A Proposer may withdraw a Proposal after Delivery, provided the request for such withdrawal is made in writing or in person before the time set for Submission of Proposals in the RFP. The Proposer may revise and resubmit a Proposal so withdrawn before the time specified for Submission of Proposals.

102.4 Alternate Technical Concepts (ATCs). As identified in the Project Requirements, the Department will use the ATC process described below to provide Proposers with the opportunity to propose changes to the Project Requirements that are equal or better in quality or effect as determined by the Department in its sole discretion.

All ATCs will be confidential between the Department and the Proposer submitting ATCs and will remain confidential throughout the proposal process until the public opening of the Price Proposals. Proposers who violate this confidentiality requirement will be disqualified and not allowed to submit a Proposal. ATCs shall be limited to Project Requirements other than those listed in the Technical Proposal Responsive Requirements identified in the Project Requirements.

102.4.1 Submittal of ATCs. No ATCs will be accepted prior to issuance of the final RFP. ATCs must be submitted to the Contract Representative by the time specified on the date specified in the Project Requirements. Each ATC submittal shall include the following:

- A. Description: A detailed description and schematic Drawings of the configuration of the ATC or other appropriate descriptive information (including, if appropriate, product details [i.e., specifications, construction tolerances, special provisions] and a traffic operational analysis);
- B. Usage: Where and how the ATC would be used on the Project;
- C. Deviations: References to requirements of the RFP documents that are inconsistent with the proposed ATC, an explanation of the nature of the deviations from said requirements, and a request for Approval of such deviations;
- D. Analysis: An analysis justifying use of the ATC and why the deviations from the requirements of the RFP documents should be allowed;
- E. Impacts: Discussion of potential impacts on vehicular and pedestrian traffic, environmental impacts identified on appropriate environmental documents, community impact, safety and life-cycle Project impacts, and infrastructure costs (including impacts on the cost of repair and maintenance);

- F. History: A detailed description of other projects where the ATC has been used, the success of such usage, and names and telephone numbers of project owners that can confirm such statements; and
- G. Risks: A description of added risks to the Department and other Persons associated with implementing the ATC.

102.4.2 Department's Review of ATCs. The Department will review each ATC submitted. If an ATC is summarily approved or not approved, the Department's comments will inform the Proposer that its technical concept appears to be generally acceptable, or the Department will identify areas in which the approach appears to be incompatible with the Project Requirements. If the Department needs more information to determine whether or not the ATC will be approved or not approved, the Department will submit written questions to the Proposer and/or request a one-on-one meeting in order to better understand the details of the ATC. The Department may conditionally approve an ATC based on required revisions to a portion or portions of the ATC.

The Department will make one of the following determinations with respect to each properly submitted ATC:

- A. The ATC is approved.
- B. The ATC is not approved.
- C. The ATC is not approved in its present form, but is approved subject to satisfaction, in the Department's sole judgment, of specified conditions.
- D. The submittal does not qualify as an ATC, but may be included in the Proposal without an ATC (i.e., the concept complies with the RFP requirements).
- E. The submittal does not qualify as an ATC and shall not be included in the Proposal.
- F. Decision on the ATC is pending receipt of additional information and/or one-on-one meeting.

Approval of an ATC will constitute a change in the specific requirements of the Contract Documents associated with the approved ATC. Should the Design-Builder be unable to obtain required approvals for any ATC incorporated into the Contract Documents, or if the concept otherwise proves to be infeasible, the Design-Builder will be required to conform to the original RFP requirements. Each Proposer, by submittal of its Proposal, acknowledges that the opportunity to submit ATCs was offered to all Proposers, and waives any right to object to the Department's determinations regarding acceptability of ATCs.

102.4.3 Incorporation of ATCs into Proposal. A Proposer may or may not incorporate pre-approved ATCs into its Proposal, including conditionally approved ATCs. If the Department responded to an ATC by identifying conditions to approval, the Proposer may not incorporate such ATC into its Proposal unless all conditions have been met. Copies of the Department's

ATC approval letters for each incorporated ATC shall be included in the Proposal as specified in the Project Requirements. Proposals with or without ATCs will be evaluated against the same technical evaluation factors, and the inclusion of an ATC, including an ATC that provides technical enhancements, may or may not receive a higher technical rating.

The Proposal Price must reflect all incorporated ATCs. Except for incorporating approved ATCs, the Proposal shall not otherwise contain exceptions to or deviations from the requirements of the RFP Documents.

SECTION 103 - EVALUATION OF PROPOSALS AND AWARD AND EXECUTION OF CONTRACT

Scope of Section. This Section includes requirements related to the Escrow of Proposal Documents, the Evaluation of Proposals, the Determination of Proposal responsiveness, and the Award and Execution of the Contract. The Department intends to select the Proposer that offers the lowest responsive, responsible bid to the Department. The intent of the Department in this evaluation process is to create a fair and uniform basis for the evaluation of the Proposals in accordance with the State's legislation under Title 23, MRSA §753-A governing this procurement.

103.1 Escrow of Proposal Documents.

103.1.1 Delivery of Price Proposals to Document Depository Facility. The Contract Representative will deliver all Price Proposal envelopes unopened to a locked document storage facility to be placed in escrow.

103.1.2 Duration of Escrow. The Price Proposals will remain in escrow until Completion of the responsiveness process for the Technical Proposals as described in Subsection 103.2.1 – Responsiveness Evaluation. Proposers shall not be allowed access to the Price Proposals under any circumstances.

103.1.3 Release of Price Proposals from Escrow. Upon Completion of the responsiveness process of all Technical Proposals, the Contract Representative shall remove the Price Proposals from escrow and deliver them to the designated place to be opened. Price Proposals will be opened as described in section 103.3 – Price Proposal Opening.

103.1.4 Cost and Escrow Instruction. The cost of the escrow document storage facility will be borne by the Department. The Department will provide escrow instructions to the document facility consistent with this Section 103.1 – Escrow of Proposal Documents.

103.1.5 Escrowed Proposal Documents (EPDs) for the Apparent Successful Proposer. The Apparent Successful Proposer shall, within ten (10) Days of receiving the Letter of Intent to Award, assemble and deliver documentation (the “EPDs”) containing information regarding the Proposer's assumptions made in determining the scope of work and calculating the Price Proposal and meeting all requirements of Section 103.3 – Price Proposal Opening. The Proposer shall submit its EPDs in electronic format. The EPDs shall include detailed information as required by these Design-Build General Requirements, including information from all Subcontractors identified in the Proposal and any other potential subcontractors who provided data upon which the Proposal is based. The EPD's shall be submitted to the Department locked or to be locked in the presence of the Design-Builder and shall not be opened without the written permission of the Design-Builder. Opening of the EPD's shall only be done in the presence of the Design-Builder.

103.1.6 The Department's Acknowledgment. The Department acknowledges that the Proposer considers that the EPDs constitute trade secrets or proprietary information. This acknowledgment is based upon the Department's understanding that the information contained in the EPDs is not known outside each Proposer's business, is known only to a limited extent and by a limited number of employees of the Proposer, is safeguarded while in the Proposer's

possession, and may be valuable to the Proposer’s construction strategies, assumptions and intended means, methods and techniques of design and construction. Except as set forth in the Contract or as required by applicable Law, the Department acknowledges that the EPDs will remain in escrow at all times and be returned to the Design-Builder upon Completion of the project.

103.2 Evaluation of Technical Proposals. Technical Proposals will be evaluated by the Department’s Technical Proposal Responsiveness Committee. Committee members will be appointed by the Chief Engineer.

The Technical Proposal Responsiveness Committee will consist of technical persons from within the Department and outside of the Department, in accordance with Title 23, MRSA, Section §4244 – Design-Build Contracting. The Department reserves the right to make Committee member substitutions at its discretion.

The Technical Proposal Responsiveness Committee will examine Proposals in accordance with Subsection 103.2.1 – Responsiveness Evaluation and make a determination as to whether each Technical Proposal is responsive.

103.2.1 Responsiveness Evaluation. The Technical Proposal Responsiveness Committee will determine whether or not Technical Proposals are responsive and communicate said determination to the Contract Representative.

Within ten (10) Days of the date of submittal of Proposals, the Contract Representative will send via email, a written “Notice of Technical Proposal Responsiveness” to all Proposers that submitted Proposals. The Notice shall state, as applicable, that:

- A. as of the date of said Notice, the Technical Proposal is responsive;
- B. the Technical Proposal fails to comply with the Technical Proposal Responsiveness Requirements set forth in the Project Requirements that must be cured within five (5) Days; or
- C. the Technical Proposal contains Non-curable Technical Proposal Defects as provided in 103.2.1.1 and is rejected as non-responsive.

Said Notice may consist of more than one communication in order to allow Proposers more time to cure defects. The Technical Proposal shall be considered finally submitted upon expiration of the responsiveness evaluation.

Proposals considered responsive pursuant to this Section may still be rejected as non-responsive at a later date if the Proposer fails to satisfy such additional responsiveness requirements as are specified elsewhere in this Section. The Department’s determination of responsiveness in no way relieves the Proposer from meeting all contract requirements listed as part of this contract.

103.2.1.1 Non-curable Technical Proposal Defects. The Department will reject Proposals as non-responsive if any one of the following occurs:

- A. The Technical Proposal is not properly delivered.
- B. The Department has substantial evidence of collusion by the Proposers.
- C. The Proposer adds any provision reserving the right to accept or reject an Award or a Contract.
- D. The Proposer fails to provide a completed and signed Form A.
- E. The Proposer fails to cure the Technical Proposal Responsiveness Requirements as set forth in the Project Requirements.

103.2.1.2 Curable Technical Proposal Defects. Proposers must cure, to the satisfaction of the Department, all Curable Technical Proposal Defects identified in the Notice of Technical Proposal Responsiveness within five (5) Days of the date of receipt of such Notice. Failure to so cure all such Curable Technical Proposal Defects will result in forfeiture of Proposer's Proposal Guaranty and forfeiture of any claim to the Stipend. Curable Technical Proposal Defects include, but are not limited to, the following:

- A. The Proposer fails to provide all the requested forms, excluding Form A;
- B. The Proposer fails to meet all of the Technical Proposal Responsiveness Requirements as outlined in the Project Requirements;
- C. The Technical Proposal is not in substantial compliance with the requirements of the Project Requirements, the General Conditions, or, in the Department's sole discretion, the intent of the Standards and publications incorporated by reference in 106.2.2.2 of the General Conditions; and/or
- D. The Proposer fails to indicate the Proposer's choice where the RFP clearly require a choice.

103.2.1.3 Requests for Clarification, Oral Presentations, and Discussions. The Department may issue one or more requests for clarification to the individual Proposers. The Department may also schedule oral presentations and/or discussion meetings with all Proposers on a one-on-one basis for the purpose of enhancing the Department's understanding of the Technical Proposals and obtaining clarifications of the terms contained in the Technical Proposals. The Department may at any time request additional information or clarification from the Proposer or may request the Proposer to verify or certify certain aspects of its Technical Proposal. The scope, length, and topics to be addressed shall be prescribed by, and subject to the discretion of, the Department. At the conclusion of this process, Proposers shall be required to submit written confirmation of any new information and clarifications provided during an oral presentation. If required, oral presentations shall be scheduled at a later date. Upon receipt of requested clarifications

and additional information as described above, if any, the Technical Proposals will be re-evaluated to factor in the clarifications and additional information.

103.3 Price Proposal Opening. Unless changed by Amendments, the Price Proposals will be opened and the Lump Sum Prices will be read publicly by the Department at the location, time, and date specified in the Project Requirements. Proposers, their authorized agents, and other interested parties are invited to attend.

The public reading of the price at the opening does not constitute a final determination by the Department of whether the Price Proposal is responsive. The Department may refuse to read Price Proposals that are obviously non-responsive.

103.3.1 Price Proposal Responsiveness.

103.3.1.1 Non-Curable Price Proposal Defects. The Department will reject Price Proposals as non-responsive for any one of the following reasons:

- A. The Proposer failed to properly deliver the Price Proposal;
- B. The Proposer failed to provide a completed and signed Form D;
- C. The Proposer failed to submit a Proposal Guaranty conforming to the Proposal Requirements;
- D. The Price Proposal contains any provision reserving the right to accept or reject an Award or a Contract or otherwise contains any unauthorized, conditional, or alternate bidding language; or
- E. The Proposer fails to comply with any other provision in the Project Requirements that the RFP expressly indicates will cause Price Proposal rejection.

103.3.1.2 Curable Price Proposal Defects. The Proposer must cure, to the satisfaction of the Department, all Curable Price Proposal Defects within twenty-four (24) hours of the commencement of the Price Proposal Opening. Failure to cure all Curable Price Proposal Defects within said twenty-four (24) hour time period will result in forfeiture of Proposer's Proposal Guaranty and any claim to the Stipend. Curable Price Proposal Defects include, but are not limited to, the following:

- A. Failure to provide properly completed DBE Form(s) (Forms E1, ~~E2~~, and ~~E3~~) with the Proposer's Technical Proposal or failure of the information to indicate a good faith effort towards meeting the Project Goals outlined in Subsection 105.10; and
- B. Failure to submit prices or signatures in ink or other non-erasable substance.

103.3.2 Determination of Apparent Successful Proposer. The Proposal with the lowest overall responsive, responsible bid will be the Apparent Successful Proposal and its Proposer the

Apparent Successful Proposer, contingent on the Department's determination that the Price Proposal meets the conditions for Award.

103.3.2.1 Return of Proposal Guaranty. Proposal Guaranties will be returned within five (5) Days following Price Proposal Opening, except that the Proposal Guaranties from the two lowest overall bids from Responsible Proposers will be retained until Contract Execution or rejection of all Proposals.

103.4 Award of Contract. Within twenty (20) Days of the opening of the Price Proposals, the Department will email (with confirmation of receipt) a Letter of Intent to Award the Contract to the Apparent Successful Proposer and letters indicating such intent to all other Proposers. Said Letter shall also indicate that the Department will award the Contract to Apparent Successful Proposer if said Proposer fulfills the conditions stated in the letter.

As a condition to award, the successful Proposer shall deliver the following required documents to the Department concurrently with the executed copies of the Contract:

- A. Evidence of authorization to execute the Contract, in the form of a certified resolution of the governing body of the Proposer expressly stating such body's authorization to execute the Contract and, if the Proposer is a partnership, Joint Venture, unincorporated association or limited liability company, of the governing bodies of the entity's partners or members;
- B. The insurance policies, endorsements and/or certificates required under Section 110 – Indemnification, Bonding, and Insurance;
- C. A Performance Bond in the form attached as Form F issued by the Surety listed in the Proposal, or an equivalent Surety meeting the requirements stated in Section 110.2 – Bonding of the Design-Build General Conditions;
- D. A Payment Bond in the form attached as Form G issued by the Surety listed in the Proposal, or an equivalent Surety meeting the requirements stated in Section 110.2 – Bonding;
- E. Evidence of Availability of a Warranty Bond;
- F. A written opinion from counsel for the Design-Builder, which counsel shall be approved by the Department (which may be in-house or outside counsel, provided that the enforceability opinion shall be provided by an attorney licensed in the State of Maine), in substantially the form attached as Form H; and
- G. A written appointment of a resident attorney for service of process, if required by Subsection 103.4.4 – Non-Resident Proposer Requirements.

103.4.1 Apparent Successful Proposer's Obligations. Within ten (10) Days of receipt of the Letter of Intent to Award, the Apparent Successful Proposer must comply with all the provisions of this Section and all additional conditions stated in the letter.

103.4.1.1 Fulfillment of Award Conditions. The Apparent Successful Proposer must fulfill all conditions set forth in the Letter of Intent to Award. Unless otherwise stated in said Letter, all items shall be delivered to the Contract Representative.

103.4.1.2 Proposer's Acknowledgement. The Proposer acknowledges that, if awarded the Contract, it shall have full responsibility for the design and construction of the Project and for furnishing the final design and construction documents.

The Proposer further acknowledges that it has diligently reviewed and verified the Department-Supplied Information and the Project Requirements for errors, omissions, inconsistencies or other Defects and has incorporated into its Price Proposal all costs associated with correction of any such errors, omissions, inconsistencies and/or other Defects.

The Proposer specifically acknowledges and agrees that:

- A. The Department-supplied information is preliminary and conceptual in nature;
- B. The Design-Builder will be responsible for correcting any errors, omissions and Defects in the Department-Supplied Information through the design and/or construction process;
- C. The Department shall have no liability for errors, omissions, and Defects in the Department-Supplied Information, notwithstanding the Department's obligations for Differing Site Conditions, and;
- D. The Department shall not be responsible or liable in any respect for any loss, damage, injury, liability, cost, expense or cause of action whatsoever suffered by the Proposer, its employees, agents, officers or Subcontractors or any other persons for whom the Proposer may be legally or contractually responsible, by reason of any use of any information contained in the Department-Supplied Information or any action or forbearance in reliance thereon, except as may be provided in the Contract. The Proposer further acknowledges and agrees that:
 - a. if and to the extent Proposer or anyone on Proposer's behalf uses any of said information in any way, such use is made on the basis that Proposer, not the Department, has approved of such use and information and is responsible for said information; and
 - b. Proposer is capable of conducting and is obligated hereunder to conduct any and all studies, analyses and investigations as it deems advisable to verify or supplement said information, and that any use of said information is entirely at Proposer's own risk and discretion.

103.4.1.3 Execution of the Contract. The Apparent Successful Proposer must properly sign both originals of the Agreement and properly deliver them to the Contract Representative.

103.4.1.4 Extension of Time to Fulfill Conditions and Execute Contract. The Apparent Successful Proposer may request in writing and the Department may provide for an extension of time for fulfillment of Award Conditions and execution of the Contract by the Apparent Successful Proposer for good cause shown, provided said extension is in the best interests of the Department.

103.4.1.5 Failure to Fulfill Conditions or Execute Contract. Unless extended pursuant to Subsection 103.4.1.4 – Extension of Time to Fulfill Conditions and Execute Contract, failure of the Apparent Successful Proposer to fulfill all conditions set forth in the Letter of Intent to Award or to execute the Contract will result in cancellation of the conditional award to the Apparent Successful Proposer and the forfeiture of the Proposal Guaranty and any claim to a Stipend or other compensation.

The Department shall then take any action that is in the best interest of the State as determined by the Department including awarding the Contract to the Proposer with the next lowest overall responsive, responsible bid or rejecting all Proposals and readvertising the Work. Any Proposer failing to fulfill the Award Conditions or execute the Contract shall be prohibited from submitting a new proposal for the same work in the event that the Work is readvertised.

103.4.2 Final Determination of Proposal Responsiveness/Award of Contract. Within ten (10) Days of receipt of all the items identified in the Letter of Intent to Award and the executed original Agreements, the Department will make a final determination of whether the Proposal of the Apparent Successful Proposer is responsive and, if responsive, award the Contract to the Apparent Successful Proposer. Award may be made after said ten (10) Day period provided in this Section if the Apparent Successful Proposer agrees to accept such Award. The Apparent Successful Proposer will be notified of Award in writing. Until Award of the Contract, the Department reserves the right to reject any or all Proposals, to waive technicalities, or to advertise for new proposals, if the best interests of the Department will be promoted.

103.4.3 Execution of Contract by the Department. The Department will execute the Agreement within ten (10) Days of the Award of the Contract, but in no event prior to such execution by the Apparent Successful Proposer. In the event the Department fails to execute the Agreement within the required ten (10) Days, the Apparent Successful Proposer shall have the right to withdraw its Proposal without loss of the Proposal Guaranty.

After execution by the Commissioner, the two duplicate originals of the Contract shall be distributed as follows: one to be kept by the Department, and the second to be returned to the Proposer. The Contract shall be effective upon execution of the Agreement by the Department.

Promptly following award, the Department will deliver one set of execution copies of the Contract to the selected Proposer.

103.4.4 Non-Resident Proposer Requirements. If the Apparent Successful Proposer is a Non-Resident Proposer, the Apparent Successful Proposer shall file with the Department at the time

of the execution of the Contract Documents a written appointment of a resident attorney of the State of Maine having a place of business within the State. The appointment shall:

- A. set forth the resident attorney’s place of residence, place of business, telephone number, and email;
- B. name said attorney to be the true and lawful attorney of the Non-Resident Proposer;
- C. include a provision that the Proposer agrees that any lawful process which is served on said attorney shall be of the same legal force and validity as if served on the Proposer; and
- D. the appointment shall continue in force as long as any potential liability in any way related to the Work remains outstanding, including during warranty period(s) or until the Department receives written notice of a change of appointment conforming to this paragraph. The appointment shall be filed in the office of the Secretary of State of Maine.

Service of such process shall be made by leaving a copy of the process in the hands or in the office of the resident attorney. The Proposer hereby expressly agrees that such service shall be effective upon the Proposer, as if service were made in accordance with Rule 4 of the Maine Rule of Civil Procedure, and further expressly waives any and all defenses regarding service of process under Rule 12 of said Civil Rules or otherwise.

103.5 Provisions Regarding Unsuccessful Proposers.

103.5.1 Unsuccessful Proposer Status. Unless notified in writing by the Department to the contrary, Proposers shall be Unsuccessful Proposers as of the earliest of the following dates:

- A. the date of receiving a Notice of Technical Proposal Responsiveness stating that said Technical Proposal contained Non-Curable Technical Proposal Defects;
- B. upon failure to cure Curable Technical Proposal Defects by the expiration of the cure period provided for; or
- C. if not determined to be the Apparent Successful Proposer at the Price Proposal Opening, forty-eight (48) hours after the commencement of the said Opening. Proposers shall be conclusively presumed to have notice of its status as “unsuccessful” at the times specified in the preceding sentence.

103.5.2 Payment of Stipend. Any Proposer submitting a responsive Proposal that is not deemed overall lowest bid may be entitled to receive a stipend from the Department. To receive a stipend the unsuccessful Proposer must return the signed Stipend Agreement found in Appendix B within ten (10) days of receiving a Letter of Intent to Award to the Apparent Successful Proposer. If the Stipend Agreement is not received from a Proposer within this period, their Proposals will be automatically returned. The Project Requirements will identify whether a stipend will be available. If the Department, at its discretion, decides not to award

to the Apparent Successful Proposer, then the Apparent Successful Proposer is also entitled to receive the stipend, except as stated under Subsection 103.4.1.5 - Failure to Fulfill Conditions or Execute Contract. Upon execution of the Contract or the decision not to award the Contract, the Department will pay the stipend amount within ten (10) days.

In consideration for the Department's agreement to make payment pursuant to the Stipend Agreement, each Proposer receiving a stipend agrees that the Department will be entitled to use all work product (including patents, concepts, ideas, technology, techniques, methods, processes, Drawings, reports, Plans and specifications) contained in its Proposal, without any further compensation or consideration to the Proposer.

In accepting the stipend, each Proposer acknowledges that the Department will have the right to inform the successful Proposer, after Award, regarding the technical contents of all Proposals for which stipends were accepted, and that the Contract or the Project may incorporate the above-described work product or concepts based thereon, even though the due date for the payment will occur after the Award date for the Contract. Furthermore, upon the unsuccessful Proposer's Acceptance of payment hereunder, this right shall extend to allow Department to use such work product in connection with projects other than the Project, as may be appropriate. However, the Department acknowledges that the use of any of the work product by the Department or the Design-Builder is at the sole risk and discretion of the Department and the Design-Builder, and shall in no way be deemed to confer liability on the unsuccessful Proposer.

Unsuccessful Proposers may elect to refuse payment of the stipend, and retain any rights to their Proposal and proprietary information contained therein that can be defended under Maine Law.

103.5.3 Return of EPDs. If the Department at its discretion, decides not to award to the Apparent Successful Proposer, or the Apparent Successful Proposer is deemed non-responsive, then the EPDs submitted will be returned unopened.

103.5.4 Protest Procedure.

103.5.4.1 Notice of Protest. To protest a determination that a Proposer is unsuccessful (and thus to protest the Award of the Contract), Proposers must file a written Notice of Protest with the Commissioner within five (5) Days of the time the protesting Proposer is considered to be unsuccessful as defined in Subsection 103.5.1 – Unsuccessful Proposer Status.

At a minimum, the Notice of Protest must contain:

- A. The specific legal and/or factual errors that the Proposer alleges were made by the Department in determining that the Proposer was unsuccessful;
- B. The specific relief sought;
- C. A request to submit additional written evidence and arguments, (if desired); and
- D. A designation of counsel or any other party that will be representing the parties in the protest (if any).

The Department will transmit a copy of said Notice of Protest to the Apparent Successful Proposer within twenty-four (24) hours of receipt.

103.5.4.2 Written Evidence and Arguments. Within ten (10) Days of the filing of a Notice of Protest conforming to Subsection 103.5.4.1 – Notice of Protest, the protesting Proposer, the Contract Representative, and the Apparent Successful Proposer must file with the Commissioner (or such other person as the Commissioner may designate in writing):

- A. all additional written evidence and arguments that the parties desire the Commissioner to consider in evaluating the protest, and
- B. a request for a Hearing, if desired. No Hearing will be held unless such written evidence and arguments are submitted by the party requesting a Hearing. Within said time period, copies of all such material submitted must be delivered to said other parties.

103.5.4.3 Hearing. If held, the Hearing will take place within ten (10) Days of the filing of written evidence and arguments by the protesting Proposer, the Contract Representative, or the Apparent Successful Proposer, whichever occurs later, at a time and place determined by the Commissioner. The parties agree to accept twenty-four (24) hour telephone notice of such Hearing. The protesting Proposer, the Apparent Successful Proposer, and the Contract Representative or their designees shall each be afforded an opportunity to be heard by the Commissioner or his designee.

103.5.4.4 Decision. Within ten (10) Days of (a) the close of the Hearing (if held), or (b) the last filing of written evidence and arguments (if no Hearing is held), the Commissioner or his designee(s) will:

- A. In writing, affirm the determination that the protesting Proposer is unsuccessful;
- B. In writing, revise, amend, or reverse said determination; or
- C. Take no action, which shall be considered an affirmation of said determination.

If protesting Proposers desire additional consideration, protesting Proposers may deliver a written request for a Dispute Review Board (DRB) proceeding as authorized under Title 23, MRSA §4244.

103.5.5 Debriefing. Within twenty (20) Days after execution and delivery of the Contract, the Department will be available for an oral debriefing session upon written request made to the Contract Representative by an authorized representative of an unsuccessful Proposer. No comparisons to Proposals submitted by other Proposers will be made during the debriefing session.

103.6 The Department's Rights. The Department may investigate the Proposal of any Proposer under consideration, may require confirmation of information furnished by a Proposer, may require additional information from a Proposer concerning its Proposal, and may require additional evidence of Qualifications to perform the work described in this RFP. The Department reserves the right, in its sole discretion, to:

- A. Investigate the Qualifications of any Proposer.
- B. Require confirmation of information furnished by a Proposer.
- C. Require additional evidence of Qualifications to perform the Work.
- D. Reject any or all of the Proposals without further obligation or reimbursement to Proposers (except as expressly set forth in Subsection 103.5.2 – Payment of Stipend).
- E. Issue Amendments to this RFP, the RFP Documents, and the RFP process. Amendments to this RFP shall be circulated to all short-listed teams in advance of the Proposal Due Date and, subject to Subsection 102.2.3.3 – RFP Amendments, the Department may extend the Proposal Due Date if such modifications are deemed by the Department to be material and substantive.
- F. Cancel or withdraw the RFP, or any part hereof.
- G. Issue a new request for final proposals for the Project.
- H. Appoint evaluation committees to review Proposals, make recommendations to the Department’s Board and seek the assistance of outside technical experts and consultants in Proposal evaluation.
- I. Revise and modify, at any time before the Proposal Due Date, the factors it will consider in evaluating Proposals and to otherwise revise or expand its evaluation methodology as set forth herein. If such revisions or modifications are made, the Department will circulate an Amendment to all short-listed Proposers setting forth the changes to the evaluation criteria or methodology. The Department may extend the Proposal Due Date if such changes are deemed by the Department to be material and substantive.
- J. Hold meetings, conduct discussions, and exchange correspondence with the Proposers to seek an improved understanding and evaluation of the Proposals.
- K. Seek or obtain data from any source that has the potential to improve the understanding and evaluation of the Proposals.
- L. Disclose information contained in the Proposals to the public as described herein unless Proposer can defend it as proprietary information under Maine Law.
- M. Approve or disapprove changes to a Proposer’s organization, key personnel, or named Subcontractors.
- N. Waive or require correction of minor deficiencies, informalities, and irregularities in the Proposals; or seek and receive clarifications to a Proposal.

- O. Disqualify any team that changes its Proposal after submission without Department approval.
- P. Not issue a NTCW after execution of the Contract.
- Q. Exercise any other right reserved or afforded to the Department under this RFP.

This RFP does not commit the Department to enter into a Contract or proceed with the procurement described herein. Except as expressly set forth in Subsection 103.5.2 – Payment of Stipend, no unsuccessful Proposer shall be entitled to reimbursement for any of its costs in connection with this RFP. All of such costs shall be borne solely by the Proposer.

In no event will the Department be bound by, or liable for, any obligations with respect to the Work until such time (if at all) as the Contract has been awarded and, then, only to the extent set forth in the Contract.

SECTION 104 - GENERAL RIGHTS AND RESPONSIBILITIES

Scope of Section. This Section sets forth certain rights and responsibilities of the Department and the Design-Builder after the execution of the Contract that are generally applicable to all Design-Build Contracts. This Section is not all inclusive and additional rights and responsibilities are set forth elsewhere in this RFP or the Contract.

104.1 General.

104.1.1 Basic Roles of the Parties. The Design-Builder has the authority and responsibility to perform all Work in Conformity with the Contract. The Department has the authority and responsibility to assure that the Design-Builder does so.

104.1.2 Joint Covenants of Good Faith and Fairness. This Contract imposes an obligation of good faith and fair dealing on both parties in the execution, performance, interpretation, and enforcement of the Contract. With a positive commitment to honesty and integrity, the Design-Builder and the Department agree to function within all applicable laws, statutes, regulations, and Contract provisions; avoid hindering each other's performance; fulfill all obligations diligently; and cooperate in achievement of the intent of the Contract.

104.2 Department's General Authority and Responsibilities.

104.2.1 Furnishing of Property Rights. The Department will acquire all necessary rights to real property within the Project Limits shown on the Survey Plans that are provided with the Proposal Documents. For related provisions, see Sections 104.3.2 – Furnishing of Other Property Rights, Licenses and Permits.

104.2.2 Furnishing of Permits. Except as provided otherwise in the Contract, the Department will furnish Permits required to perform the Work within the Project Limits. For related provisions, see Sections 101.2, Definition of Permits, 104.3.2 – Furnishing of Other Property Rights, Licenses, and Permits and 105.8.2 – Permit Requirements.

104.2.3 Authority of Department Project Manager and Resident. After Contract Execution, the Department Project Manager and/or the Resident have the authority to take all actions needed to assure that the Design-Builder is performing the Work in Conformity with the Contract. Except as provided elsewhere in the Contract, the Department Project Manager or the Resident will decide all questions regarding Work performed, suspension of Work, and the interpretation of the Contract. The Department Project Manager and/or the Resident have the authority to reject Unacceptable or Unauthorized Work and refuse to approve Progress and Final Payments until the Unacceptable or Unauthorized Work is corrected. For related provisions, see Sections 106.2.4.12 – Non-conforming Work and 109.6 – Contract Modification.

104.2.4 Authority of Residents and Inspectors. Residents, inspectors, and other Departmental employees or representatives working for the Department have the authority to make initial determinations regarding the Conformity of the Work. Unless authorized by the Department Project Manager, Residents or Inspectors are not authorized to alter or waive the provisions of

the Contract or to issue instructions contrary to the Contract. They may not act as a supervisor for the Design-Builder.

104.2.5 Right to Review Design Documents and Inspect Work. The Department may review the Design-Builder's Design Documents, including shop Drawings, product data, samples, and other submittals, but only for conformance with the Contract Documents. The Department's review does not constitute Acceptance of the design. The Department will not have control over and will not be responsible for the acts or omissions of the Design-Builder, the Design-Builder's licensed design professionals, Subcontractors, or any other persons performing any portion of the Work for the Design-Builder.

The Department has the authority to inspect all Materials and every detail of the construction of the Work. Such authority includes rejecting Work that does not conform to the Contract Documents. For a related provision, see Subsection 104.3.5 – Duties Regarding Inspection of Work by the Department or Others.

104.2.6 Right to Suspend Work. The Department has the right to suspend any or all Work at any time for any reason. For related provisions, see Subsections 105.4.4 – Maintenance During Suspension of Work and 107.5 – Suspension of Work.

104.2.7 Damage to Project Caused By Uncontrollable Events. All repairs that are required to the Project or temporary Structures because of property damage that is directly caused by an Uncontrollable Event may entitle the Design-Builder to an Equitable Adjustment if the Design-Builder complies with the notification, documentation and procedural requirements set forth in the Contract. Delays resulting from an Uncontrollable Event will be analyzed in accordance with Section 109.3 – Adjustments for Delay. For related provisions, see Sections 101.2 – Definition of Uncontrollable Event, 104.3.10 – Responsibility for Damage to Work, 109.1.1 – Added (Extra) Work, 109.3 – Adjustments for Delay, 109.5 – Equitable Adjustments to Compensation, and 109.6 – Contract Modification.

104.2.8 No Personal Liability. The Department's employees and other representatives act solely as representatives of the Department when conducting and exercising authority granted to them under the Contract. Such persons have no liability either personally or as Department employees.

104.3 Design-Builder's General Authority and Responsibilities.

104.3.1 General Duty to Cooperate. The Design-Builder shall cooperate with Departmental personnel, Utility Companies, railroad personnel, marine traffic personnel, regulating agencies with jurisdiction, other firms, municipalities, and the public, as applicable, in every reasonable way possible. For a related provision, see Section 104.4 - Communication and Coordination.

104.3.2 Furnishing of Other Property Rights, Licenses and Permits. The Design-Builder shall acquire, at its sole expense, all property rights outside the Project Limits needed for construction staging, yarding, construction, waste disposal, or other Project-related purpose. The Design-Builder shall also acquire, at its sole expense, all licenses and Permits necessary to perform the Work that are not furnished by the Department. If Right-of-Way is needed for construction, the property rights will be acquired by the Department.

For related provisions, see Subsections 104.2.1 – Furnishing of Property Rights, 104.2.2 – Furnishing of Permits, 104.3.11 – Responsibility for Property of Others, and 105.8.2 – Permit Requirements, and additional information regarding Permits in the Project Requirements.

104.3.3 Duty to Notify Department If Ambiguities Discovered. After the Award of a Contract to the Proposer, the Design-Builder is solely responsible for the design work in accordance with the Contract. As such, the Design-Builder has no right to claims for any ambiguity, error, omission, conflict, or discrepancy (“ambiguity, etc.”) contained in the Contract Documents. For a related provision, see Subsection 102.2.3.2 – Proposer’s Duty To Notify Department If Ambiguities Discovered.

104.3.4 Workers and Equipment. The Design-Builder shall at all times provide all design professionals, Superintendents, foremen, laborers, inspectors, Subcontractors, subconsultants, Equipment, Materials, and Incidentals needed to perform the Work in Conformance with the Design-Builder’s Schedule of Work and within the Contract Time.

The Department requires that Key Personnel and firms identified in the proposal be retained throughout the Contract period in the capacities proposed. If, during the Contract period, the Design-Builder determines that extraordinary circumstances require a change to any Key Personnel as initially identified in the Design-Builder’s SOI or subsequently approved by the Department, the Design-Builder shall provide a thorough explanation of those extraordinary circumstances and an explanation of all actions taken to address such circumstances, in writing, to the Contract Representative.

Examples of possible extraordinary circumstances include the death of a team member, bankruptcy, inability to perform, organizational conflict of interest, employee departure, or other such significant cause. Written requests shall include, at a minimum, the following information:

- The nature of the desired change,
- The reason for the desired change,
- A description of the actions taken to address or prevent the extraordinary circumstances,
- A statement explaining how the desired change will meet or exceed the required qualifications for the subject position/responsibility, and
- Revised and updated submission contents impacted by the desired change as described in section 5.2.

The Design-Builder must notify the Department of any change of Key Personnel within 24 hours of the Design-Builder’s actual notice of the change or potential change. The Department reserves the right to refuse a change in Key Personnel at its sole discretion. Failure to notify the Department of the change or potential change, may result in suspension of work or termination of the Contract. Upon the Department’s approval, the substitute shall be assigned to the Project. If the Department rejects the substitute, the Design-Builder shall submit the name and Qualifications of a second

substitute within five (5) Days. Such process shall be repeated until a proposed replacement meets the Department's approval.

During all hours of on-site construction activity, the Design-Builder shall provide an on-site, competent, English-speaking Project Manager experienced in the type of Work being performed. The Project Manager shall be capable of reading and understanding the Plans and Specifications, providing and receiving communications, and scheduling and coordinating the Work. The Project Manager shall have full authority to manage the Work in accordance with the Contract. Such project management must be provided regardless of the amount of Work being done by Subcontractors. The Design-Builder's Project Manager can delegate their on-site responsibility to the Design-Builder's Superintendent with approval from the Department.

All persons employed by or through the Design-Builder shall have sufficient skill and experience, and hold the necessary licenses and certifications, to perform the Work properly. The Department may require that the Design-Builder discharge any such person who the Department determines jeopardizes safety of any person or the Project without cost or liability to the Department. If the Department determines that such person's performance jeopardizes the intent of the Contract otherwise, the Department may, but is not required, to notify the Design-Builder of such a determination. Such notice, or lack thereof, does not affect the Design-Builder's duties regarding Workers. Upon Receipt of such notice, the Design-Builder shall take any action it determines necessary to fulfill its obligations under the Contract. For related provisions, see Subsections 104.5.4 – Discharge of Subcontractors, 105.1 – Intent of the Contract, and 105.2 – Health and Safety.

104.3.5 Duties Regarding Inspection of Work by the Department or Others.

- A. Safe Access. The Design-Builder shall provide the Department with safe access to all portions of the Work in Conformity with all applicable OSHA requirements. The Design-Builder shall furnish the Department with all information and assistance required to make a detailed inspection. For a related provision, see Subsection 104.2.5 – Right to Review Design Documents and Inspect Work.
- B. Inspection By Others. If any other governmental entity, Utility Company, or railroad is authorized to inspect Work, the Design-Builder must provide their representatives with safe access that Conforms to this Section.

104.3.6 Project Records. Upon request by the Department, the Design-Builder or any other person working for the Design-Builder possessing Project Records must provide the Department with copies of Project Records at all reasonable times without cost or liability to the Department. Unless the context clearly indicates otherwise, Project Records are the property of the Department. The Design-Builder must retain Project Records for at least three years after Final Acceptance or for any applicable warranty period, whichever is longer. For related provisions, see Sections 101.2 – Definition of Project Records and 111.1.6 – Design-Builder's Obligation to Keep Records.

104.3.7 Laws To Be Observed. The Design-Builder shall keep itself informed of and comply with all applicable federal and State laws, rules, regulations, orders, and decrees (“Law”) affecting the Work including all environmental, wage, labor, equal opportunity, safety, patent, copyright, or trademark laws. If provided by Contract, the Design-Builder must also comply with local Law. The Design-Builder indemnifies the Department and holds the Department harmless against any and all claims or liabilities arising from or based upon the violation or alleged violation of any such Law caused directly or indirectly by or through the Design-Builder.

104.3.8 Wage Rates and Labor Laws.

- A. Federal Wage Rates and Labor Laws. Federal wage rates apply, unless expressly stated otherwise by Project Requirements. The classification of construction type and related wage rates by the U.S. Department of Labor will be provided in Appendix A of this RFP. If not provided, the Design-Builder must contact the Department after Award to determine the applicable wage rates in accordance with Subsection 102.2.3.2 – Proposer’s Duty to Notify Department if Ambiguities Discovered. The Design-Builder must pay according to said rates and must otherwise comply with all applicable federal and State labor laws, rules, and regulations. Persons registered with the Department as trainees must be paid at least at the prevailing wage for laborer, and upon Completion of their program, trainees shall be paid the prevailing wage for the skill and classification trained.
- B. State Wage Rates and Labor Laws. Maine State wage rates apply only if provided expressly in the Project Requirements. If so provided, the classification of construction type and related wage rates established by the Maine Department of Labor will be set forth in the Appendices. The Design-Builder shall pay according to said rates and shall otherwise comply with all applicable federal and State labor laws, rules, and regulations. Title 26 MRSA § 1303 set forth various requirements about preference to Maine workers that apply to State funded Contracts. However, if a Contract is Federally funded or partially Federally funded, Federal law governs and Title 26 MRSA § 1303 does not apply. For a related provision, see 23 CFR § 635.117.

104.3.9 Patents and Copyrights. The Design-Builder must provide proof of legal Agreement with the holder of any patent, trademark, or copyright, or the Owner, if necessary, for use of any of the following: design(s), process(es), device(s), trademark(s), Material(s), and copyright(s). The Design-Builder agrees to indemnify, defend, and hold harmless the Department and any affected third party or political subdivision from all claims of infringement that arise from use of any patented or copyrighted item listed in this paragraph.

104.3.10 Responsibility for Damage to Work. Except as provided in Subsection 104.2.7 – Damage to Project Caused By Uncontrollable Events, the Design-Builder shall bear all risk of loss relating to the Work until Final Acceptance, regardless of cause, including completed Work, temporary Structures, and all other items or Materials not yet incorporated into the Work. For a related provision, see Subsection 110.3.6 – Builders Risk.

The Design-Builder shall, at its sole expense, rebuild, repair, restore, or replace such damaged Work or otherwise make good any losses that arise from such damage (“rebuilding, etc.”). If the Design-Builder fails to promptly commence and continue such rebuilding, etc., the Department may, upon forty-eight (48) hours advance written notice, commence rebuilding, etc. of the damaged property without liability to the Department with its own forces or with Contracted forces and all costs will be deducted from amounts otherwise due the Design-Builder. For the Design-Builder’s responsibilities for the Work after Final Acceptance, see Section 106.3 – Warranty Provisions.

104.3.11 Responsibility for Property of Others. The Design-Builder shall not enter private property outside the Project Limits without first obtaining permission from the Owners.

The Design-Builder shall be responsible for all damage to public or private property of any kind resulting from any act, omission, neglect, or misconduct of the Design-Builder until Final Acceptance. The preceding sentence includes damage to vehicles passing through the Work area.

The Design-Builder shall, at its sole expense, rebuild, repair, restore, or replace such damaged property or otherwise make good any losses that arise from such damage. If the Design-Builder fails to completely remedy the damage in a timely manner, the Department may, upon forty-eight (48) hours advance written notice, rebuild, repair, restore or replace the damaged property without liability to the Department with its own forces or with contracted forces, and all costs will be deducted from amounts otherwise due the Design-Builder.

104.3.12 Forest Protection and Laws. The Design-Builder shall obey all laws and regulations that govern Work within or adjacent to State or National Forests, keep the Project site orderly and clean, obtain all required Permits, prevent and assist with the suppression of forest fires, and cooperate with authorized forestry officials.

Pursuant to State law, the sale of harvested forest products must be reported to the Maine Forest Service at the end of each year. The Design-Builder is hereby designated as the Department’s agent for reporting of any such harvesting.

104.3.13 Materials and Items Found On the Project. With the Department’s approval, the Design-Builder may use suitable excavated Material in the Work. Except for Material used for riprap, stone ditch protection, and loam, the Design-Builder shall replace such excavated Material with other approved Material and properly compact it. The Design-Builder shall obtain written permission from the Department before performing any excavation outside the Project Limits.

Unless expressly provided otherwise, the Design-Builder shall remove and assume ownership of all incidental Structures and Materials to be removed such as guardrail, Drainage pipe, Culverts, curbing, Bridges, and other manufactured Materials. Utility Facilities, traffic control devices, and lights, together with all supporting Structures, are excluded from the provisions of this Subsection. The cost of removal of all Structures and Materials, excluding active utility infrastructure, is Incidental to the Contract regardless of the ultimate ownership of said removal items.

104.3.14 Interpretation and Interpolation. The Design-Builder is responsible for all interpretations and interpolations made from information provided in the RFP Documents and

Contract, including data and test results related to location, survey, hydrology, hydraulics, soils, ledge quality, existing Structures, Environmental Information, and Geotechnical Information. For related provisions, see Subsections 102.2.2 – Examination of Documents, Site, and Other Information; 102.2.3.2 – Proposer’s Duty To Notify Department If Ambiguities Discovered; 104.3.3 – Duty to Notify Department If Ambiguities Discovered; and 105.6 – Design and Construction Surveying.

104.4 Communication and Coordination. The Design-Builder will prepare minutes of all meetings and distribute them to all attendees. Any requests to revise the minutes must be made to the Design-Builder within five (5) Days of Receipt. These minutes will constitute the final record of the meeting.

104.4.1 Partnering.

- A. Definition, Purpose, and Applicability. Partnering is a process of voluntary structured communication between the Department, the Design-Builder, its principal Subcontractors and suppliers, and other Project Stakeholders for the purpose of improving efficiency and minimizing Disputes. Partnering, including the establishment of a partnership charter, does not in any way waive, alter, or otherwise affect any provision of the Contract. For a related provision, see Subsection 111.1.3 – Relationship to Partnering.

Participation in Partnering is mandatory. The associated costs of Partnering will be agreed to mutually and shared equally. The Design-Builder shall include, in its Proposal, costs associated with travel, labor, lodging, etc. for their employees and subcontractors for participation in Partnering. The Design-Builder shall not include costs in their Proposal for the Department’s efforts in Partnering.

- B. Initial Partnering Workshop. Representatives from both the Design-Builder and the Department will arrange a facilitated initial Partnering Workshop, which shall be held before the start of on-site construction. The Department Project Manager and/or the Resident and the Project Manager will determine Workshop attendees, the facilitator, agenda, duration, and location. Key Project level supervisory personnel, corporate/State level management personnel, and key Project personnel of the Design-Builder’s principal Subcontractors and suppliers shall attend. Project design Engineers, FHWA, local government representatives, environmental regulators, emergency service personnel, Utility Companies, impacted business and/or landowners, and other Stakeholders may also be invited to attend. The product of the initial Partnering Workshop will be a partnership charter. This charter will include mutually agreed upon Project goals and communication escalation procedures.
- C. Follow-Up Workshops. The Design-Builder and the Department may agree to hold follow-up Partnering Workshops periodically throughout the duration of the Contract.

104.4.2 Pre-activity Meetings. The Design-Builder shall prepare an agenda and arrange pre-activity meetings prior to the commencement of all major work activities including design. Attendees must be shown on the agenda and agreed to by the Department. The Design-Builder shall notify all attendees forty-eight (48) hours in advance of the meeting.

104.4.3 Preconstruction Meeting. After the Contract has been executed and before the start of on-site construction by the Design-Builder, the Design-Builder will schedule a Preconstruction Meeting that must be attended by the Department and the Project Manager. Others may be invited to attend, including Subcontractors, FHWA, local government representatives, environmental regulators, public relations firms, emergency service personnel, Utility Companies, municipal officials, impacted business representatives and/or landowners, or other Project stakeholders. Meeting agenda shall be established by the Design-Builder and agreed to by the Department prior to the meeting.

The Design-Builder will prepare minutes of the Preconstruction Meeting and distribute them to all attendees and invitees. Any requests to revise the minutes must be made to the preparer within 5 Days of Receipt. These minutes will constitute the final record of the Preconstruction Meeting.

104.4.4 Progress Meetings. Except as provided otherwise in this Subsection 104.4.4 – Progress Meetings shall be held at regular intervals, but at least monthly, throughout the duration of the Contract. The Design-Builder shall establish and the Department will agree upon the agenda for each Progress Meeting. All personnel of the Department and the Design-Builder who have significant information relevant to agenda items shall attend. Others may be invited to attend including Subcontractors, FHWA, municipal officials, environmental regulators, emergency service personnel, Utility Companies, impacted landowners, impacted business representatives, public relations firms, or other Project Stakeholders.

In lieu of a Progress Meeting, the Department Project Manager and the Project Manager shall exchange written communication by letter, fax, or e-mail before or on the scheduled Progress Meeting date that indicates there is no need for the meeting because the Work is on schedule, compensation is current, communication is ongoing, and there are no significant outstanding or anticipated issues, disputes, or claims. The Project Manager’s written communication shall also contain a description of:

- A. progress of the Project since the last Progress Meeting or communication in lieu thereof, and
- B. expected activities before the next scheduled Progress Meeting.

104.4.5 Early Negotiation.

- A. Notice Required. When the Design-Builder becomes aware of facts or circumstances (“Issue”) that may cause the Design-Builder to seek additional compensation, time, or any other change in Contract requirements, then the Design-Builder shall notify the Department within forty-eight (48) hours and before commencing any part of the Work relating to the Issue. The notice must describe the basic nature and extent of the Issue.

Such notice may be verbal only if confirmed in writing in one of the two following ways:

1. If a Progress Meeting is held within ten (10) Days of the date that the Issue became known, such Notice may be confirmed with an entry in the Progress Meeting minutes. Such entry must describe the basic nature and extent of the Issue.
2. Otherwise, the Design-Builder shall confirm a verbal notice by Delivering to the Resident, within ten (10) Days of the date the Issue arose, a written Notice that describes the basic nature and extent of the Issue.

The written notice or confirmation will be known as a “Notice of Issue for Consideration”. The Design-Builder will not be entitled to any additional compensation, time, or any other change to Contract requirements without a timely Notice of Issue for Consideration.

- B. Negotiation. When the Department receives the Notice of an Issue for Consideration Conforming to Subsection 104.4.5.A – Early Negotiation, Notice Required, the Department and the Design-Builder will negotiate in good faith to attempt to resolve the Issue. Any resolution will be noted in the Progress Meeting minutes or confirmed otherwise in writing by the Department. Any changes to the Contract that affect compensation, time, quality, or other Contract requirements shall be by written Contract Modification as provided by Section 109.6 – Contract Modifications.

For related provisions, see Sections 109.3 – Adjustments for Delay and 109.5 – Equitable Adjustments to Compensation.

- C. Additional Consideration. If negotiation fails to resolve the Issue within forty-five (45) Days of the date the Department receives the Notice of Issue for Consideration, and if the Design-Builder desires additional consideration by the Department, then the Design-Builder must comply with Subsection 111.2.2 – Detailed Notice of Dispute and all other requirements of Section 111 – Resolution of Disputes.

104.4.6 Utility Coordination.

- A. Pre-construction Utility Meeting. A pre-construction utility meeting will be held to coordinate the Work of the Design-Builder and the Work of affected Utility Companies. Usually this meeting will be held on the same day as and immediately before the pre-construction Meeting provided by Subsection 104.4.3 – Pre-construction Meeting but, in any event, will be held before the start of on-site construction by the Design-Builder that affects Utility Facilities. The Department, the Design-Builder’s Superintendent, Subcontractors as required, and a representative of each affected Utility Company will attend. The Design-Builder shall prepare minutes of the pre-construction utility meeting and distribute them to all attendees. Any requests to revise the minutes must be made to the Design-Builder within five (5) Days of distribution. These minutes will constitute the final record of the meeting. For a related provision, see Subsection 104.4.3 – Pre-construction Meeting (s).
- B. Utilities Within Right-of-Way. Except as otherwise provided in the Project Requirements, all Utility Facilities of all Utility Companies within the Right-of-Way will be relocated and adjusted as provided in the Contract by and at the expense of the affected Utility Company, provided, however, that the Design-Builder is responsible for scheduling its Work in

accordance with the time allowed for utility relocation as provided in the Contract. Utility relocation Work shall not proceed without authorization from the Department.

C. Design-Builder's Responsibilities.

1. The Design-Builder must exercise every reasonable precaution to prevent damage to Utility Facilities or interruption to utility services known to or discovered by the Design-Builder, whether or not shown on the Plans. Such precautions must include notice to Utility Companies before undertaking Work that could damage Utility Facilities. The Design-Builder must provide each Utility Company with notice at least three (3) Days before the date a Utility Company will have to support any pole.
2. The Design-Builder must take all reasonable precautions to determine the presence of underground Utility Facilities before commencing any excavation Work and must provide all affected Utility Companies with at least seventy-two (72) hour prior notice of the proposed excavation. The Design-Builder must comply with 23 MRSA §3360-A, entitled "Protection of Underground Facilities," Maine's "Dig Safe" statute.
3. The Design-Builder must maintain initial markings (spray paint, stakes, etc.) made by the authorized representative of a Utility Company to indicate the location of underground Utility Facilities and otherwise comply with 23 MRSA §3360-A(4).
4. The Design-Builder must cooperate with Utility Companies in their relocation or operations so that these operations proceed in a logical sequence, minimize duplication of Work, and avoid unnecessary interruptions to utility service.
5. If utility services are interrupted as a result of the Design-Builder's Work, the Design-Builder must promptly notify the appropriate utility company and must cooperate fully in the restoration of service. If service is interrupted, repair Work will be continuous until the service is restored. No Work can be undertaken around fire hydrants until the local fire authority has approved provisions for continued services. Costs for restoration of interrupted utilities caused by the Design-Builder operations shall be borne by the Design-Builder.
6. If blasting occurs on the Project, the Design-Builder must provide each utility company having Utility Facilities that could be damaged by the blast with at least twenty-four (24) hour prior notice that includes the anticipated time of the initial blast.
7. If the Design-Builder observes a Utility Company working within the Project Limits in a manner that (a) obviously violates the MUTCD, the Design-Builder's Traffic Control Plan, or an applicable OSHA requirement or commonly accepted safety practices, and (b) represents a clear and immediate risk of significant bodily injury to any person within the Project Limits, then the Design-Builder must notify the Resident and the Utility Company immediately.
8. The Design-Builder shall give written notice to all public service corporations or officials having charge of publicly or privately owned utilities of its intention to commence operations affecting such utilities at least one week in advance of the

commencement of such operations and at that time the Design-Builder shall file a copy of the notice with the Department.

9. Design-Builder shall be responsible for verifying that the utility, as designed and constructed, is compatible with and interfaces properly with the Project. The Design-Builder shall also be responsible for confirming that all appropriate Governmental Approvals have been obtained by each Utility Company that may be performing any utility work and for verifying that such work complies with the requirements of the applicable Governmental Approvals. The Design-Builder shall immediately notify the Department if the Design-Builder has reasonable cause to believe that the Utility Company does not have, or is in violation of any Governmental Approval. If required, the Design-Builder shall provide written certification that utility relocation has been coordinated with all existing utilities.
 10. The Design-Builder shall make diligent efforts to obtain the cooperation of each Utility Company as necessary for the Project. The Design-Builder shall immediately notify the Department if the Design-Builder becomes aware that a Utility Company is not cooperating in providing needed Design-Build Work or approvals. After such notice, the Design-Builder shall continue to diligently seek to obtain the Utility Company's cooperation, and shall assist the Department as reasonably requested by the Department with regard to the problem. The Department agrees to use its reasonable efforts (including taking action to exercise any rights the Department may have with such Utility Company) to assist the Design-Builder in obtaining the cooperation of the Utility Companies, but such assistance shall not be deemed to relieve the Design-Builder of its sole and primary responsibility for the satisfactory compliance of its obligations set forth in the Contract Documents.
 11. The Design-Builder shall comply with all applicable Environmental Laws and requirements in performance of the utility work, including those set forth in the Project Requirements. The Design-Builder shall be responsible for performance of all environmental mitigation requirements of the Environmental Approvals. The Price Proposal shall include compensation for the Design-Builder's performance of all such mitigation measures.
 12. The Design-Builder shall not enter into any agreement with any Utility Company that purports to bind the Department in any way, nor shall any such agreement be deemed to modify the terms of the Contract.
 13. The Design-Builder agrees to indemnify, defend, and hold harmless the Department from and against any and all claims or causes of action to the extent arising from any act or omission of the Design-Builder, the Subcontractors or their respective agents, representatives, or employees for failure to comply with this Subsection 104.4.6.
- D. Unforeseeable Utility Relocations. If the Department orders utility adjustments, such adjustments must be in accordance with Subsection 109.2.1 – Differing Site Conditions.

104.4.7 Cooperation With Other Contractors. The Department reserves the right to Contract for, perform, or allow other Work to be performed within or near the Project Limits. The Design-Builder must take all reasonable steps to avoid interfering or hindering such other Work. The Design-Builder must cooperate with Contractors or others performing such other Work as directed by the Department.

If the basic nature and scope of such other Work is provided or referenced in the RFP Documents or is otherwise known or foreseeable to the Design-Builder, then the Design-Builder assumes all risks and liability associated with such other Work and shall indemnify and hold harmless the Department from all claims related to such other Work that arise from the Design-Builder's acts or omissions.

104.4.8 Coordination with Railroads.

When the basic nature and scope of railroad coordination requirements is provided or referenced in the Project Requirements or is otherwise known or foreseeable to the Design-Builder, then the Design-Builder assumes all risks and liability associated with said requirements and the Design-Builder shall indemnify and hold harmless the Department from all claims related to the maintenance or obstruction of railroad traffic that arise from the Design-Builder's acts or omissions.

The Design-Builder shall:

- A. perform Work within a railroad Right-of-Way without interfering with trains or railroad company traffic and
- B. coordinate all Work crews and the Design-Builder's Schedule of Work to accommodate the railroad company Work.
- C. The Design-Builder shall, at its expense, negotiate and enter into any other agreements with the railroad. See the Project Requirements for more information regarding coordination with the railroad.

104.4.9 Coordination with Marine Traffic. The Design-Builder shall not interfere with free and safe navigation of navigable waters except as provided by permit issued by the US Coast Guard and other applicable regulatory agencies. All Work must comply with all US Coast Guard permit conditions and all applicable Federal regulations affecting navigation.

When the basic nature and scope of marine traffic requirements is provided or referenced in the Project Requirements or is otherwise known or foreseeable to the Design-Builder, then the Design-Builder assumes all risks and liability associated with said requirements and the Design-Builder shall indemnify and hold harmless the Department from all claims related to the maintenance or obstruction of marine traffic that arise from the Design-Builder's acts or omissions.

104.4.10 Coordination of Bridge and/or Highway Closure/Bridge Width Restriction Notification. The Department's Office of Communication will assist in determining the extent of public outreach required and shall be given ample time to review and approve any paid advertisements on radio or in print, all press releases and all web content. In addition to the

public information plan described in the Project Requirements, the design-builder shall be responsible for all coordination and associated costs required for the development of public outreach materials, including, but not limited to, advertisements, radio ads, posters, brochures, and social media posts. When a bridge or highway closure or width restriction is allowed by the Contract, prior to a closure or to a bridge width restriction to a single Lane less than fifteen(15) feet, the Design-Builder shall notify effected public officials, agencies, other entities and the public of the date on which the closure/width restriction will begin and the anticipated duration of the closure/restriction, as indicated below.

A paid display advertisement shall be placed in a local newspaper for three (3) consecutive Days prior to the beginning of the closure/restriction and intermittently throughout the closure depending on the duration.

The closure/restriction advertisement shall be placed on a local radio station during the week of the closure/restriction. The advertisement shall run a minimum of three times daily. The closure will also be announced on portable/changeable message signs, placed in approved locations, beginning at least ten (10) Days prior to the closure. Advance warning signs shall be placed so the traveling public is aware of the restrictions in place. They shall be placed at enough distance from the restriction so vehicular traffic can be rerouted to an alternate route.

The Design-Builder shall notify the following public officials, agencies, and organizations ten (10) Days prior to, and then again the day before, of the date of the beginning of the closure/restriction and the anticipated length of the closure/restriction. When the bridge or highway is reopened/unrestricted to traffic, the following list will again be notified. The Design-Builder shall provide the Department with documentation that the listed public officials, agencies and organizations received the notification at least ten (10) Days prior to the closure/restriction or with proof that the notification was mailed fifteen (15) Days prior to the closure/restriction.

- A. Town Officials (Manager or First Selectperson)
- B. Representative or County Commissioners (If Unorganized Townships)
- C. County Sheriff's Department
- D. Fire Department
- E. Police Department
- F. State Police
- G. Emergency Service
- H. School Department
- I. Post Office
- J. Chamber of Commerce

- K. Any Large Employers
- L. Any Regional Woods-Related Trucking Companies
- M. Mobile or Modular Home Movers, Manufacturers, and Dealers
- N. Bureau of Motor Vehicles – Over Size/Over Weight Permits
- O. MaineDOT Radio Room
- P. MaineDOT Regional Office

All notifications will be subject to the approval of the Resident. All costs not covered by Pay Items will be considered incidental to the Contract.

104.5 Subcontracting.

104.5.1 Limits on Subcontracting. The Design-Builder shall perform at least thirty percent (30%) of the value of the Work with its own Work force, excluding any percentage performed by Disadvantaged Business Enterprises in satisfaction of specific Contract goals (if any).

The Design-Builder shall not carry the Workers of another recognized Contractor or firm on its payroll or a Subcontractor's payroll. The Design-Builder shall not use any Subcontractors that are debarred from submitting a Proposal by the Federal Government or any agency of the State of Maine.

104.5.2 Design-Builder's Duties Regarding Subcontractors. The Design-Builder is responsible for assuring that its Subcontractors (including design consultants) have sufficient skill and experience, and professional qualifications and licenses, to perform the Work properly and for coordinating and managing its Subcontractors to achieve the intent of the Contract. Except as provided otherwise in this Contract, the Design-Builder waives all claims arising from failure to coordinate and manage its Subcontractors and indemnifies and hold harmless the Department from any such claims. Subcontracting does not alter the Design-Builder's obligations under the Contract. For a related provision, see Section 105.1 – Intent of the Contract.

104.5.3 Documentation Regarding Subcontracting. Within fifteen (15) Days of Contract Execution and before any Work is performed by a Subcontractor, the Design-Builder shall provide the Department a Subcontract approval package which shall include:

- A. A list of all Subcontractors, not identified in the Proposal or SOI, that the Design-Builder anticipates will be providing Work within the Project Limits and a general description of the items of Work that will be performed by each Subcontractor.
- B. A written certification by the Design-Builder that:
 - 1. no Subcontractors are debarred from bidding by the Federal Government or any agency of the State of Maine, and

2. all subcontracts with Subcontractors contain or incorporate by reference all applicable portions of the Contract including the federal provisions contained in Appendix A to the Design-Build General Conditions, if applicable.

The Design-Builder shall continuously update the list referenced in (A) above and provide it to the Department throughout the duration of the Project.

If requested by the Department, the Design-Builder shall provide the Department with copies of any subcontract or other document that establishes the relationship of the Design-Builder and any Subcontractors.

104.5.4 Discharge of Subcontractors. The Department, upon written notice to the Design-Builder, may require that the Design-Builder discharge any Subcontractor without cost or liability to the Department. If the Department determines that a Subcontractor's performance jeopardizes the intent of the Contract otherwise, the Department may, but is not required, to notify the Design-Builder of such a determination. Such notice, or lack thereof, does not affect the Design-Builder's duties regarding Subcontractors. Upon Receipt of such notice, the Design-Builder shall take any action it determines is necessary to fulfill its obligations under the Contract. For related provisions, see Subsections 104.3.4 – Workers and Equipment, 104.5.2 – Design-Builder's Duties Regarding Subcontractors, 105.1 – Intent of the Contract, and 105.2 – Health and Safety.

104.5.5 Prompt Payment of Subcontractors.

Pay When Paid. The Design-Builder shall pay Subcontractors for all Work satisfactorily performed and invoiced by the Subcontractor no later than twenty (20) Days from the date the Design-Builder receives payment from the Department for such Subcontractor's Work. Design-Builder will ensure that its Subcontractors pay all Sub-Subcontractors, including suppliers and materialmen, no later than twenty (20) day Days from the date that they receive payment from the Design-Builder.

Retainage. The Design-Builder shall return to the Subcontractor all retainage withheld from the Subcontractor within twenty (20) Days after the date the Subcontractor's Work is satisfactorily completed. If there is a Delay in such return of retainage, the Subcontractor may pursue all rights it may have under the claims procedure referenced in Subsection 104.5.6 – Subcontractor Claims for Payment.

Payment Tracking Federal Projects. On federally funded projects, the Design-Builder, Subcontractors, and lower-tier Subcontractors will track and confirm the delivery and receipt of all payments through the Elation System. They will be responsible for entering all payments to all Subcontractors and lower-tier Subcontractors. The Department will run a query monthly to ensure that Design-Builders are complying and generate an e-mail to Design-Builders who have not responded to confirm receipt of Department payment or Design-Builder payment to Subcontractors and lower-tier Subcontractors.

104.5.6 Subcontractor Claims for Payment. The Design-Builder agrees to notify all Subcontractors of the claim filing procedure of Payment and Performance Bonds required by 110.2.1 - Bonds. The Department may use retainage and other remaining project funds to pay outstanding claims for Accepted Work.

104.5.7 Flow Down. All subcontracts of the Design-Builder, and all lower tier subcontracts, shall contain or reference all applicable provisions of the Contract, including, but not limited to, all safety, wage, Prompt payment, labor, environmental, equal opportunity, and insurance provisions. The Design-Builder shall indemnify, defend, and hold harmless the Department against any and all claims or liabilities arising from the failure to include such flow down provisions and agrees that any such claims and liabilities may be paid by the Department using retainage on other Project funds.

104.5.8 No Third Party Beneficiaries. The Design-Builder and the Department agree that this Contract is not intended to create any third-party beneficiaries or to authorize anyone not a party to the Contract to maintain an action under Contract provisions.

104.5.9 Landscape Subcontractors. The Design-Builder shall retain only Landscape Subcontractors that are certified by the Department's Highway Program.

104.5.10 Warranty and Maintenance Bonds. Warranty and Maintenance Bonds may be required of a Subcontractor for specified items that the Department deems appropriate. Refer to the Project Requirements to determine whether warranty or maintenance bonds are required. The Design-Builder shall provide a copy of said bond to the Department before the performance of any affected on-site Work. Should a Subcontractor be required to provide a Warranty or Maintenance Bond, the Design-Builder hereby authorizes the Department to directly contact the Subcontractor(s) in question and/or its Surety in the event of a failure of the bonded item to perform as specified.

SECTION 105 - GENERAL SCOPE OF WORK

Scope of Section. This Section contains Work requirements that are generally within the scope of all Projects. These include provisions related to design, health and safety, traffic control, maintenance of Work, hauling of Materials and Equipment, construction surveying, plans, Working Drawings, the environment, historic and archeological considerations, equal opportunity and civil rights, and other federal requirements. This Section is not all-inclusive. The scope of these items is often described more specifically and fully elsewhere in the Contract and in other specific items that appear elsewhere.

This Contract is federally funded, unless expressly provided otherwise in the Contract Documents. As a federally funded Contract, it includes all federal requirements set forth in Appendix A to the Design-Build General Conditions.

105.1 Intent of the Contract. The intent of the Contract is to provide for the design, construction, and Completion of a functionally complete Project in Conformity with the Contract. The Design-Builder shall furnish all Work to achieve this intent including all Work that may be reasonably inferred to be required from the Contract or from prevailing industry or trade custom, whether or not specifically called for.

105.1.1 Project Scope. The anticipated scope of work to be performed by the successful Proposer under the Design-Build Agreement for this Project may include, but not be limited to, the following:

- A. interpretation and evaluation of geotechnical data,
- B. design development,
- C. compliance with all necessary permits and approvals,
- D. final Right-of-Way mapping,
- E. coordination and execution of required utility relocations and adjustments,
- F. bridge construction,
- G. Roadway construction,
- H. Quality Assurance and Quality Control for design and construction,
- I. existing bridge demolition,
- J. maintenance and protection of traffic during construction, and
- K. overall project management.

Brief descriptions of this anticipated work are set forth below, with more detailed requirements provided in the Project Requirements.

105.1.1.1 Anticipated Design Services. Unless otherwise specified in the Project Requirements, design services may include, but are not limited to:

- A. surveying;
- B. geotechnical investigation and analysis;
- C. hydraulic and hydrologic analysis;
- D. scour analysis;
- E. bridge design;
- F. pavement design;
- G. highway and traffic engineering;
- H. utility protection and relocation; and
- I. design of any other necessary elements, such as:
 - a. signs,
 - b. pavement markings,
 - c. Drainage facilities,
 - d. stormwater management facilities,
 - e. lighting, and
 - f. landscape treatments.

Design and subsurface information provided by the Department is for reference purposes only and must be validated and augmented as necessary to provide the final design. Any additional investigative information that the Proposer may need for its particular design shall be included in the Proposer's Technical Proposal and Price Proposal.

105.1.1.2 Anticipated Right-of-Way Services. Unless otherwise specified in the Project Requirements, the Design-Builder shall be responsible for all work necessary to complete final Right-of-Way mapping deemed necessary for the Project, so the Department can proceed with negotiation and acquisition procedures. The Design-Builder shall provide assistance and support to the Department during acquisition negotiations. All Right-of-Way acquisition and relocation costs related to compensating landowners for property will be paid by the Department, and shall not be included in the Proposer's Price Proposal.

The Department will review the Existing Conditions Plans and Final Right-of-Way Maps developed and submitted by the Design-Builder and will approve temporary acquisitions necessary for reasonable access to the work. The Design-Builder is responsible for additional or alternative

means of access to the work which may provide more convenience to the Contractor, but beyond what the Department determines necessary for the project. Any temporary rights required to accommodate staging and storage areas shall be the sole responsibility of the Design-Builder.

105.1.1.3 Utility and Other Third Party Coordination. Unless otherwise specified in the Project requirements, services shall include identification of and coordination with all third parties affected by the Project, including utilities, municipalities, and railroads. As part of its coordination responsibilities, the selected Design-Builder shall be responsible for resolving all utility, municipal, railroad, and other third party conflicts resulting from the construction of the Project.

Relocation costs for utilities shall not be included in the Price Proposal. No additional time or compensation will be granted for delays, inconvenience, or other damages sustained by the selected Design-Builder or its subcontractors due to interference or lack of cooperation from the utility companies or other third parties associated with the relocation and/or protection of utilities and/or facilities during construction, other than as specified in Section 109.3 – Adjustments for Delay.

105.1.1.4 Anticipated Construction Services. Unless otherwise specified in the Project Requirements, construction services may include, but are not limited to:

- A. roadway,
- B. civil/site,
- C. bridge and structures work;
- D. traffic control devices;
- E. the demolition and removal of the existing bridge and approaches;
- F. all necessary foundation work, substructure work, and excavation;
- G. drainage;
- H. utility relocations and coordination, erosion and sediment control; and
- I. compliance with all Federal, state, and local rules and regulations applicable to the Work. Proposers will also be expected to provide construction management services, work zone traffic management, and Quality Assurance and Quality Control.

105.1.1.5 Anticipated Environmental Services. Unless otherwise specified in the Project requirements, environmental services shall include, but are not limited to, compliance with the provisions of all environmental permits (provided in RFP Part 2/Project Requirements), compliance with stipulations and conditions under which the Department completed

National Environmental Policy Act (NEPA) review (provided in RFP Part 2/Project Requirements).

Project Plans shall be submitted in a timely fashion that will allow for review and as necessary, coordination/consultation with federal and state resource agencies and the Maine Historic Preservation Commission to confirm compliance with permits and NEPA requirements. The Department will be responsible for processing any necessary modification of permit approvals and NEPA reviews; however, the selected Design-Builder will be solely responsible for all schedule delays resulting from modifications or re-evaluations required to accommodate the Proposer's design and all associated costs incurred due to such schedule delays and the development of permit modifications or NEPA re-evaluations.

The selected Design-Builder shall be responsible for compliance with all permit terms and conditions, including the costs incurred in performing compliance activities. Fines associated with environmental permit or other regulatory violations shall be the responsibility of the selected Design-Builder.

105.2 Health and Safety.

105.2.1 Safety Responsibility. The Design-Builder has the overall authority and responsibility to maintain safety of its employees and of all other persons in the work area or on the worksite. The Design-Builder shall provide all safeguards, safety devices, and protective Equipment and take all other action that is necessary to continuously and effectively protect the safety and health of all persons from hazards related to the Work. Such safeguards include providing a sufficient number of security guards.

105.2.2 Design-Builder's Health and Safety Plan. Prior to award, a copy of the Design-Builder's Health and Safety Plan must be on file with the Contracts Section of the Department as a condition of Award. A copy of the Safety Plan will be provided to the Department's Contracts Section in an electronic format prior to Contract Award. The Design-Builder shall designate which portions such submissions it considers confidential business information. If such plan is revised during the Contract Time, the Design-Builder shall provide the updated plan to the Department. The Design-Builder shall comply with its safety plan and this Section 105.2 – Health and Safety. The Design-Builder shall be responsible for all claims or damages arising from failure to so comply and to indemnify, defend, and hold harmless the Department from all claims and damages arising from such non-compliance.

105.2.3 Project Specific Emergency Planning. Unless the Contract provides for closure of an existing facility, the Design-Builder shall ensure that essential police, fire, rescue, and ambulance services have reasonable and timely access to and through the Project Limits. The Design-Builder shall contact all emergency service providers in the area, discuss potential impacts on emergency operations (including water supply for fire suppression), and minimize any negative impacts. Fire hydrants within or adjacent to the Project Limits shall be kept accessible to fire apparatus at all times, unless the fire Department agrees otherwise in writing. For a related provision, see Subsection 104.3.12 – Forest Protection and Laws.

If the nature of the Work involves deep trenching, confined spaces, toxic chemicals, or any other unusual hazards that could require specialized rescue, the Design-Builder shall inform and cooperate with the appropriate fire Department, rescue service, or EMS.

The Design-Builder shall provide the Department with and post and maintain in conspicuous places within the Project Limits, a list containing:

- A. emergency response numbers with the names and telephone numbers (including cellular phone and pager numbers, if applicable) of local ambulance, police, fire, rescue, and hospitals;
- B. emergency response numbers for hazardous Materials spills as required by Subsection 656.3.4(f) – Spill Prevention of the Standard Specifications;
- C. the Design-Builder’s personnel with phone numbers who may be reached in case of emergency; and
- D. the Department’s personnel with phone numbers who may be reached in case of emergency.

105.2.4 Unsafe Conditions. The Design-Builder will immediately eliminate all unsafe conditions brought to the Design-Builder’s attention by the Department Resident or any other Department staff. If the Design-Builder or the Department actually observes any person(s) performing Work in a manner that:

- A. the observing party actually knows is not in compliance with the MUTCD, the Design-Builder’s TCP, an applicable OSHA requirement, or commonly accepted safety practices; and
- B. creates a clear and immediate risk of significant bodily injury to any person, then the observing party shall immediately notify such person(s) working in an unsafe manner and the other party to the Contract.

The Design-Builder and the Department agree to cooperate in eliminating all such unsafe conditions. For related provisions, see Subsections 104.3.4 – Workers and Equipment, 104.4.6 – Utility Coordination, 105.3 – Traffic Control and Management, and 105.4 – Maintenance of Work.

105.2.5 Compliance with Health and Safety Laws. The Design-Builder has the authority and responsibility to ensure compliance with all applicable federal, State, and local laws governing safety, health, and sanitation, including all applicable laws and regulations of OSHA. The Design-Builder shall comply with these laws and regulations and ensure compliance by its subcontractors. The Design-Builder is responsible for correcting any health and safety violations. For related provisions, see Sections 105.2.3 – Project Specific Emergency Planning, 105.3 – Traffic Control and Management and 105.4 – Maintenance of Work.

105.2.6 Convenience of the Public.

At all times the Design-Builder shall perform the Work to minimize obstructions to pedestrian, vehicular, railroad, and marine traffic. All temporary pedestrian access ways must comply with the ADA. Footways, gutters, sewers, inlets, and portions of the Highway adjacent to the Work must not be obstructed unless allowed by the Contract.

If the Design-Builder receives notice from the Department that the Design-Builder has failed to comply with the provisions of this Section 105.2 – Health and Safety, the Design-Builder shall remedy such non-compliance immediately. If the Design-Builder fails to do so, the Department may remedy such non-compliance by any means and deduct the cost of the remedy from amounts otherwise due the Design-Builder.

For related provisions, see Subsections 105.2.3 – Project Specific Emergency Planning, 105.3 – Traffic Control and Management, and 105.4 – Maintenance of Work.

105.2.7 Use of Explosives.

- A. Standards. When using explosives, the Design-Builder shall use the utmost care to protect life and property. Explosives must be transported, stored, and used in compliance with this Contract, in compliance with all applicable Federal, State, and local laws, rules and regulations, and in accordance with all applicable provisions of the latest version of the Blasters' Handbook published by the International Society of Explosives Engineers (ISEE) of Cleveland, Ohio. In any case, the Design-Builder shall comply with the recommendations contained in Chapter 13 – “Blasting Safety” of said Blasters' Handbook, unless a qualified person conducting the blasting operations for the Design-Builder certifies to the Department in writing that certain provisions of said Chapter 13 are not necessary to protect life and property.
- B. Blasting Zone – Signage and Flaggers. The Design-Builder shall define a blasting zone. When using electric detonators, the blasting zone must allow safe distances from radio transmitters based upon their power output frequency. The blasting zone must include all areas within which people could be injured or property could be damaged by the blast. The Design-Builder shall mark Highways conspicuously at the perimeter of the blasting zone with signs in accordance with MUTCD. If applicable, the Design-Builder shall place signage along railroads and appropriate notice shall be provided to marine traffic. The Design-Builder shall provide a sufficient number of flaggers stationed outside the blasting zone to stop all approaching traffic during blasting operations. The Design-Builder shall comply with the Clean Water Act Section 404 Permit and the Endangered Species Act (ESA) Incidental Take Statement conditions regarding any use of explosives on/for this project.
- C. Other Requirements. The Design-Builder shall provide to the Department general liability insurance coverage covering use of explosives in accordance with Section 110.3.2 – Commercial General Liability. Immediately after the blast, The Design-Builder shall remove any debris that is obstructing Highway, pedestrian, railroad, or marine traffic flow. The Design-Builder shall not use perchlorate in its blasting operations. For related provisions, see Sections 104.4.6(C)(6), 104.3.11 – Responsibility for Property of Others,

and 110.1 – Indemnification, 110.3.2 – Commercial General Liability and Spec 203.042 Rock Excavation and Blasting.

105.3 Traffic Control and Management. The Design-Builder shall provide continuous and effective traffic control in compliance with Section 652 – Maintenance of Traffic of the Standard Specifications.

105.3.1 Notices Required. The Design-Builder shall plan paving operations so that the Resident will have sufficient advance notification to provide the necessary inspection and testing. Sufficient notification will be considered forty-eight (48) hours. In the event that paving is suspended, the 48-hour advance notification shall be required again before restarting the paving operations unless otherwise agreed by the Resident. A verbal warning will be given before starting the offense process for paving notification.

The Design-Builder shall plan granular material operations so that the Resident will have sufficient advance notification to provide a proctor for the Material to be placed. Sufficient notification will be considered seven (7) days. Changes in source will also require this notification.

Failure to provide the above notifications will result in the following actions:

- A. First offense – verbal warning
- B. Second offense – written warning
- C. Third and subsequent – Liquidated Damages will be charged for one (1) Calendar Day

105.4 Maintenance of Work.

105.4.1 Maintenance During Construction. The Design-Builder shall maintain the Project and all related Work in a safe and satisfactory condition until Final Acceptance. Such maintenance requires continuous and effective Work conducted daily.

Trenches. Where existing pavement carries traffic and is removed, the pavement shall be replaced daily with a temporary pavement consisting of a minimum of three inches of acceptable hot or cold bituminous mixture. Cold bituminous mixture shall contain Aggregates, asphalt cutbacks, liquefiers, and wetting agents. No separate payment will be made for furnishing, placing, maintaining, and removing temporary pavement, and all cost of such work will be considered Incidental to the Contract.

Before placing any permanent pavement over backfilled trenches, the edge of the adjoining existing pavement shall be cut even and vertical, and coated with tack coat to form a tight joint between the new and the existing pavements. The permanent pavement depth and type (HMA or PCC) will match the existing Roadway structure. No separate payment will be made for cutting and tack coating the joint.

If the Design-Builder fails to meet the conditions of Section 105.4.1, the Department will notify the Design-Builder of such failure. The Design-Builder shall remedy such failure within four (4) hours after receiving such notice. If the Design-Builder fails to do so, the Department may remedy

the situation with its own or contracted forces without liability to the Department and all costs will be deducted from amounts otherwise due to the Design-Builder. When the Contract involves placing Material on, or use of previously constructed subgrade, base course, pavement, or structure, the Design-Builder shall maintain such previously constructed Work in a safe and satisfactory condition until Final Acceptance.

Except as expressly provided otherwise in the Contract, the cost of complying with this Section 105.4.1 is Incidental to the Contract.

105.4.2 Use of Granular Materials. The Department may authorize granular Materials that are capable of supporting traffic and necessary to maintain the specified traffic Lane widths upon the following conditions.

- A. The Design-Builder must prepare the area where the granular Materials are to be used by eliminating objectionable Material and providing adequate temporary Drainage before the granular Material is placed.

105.4.3 Maintenance During Winter Construction. Except as provided in the following paragraph, when the Design-Builder performs Work during winter weather conditions, the Design-Builder shall maintain the portions of the Project that carry vehicular or pedestrian traffic, including all Bridges and Sidewalks of Bridges, so as to allow the free and safe flow of such traffic. The State or local governmental agency that would otherwise be responsible for winter maintenance will maintain such portions of a Project that:

- A. have been untouched or left by the Design-Builder in a suitable condition to carry vehicular or pedestrian traffic as determined by the Department, and
- B. are unaffected by the construction operations.

105.4.4 Maintenance During Suspension of Work. Prior to suspension, the Design-Builder must make the Project suitable for the free and safe flow of traffic as determined by the Department including covering or removal of signs. To provide space for snow removal, all areas to be used by traffic must be clear for the entire usable Roadway including Shoulders, or curb-to-curb including Sidewalks.

During an approved suspension, the Department will maintain the temporary Roads and Project sections by plowing snow, controlling ice, and patching or retreating the surface. During suspension, the Design-Builder must:

1. take precautions necessary to prevent damage to the Work and to allow the Department to provide such maintenance (such precautions include providing Drainage and erecting any necessary Structures, signs, or other facilities);
2. maintain all temporary Structures and traffic control devices; and
3. continuously maintain, in an acceptable growing condition, all living plant Material, including newly established seedings and soddings furnished under the Contract, and take precautions to protect vegetative growth from damage.

After suspension, the Design-Builder must clean up all evidence of the snow and ice control, including removing excess sand and debris from the Roadway and replacing all base or subbase Material that was lost as a result of maintenance activity.

If a Work suspension is not approved, the Design-Builder will remain responsible for maintaining the Project, including plowing snow, controlling ice, and patching or retreating the surface.

All costs related to suspending and resuming Work related to approved suspensions will be considered Incidental to the Contract. For related provisions, see Subsections 104.2.6 – Right to Suspend Work and 107.5 – Suspension of Work.

105.4.5 Maintenance of Existing Structures. When a new Bridge or Minor Span is being installed on a new alignment and the existing structure is to remain in service, the Department will maintain the existing structure and the portions of the Roadway required for maintaining traffic until such time that the new structure is opened to traffic and the existing structure is taken out of service. A similar situation exists when a new Bridge or Minor Span is being installed on the same alignment as the existing structure, requiring a temporary detour to be installed by the Design-Builder per Section 510 – Special Detours, prior to removal of the existing structure. In this case, the Department will maintain the existing structure and the portions of the existing Roadway required for maintaining traffic until such time that either the temporary detour is opened to traffic or the Design-Builder begins any work on the existing structure, including, but not limited to, repairs, modifications, moving, demolition, or removal. In either case, once the new structure or temporary detours is opened to traffic, or the Design-Builder begins any work on the existing structure, the Design-Builder shall be solely responsible for all maintenance of the existing structure and the portions of the existing approaches that lie outside the new roadway or the temporary detour, respectively. This specification is not intended to supersede Standard Specification Section 104.3.11 – Responsibility for Property of Others.

105.5 Hauling of Materials and Equipment.

105.5.1 General Requirements. Except as provided otherwise and limited in this Contract, the Design-Builder may use any public Road or Bridge for the hauling of Materials and Equipment in legally registered vehicles that are carrying legal loads and operating otherwise in accordance with all applicable State or federal laws. If the Design-Builder violates such laws or the terms of the Contract relating to hauling, the Design-Builder shall, at its expense, repair damage to any Road or Bridge that the Department determines was caused by the Design-Builder to the satisfaction of the governmental entity that maintains the Road or Bridge.

The Design-Builder must abate any dust nuisances caused by such hauling. For a related provision, see Sections 637 – Dust Control and 656 – Temporary Soil Erosion and Water Pollution Control of the Standard Specifications.

105.5.2 Bond for Use of Municipal Roads. If the Design-Builder wants to use Roads maintained by a municipality for hauling, the municipality may require the Design-Builder to purchase a bond for each mile of traveled length. The face value for such bond shall not exceed \$50,000 per mile. The cost of said bond shall be Incidental to the Contract.

105.5.3 Posted Roads or Bridges. The Design-Builder must comply with all restrictions set forth pursuant to 29-A MRSA §2395, including springtime posting of load restrictions. An overlimit movement permit pursuant to 29-A MRSA §2382 will not relieve the Design-Builder of its obligation to repair damage to such posted Roads or Bridges. For a related provision, see Subsection 104.3.2 – Furnishing of Other Property Rights, Licenses, and Permits.

105.5.4 Narrow Roads. The Design-Builder shall not haul on Roads having a bituminous surface width of less than twenty (20) feet unless there is no practical alternative.

105.5.5 Overlimit Loads.

- A. Within Project Limits. Within the Project Limits, the Design-Builder shall not haul over the base courses, surface course, or accepted Subgrades with loads that exceed legal limits, except for Equipment used in grading operations including the preparation of the subgrade.
- B. Outside Project Limits. Outside the Project Limits, the Design-Builder must comply with 29-A MRSA §2382 – Overlimit Movement Permits before moving vehicles or hauling loads in excess of legal limits. The Design-Builder is responsible for all damage caused by the movement of loads in excess of legal limits whether under permit or not.

105.5.6 Restrictions on Movement and Storage of Heavy Loads and Equipment on Bridges. The Design-Builder shall comply with legal load restrictions and with special restrictions required by the Contract when hauling or storing Materials, including demolition debris, and moving or storing Equipment on Bridges within the Project Limits that are under construction or completed but not yet open to traffic.

The Design-Builder shall not operate Equipment mounted on crawler tracks or steel-tired wheels on or across concrete or bituminous surface, unless otherwise approved by the Resident. The Contract requirements may impose special restrictions on speed, load distribution, surface protection, or other precautions.

When construction operations require crossing an existing Bridge with otherwise prohibited Equipment or loads, the Design-Builder shall use Department approved methods of load distribution or bridging, at no additional cost to the Department.

The Design-Builder will not be relieved of liability for damages resulting from the operation and movement of construction Equipment because it has been issued a special permit, or it has adhered to any other restrictions imposed.

Unless otherwise allowed by the Contract or approved by the Department, the Design-Builder shall temporarily store construction Materials, including demolition debris, or park Equipment on a Bridge deck during construction in accordance with the following limits, which have been established to reflect typical design live loads:

Stockpiles shall not weigh more than 65,000 pounds per 1,000 square feet
Individual stockpiles of Materials (including pallets of products, reinforcing steel bundles and Aggregate stockpiles) shall not weigh more than 25,000 pounds per 1000 square feet, or no single

vehicle or piece of Equipment shall weigh more than 80,000 pounds and no combination of vehicles, Materials, and other Equipment shall weigh more than 200,000 pounds per span, for span lengths greater than 40 feet.

The Design-Builder may submit alternate loadings with calculations stamped by a licensed Professional Engineer, within twenty (20) days prior to placement of the load(s).

105.6 Design and Construction Surveying.

105.6.1 Department Provided Services.

105.6.1.1 Design. The Project Requirements set forth the Department's goals, objectives, and constraints related to the Design-Builder's design of the Work.

The Department may review the Design Documents developed by the Design-Builder, but only for conformance with the Contract. Such action will be taken in a timely manner so as to avoid unreasonable delay in the Design-Builder's progress. The Department's review of the Design Documents does not constitute Acceptance of the design nor relieve the Design-Builder of the responsibility for the satisfactory Completion of the Work in Conformity with the Contract.

105.6.1.2 Construction Surveying. The Department will provide the Design-Builder with the description and coordinates of vertical and horizontal control points; set by the Department, within the Project Limits, for full construction Projects and other Projects where survey control is necessary. For Projects of 1,500 feet in length, or less: The Department will provide three points. For Projects between 1,500 and 5,000 feet in length: The Department will provide one set of two points at each end of the Project. For Projects in excess of 5,000 feet in length, the Department will provide one set of two points at each end of the Project, plus one additional set of two points for each mile of Project length. For non-full construction projects and other Projects where survey control is not necessary, the Department will not set any control points and, therefore, will not provide description and coordinates of any control points. Upon request of the Design-Builder, the Department will provide the Department's survey data management software and Survey Manual to the Design-Builder or its survey Subcontractor, for the exclusive use on the Department's Projects.

105.6.2 Design-Builder Provided Services.

105.6.2.1 Design. The Design-Builder is solely responsible for completing the design of the Project in Conformity with the Contract, including performing all site investigative work it determines to be necessary to properly design, schedule, and construct the Work.

Before commencing any design or construction Work in an area, the Design-Builder shall review the Basic Configuration for constructability and shall notify the Department in writing of any errors, omissions, inconsistencies or other defects in such design affecting constructability. If, after the start of any design or construction Work, the Design-Builder becomes aware of any such error, omission, inconsistency or other defect in the Basic Configuration, the Design-Builder shall immediately notify the Department of the same.

The Design-Builder shall determine the actual locations, shape and other geometrics of the Project within the constraints set forth in the Project Requirements. Before commencing any Work on a particular aspect of the Project, the Design-Builder shall verify all governing dimensions at the Site, and shall examine all adjoining work that may have an impact on such Work. The Design-Builder shall ensure that the Design Documents and Released for Construction Documents accurately depict all governing and adjoining dimensions and conditions.

105.6.2.2 Construction Surveying. Utilizing the survey information and points provided by the Department, described in Subsection 105.6.1 – Department Provided Services, the Design-Builder is responsible for all other survey Work and construction layout necessary or appropriate to complete the Work. This may include, but not be limited to, reestablishing all points provided by the Department, establishing additional control points, staking out of the Work on the site, running axis lines, providing layout and maintenance of all other lines, grades, or points, and survey Quality Control to assure accuracy and conformance with the Contract. The Design-Builder is also responsible for providing construction centerline, or close reference points, for all Utility Facilities relocations and adjustments as necessary to complete the Work. When new Work is to connect with existing Structures, the Design-Builder shall verify all dimensions before proceeding with the Work. The Design-Builder shall employ or retain competent Engineering and/or surveying personnel to fulfill these responsibilities. Surveying for design shall be in accordance with this Section and the Project Requirements.

The Design-Builder must notify the Department of any errors or inconsistencies regarding the data and layout provided by the Department as provided by Subsection 104.3.3 – Duty to Notify Department If Ambiguities Discovered.

105.6.2.3 Survey Quality Control and Construction Layout. The Design-Builder is responsible for all construction survey Quality Control. Construction survey Quality Control is generally defined as first performing initial field survey layout of the Work and, second, performing an independent check of the initial layout using independent survey data to assure the accuracy of the initial layout; additional iterations of checks may be required if significant discrepancies are discovered in this process. Construction survey layout Quality Control also requires written documentation of the layout process such that the process can be followed and repeated, if necessary, by an independent survey crew.

105.6.2.4 Electronic Design Data and Digital Terrain Model (DTM). If provided by the Department, at the request of the Design-Builder, any electronic project design data will not be deemed a part of the contract, and is supplied as a courtesy by the Department. The Design-Builder shall not take advantage of any ambiguity or error contained in said data, and upon discovery of any ambiguity or error shall notify the Department before proceeding. The Design-Builder may convert any electronic data provided by the Department into a format required by the Design-Builder's system and Equipment at the Design-Builder's expense. Any Digital Terrain Model (DTM) to be used for construction shall be submitted to the Department in OpenRoads DTM or LandXML format at least ten (10) Days prior to the Preconstruction Meeting; any other format shall be preapproved by the Department prior to submittal. No changes shall be made to the electronic model after submittal without prior written consent by the Project Resident. The Department will

review and provide comments to the Design-Builder within ten (10) Days of receipt of the DTM submittal.

105.6.2.5 Survey Work Plan. The Design-Builder shall provide a Survey Work Plan to the Department prior to, or at, the Preconstruction Meeting.

The Survey Work Plan shall include:

- A. Make and model of Equipment and software used for project layout.
- B. Make and model of Equipment and software used for machine guidance and control.
- C. Manufacturer-stated Specifications for vertical and horizontal accuracy attainable by the Equipment.
- D. Equipment calibration procedures and date of last calibration.
- E. Narrative of methodology used to establish any additional horizontal or vertical project control points. Field notes for new vertical control shall be submitted to the Department.
- F. Site Calibration (Localization) and control verification procedures, including a timetable and tolerances. A Site Calibration report shall be submitted to the Department, including the values of calculated residuals of each point used in the calibration.
- G. Type and locations of base stations to be used, including methodology for establishing on-site base broadcast positions and localization procedures used for off-site bases.
- H. Describe methodology used to overcome Real Time Kinematic (RTK) signal losses in a portion or portions of the project, and methodology to ensure signals for both inspection operation areas and construction operation areas (i.e. multiple bases operating simultaneously).
- I. Describe procedures used to integrate vertical refinement Equipment (i.e. laser); including the process of determining and verifying transmitter set-up location and communicating any necessary adjustments to the machine control Equipment.
- J. Name(s) and Qualifications of the Design-Builder's designated on-site surveyor(s) or engineer(s) responsible for performing the project layout.
- K. Design software and version used to develop the Digital Terrain Model (DTM).

The Department will review and provide comments to the Design-Builder within five (5) Days of receipt of the Survey Work Plan.

105.6.2.6 Department Verification. The Design-Builder shall furnish a Global Navigation Satellite System (GNSS) or Global Positioning System (GPS) Rover and/or Robotic Total

Station (RTS) Equipment to the Department with the same capabilities as those used by the Design-Builder or other approved method, such as reference staking, to allow the Department to independently verify the accuracy of the work, as approved by the Department.

This Equipment referred to above shall be compatible with the system(s) used by the Design-Builder and be provided to the Project Resident prior to the Design-Builder commencing Work using electronic layout methods. This Equipment shall stay in the possession of the Department for the duration of the project and shall be returned, in good condition, to the Design-Builder upon final Acceptance of the field work. Any augmented features (such as laser refinement) used by the Design-Builder shall be included in the features available on the Equipment provided to the Department.

The Design-Builder shall provide manufacturer-certified training on the use of the GNSS, GPS, and/or RTS equipment and the Design-Builder's systems to the Department project personnel prior to beginning any Work. This training is for the purpose of providing Department project personnel with an understanding of the Equipment, software, and electronic data being used by the Design-Builder.

105.6.2.7 Field Layout Specifications. All work accomplished through electronic layout methods and/or machine control must meet the same accuracy requirements as the conventional grading construction standards detailed in the Standard Specifications. The Contractor shall not use GNSS, GPS, or RTS Equipment for a construction activity that requires a greater precision than the machine's capability as per the manufacturer's recommendation.

105.6.3 Survey Quality Assurance. It is the Department's prerogative to perform construction survey Quality Assurance. Construction survey Quality Assurance may, or may not, be performed by the Department. Construction survey Quality Assurance is generally defined as an independent check of the construction survey Quality Control. The construction survey Quality Assurance process may involve physically checking the Design-Builder's construction survey layout using independent survey data or may simply involve reviewing the construction survey Quality Control written documentation. If the Department elects to physically check the Design-Builder's survey layout, the Design-Builder's designated surveyor may be required to be present. The Department will provide a minimum notice of forty-eight (48) hours to the Design-Builder, whenever possible, if the Design-Builder's designated surveyor's presence is required. Any errors discovered through the Quality Assurance process shall be corrected by the Design-Builder, at no additional cost to the Department.

105.6.4 Boundary Markers. The Design-Builder shall preserve and protect from damage all monuments or other points that mark the boundaries of the Right-of-Way or abutting parcels that are outside the area that must be disturbed to perform the Work. The Design-Builder indemnifies and holds harmless the Department from all claims to reestablish the former location of all such monuments or points including claims arising from 14 MRSA §7554-A. For a related provision, see Subsection 104.3.11 – Responsibility for Property of Others.

105.7 Working Drawings. The Design-Builder shall provide and be responsible for review and approval of Working Drawings. The Design-Builder shall not allow final assembly or fabrication of any structural units until the review is complete.

The Design-Builder shall prepare in writing a review procedure for Working Drawings that shall include the review of Drawings and engineering computations for conformance with Design Documents, Specifications, and Contract Documents. The Department will review and concur with the written procedure prior to the Design-Builder reviewing any working drawing. The Department's concurrence of the review procedure shall not relieve the Design-Builder of the responsibility for overall correctness of Working Drawings including engineering and mathematical computations, shop fits, and field connections.

The Department may at any time request documentation from the Design-Builder that the Design-Builder is following the review procedure as submitted to and concurred with by the Department.

When Design-Builder reviews are complete, the Design-Builder shall furnish the Department with one set of reproducible copies of the final Working Drawings prior to assembly fabrication or construction of the element(s) in the Working Drawings.

The Department reserves the right to review working drawings at any time. Such review shall not relieve the Design-Builder of the responsibility for the Design-Builder review or for the overall correctness of Working Drawings including engineering and mathematical computations, shop fits, and field connections.

105.8 Environmental Requirements.

105.8.1 Temporary Soil Erosion and Water Pollution Control. The Design-Builder shall provide continuous and effective soil erosion and water pollution control in compliance with Section 656 – Temporary Soil Erosion and Water Pollution Control of the Standard Specifications.

105.8.2 Permit Requirements.

- A. Permits Granted To Department. Permits are to be included in or incorporated by reference into the RFP. If Permits are not so included and the Design-Builder is aware the Work will impact a regulated resource such as waterbodies or wetland, the Design-Builder shall notify the Department before Submitting a Proposal. For a related provision, see Subsection 102.2.3.2 – Proposer's Duty to Notify Department If Ambiguities Discovered.
- B. The Design-Builder is responsible for complying with all Permit conditions. If the Design-Builder desires to modify or seek interpretation of any permit granted to the Department, it must coordinate any such requests through the Department. Any modifications to permits issued to the Department that may impact the Project's schedule or costs are at the sole risk of the Design-Builder.
- C. All Other Permits. Except as expressly provided otherwise in the Contract, the Design-Builder, at its expense, shall procure all other environmental or land use Permits, licenses, or other permissions that are necessary or appropriate to perform the Work. At the time of

application, the Design-Builder shall provide the Department with notice of all applications for such Permits, licenses, or other permissions, and upon request, a copy of all such applications. For a related provision, see Subsection 104.3.2 – Furnishing of Other Property Rights, Licenses, and Permits.

105.8.3 Wetland and Waterbody Impacts.

- A. General Prohibition. Except as specifically allowed by the Contract, there shall be no permanent or temporary impacts to waterbodies or Wetlands identified on the Plans or otherwise known to the Design-Builder. For a related provision, see Subsection 656.3.4 – Water Pollution Control Requirements of the Standard Specifications.
- B. Wetlands Outside Project Limits. If the Design-Builder desires to conduct an activity that can disturb the soil in an area that is outside the Project Limits, but is contiguous or in close proximity to such Limits, the area first must be examined and analyzed by a qualified Wetlands specialist in order to determine whether Wetlands exist, and if so, to delineate them. The Design-Builder must notify the Department of all such examinations and analyses and the results thereof. Wetlands so delineated must not be impacted unless the Design-Builder obtains all applicable permits.

Any fill Material generated from this Project shall not be placed, stored, or disposed of in a Wetland at an off-site location unless the Design-Builder provides the Department with written evidence that all Permits necessary for such use have been obtained. Such evidence must be signed by the Owner of such site and otherwise acceptable to the Department.

- C. Temporary Structures. Temporary or permanent impacts to Wetlands are prohibited without proper permitting or modification to existing Permits. Temporary Structures in a waterbody must comply with any Contract provisions regarding Instream Work.

105.8.4 Hazardous Materials. If the Design-Builder encounters any condition that indicates the presence of uncontrolled petroleum or Hazardous Materials, the Design-Builder shall immediately stop Work, notify the Department, treat any such conditions with extreme caution, and secure the area of potential hazard to minimize health risks to workers and the public, and to prevent additional releases of contaminants into the environment. Such conditions include the presence of barrels, tanks, unexpected odors, discoloration of soil or water, an oily sheen on soil or water, excessively hot earth, smoke, or any other condition indicating uncontrolled petroleum or Hazardous Materials. The Design-Builder shall continue Work in other areas of the Project unless otherwise directed by the Department. The Design-Builder shall comply with all federal, State, and local laws concerning the handling, storage, treatment, and disposal of uncontrolled petroleum or Hazardous Material. If the condition meets the definition of a Differing Site Condition under Subsection 109.2.1, the Design-Builder may be eligible for an Equitable Adjustment.

105.8.5. Dredge Spoils (Dredge Materials). Unless otherwise provided in the Contract, dredge spoils shall not be used as fill within the Project Limits. Any use or disposal of dredge spoils must be in accordance with all applicable federal and State laws.

105.8.6 Pit or Quarry Requirements.

- A. General. Pits or quarries that are sources of Material for the Project, including loam fields, shall meet the requirements of this Subsection 105.8.6. The Design-Builder must procure an Agreement from the Owners of such pits stating that the Owners will comply with these requirements. If requested by the Department, the Design-Builder will provide the Department with a copy of such Agreement. The Design-Builder shall provide the Resident with the center of the source GPS coordinate pairs (latitude and longitude) in decimal degrees (DD.DDDDDD), name, and town in which the source is located.
- B. Excavation Requirements. Surface Material stripped from the pit shall be stored to allow for restoration of the pit. The Design-Builder shall not excavate from pit faces that are vertical or have an overhang. The Design-Builder must stop excavating within a two (2) horizontal to one (1) vertical slope ten (10) feet inside of a property line of a deposit, even though the Material within the pit may have a steeper angle of repose, except when an additional Agreement is reached with an adjacent property Owner to allow the extension of a pit onto the adjacent property Owner's land. The Design-Builder must ensure that hazards such as steep pit faces and ponds are protected by flattening slopes or by erecting suitable fencing.
- C. Rehabilitation. If the pit is licensed by MDEP or LURC, the Design-Builder shall follow the rehabilitation provisions of said license and provide copies of license upon request. In the absence of such license requirements, the Design-Builder shall follow local Municipal Land Use Ordinances pursuant to Gravel Pit Operations. In the absence of such Ordinances, or if the Ordinances do not address rehabilitation of pits, the Design-Builder and Landowner shall agree, in writing, to the scope of rehabilitation of the pit. This agreement shall be signed by both parties. A copy of the agreement shall be submitted to the Resident.

105.8.7. Environmental Non-compliance – Remedies and Costs. The Design-Builder shall be in non-compliance if it, or Subcontractors at any tier, fails to comply with the terms of the Contract or, pursuant to Subsection 104.3.7 – Laws To Be Observed, any applicable environmental or land use law or regulation including Project specific permit conditions.

If the Design-Builder is in non-compliance as determined by the Department or regulatory agencies, the Department may at its discretion:

- A. Withhold all Progress Payments, or any portion thereof, during the period the Design-Builder is in non-compliance;
- B. Remedy such non-compliance using State forces or another Contractor and deduct all costs incurred by the Department from Progress Payments (such costs include direct costs, Project Engineering costs, and Design-Builder costs from amounts otherwise due the Design-Builder); and/or
- C. Suspend the Work for cause and without cost or liability to the Department. Said suspension shall continue until the Design-Builder has addressed all non-compliance issues as directed by the Department.

The Design-Builder shall be responsible for any fines and penalties assessed by environmental or land use regulatory agencies due to such non-compliance. Such penalties may be withheld from

amounts otherwise due the Design-Builder. For related provisions, see Sections 108.6 – Right to Withhold Payments and 108.10.3 – Amounts Due to the Department.

105.9 Historic and Archeological Considerations. The Department will provide information on historic resources within the Project limits and requirements to comply with Section 106 of the National Historic Preservation Act (16 U.S.C. § 470 f), the Regulation (36 CFR Part 800) in the RFP Part 2/Project Requirements. Proposals that vary from the Contract must be approved by the Department. These changes could have adverse effects to Historic Resources, as well as jeopardize federal funding.

The selected Design-Builder will be solely responsible for all schedule delays resulting from modifications or re-evaluations required to accommodate the Proposer’s design and all associated costs incurred due to such schedule delays.

If the Design-Builder discovers any object of potential archaeological, paleontological, or other historic interest, all Work that could disturb said object shall immediately cease and shall not be resumed until an investigation of the object and related deposits have been completed and the removal of articles of interest has been accomplished. Should such a deposit be discovered, the Design-Builder shall notify the Department immediately.

The first indication of archaeological deposits may be the burial grounds or campsites of Native Americans that reveal the bones of the dead and the people’s implements. The first indications of paleontological deposits may be the exposure of marine fossils or shells found mainly in clay deposits. Indications of deposits of more recent historic interest may be the exposure of dumps in landfill areas, abandoned campfire sites, and building foundations.

Any Delay of the Design-Builder’s operations resulting from the above will be analyzed in accordance with Section 109.3 – Adjustments for Delay, except that in no event will such Delay be a Compensable Delay.

The Design-Builder is notified of a Maine statute, 27 MRSA §371, which states that artifacts, specimens, and material, are public property by virtue of having been found on, in, or beneath State controlled lands, and places Ownership of the same in the State of Maine.

105.10 Equal Opportunity and Civil Rights.

105.10.1 Disadvantaged Business Enterprises Program. The Department has established a Disadvantaged Business Enterprises (DBE) program in accordance with regulations of the United States Department of Transportation (USDOT), 49 CFR Part 26. The Department receives federal financial assistance from USDOT, and as a condition of receiving this assistance, the Department has signed an assurance that it will comply with 49 CFR Part 26. The Department is responsible for determining the eligibility of and certifying DBE firms in Maine.

A DBE is defined as a for-profit business that is owned and controlled by one or more socially and economically disadvantaged person(s). For the purpose of this definition:

- A. “Socially and economically disadvantaged person” means an individual who is a citizen or lawful permanent resident of the United States and who is Black, Hispanic, Native American, Asian, Female; or a member of another group or an individual found to be disadvantaged by the Small Business Administration pursuant to Section 3 of the Small Business Act.
- B. “Owned and controlled” means a business which is:
 - a. A sole proprietorship legitimately owned and controlled by an individual who is a disadvantaged person.
 - b. A partnership or limited liability company in which at least 51% of beneficial ownership interests legitimately are held by a disadvantaged person(s).
 - c. A corporation or other entity in which at least 51% of the voting interest and 51% of the beneficial ownership interests legitimately are held by a disadvantaged person(s).

The disadvantaged group owner(s) or stockholder(s) must possess control over management, interest in capital, and interest in earnings commensurate with the percentage of ownership. If the disadvantaged group ownership interests are real, substantial and continuing and not created solely to meet the requirements of this program, a firm is considered a bona fide DBE.

105.10.2 Commercially Useful Function. Department will count expenditures of a DBE contractor toward DBE goals only if the DBE is performing a commercially useful function on that contract. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. Credit will only be given when the DBE meets all conditions for a CUF. Credit for labor will be in accordance with the responsibilities outlined in the contract. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the Contract, for negotiating price, determining quality and quantity, ordering the materials, and installing (where applicable) and paying for the material itself. To determine whether a DBE is performing a commercially useful function, Department will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the Contract is commensurate with the work it is actually performing and DBE credit claimed for its performance of the work, and other relevant factors.

If, while the DBE is performing under the Contract, the DBE purchases supplies or rents Equipment from the Design-Builder, the costs of such supplies or rentals do not count toward the DBE goal as defined in Section 105.10.3. A current listing of certified DBEs that may wish to participate in the highway construction program and the scope of work for which they are certified can be found at <https://www.maine.gov/dot/doing-business/civil-rights/dbe>. Credit will be given for the value described by a DBE performing as:

- A. A prime contractor; 100% of actual value of work performed by own workforces.
- B. An approved subcontractor; 100% of work performed by own workforces.

- C. An owner-operator of construction Equipment; 100% of expenditures committed.
- D. A manufacturer; 100% of expenditures committed. The manufacturer must be a firm that operates or maintains a factory or establishment that produces on the Premises the Materials or supplies obtained by the Contractor. Brokers and packagers shall not be regarded as manufacturers.
- E. A regular dealer; 60% of expenditures committed. A regular dealer is defined as a firm that owns, operates, or maintains a store, warehouse or other establishment in which the Materials or supplies required for the performance of the Contract are bought, kept in stock, and regularly sold to the public. For purposes of this provision a “Broker” is a DBE that has entered into a legally binding relationship to provide goods or services delivered or performed by a third party. Brokers and packagers shall not be regarded as regular dealers.
- F. A bona fide service provider; 100% of reasonable fees or commissions. Eligible services include professional, technical, consultant, or managerial, services and assistance in the procurement of essential personnel, facilities, Equipment, Materials or supplies required for the performance of the contract. Eligible services also include agencies providing bonding and insurance specifically required for the performance of the contract.
- G. A trucking, hauling or delivery operation. 100% of expenditures committed when trucks are owned, operated, licensed and insured by the DBE and used on the contract and, if applicable, includes the cost of the self supplied Materials and supplies. 100% of expenditures committed when the DBE leases trucks from another DBE firm including an owner-operator. 100% of reasonable fees or commissions the DBE receives as a result of a lease arrangement for trucks from a non-DBE, including an owner-operator.
- H. Any combination of A through G.

105.10.3 Race-neutral Goals. The Department is required to set an annual goal (approved on a three year basis) for DBE participation in Federal-aid projects (the “DBE Goal”) pursuant to 49 CFR 26.53. In order to fulfill that goal, Proposers are encouraged to utilize DBE businesses certified by the Department. The Department seeks to meet the established DBE goal solely through race-neutral means. *Race-neutral* DBE participation occurs when a DBE is awarded a prime contract through customary competitive procurement procedures, is awarded a subcontract on a contract that does not carry a DBE Contract goal, or wins a subcontract from a prime Contractor that did not consider its DBE status in making the Award. A DBE/subcontractor Utilization Proposed Form is required to be included in bid documents.

The Department will analyze each project and create a Project Availability Target (PAT), based on a number of factors including project scope, available DBE firms, firms certified in particular project work, etc. Each bid will request that the contractor attempt to meet the PAT. This PAT is developed to assist contractors to better understand what the Department’s expectations are for a specific project. The PAT is NOT a mandate but an assessment of what this particular project can bear for DBE participation. The Department anticipates that each contractor will make the best effort to reach or exceed this PAT for the project.

105.10.4 Race-conscious Project Goals. If it is determined by the Department that the annual DBE goal will not be met through *race-neutral* means, the Department may implement *race-conscious contract goals* on some projects. Race-conscious contract goals are goals that are enforceable by the Department and require that the prime contractor use good faith effort as defined in 49 CFR 26.53 (“Good Faith Efforts”) to achieve the goal set by the Department for that particular project. If race-conscious means are implemented on a project, the Prime must comply with the requirements of 49 CFR 26.51 and 26.53.

At the time of the Price Proposal opening, all Proposers shall submit with their bid a Disadvantaged Business Enterprise (DBE) ~~Commitment Bidder’s List Form and Open-Ended Performance Plan (OEPP) Forms~~ (Forms E1, ~~E2, and E3~~) provided by the Department. ~~These~~ This forms will list the DBE and non-DBE firms that are proposed to be used during the execution of the Work, as well as identify future work opportunities where DBE firms may be utilized. The list shall show the name of the firm, the item/material/type of work involved and the dollar amount of work to be performed. The dollar total of each commitment shall be totaled ~~and a percentage determined.~~

If the PAT is not met, acceptable documentation showing all Good Faith Efforts (“GFE”) made to obtain participation may be required in order to Award the project. Failure to provide the required listing with the dollar participation total or acceptable documentation of GFE to obtain DBE participation within three (3) days after the Price Proposal opening date will be considered a lack of responsiveness on the part of the low bidder. Rejection of the low bid under these circumstances will require the low bidder to surrender the Proposal Guaranty to the Department. The submission and approval of the above forms does not constitute a formal subcontract.

If for any reason during the progress of the Work the Design-Builder finds that DBEs included on the list are unable to perform the proposed work, the Design-Builder, with written release by the committed DBE or approval of the Department, may substitute other DBE firms for those named on the list. If the Design-Builder is able to clearly document their inability to find qualified substitute firms to meet the PAT, the Design-Builder may request in writing approval to substitute the DBE with a non-DBE firm. If at any time during the life of the Contract it is determined that the Design-Builder is not fulfilling the PAT or commitment(s) and is not making a good faith effort to fulfill the DBE requirement, the Department may withhold progress payments. If good faith effort is determined by the Department, failure to meet the PAT will not be a detriment to the Contract Award. Fulfillment of the PAT percentage shall be determined by dividing the dollars committed to the DBEs by the actual Contract dollars. These requirements are in addition to all other Equal Employment Opportunity requirements on Federal-aid contracts.

105.10.5 Certification of DBE attainment on Contracts. The Department must certify that it has conducted post-award monitoring of all contracts to ensure that DBEs have done the work for which credit was claimed. The Department will certify these contracts through review of CUF forms, Elations sub-contract payment tracking as well as occasional on-site reviews of projects and through the project’s final Closeout Documentation provided by our Contracts Section.

105.10.6 Bidders’ List. Pursuant to 49 CFR 26.11 the Department is required to “create and maintain” a Bidders list and gather Bidder information on our construction/consultant projects, Design-Builder will maintain information on all subcontract bids submitted by DBE and Non-

DBE firms and provide that information to the Department. The following information is required:

Firm Name

Firm Address including ZIP code

Firm status (DBE or non-DBE)

Race and gender information for the firm's majority owner

NAICS code applicable to each scope of work the firm sought to perform

Age of firm (years)

And the annual gross receipts amount as indicated by defined brackets on the survey form, (e.g., less than \$1 million; \$1-3 million; \$3-6 million; \$6-10 million; etc.) rather than requesting an exact figure from the firm.

This data is required from all bidders for federally assisted contracts to be submitted with their bids as this information is critical in determining the availability of DBE Businesses relative to other businesses that do similar work. 105.10.7 Requirements Applicable to All Contracts.

Unless expressly provided otherwise in the RFP Documents, the provisions contained in this Section 105.10.7 apply to this Contract.

A. Maine Code of Fair Practices and Affirmative Action. The Design-Builder must comply with the provisions of Maine's Code of Fair Practices and Affirmative Action, 5 MRSA §781, et seq., and all regulations promulgated thereunder. This Code, at 5 MRSA §784(2), reads as follows:

“During the performance of this Contract, the Design-Builder agrees as follows:

1. The Design-Builder will not discriminate against any employee or applicant for employment because of race, color, religious creed, sex, national origin, ancestry, age, sexual orientation, physical and/or mental disability. Such action shall include, but not be limited to, the following: Employment, upgrading, demotions, transfers, recruitment or recruitment advertising; layoffs or terminations; rates of pay or other forms of compensation; and selection for training, including apprenticeship.
2. The Design-Builder will, in all solicitations or advertisements for employees placed by or on behalf of the Design-Builder, State that all qualified applicants will receive consideration for employment without regard to race, color, religious creed, sex, sexual orientation, national origin, ancestry, age, physical disability, or mental disability.
3. The Design-Builder will send to each labor union or representative of the Workers with which he has a collective or bargaining Agreement, or other Contract or understanding, whereby he is furnished with labor for the performances of [sic] his Contract, a notice, to be provided by the Contracting Department or agency, advising the said labor union or Workers' representative of the Contractor's commitment under this Section and shall post copies of the notice in conspicuous places available to employees and to applicants for employment.

4. The Design-Builder will cause the foregoing provisions to be inserted in all Contracts for any Work covered by this Agreement so that such provisions will be binding upon each Subcontractor.”
- B. Maine Human Rights Act. The Design-Builder must comply with the provisions of Maine’s Human Rights Act, 5 MRSA §4551, et seq., and all regulations promulgated thereunder. This Act provides, among other things, that it is unlawful discrimination for any employer to fail or refuse to hire or otherwise discriminate against any applicant for employment because of race or color, sex, sexual orientation, physical or mental disability, religion, age, ancestry or national origin, except when based on a bona fide occupational qualification.
- C. EEO Notice to Labor Sources. Pursuant to Maine’s Code of Fair Practices and Affirmative Action and federal law, all Design-Builders and Subcontractors engaged in Work on this Project must notify each union and/or the Maine Department of Labor’s Career Centers and Job Service Centers from which the Design-Builder intends to obtain labor, and pledge to provide equal employment opportunities without regard to race, color, religion, sex, sexual orientation, national origin, or disability. This notice must consist of the letter shown below. The letter must be written on the Design-Builder’s or Subcontractors letterhead stationery and sent to the applicable union or agency. A list of the Maine Department of Labor’s Career Centers and Job Service Centers follows the letterform.

To: (Union, employment agency or employee's representative)

(Address)

Subject: Equal Employment Opportunities on
State Project No.:
Federal Aid Project No.
Location:
Description of Work:

For Work related to the construction of the above listed Project to be performed under State Contract No.: _____, I have pledged to provide equal employment opportunities without regard to race, color, religion, sex, national origin, sexual orientation, or disability. This pledge applies to all employees and applicants for employment in connection with:

- Hiring, Placement, Upgrading, Transfer or Demotion
- Recruitment, Advertising or Solicitation for Employment
- Treatment During Employment
- Rates of Pay or Other Forms of Compensation
- Selection for Training, Including Apprenticeship
- Layoff or Termination

Inquiries and complaints shall be addressed to:

President's Committee on Equal Employment Opportunity
Washington, D.C. 20425

Signed:

(Title)

For:

(Design-Builder)

(Address)

(Dated)

MAINE DEPARTMENT OF LABOR CAREER CENTERS & JOB SERVICE CENTERS

<p>Augusta 45 Commerce Drive Augusta, ME 04333- 0109 207-623-7981 Fax: 207-287-5933 TTY: Users Call Maine Relay 711</p>	<p>Hinckley 23 Stanley Road, PO Box 15 Hinckley, ME 04944 207-623-7981 Fax: 207-453-2501 TTY: Users Call Maine Relay 711</p>	<p>Presque Isle 66 Spruce Street, Suite 1 Presque Isle, ME 04769-3222 207-623-7981 Fax: 207-768-6858 TTY: Users Call Maine Relay 711</p>
<p>Bangor 45 Oak Street, Suite 3 Bangor, ME 04401-7902 207-623-7981 Fax: 207-561-4036 TTY: Users Call Maine Relay 711</p>	<p>Lewiston 5 Mollison Way Lewiston, ME 04240 207-623-7981 Fax: 207-783-5301 TTY: Users Call Maine Relay 711</p>	<p>Rockland 91 Camden Street, Suite 201 Rockland, ME 04841-3424 207-623-7981 Fax: 207-594-1428 TTY: Users Call Maine Relay 711</p>
<p>Brunswick 29 Sewall St Brunswick, ME 04011 207-623-7981 Fax: 207-373-4004 TTY: Users Call Maine Relay 711</p>	<p>Machias 53 Prescott Drive, Suite 1 Machias, ME 04654 207-623-7981 Fax: 207-255-4778 TTY: Users Call Maine Relay 711</p>	<p>Springvale 9 Bodwell Court Springvale, ME 04083 207-623-7981 Fax: 207-324-7069 TTY: Users Call Maine Relay 711</p>
	<p>Portland 151 Jetport Boulevard Portland, ME 04102 207-623-7981 Fax: 207-822-0221 TTY: Users Call Maine Relay 711</p>	<p>Wilton 865 US Route 2E Wilton, ME 04294-6649 207-623-7981 Fax: 207-645-2093 TTY: Users Call Maine Relay 711</p>

- D. Prevention of Sexual Harassment. It is the policy of the Department that all parties have a right to Work in an environment free from harassment, including sexual harassment. Maine State Law and the Department prohibit any and all forms of sexual harassment in the Workplace, on the job site or that which may have an effect on the Work environment.

THEREFORE:

The Design-Builder hereby agrees to the following requirements in order to provide and promote a non-discriminatory Workplace free of sexual harassment.

1. No Design-Builder, supervisor, or employee shall allow repeated, objectionable, or unwanted verbal or physical advances, sexually explicit derogatory Statements, or sexually discriminatory remarks which cause discomfort, humiliation, or are in any way offensive to the recipient, or which interfere with the quality of any employee's Work environment in any way. Furthermore, no one on any job shall threaten or insinuate either explicitly or implicitly that any employee's submission to or rejection of sexual advances will have any effect on that person's employment, job assignment, training, evaluation, promotion, wages, or any other term or condition of employment or future job opportunity. Under Maine State Law, Design-Builders are responsible for ensuring and maintaining a Work environment, which is free from sexual harassment.
2. Any Design-Builder whose employee sexually harasses another employee shall be subject to disciplinary action. Design-Builders who fail to adequately and expeditiously investigate sexual harassment claims will be subject to enforcement proceedings and such sanctions as are authorized by law. Design-Builders are required to provide detailed written reports to the Department when so requested which shall describe the investigation and corrective actions taken by Design-Builders in all instances of sexual harassment allegations.

Design-Builders shall also be responsible for ensuring that no retaliation, reprisal, or intimidation be directed against any complainant or other employee who provides information to any person or agency investigating an allegation or complaint of sexual harassment.

- E. Certification of Continuing EEO Efforts. The Design-Builder must certify, to the best of its knowledge and belief, that the Design-Builder has made and will continue to make a good faith effort to comply with all applicable State requirements on equal employment opportunity, non-discrimination, and affirmative action, including employment of women, minorities, and disadvantaged as journeyed trade workers. Design-Builders not having achieved company-wide trade employment goals of 6.9% for females and 0.5% for minorities will, where indicated by Contract and to maximum extent practical, comply with Section 660 – On-the-Job Training.

105.11 Other Federal Requirements. Prior to payment by the Department, the Design-Builder shall provide a certification from the producer of steel or iron, or any product containing steel or iron as a component, stating that all steel or iron furnished or incorporated into the furnished product was manufactured in the United States in accordance with the requirements of the Buy America provisions of 23 CFR §635.410, as amended. Such certification shall also include (1) a

statement that the iron or steel product or component was produced entirely within the United States, or (2) a statement that the iron or steel product or component was produced within the United States, except for minimal quantities of foreign steel and iron valued at \$ (actual value).

All manufacturing processes must take place within the United States. Manufacturing begins with the initial melting and mixing, and continues through the coating stage. Any process that modifies the chemical content, the physical size and shape, or the final finish is considered a manufacturing process, including rolling, extruding, machining, bending, grinding, drilling, and coating. “Coating” includes epoxy coating, galvanizing, painting, or any other coating that protects or enhances the value of the Material.

A “Buy America” Certification is required from each manufacturer, fabricator, supplier, subcontractor that engages in “manufacturing” as defined above.

“Buy America” does not apply to raw Materials (iron ore and alloys), scrap, pig iron, or processed, pelletized, and reduced iron ore.

Unless otherwise provided in the RFP Documents, the Federal requirements contained in Appendix A to the Design-Build General Conditions are hereby incorporated into the Contract.

105.12 Project Design.

105.12.1 Design Documents. The Design-Builder shall prepare Design Documents in a format and in accordance with the standard requirements of the Department and this RFP. Design Documents shall include preparation and furnishing of Plans, Special Provisions, quantities, reports, and other documents as required for the Work.

105.12.1.1 Format of Documents. Design Documents shall be prepared in the U.S. Customary (USC) units and shall follow the conventions used by the Department as specified in the Department Highway Design Guide and Bridge Design Guide.

105.12.1.2 Design Standards. Project design Plans shall be prepared in accordance with the requirements and standards of the Department, utility and facility owners, and local agencies as required. The Design-Builder shall be responsible for identification and application of the standards to be used in preparation of Design Documents for layout and delineation format.

105.12.1.3 Codes, Standards, and Specifications. All Work, to the extent applicable, shall conform to the current editions of the publications identified in Subsection 106.2.2.2 of the Design-Build General Conditions and the applicable Supplemental Specifications and Special Provisions that are identified in the Appendices.

For utility work and work within the railroad Right-of-Way, the Design-Builder shall be responsible for obtaining and ensuring adherence of design and construction to the respective standards.

105.12.1.4 Project Coordination. Throughout the duration of the Project, and, except for those coordination activities specifically reserved for the Department, the Design-Builder

shall be responsible for coordination with local agencies, governmental approval agencies, community groups, adjacent landowners and businesses, and Utility Companies.

The Design-Builder shall review design Plans, coordinate, and monitor adjacent work of any entity performing or proposing work on or adjacent to the Project and shall make the Department aware of any impacts such work would have on the Project.

105.12.1.5 Design Exceptions. The Design-Builder may propose design exceptions to required standards. The Department may withhold approval of any and all design exceptions at its sole discretion. The Design-Builder shall allow sufficient time in the Project schedule to account for the design exception approval process and the possibility that the exception is not approved.

Final submittal of Design Documents shall include proper documentation of approval by the Department of any design exceptions.

105.12.1.6 Design Notes and Computations. Design notes and computations generated by the Design-Builder during preparation of the Design Documents (Plans and specifications) shall become the property of the Department and be submitted to the Department.

Within 30-Days of completion of the final RFC package, the Design-Builder shall submit to the Department design related Project Records as identified in Subsection 101.2, Definitions. This includes a compiled set of design computations from the various RFC packages and a separate compiled set of independent design computations. Each set of computations shall be sealed by separate Maine licensed Professional Engineers.

Design notes and calculations, which shall be recorded on 8-1/2" x 11" computation sheets, appropriately titled, numbered, dated, indexed, and signed by the Designer and checker. Computer output forms and other oversized sheets shall be folded or legibly reduced for submittal to 8-1/2" x 11" size. Independent design calculations, required as indicated below, shall be compiled with the same formatting, in a separate file. The data for each computation book shall be in a single, bookmarked pdf format, and shall include the following data:

- A. Field survey notes and computations;
- B. Primary and Secondary Survey Control used for Design and Construction;
- C. Geometric design computations for horizontal and vertical alignment;
- D. Vertical and horizontal geometry definition computations for each bridge (requires independent design calculations);
- E. Traffic capacity analysis (as required);
- F. Drainage computations;
- G. Structural design computations for each structure (requires independent design calculations);

- H. Foundation report and geotechnical analysis for each substructure unit;
- I. Bridge LRFR load ratings;
- J. Hydrology, hydraulic, and scour computations (if applicable)
- K. Earthwork computations not included in the quantity computation booklet;
- L. Computations of quantities; and
- M. Documentation of decisions reached resulting from meetings, telephone conversations, site visits, or otherwise.

105.12.1.7 Design Plans. The Design-Builder shall prepare design submittals for Department review in accordance with Section 105.12.2 - Design Submittals and Reviews.

Plans shall be full size (22"x34") pdf sheets in accordance with the Department's Bridge Plan Development Guide, the Department's Highway Design Guide, and the Standard Details which may include, but not be limited to, the following:

- A. Title Sheet
- B. Key Plan and Index Sheet
- C. Typical Sections
- D. General Layout, Geometry, and Survey Plans
- E. General Notes
- F. Quantity Estimates
- G. Construction Staging and Traffic Management Plans
- H. Bridge Notes
- I. Plan and Elevation
- J. Roadway Profiles
- K. Boring Location Plan
- L. Boring Log Sheets
- M. Interpretive Subsurface Profile
- N. Approach Cross Sections
- O. Abutment Plans and Elevations

- P. Abutment Sections and Details
- Q. Pier Plans and Elevations
- R. Pier Sections and Details
- S. Pile/Drilled Shaft Group Plans and Elevations
- T. Pile/Drilled Shaft Sections and Details
- U. Superstructure
- V. Superstructure Details
- W. Span Framing Plans and Girder Elevations
- X. Bearings
- Y. Diaphragms and Cross-Frames
- Z. Camber Diagrams and Camber Ordinances
- AA. Bottom of Slab Elevations and Deflections
- BB. Slab Reinforcing
- CC. Typical Cross Section Diagrams
- DD. Special Embankment Construction
- EE. Instrumentation – Layout, Plans and Details
- FF. Drainage Details
- GG. Railing and Barrier Details
- HH. Expansion Joint Details
- II. Bearing Details
- JJ. Reinforcing Steel Schedules
- KK. Drainage Plans, Profiles, Details, and Quantities
- LL. Utility Plans and Details
- MM. Street Lighting and Traffic Signal Plans
- NN. Sign and Pavement Marking Plans

OO. Standard Plans & Detail Sheets (if permitted by local agencies, may be included by reference)

PP. Landscaping Plans

105.12.2 Design Submittals and Reviews.

105.12.2.1 Design Submittals. Design plans may be developed in stages to allow construction activities to begin without having a full set of final design plans completed and approved. The Design-Builder has the option of submitting a complete set of bridge Plans or a partial set of Plans for RFC on a particular bridge element. Should the Design-Builder choose to submit partial sets of plans, such staged design submittals shall consist of logically grouped Project elements that can be designed, reviewed, and constructed as a self-contained package. Breakout of design packages should be done so that an orderly progression of work can be scheduled by the Design-Builder. The Department shall review and concur with the proposed breakout of design packages that are intended to be Released for Construction (RFC). This proposed breakout shall be prepared as part of a Design Package Work Plan submitted in conjunction with the Schedule of Work required under Section 107.4 – Scheduling of Work. The Department will issue any objections to the Work Plan within ten (10) Days after receiving it from the Design-Builder.

The Design Package Work Plan shall identify the following:

- A. The Project elements that will make up each Design Package, including physical and scope of work limits and interface points;
- B. The sequencing and scheduling of the design and construction of each Design Package in relation to the Schedule of Work;
- C. Planned stages for the Department’s review of each Design Package, including:
 - a. the specific information the Department must review (e.g., preliminary design, final design, special provisions, etc.), including the percent complete represented by the submittal;
 - b. planned timeframe for the review (measured from Notice to Commence Work), including the requested turnaround time from the Department (note the minimum review durations identified in Section 105.12.2.4);
 - c. any stakeholders that need to be consulted regarding the design; and
 - d. planned stage at which the Design Package can be Released for Construction.
- D. Every Design Package shall also be submitted as an electronic file in PDF format.

The Design Package Work Plan shall be updated as necessary throughout the Project to provide the Department advance indication of when formal design reviews will take place. The Department will use this plan to allocate its design resources accordingly to expedite the review process.

105.12.2.2 Department Reviews. Department reviews of design Plans and Specifications will consist mainly of checks to ensure that Contract requirements and design criteria are being followed, and that the Design-Builder's Design Quality Management Plan (DQMP) is being followed as the design is developed. The reviews may, at the Department's discretion, include, but are not limited to, design Plans, Special Provisions, reports, Geotechnical Information, Existing Conditions Plans, Final Right of Way Maps and other relevant design information.

At its discretion, the Department may make periodic visits to the Design-Builder's project administration office and off-site design offices to discuss and verify the design and that the DQMP is being adhered to in these offices. The Department reserves the right to not give advance warning for these reviews. Should the Design-Builder request an oversight visit by the Department to an off-site office, the Design-Builder shall give the Department three (3) Days advance notice of its requested oversight visit.

105.12.2.3 Over-the-Shoulder Reviews. Over-the-shoulder reviews are intended to be reviews by the Department of Design Documents during the design process. These reviews will be conducted in the presence of the Design-Builder's design and construction personnel with the intent to minimize disruption of ongoing design efforts. The review may be of progress prints, computer images, draft documents, working calculations, draft special provisions, reports, or other Design Documents.

105.12.2.4 Design Submittal Review Process. Formal design package submittals shall be made to the Department. Formal review submittals shall be required at the fifty percent (50%) and eighty percent (80%) design development stage of any design package intended to be RFC. Plans and required QC/QA documentation shall be included with the submittal for review. The Department may submit, to the Design-Builder, comments on the Design Documents and QC/QA documents following the Department's review. The Design-Builder shall schedule a comment resolution meeting for all parties to discuss and resolve any comments. The Department's review periods shall be in accordance with the following, unless otherwise agreed upon through the Department's review of the Design Package Work Plan:

1. The minimum review period per submittal shall be five (5) Days or one-eighth (1/8) of a Day per drawing/sheet, whichever is greater. The maximum review duration shall be 20 Days.
2. Submittals received after 5:00PM shall be considered submitted on the following business day.
3. Review periods for overlapping and/or concurrent submittals shall be linear and non overlapping. The review period of the concurrent/overlapping submittal will commence following the Department's return of comments on the previous submittal.

The fifty percent (50%) review shall require that all comments from the design detail check completed by the Design-Builder be addressed and signed off by a senior experienced Engineer as described in Subsection 106.1.2.1 – Engineer and included with the fifty percent (50%) design submittal. The eighty percent (80%) submittal shall include all comments from the fifty percent (50%) review made by the Department addressed and initialed by a senior experienced Engineer assigned to the Project as well as comments addressed and signed off from the Design-Builders final detail check of the eighty percent (80%) plan submittal. The eighty percent (80%) submittal shall include special provisions and QC/QA regarding the special provisions for the plan set submitted. Failure to submit the appropriate QC/QA documentation with either the fifty percent (50%) or eighty percent (80%) submittal will result in a rejection of the submittal and require a re-submittal by the Design-Builder.

Upon successful Completion of this process through the eighty percent (80%) design stage, the Design-Builder is then responsible for ensuring that all final comments to the plan package based upon the eighty percent (80%) review by the Department have been incorporated into the Design Documents and that required QC/QA has been completed prior to approving the plans and special provisions to be RFC as covered in Section 105.12.4 Release for Construction.

105.12.2.4.1 Preliminary Design. The Technical Proposal will be considered the Preliminary Design Report (PDR) for the Project. Use of the standard PDR forms is not required.

105.12.2.4.2 Release for Construction – Final Design Documents. RFC for any entire bridge package consists of the final set of design Plans, computations, Special Provisions, and QC/QA documentation for the complete bridge design package. The plans shall be in accordance with the Bridge Plan Development Guide and MaineDOT’s standard OpenRoads policies and practices. The Plans and computations shall be sealed by a Maine Licensed Professional Engineer.

The Design-Builder has the option to RFC design Plans for a particular bridge element. Early release can be for driving piles, constructing the footings and/or foundation, and submission and approval of the superstructure in order to meet procurement schedules.

The early release process requires submission of the design Plans of the particular bridge element, associated Special Provisions, associated computations, and QC/QA documentation as described in the Design-Build General Conditions along with a description of the elements to be released. The Plans and computations shall be sealed by a Maine Licensed Professional Engineer. Plans shall note that they represent an early release submittal and shall identify exactly what element is to be released. Any items shown on the design Plans that are not to be RFC shall be clouded and cross-hatched within the clouds.

Upon submittal of the design documents, whether for early release for construction or for final design submittal, the Department will determine if all necessary documentation is present. If all the information is included, the submittal will be reviewed. If all the required documentation is not included, the Design-Builder will be asked to supply the necessary information. Review of the submittal will not commence until all of the required documentation has been submitted. After the review period, the Department will notify the Design-Builder that the review is complete and

the final bridge design may be RFC. If there are comments, the comments will be provided to the Design-Builder. The Design-Builder is then responsible for ensuring that all final comments to the plan package based upon the review have been incorporated into the Design Documents and that required QC/QA has been completed prior to approving the Plans and Special Provisions to be RFC. At its discretion, the Department may require a re-submittal.

105.12.2.4.3 Design Documents. Submittal of Design Document Plans to local agencies shall be an electronic PDF file format. Final Design Documents shall be submitted in a form consistent with the Department's computer capabilities for receiving computer generated design plans and specifications.

105.12.3 Re-submittal Process. Re-submittal of any design review submittal may be required if deemed necessary by the Department. Each re-submittal shall address all comments from the prior review and corresponding QC/QA documentation shall be included. The Design-Builder shall not be entitled to any additional compensation or time extensions due to a re-submittal request by the Department.

The Design-Builder acknowledges and agrees that re-submittal of design packages including the final design Plans may be required. The Design-Builder shall resubmit as many times as necessary to obtain concurrence from the Department regarding the design submittal.

105.12.4 Release for Construction. Upon Completion of the eighty percent (80%) review comment responses to the design Plans and Special Provisions for Roadway or partial or final design Plans and Special Provisions for bridge structures, a final QC/QA review shall be completed by the QC/QA Manager. When the review is completed the design package may be approved for RFC by the QC/QA Manager.

The Design-Builder is responsible to release the Plans to field personnel and is responsible to ensure that there is a tracking mechanism in place so that all parties, field and office, have the same set of plans. The process for the final audit prior to RFC shall be included in the DQMP and shall include a method of tracking plans for RFC. The Design-Builder's construction QC/QA shall include the method for tracking plans RFC to field personnel.

The Design-Builder shall submit a final set of Design Documents (Plans, Special Provisions, design and check computations, and QC/QA documents) that is inclusive of early RFC plans. This submittal will be the final submittal and shall supersede all previous RFC packages.

105.12.5 Design Changes. The Department or the Design-Builder may initiate changes to the design after a design package has been RFC or to the final plan set. If these changes require amendments to environmental Permits and/or additional Right-of-Way, they shall be addressed prior to implementing the change. If such design changes are at the sole option of the Design-Builder, they are not scope changes and shall not be cause for additional time or compensation.

Design changes to segments that have been RFC or to the final Plans shall be approved in writing by the Designer responsible for the original design or by a Maine Licensed Professional Engineer of equal or greater experience than the original Designer, if the original Designer is no longer available. The changes shall be tracked and documented accordingly. This process shall be

included in the DQMP and the Department shall be given the time specified for a review of RFC to comment on these changes.

All Plans, Special Provisions and calculations prepared for design changes shall be sealed, signed and dated by a Maine Licensed Professional Engineer who possesses the requirements stated in the preceding paragraph. The QA Manager shall certify through the audit process that the design change has been designed in accordance with the contract and appropriate design criteria and checked in accordance with the DQMP process for design. Once approved by the QA Manager, the change will be issued for RFC and must be tracked as described in Section 105.12.4 Release for Construction. The Design-Builder is responsible to send the change to the Department and appropriate field personnel and ensure that it is tracked via the process as described in Section 105.12.4 Release for Construction.

The Department reserves the right, but not the duty, to review and approve all design changes.

105.12.6 Administration and Coordination.

105.12.6.1 Project Administrative Coordination. The Design-Builder shall, at a minimum, provide project administrative coordination during the design phase and prior to any construction activity. Such coordination shall include the coordination of design and construction disciplines and the Department. To accomplish this task, the Design-Builder shall provide a central location in Maine for the review and coordination of the Work. Such location shall include space for conference and office space for review of the designs by the Department.

When construction activities commence, the Design-Builder shall provide Project Administrative Coordination from an office located convenient to the Project site.

105.12.6.2 Project Administration Office. In addition to providing a Project administration office meeting the requirements for a Type A Field Office as specified in Section 639 – Engineering Facilities of the Standard Specifications with 10’x12’ minimum office space each for three (3) Department staff, the Design-Builder shall provide three (3) four-drawer vertical filing cabinets, three (3) 3’ x 4’ bookcases with adjustable shelves, and a conference room with a 3’ x 12’ conference table with ten (10) chairs. The Design-Builder shall provide each office space and the conference room with a telephone and data line. The Design-Builder shall notify the Department of the location of the Project Administration Office within two weeks after Notice to Commence Work.

105.12.6.3 Briefings for Community Groups, Landowners, and Others. The Design-Builder shall participate to the extent requested by the Department in Department-conducted briefings to affected landowners along the Right-of-Way, community groups, local agencies, and other persons as designated by the Department. At these briefing meetings, the Design-Builder shall provide oral, written, and graphic information as reasonably requested by the Department.

The purpose of these briefing meetings is to keep the attendees informed of the Project’s progress and to discuss key elements of design and construction as they emerge. Information to be provided by the Design-Builder shall include design issues affecting local streets and utilities, Street and General Requirements

Roadway detour design and implementation, scheduling of construction, hours of construction work, haul routes, methods to minimize noise and dust, landscaping and environmental mitigation measures, and other relevant topics. The Design-Builder should be prepared to present information on Project status and schedule reports and Plans and exhibits showing slope grading, bridge structures, retaining walls, as well as other relevant mitigation, aesthetic, and construction topics as requested by the Department. These meetings will be informational in nature and will not be for the purpose of seeking any approvals from the attendees. However, these meetings may result in follow-up meetings with the attending parties that may be used for further clarification.

105.12.6.4 Meeting Minutes. The Design-Builder shall attend all meetings called by the Design-Builder, Department or its authorized representatives, and third parties (including Utility Companies, municipalities and regulatory agencies) as appropriate. For all meetings at which the Design-Builder is required to be in attendance, the Design-Builder shall submit to the Department objective draft meeting minutes within five (5) Days after the meeting. Final meeting minutes incorporating any Department comments shall be submitted to the Department within five (5) Days after receipt of the Departments comments on such draft meeting minutes, as applicable. Draft meeting minutes may be submitted to the Department electronically with final meeting minutes submitted as hard copies. The Design-Builder shall be responsible for the distribution of final meeting minutes to all meeting attendees. Excluded from this requirement are internal meetings between the Design-Builder's team members.

At a minimum, all meeting minutes shall contain a complete list of attendees (including their affiliations, telephone numbers, and e-mail addresses if available), descriptions of issues discussed, decisions made, direction given, and remaining open issues (including identification of the party responsible for follow up and the target date for resolution).

105.12.7 Traffic Engineering.

105.12.7.1 Traffic Management Plan. The Design-Builder shall develop a Traffic Management Plan detailing all phases of work, proposed Road closures, maintenance of traffic through the work zone, and all construction accesses. The Traffic Management Plan shall also describe coordination efforts between adjacent projects and this Project. The Traffic Management Plan shall be in accordance with the Department's and MUTCD standards and shall be submitted in advance of construction to the Department for review and concurrence prior to implementation.

The Plan shall be prepared and implemented to promote the safe and efficient movement of people, goods, and services through and around the Project while minimizing impacts to local residents, businesses, commuters, and First Responders.

The plan shall specifically identify any planned closures, either full or partial, of any existing bridge, along with traffic detours and supporting traffic analyses. Any such closure shall be preceded by a concerted public information effort to communicate closure information to all affected parties. Supplemental Liquidated Damages, will apply as specified in the Project Requirements.

105.12.7.2 Signs: Guide, Warning, and Regulatory. The Work shall include traffic sign plans and installation as required by the Department and MUTCD criteria. Design Plans shall include a layout of the new permanent signing required, a sign legend, structural and foundation details and associated details for manufacturing and installation. The Design-Builder is also responsible for all design and construction related to modifying existing signs on the approaches and adjacent roadways due to the construction of the Project.

The Design-Builder shall be required to provide all sign supports and foundations in accordance with AASHTO LRFD Specifications for Structural Supports for Highway Signs and Luminaires, and Traffic Signals. The Design-Builder shall also provide protection for the sign structures as required. Requirements for electric service shall be coordinated with the local electric utility and provided by the Design-Builder.

105.12.7.3 Pavement Markings. The Design-Builder shall be required to design and install pavement markings in accordance with the Department's, applicable municipalities, and MUTCD's standards and specifications.

Temporary pavement markings used for traffic management shall be designed and installed in accordance with MUTCD standards. The Design-Builder is responsible to maintain these temporary pavement markings such that they are visible to traffic at all times and do not cause driver confusion through any portion of the Project or any area directly adjacent to the Work area. If needed, temporary pavement markings may extend past the Physical Work limits. **Upon completion of the traffic pattern changes temporary pavement markings shall be removed completely in a manner that reduces or eliminates visible grinding edge lines** and it is the responsibility of the Design-Builder to satisfactorily re-stripe these areas upon Completion of the Project.

105.12.7.4 Traffic Signals. If required, the Design-Builder shall be responsible for performing all traffic signal design and construction work in accordance with the Department's and MUTCD standards and specifications. All signals designed and constructed will have the proper traffic signal permits.

Traffic signalization plans for both temporary and permanent installations shall include layouts showing locations of traffic signal appurtenances, system coordination detection plans, signal controllers and lamps, interconnect details, signal phasing and timing, Specifications and item lists indicating all Material and Equipment, and all structural and foundation requirements. All new traffic signals shall be interconnected. The Design-Builder shall provide all traffic data and analysis used to prepare the signal timing and phasing plans. Design-Builder shall also coordinate its power needs with the local electric utility company, and any requirements for electrical service shall be provided by the Design-Builder.

105.12.7.5 Traffic Studies. The Design-Builder shall provide the required traffic analysis to support all proposed intersection designs and traffic signal layouts and timing. The Design-Builder is also responsible for performing all analyses necessary to support proposed traffic management strategies to be implemented during construction. The

Department must approve all proposed traffic management strategies prior to implementation by the Design-Builder.

105.12.8 Geotechnical Design and Construction.

105.12.8.1 Supplemental Boring Program. The Department recognizes that additional Geotechnical Information may be necessary to finalize the Project designs. Therefore, if specified in the Project Requirements, the Department will conduct a Supplemental Boring Program as part of the procurement process that will allow the Proposers to request additional borings and geotechnical testing. The results of the Supplemental Boring Program will be summarized in a Supplemental Geotechnical Data Report provided by the Department on or about the date specified in the Project Requirements.

For the Supplemental Boring Program, each Proposer will be allowed to request a maximum number of additional borings as specified in the Project Requirements.

Each of the Proposer's borings will be terminated with an approximately ten (10) foot long NQ bedrock core. At each boring location, Standard Penetration Tests (SPTs) will typically be conducted with a twenty-four (24) inch split spoon sampler at five (5) foot intervals. If soils at a boring location are primarily silt and clay, field vane shear tests (VSTs) will be performed at five (5) to fifteen (15) foot intervals as appropriate.

Each Proposer is allotted additional geotechnical laboratory testing services to assist them in developing their designs, and their requested boring program shall also include a schedule of standard soil and rock laboratory tests requested by boring and depth. The allotted types and number of standard soil and rock laboratory tests for each Proposer are as specified in the Project Requirements. The Department will not conduct soil or rock tests that are not listed.

The Department will exercise judgment in revising lab testing requests based on actual soil and rock samples recovered from supplemental borings. Proposers will be notified for concurrence regarding any need to revise soil or rock lab testing requests.

A blank Supplemental Boring Request Form is provided in the Appendix to the Project Requirements for the Proposer's use, if applicable. Each Proposer is responsible for submitting its requested boring program detailing the locations for the borings and its requested laboratory testing program to the Department on the form provided. The Supplemental Boring Request Form shall be delivered to the Department's Contract Representative as identified in the Project Requirements by the time specified on the date specified in the Project Requirements. Late submittals will not be accepted.

Borings proposed by different Proposers within forty (40) feet of each other will be averaged to one proposed location. If two or more mutually exclusive test samples are selected for the same location, the Department will make a reasonable effort to collect an adjacent or nearby sample of similar material from the same boring to accommodate both requests. If a useable sample (e.g., "undisturbed" or sufficient volume) cannot be obtained from the requested depth, the Department will make a reasonable effort to perform the test on an adjacent or nearby sample of similar material from the same boring. Soon after receipt of all Supplemental Boring Requests, a master list of borings will be provided to the Proposers. Boring locations may need to be relocated due

to site constraints so that conventional truck mounted rigs, ATV rigs, or spud barges may be used to drill the borings. The Department reserves the right to relocate borings due to site constraints. The Proposers will be notified for concurrence regarding any boring relocations.

Mobilization for this Supplemental Boring Program is scheduled to occur on or about the date specified in the Project Requirements. A Supplemental GDR with all final boring logs and laboratory test results will be available to all Proposers on or about the date specified in the Project Requirements. Draft boring logs from all borings requested by all Proposers will be provided to all Proposers as the data is being developed.

105.12.8.2 Final Geotechnical Investigations. Additional borings at the expense of the Design-Builder may be needed to satisfy final geotechnical design requirements necessary to meet the design standards.

105.12.8.3 Use of Geotechnical Information. The use of the geotechnical information provided by or referenced in this document, or encountered elsewhere is at the sole risk of the Proposer. Interpretations and analyses based upon any Geotechnical Information are at the sole risk of the Proposer. By submitting a Proposal, the Proposer is acknowledging that it has viewed the site, has read and understood supporting documents, and is willing to rely upon its own site understanding in proceeding with the Project. Furthermore, by submitting a Proposal, each Proposer certifies that, if awarded the Contract, it will not seek recourse with the Department for changed or unforeseen subsurface conditions except as provided in Section 109.2 of the Design-Build General Conditions.

105.12.8.4 Instrumentation Programs. If an instrumentation program is required to monitor vertical and/or lateral embankment deformations, soil pore-pressures, and/or structure movements, the instrumentation program shall be submitted with the Geotechnical Design Reports, for review and approval by the Department. The instrumentation program shall be developed by a Maine Licensed Professional Engineer with at least five (5) years of instrumentation experience.

The instrumentation program shall establish threshold movement of instruments from baseline conditions, such as allowable pore pressure increases or lateral deformations. The instrumentation plan shall also describe subsequent corrective actions that shall be taken if threshold movement(s) is/are exceeded.

If an instrumentation program is required, no construction shall be allowed until baseline pore pressures or movement data are collected.

The Design-Builder shall not decommission the instrumentation program at any time during the Project construction duration. The instrumentation shall be left in working condition and turned over to the Department, along with readout equipment at the completion of the Project.

105.12.8.5 Geotechnical Design Reports. The Design-Builder shall submit Geotechnical Design Reports that meet the requirements of the design submittal process described in Section 105.12.2 - Design Submittals and Reviews. Separate Geotechnical Design Reports may be submitted to accommodate a variety of pier, abutment or foundation designs, as

subsurface conditions vary across the site. The Final Geotechnical Design Report(s) shall include, but is not limited to, the requirements listed below:

- A. Interpretation and analysis of soil and bedrock conditions based on the Geotechnical Information available and other investigations conducted by the Proposer.
- B. Design and construction recommendations for the following, as applicable:
 - a. Bridge substructures: spread footing, and/or deep foundation.
 - b. Retaining walls: type, foundations, settlement, backfill
 - c. Embankment slope stability and special embankment construction: soil modification, lightweight fills, staged construction
- C. Performance criteria of structure foundations and highway embankments - total and differential settlement of retaining walls, highway embankments, bridge foundations (lateral and axial).
- D. Construction inspection and Quality Control programs, including load testing programs to verify design resistances and installation procedures for piles and/or drilled shafts, if used.
- E. Instrumentation programs, if necessary, to monitor embankment or Substructure response to construction activities. Instrumentation programs shall establish threshold movement of instruments from baseline conditions. The instrumentation plan shall also describe reading frequencies, reporting protocols, and subsequent corrective actions that shall be taken if threshold movement(s) is/are exceeded.
- F. Construction considerations for all of the above geotechnical elements.
- G. Sheets
 - a. Site Location Map
 - b. Boring Location Plan Sheet(s)
 - c. Interpretive Subsurface Profile Sheet(s)
- H. Appendices
 - a. Boring logs
 - b. Laboratory test results
 - c. LRFD geotechnical analyses and design calculations

- d. Project specific special provisions
- e. Other

If the Design-Builder determines that preconsolidation is required due to underlying clay deposits (e.g., in embankments), evaluation of changes in clay shear strengths during staged construction and minimum surcharge fill heights should be performed in accordance with accepted procedures, such as the methods described in Ladd, 1991 (“Stability Evaluation During Staged Construction”, Journal of Geotechnical Engineering, ASCE, Vol. 117, April, pp. 540-615) and Stewart et al, 1994 (“Settlement of Large Mat on Deep Compressible Soil”, Proceedings of Settlement ’94 Conference, ASCE Specialty Geotechnical Conference, Special Publication No. 40, Vol. 2, pp. 842 to 859), respectively.

105.12.9 Bridge Design and Construction.

105.12.9.1 Design Requirements. The bridge and its foundations shall be designed in accordance with the most current AASHTO LRFD Bridge Design Specifications and the Bridge Design Guide (BDG). If required, seismic design shall be in accordance with the most current AASHTO guide specification for LRFD Seismic Design or the most current AASHTO LRFD Bridge Design Specifications.

105.12.9.2 Scour Design Requirements. The bridge shall be designed to withstand scour in accordance with the BDG.

105.12.9.3 Geometric Requirements.

- A. Horizontal Location and Profile shall meet the requirements identified in the Project Requirements.
- B. Typical Bridge Cross-Section:
 - a. Provide all bridge cross-section elements as identified in the Project Requirements.
 - b. Account for any additional width necessary to accommodate additional Lane widths or tapers required for the approaches to the bridge.

105.12.9.4 Additional Design and Performance Criteria. Unless otherwise specified in the Project Requirements, the Design-Builder shall meet the following requirements, as applicable:

1. All construction materials shall be in accordance with the Department’s Standard Specifications. No experimental or previously unapproved Materials shall be used without prior written approval by the Department.
2. All bridge Superstructures, joints, bearings, and restraints shall be made accessible for long-term maintenance and inspection. The Design-Builder shall consider items such as: tie-off points for inspection of the bridge underside via boat, paths/access to

- abutment seats, jacking points/locations for ease of bearing replacement, and other similar measures.
3. The Superstructure for any replacement bridge shall be horizontally and vertically restrained against hydraulic, debris, and/or ice impact loads in the event flood water and/or ice elevations rise above the Superstructure low point.
 4. Corrosion resistant reinforcing systems shall be used in all areas specified in the Project Requirements and BDG.
 5. If a bituminous wearing surface is proposed, it shall consist of modified asphalt on a high performance membrane.
 6. New bridge Superstructures shall be designed to minimize or eliminate Roadway joints in the deck.
 7. No longitudinal joints for expansion shall be allowed.
 8. Unless specifically prohibited in the Project Requirements, if weathering steel girders are proposed, then:
 - a. the girder ends and bearing stiffeners shall have a steel coating system applied to a distance ten (10) feet from the centerline of bearing at the abutments in accordance with Section 506, Shop Applied Protective Coating – Steel;
 - b. the design shall incorporate means to prevent staining on the piers from the weathering steel; and
 - c. FHWA Technical Advisory T5140.22, dated October 3, 1989, shall be followed for direction on minimum vertical clearance over typical water levels.
 9. Substructure design shall effectively resist all applicable ice loadings, with the upstream nosing of the piers designed/shaped to effectively break-up or deflect floating ice and debris, with suitable nosing protection provided.
 10. Cofferdams, if required, shall be utilized to construct abutments and piers in the dry, as well as confine sediment and debris generated during construction.
 11. Snow fencing is required with open bridge rails over all interstates, pedestrian facilities, and railroad tracks.
 12. Where necessary, Drainage of the Superstructure shall be through Roadway drains complying with the Department's details for standard bridge drain found in the Standard Details. Drain spacing shall be designed to keep all accumulated water out of the travel Lanes and shall be designed following the criteria described in the BDG.
 13. No bridge drains shall be allowed within any U.S. Coast Guard regulated navigational channel.

14. Permanent bridge railings and approach/transition railings shall meet the requirements of Chapter 4 of the Bridge Design Guide and FHWA's requirements as defined by MASH for crash tested barriers. All temporary barriers to be installed on the new or existing bridge to protect the work zone shall be attached to the bridge superstructure in accordance with crash tested details.
15. If piles are designed for bridge foundation support, the Design-Builder may not install the piles until at least ninety percent (90%) of primary consolidation of compressible soils is complete.
16. All bearings shall be reinforced elastomeric bearings or disc bearings, as required by the proposed Superstructure design.
17. All bridges shall be designed to achieve a load rating over 1.0 for the HL-93, EV 2, EV 3, and MaineDOT's 10 RPV load configurations. Results shall be provided with the Department's standard load rating summary form.

105.12.9.5 Demolition of the Existing Bridge. Demolition shall conform to relevant portions of the Department's Special Provision, if provided with the RFP, for Demolition and to the extent specified in the Project Requirements.

Unless otherwise specified in the Project Requirements, the existing bridge shall be removed by and become the property of the Design-Builder.

When the Project Requirements identify the existing bridge as containing steel portions that are coated with a lead-based paint system, the Design-Builder shall be responsible for the containment, proper management and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the bridge. The Department will assume generator responsibility for any hazardous waste generated as a result of the removal process at the bridge site; this waste shall be transported and managed by a MaineDOT approved vendor. The Design-Builder is responsible for implementing appropriate personal protection standards mandated by OSHA related to this process.

Once the existing bridge is removed from the bridge site, the Design-Builder is solely responsible for the care, custody, and control of the components of the existing bridge - any hazardous waste generated as a result of storage, recycling, or disposal of the bridge components, including the lead-coated steel, shall be the sole responsibility of the Design-Builder. The Design-Builder shall recycle or reuse the steel in accordance with Maine Department of Environmental Protection (MDEP) Regulation Chapter 850, a copy of which is available at the Department's offices. Payment for all labor, Materials, Equipment and other costs required to remove and dispose of the existing bridge will not be made separately, but shall be included in the Lump Sum Price of the Project.

The Design-Builder shall submit a Bridge Demolition Plan to the Resident, at least ten (10) Days prior to the start of work on this item. This plan shall outline the methods and Equipment to be used to remove and dispose of all Materials included in the existing bridge. Part of this plan must include the use a MaineDOT approved vendor for the transport and management of any hazardous waste generated at the bridge site. No work related to the removal of the bridge shall be undertaken

by the Design-Builder until the Department has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Demolition Plan will not be made separately, but shall be included in the Lump Sum Price of the Project.

Demolition requirements may change due to permit or 106/4(f)/NEPA stipulations.

105.12.10 Retaining Walls. All retaining walls shall be designed in accordance with AASHTO's LRFD Bridge Design Specifications, MaineDOT Standard Specifications and the Special Provisions listed in Appendix.

For continuity/aesthetic reasons, any retaining wall designed for this Project shall fit into one of the following categories, unless otherwise specified in the Project Requirements:

- A. Reinforced concrete cast-in-place construction,
- B. Precast Concrete Modular Gravity (PCMG) walls as described in Chapter 5 of the BDG (PCMG walls shall not support bridge abutment foundations),
- C. Precast Concrete Block Gravity (PCBG) walls (PCBG walls shall not support bridge abutment foundations) as described in Chapter 5 of the BDG, or
- D. Mechanically Stabilized Earth (MSE) retaining wall system. MSE walls shall not be used where the wall will be exposed directly to flowing water for all flow conditions.

Wall types and aesthetic treatments shall be reviewed as part of the fifty percent (50%) Design Submittal prior to beginning final design.

Retaining walls and abutments shall be designed and constructed to fit within the proposed Right-of-Way and shall provide a five (5) foot separation from the base of the wall to the proposed Right-of-Way for maintenance purposes.

105.12.11 Drainage.

105.12.11.1 Objectives. The Design-Builder shall provide a well-drained corridor and a safe environment for those that use and maintain the facility. Work for all Drainage structures and appurtenances shall adequately address functionality, durability, ease of maintenance, maintenance access, safety, aesthetics, and protection against vandalism. In fulfilling the requirements for Drainage, the Design-Builder shall abide by and fulfill the requirements related to Drainage features or systems while at the same time meeting the requirements of other required design elements on the Project.

The Design-Builder shall be aware and fully comply with federal, state, and local laws related to drainage design, as well as all applicable Governmental Approvals, including Environmental Approvals, and shall perform the Work such that there will be no substantial adverse effects on adjacent properties or Drainage systems.

105.12.11.2 Drainage Design. The Design-Builder shall be responsible for drainage design, including hydrologic and hydraulic analysis as required, locating, sizing, and constructing all temporary and permanent drainage facilities. The design documents shall include a Final Drainage Report including calculations, storm drain plans, profiles, details, and site protection during the Work. Surface drainage shall be designed to accommodate anticipated settlement in embankments and operate effectively. The Design-Builder shall confirm applicable standards with the Department and any State or local government agency.

The Drainage systems for the Project shall be designed to accommodate the surface runoff generated by the new facility, offsite Drainage currently being accepted into the existing Drainage system, and seasonal high water flooding.

105.12.12 Survey. The Design-Builder shall furnish all additional surveys necessary to complete the Work in conformance with this Contract, the Department's Survey Manual, Department Specifications, and any local agency requirements.

Available survey information has been provided on the Project website.

The Design-Builder shall bear sole responsibility for the accuracy of additional survey data used in the Design. The Design-Builder shall review existing survey data and determine the requirements for new and additional survey and mapping data. The Design-Builder shall be responsible for the final precision and accuracy of all survey and mapping work. All field notes are to be recorded in Field Survey Notebooks that will be turned over to the Department at the end of the Project.

Survey Services and Survey Deliverables. Survey documents shall be a part of the design documents and shall include:

- A. A horizontal and vertical coordinate listing, monument description, and location description of all primary and secondary survey control points installed, marked, and referenced along with a listing of the existing control used to create the installed control points;
- B. Survey notes, Plans, and calculations completed as the Work progresses and all originals and two copies of each survey document;
- C. Construction staking plans. Construction survey notes shall be provided to the Department.
- D. Construction staking as deemed appropriate by the Design-Builder;
- E. Original diary forms and related original survey record keeping; and
- F. Construction staking survey control data key map and line index plans (to be included in the Construction Plans).

Horizontal Control. All horizontal data for the Project shall be in the Maine State Plane Coordinate System (SPCS) on the North American Datum of 1983(96), US Survey Feet, (NAD 83(96)) ME2000 CENTRAL ZONE or ME2000 WEST ZONE, whichever is applicable.

Vertical Control. Vertical control for the Project shall be established on the North American Geodetic Datum of 88, US Survey Feet, (NAVD88).

Electronic Field Book (EFB) Data. The use of an EFB to collect and store raw data shall follow the procedures described in the Department's Survey Manual. Original raw data shall always be preserved, and any changes or corrections made to field data, such as station name, height of instrument, or target shall be documented. Raw field data shall also be preserved in hard copy output forms similar to how a conventional field book is preserved.

Survey Notebook Data. Field Survey data and sketches which cannot be efficiently recorded in the EFB should be recorded in a Field Survey Notebook furnished and stored with copies of electronic data.

Electronic Deliverables. All collected survey data shall be Digital Terrain Model (DTM) and be created and submitted to the Department using the version of Bentley OpenRoads specified by the Department's CADD standards. The Department's CADD standards can be found at: <https://www.maine.gov/dot/doing-business/cadd/standards>.

Permanent Survey Control Network. The Design-Builder shall establish and maintain permanent survey control network in accordance with the Department's Survey Manual. The Design-Builder shall replace all existing survey monuments and control points disturbed or destroyed by the Design-Builder and shall place new survey monuments and control points as required to accomplish the Work. In addition, the Design-Builder shall install permanent survey control points for Roadway improvements as requested by local agencies.

The Design-Builder shall make all computations necessary to establish the exact position of the control points based on the primary control. A listing of all coordinate values, original computations, survey notes, and other records made by the Design-Builder shall be supplied to the Department as a condition to Final Acceptance. The Design-Builder shall replace any control points requiring replacement as a condition to Final Acceptance.

105.12.13 Utilities.

105.12.13.1 Scope of Work. Unless otherwise specified in the Project Requirements, construction of the Project will affect utilities. The Design-Builder shall coordinate the utility work to ensure that utilities are properly identified and that all necessary relocations occur so as to enable the Design-Builder to achieve completion of the Project in accordance with the Contract. Services include: the identification of utilities requiring relocation and notifications to and negotiation of design and agreements with Utility Owners.

The design shall address the manner in which utilities will be maintained and/or temporarily or permanently relocated. Utilities may be supported or integrated onto the new bridge.

105.12.13.2 General Design-Builder Responsibilities. The Design-Builder shall ensure that all utility work is completed.

The Design-Builder shall certify in writing to the Department that all necessary arrangements have been made for proper coordination of utility work with physical construction in accordance with Subsection 104.4.6 – Utility Coordination of the Design-Build General Conditions.

The Design-Builder shall carry out all work carefully and skillfully and shall support and secure its work so as to avoid damage to all utilities. Flow in drains, sewers and water supply lines shall be satisfactorily maintained. Unless otherwise directed by the Utility Owner, the Design-Builder shall not move or remove any utility without the Utility Owner’s written consent. At the Completion of the Work, the condition of all utilities shall be as safe and permanent as before. If any utilities are damaged by the Design-Builder, it shall notify the affected Utility Owners, which may cause the damage to be repaired at Design-Builder’s expense.

105.12.13.3 Ascertaining the Location of Utilities. The Design-Builder bears full responsibility for ascertaining, at its own expense, the existence and exact location and size of any utility to be relocated or otherwise impacted on either a temporary or permanent basis for the Project. If a surface inspection of the area shows the existence of or gives the Design-Builder cause to suspect the existence of any previously unidentified utilities, or the Design-Builder otherwise has cause to suspect that other previously unidentified utilities exist, then the Design-Builder shall undertake all appropriate investigations by contacting Utility Owners and conducting field investigations at the expense of the Utilities as necessary to verify the existence, location, and size of such utilities.

105.12.13.4 Commencement of Utility Work. Subject to the availability of Right-of-Way, the Design-Builder may cause the Utility Companies to start their work at any time following the date specified in the NTCW or after approval by the Department. The Design-Builder is responsible for causing the utility work to be completed in order to permit construction of the Project according to the construction schedule, as approved by the Department.

105.12.13.5 Inspection/Approval of Utility Design and Construction. The Design-Builder shall permit Utility Owners to inspect utility work.

105.12.13.6 Policy of Avoiding Relocations. The location of utilities and potential impact of relocations shall be considered by the Design-Builder in developing changes to the Department-supplied information pursuant to Section 6 with the following goals:

- A. avoiding relocations to the extent practicable;
- B. if a relocation is not reasonably avoidable, protecting the utility in place to the extent practicable; and
- C. otherwise minimizing the potential costs and delays relating to relocations to the extent practicable.

105.12.13.7 Scheduling and Cost Risks. Refer to Section 109.3 of the Design-Build General Conditions, Adjustments for Delay. Unless otherwise specified in the Project Requirements, Utilities shall be considered a third party.

105.12.13.8 Utility Diaries and As-Built Plans. The Design-Builder shall maintain utility diaries and a set of as-built utility maps that are clearly legible, accurate, and complete. The standards for preparation of all Design Documents relating to Utilities and final as-built plans shall conform to all applicable Department requirements.

105.12.13.9 Agreements. The Design-Builder shall write all agreements as three-party agreements for the Department, the Utility Owner, and the Design-Builder.

105.12.14 Railroad Coordination.

105.12.14.1 Railroad Flagging and Other Services. The Design-Builder shall be responsible for requesting and using flaggers furnished by the Railroad when working on or near the tracks, unless such requirements are waived by the Railroad. If the Work would cause a hazard to the safe operation of the trains or other railroad facilities (including communication lines) on railroad Premises, the Railroad may provide the necessary qualified employees to protect its trains and other facilities at the Design-Builder's expense.

105.12.14.2 Special Provisions. The Design-Builder shall follow the requirements of Special Provision - Blasting Procedures Adjacent to the Railroad and Special Provision - Protection of Railroad Traffic and Structures.

105.12.14.3 Agreements. The Design-Builder shall write all agreements as three-party agreements for the Department, the Railroad, and the Design-Builder.

105.12.15 Right-of-Way.

105.12.15.1 Right-of-Way Mapping Services. Unless otherwise specified in the Project Requirements, the Design-Builder shall provide Right-of-Way mapping services for properties to be acquired by the Department, including Existing Condition Plans and Final Right-of-Way mapping.

- A. The Design-Builder will be responsible for delivering Right-of-Way functions described above in full compliance with the MaineDOT Right-of-Way Manual.
1. Any conflicts discovered by the Design-Builder between written authorities such as what is stated in the RFP and the MaineDOT Right-of-Way Manual or other implementing regulations must be brought to the attention of the Department's Right-of-Way Manager designated for the project.
- B. A resource plan for property related services for this project must be submitted to the Department's Project Manager for MaineDOT Property Office review and approval before the Design-Builder performs any Right-of-Way work on the project. The resource plan must identify employees or subcontractors who

will be performing the Right-of-Way services required for the project and further described in the Department's Right-of-Way Manual. The Property Office will determine if the firms or persons in the plan are specifically qualified for the associated assignments. People and companies on the Department's current pre-qualified consultant firms list are generally qualified to do work for the Department but, due to the wide array of consultant expertise, it is critical that the appropriate consultant is chosen for the specific task at hand. Any persons or companies not pre-qualified must meet the Department's prequalification requirements for those services and be on the Design-Builder's approved resource plan before commencing work.

- C. The Design-Builder shall submit a Right-of-Way action schedule to the Department's Project Manager for review and approval before initiation of Right-of-Way acquisition. This will include:
 - 1. Identification of buildable segments of Right-of-Way that may proceed to construction when Right-of-Way acquisition and relocation are complete and independent of Right-of-Way status on other project segments.
 - 2. A proposed time schedule that includes prioritization of activities and performance of acquisition and relocation.
 - 3. A cost estimate for performance of each Right-of-Way phase or function for which the Design-Builder will be responsible.
- D. The Design-Builder will develop a Right-of-Way tracking system to provide ongoing project status of appraisal, acquisition, and relocation. This system will include an up to date electronic contact report which includes summaries of discussions and correspondence with individual property owners.
- E. The decision to advance a segment or phase to the construction stage shall not impair the safety of or in anyway be coercive in the context of 49 CFR 24.102(h) with respect to unacquired or occupied properties on the same or adjacent segments of the project.
 - 1. In accordance with Title 23 CFR Section 710.313, a design-build project may be authorized for construction in phases or segments as Right-of-Way for an individual property or group of properties are available. A project phase will be authorized under the same conditions of Right-of-Way certification as are required for traditional contract projects as described in 1-2.02(b) of the Department's Right-of-Way Manual. Prior to physical work being performed, the Department must have legal possession of all property for the phase of construction and occupants and personal property must have vacated.

105.12.15.2 Property Acquired by the Department. The Department will be responsible for completing the administrative process necessary for land acquisition and for acquiring the land or interests in lands that are required for the Project. The Design-Builder Existing Conditions Plans (ECP) shall be submitted to the Department for review and approval prior

to the start of preliminary mapping. The Department will have (20) Days to review and comment on the initial ECP submittal. The Design-Build preliminary Right-of-Way Plans shall be submitted to the Department when property design impacts are complete. The submittal shall include an itemized list of divergences from any previous preliminary plans provided by or submitted to the Department. The Department shall have twenty (20) Days to review and comment on the initial preliminary Right-of-Way Plans submittal. Upon submittal of final Right-of-Way plans, the Department shall have ten (10) Days to review and comment as necessary. After the Department has approved the final Right-of-Way plans for a segment or construction phase, the Department will be provided six (6) months to obtain possession of the properties identified for acquisition in the segment or phase. If the Design-Builder requires Right-of-Way on properties for which the Department cannot exercise eminent domain, more time may be required for those properties to be acquired. The Design-Builder shall be prepared to assist the Department during the negotiation process.

105.13 Document Management System. The Design-Builder shall provide a secure web-based document management system to store and share all Project communication and documentation between the Design-Builder and the Department. The document management system shall be accessible to all Design-Builder personnel and to the Department's Project personnel, and be capable of timely email notifications of new uploads to all appropriate personnel. The document management system shall incorporate a file structure similar to the following at a minimum and as applicable:

- A. Project Background Information
- B. Team Directory
- C. General Correspondence
- D. Minutes (Public Involvement Meetings, Partnering Meetings, Progress Meetings, Over the Shoulder Reviews)
- E. Requests for Information (RFI) and Responses (Design and Construction)
- F. Environmental Information and Documentation (Permits, Erosion and Sedimentation Control Plan, etc.)
- G. Design Plan Submittals and Responses (DQMP, Geotechnical, Approaches, Pavements, Hydrology/Hydraulics/Scour, Substructures, Superstructures, Lighting, Utilities, etc.)
- H. Final Design Documentation (Geotechnical Design Report, Drainage Design, Bridge Design and Check, Bridge Load Ratings, Special Provisions, Earthwork Computations, Quantity Computations, etc.)
- I. Release for Construction (RFC) Plans

- J. Construction Documentation (CQMP, Quality Control Documentation, Quality Acceptance Documentation, Non-Conformance Reports and Responses, Remedial Work Plans, Punch Lists, etc.)
- K. Submittal and RFI Logs
- L. Schedules
- M. Other Project Transmittals (Emergency Contact Information, Subcontractor Notice, Traffic Management Plan, Blasting Plan, Bridge Demolition Plan, Shop Drawings, Maintenance Plan, Right-of-Way Action Schedule, Right-of-Way Maps, etc.)
- N. Photos/Videos

SECTION 106 - QUALITY

Scope of Section. This section contains general provisions related to the Quality of work including roles, standards, Materials, Quality Control, Acceptance, Non-conforming Work, and warranties. When specified in the contract, the Department will use the quality level analysis in this Section to determine quality-based pay adjustments.

106.1 Quality Assurance during Design. To ensure that the Design-Builder's design fulfills the requirements of the Contract Documents, and the Materials, Equipment, and all elements of the Design-Builder's Work perform satisfactorily for the purpose intended, the Design-Builder shall provide a Design Quality Management Plan (DQMP) for project design. The plan shall be prepared and submitted for review and concurrence by the Department. The Design-Builder shall at all times abide by the requirements of this plan. The DQMP shall be submitted within twenty (20) Days of NTCW.

The DQMP objective is intended to place the responsibility for the quality of the design on the Design-Builder, facilitate construction by the Design-Builder, and allow the Department to fulfill its responsibilities of exercising due diligence in overseeing the design process and products.

106.1.1 Plan. The Design-Builder shall submit a DQMP that ensures that all Design Documents are prepared in accordance with generally accepted design and engineering practice and meet all requirements of the Contract Documents. The plan shall:

- A. Describe the Quality Control and Assurance procedures the Design-Builder's design plans, specifications, reports, calculations, and other documentation used for construction will follow for the Project and be organized by design discipline (structural, civil, utilities, etc.). These procedures shall specify appropriate quality requirements and control deviations from such requirements.
- B. Describe the QC/QA procedures for preparing and checking all plans, specifications, calculations, reports, and all other documents that Designers will prepare for use by the Design-Builder. Independent checking and back checking of these documents shall be in accordance with industry accepted practices. Computer program verification shall also be included. This shall pertain to all designs including Release for Construction packages issued prior to final design plans.
- C. Describe the procedures for coordinating and ensuring that all work performed by subconsultants and other design disciplines has proper QC/QA as required in the DQMP to ensure that conflicts, omissions, or misalignments do not occur between design discipline Drawings or specifications.
- D. Describe the procedures that ensure that the Design-Builder personnel are familiar with the provisions of the Contract Documents concerning their respective responsibilities. Provide for training and certification as appropriate of personnel performing activities affecting or assessing the quality of design and to ensure that the design is performed in accordance with the DQMP and Contract requirements.

- E. Describe the independent Quality Control and Quality Assurance organization, including the number of employees with specific Quality Control and Quality Assurance responsibilities. A chart showing lines of responsibility shall be included. Persons and organizations performing QC/QA functions shall have sufficient authority to identify quality problems and to initiate, recommend, provide and verify implementation of solutions. Persons performing QC/QA functions shall be at an organizational level that ensures that the proper performance of their duties is not influenced by the potential impacts to project schedule.
- F. Identify the names, Qualifications, duties, and authority of each person assigned as either a QC or QA reviewer. Each person assigned to a QC or QA role shall be exclusively designated as such and will perform no work related to the design that they are reviewing.
- G. Identify the process for all quality audits and also the Release for Construction of Design plans and specifications and clearly state the person responsible for each of these activities. Auditors must be completely independent from the design process.

106.1.2 Quality Assurance Manager for Design. The Quality Assurance (QA) Manager identified in the Proposal is considered one of the Project's key personnel. The QA Manager shall be responsible for the overall management of the design QC/QA process. The QA Manager shall be a Maine Licensed Professional Engineer and shall report to the Design-Build management team. The QA Manager shall have sufficient authority to affect change as necessary to assure quality of the design, and shall not be involved in scheduling, production or budget activities.

106.1.2.1 Engineer. The Design Manager shall designate (by name) an Engineer. The Engineer shall be a Maine Licensed Professional Engineer who is responsible for directly supervising the Design and who will stamp, sign and date all design plans, reports and specifications for a given item or segment of the Work.

106.1.2.2 Senior Experienced Engineers. The Design-Builder shall provide senior experienced engineers to check all design work. These engineers (Design Checkers) shall be Maine Licensed Professional Engineers in the design discipline and type of work being checked and shall have an equal or higher level of qualification and experience than the engineers performing the design. Design Checkers shall not be directly involved with the design item, segment, or phase being checked. If Design Checkers are not available within the design firm conducting the design work, the Design-Builder shall arrange with an independent firm, other than the design firm or subsidiaries of the design firm, to conduct QC checks. The independent firm shall follow the DQMP for conformance with QC procedures for this Work.

106.2 Quality Assurance during Construction. This section contains general provisions related to the Quality of Work including roles, standards, Materials, Quality Control, Acceptance, Independent Verification, Independent Assurance, Non-conforming Work, and warranties.

106.2.1 Roles Regarding Quality.

106.2.1.1 Cooperation. The Design-Builder and the Department shall work cooperatively within their respective quality responsibilities to produce and document a high quality project, meeting or exceeding the quality requirements of the Contract.

106.2.1.2 Role of the Design-Builder. The Design-Builder is responsible for the quality of construction and Materials incorporated into the project. The Design-Builder's Quality Control and Acceptance activities shall insure that the final product meets all Contract requirements and will perform satisfactorily for the purposes intended.

The Design-Builder's Project Manager shall be responsible for all aspects of the quality of construction, including labor, Equipment, Materials, Incidentals, processes, construction methods, and QC testing and inspection.

The Design-Builder's Construction Quality Manager shall be responsible for all Acceptance activities, including Acceptance sampling and testing, inspection, rejection of non-conforming work, and documentation of Acceptance activities.

The Design-Builder shall develop, submit for approval, implement, and adjust if necessary a Construction Quality Management Plan (CQMP) for the work specified which details all activities necessary to assure a high quality project. The CQMP shall include both a Quality Control Plan and an Acceptance Plan. The CQMP shall establish a clear distinction between QC and Acceptance activities and the personnel performing each function. The CQMP shall be administered by an individual that reports to the Design-Build management team and shall have sufficient authority to affect change as necessary to assure a quality project.

106.2.1.3 Role of the Department. The Department is responsible for approving the CQMP, and assuring that the Design-Builder is following the CQMP. The Department will perform random Independent Verification sampling, testing, and inspection for any element of the Work to ensure compliance with the CQMP and Contract requirements. The Department may also sample and test at any time if the material appears defective or when the Department determines that a change in the process or product has occurred. The Department may perform Independent Assurance Inspection sampling and/or Testing at any time.

106.2.2 Quality Standards.

106.2.2.1 Conformity with Contract. The Design-Builder shall comply with all Contract requirements in performance of the Work. Any required plans such as the CQMP, the TCP, and the SEWPCP, as approved by the Department, are binding upon the Design-Builder as Contract requirements.

106.2.2.2 Standards. All work, to the extent applicable, shall conform to the appropriate, related, current editions of the following publications, including, but not limited to:

Maine Department of Transportation:

- A. Design-Build General Conditions
- B. Standard Details and Supplemental Standard Details

- C. Standard Specifications with Interim Specifications
- D. Outline of the Department's latest Project Development Process
- E. CADD Standards
- F. Bridge Design Guide
- G. Bridge Plan Development Guide
- H. Highway Engineering Website
- I. Survey Manual
- J. MaineDOT Right-of-way Policies and Procedures
- K. MaineDOT Utilities Policies and Procedures
- L. MaineDOT Construction Manual
- M. MaineDOT Metric Conversion Plan
- N. MaineDOT Best Management Practices for Erosion and Sediment Control
- O. MaineDOT Format for Bridge Geotechnical Reports
- P. MaineDOT Format for Highway Geotechnical Reports

AASHTO:

- A. A Policy on Geometric Design of Highways and Streets
- B. LRFD Bridge Design Standards with Interim Specifications
- C. Standard Specifications for Highway Bridges with Interim Specifications
- D. LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals
- E. Other Applicable AASHTO Standards and Guide Specifications

Highway Research Board:

- A. Highway Capacity Manual, SR 209

U.S. Department of Transportation:

- A. Pertinent Federal-Aid Policy Guides
- B. Rules and Regulations, Federal Highway Administration
- C. Manual on Uniform Traffic Control Devices for Streets and Highways
- D. Roadside Design Guide
- E. FHWA Right-of-Way Project Development Guide
- F. FHWA Hydraulic Engineering Circulars
- G. FHWA Geotechnical Engineering Circulars

Deviations from any of those referenced design standards must be justified by the Design-Builder in writing.

106.2.2.3 Conformity with Other Standards. Unless otherwise provided in the Contract, all Work shall conform to the following standards, as applicable.

- A. The Department
- B. AASHTO

- C. ASTM
- D. AREMA
- E. Standard conditions and special conditions contained in any permit
- F. Manual for Assessing Safety Hardware (MASH)
- G. Manufacturer's Specifications and Recommendations
- H. Americans with Disabilities Act (ADA)

106.2.2.4 Industry Standards. If there is no applicable standard set forth in this Contract for a particular item of work, then the Design-Builder shall perform that item of work in accordance with industry standards prevailing at the time of bid.

106.2.2.5 Endorsed and Sealed. As applicable, all plans, specifications, estimates, and data prepared by the Design-Builder shall be signed and sealed with a State of Maine seal by the Design-Builder's Licensed Professional Engineer, Landscape Architect, Geologist, Site Evaluator, Surveyor, Soil Scientist, Appraiser, or other professional, as applicable under Maine State Law.

106.2.3 Material Quality.

106.2.3.1 General. Materials and manufactured products incorporated into the Work shall be new unless otherwise specified, free from defect, and in Conformity with the Contract.

When material is fabricated or treated with another Material or where any combination of materials is assembled to form a finished product, any or all of which are covered by specifications, the Department may reject the finished product if any of the components do not comply with the specifications.

Title to all hot mix asphalt to be furnished by the Design-Builder shall pass to the Department immediately before installation. The preceding sentence shall not in any way affect any right or remedy the Department has relating to the quality of the material, installation, or workmanship.

106.2.3.2 Quality Requirements. Materials shall meet the requirements of the Contract at the time they are incorporated into the Work. The Design-Builder shall sample and test proposed sources of materials, using accepted procedures and Equipment no more than forty (40) Days prior to use. Materials shall not be used in the Work until passing results are obtained and provided to the Department. The Design-Builder shall provide the Resident with a copy of the passing test results, including the source of the Material as identified in Section 105.8.6.

The Design-Builder shall perform QC inspection, sampling, testing, and documentation in accordance with the Contract requirements and the CQMP. For work without specific QC requirements, the Design-Builder shall perform inspection, sampling, and testing, as the Design-Builder deems necessary to ensure adequate process control and end product quality.

The Design-Builder shall provide all facilities, testing Equipment, and material samples as the Department may require to collect and forward Acceptance and IA samples, and conduct related field tests.

The Design-Builder shall supply Materials and perform work using methods and Equipment in a manner which will not degrade the quality of the Materials. Materials with prior approval that become unfit for use or fall outside the specification limits will result in the affected product being declared Non-conforming Work. For a related provision, see Section 106.2.4.12 – Non-conforming Work.

For materials fabricated at facilities that are remote from or adjacent to the work site, the Design-Builder shall provide full-time Acceptance personnel. The Department, at its sole discretion, may allow part-time coverage at fabrication facilities, should the Design-Builder demonstrate to the Department how this diminished oversight will maintain the integrity of the process.

The cost of the Design-Builder's QC and Acceptance activities and its cost for furnishing facilities, testing Equipment, and samples for the Department/s Acceptance and IA activities are included in the Lump Sum Price.

106.2.3.3 Sources.

- A. General. The Design-Builder shall furnish all Materials and products required to complete the Work, except as otherwise provided in the Contract. Unless otherwise specified in the Contract, the Design-Builder shall use only those products contained on the Department's List of Pre-Approved Materials (available on the Department internet site), if a list is established for that type of product or Material. For any Material on the Department qualified products list that is being considered for incorporation into the Work, it shall be the Design-Builder's responsibility to verify that the Material is appropriate for the use being considered.
- B. Department Furnished Materials. The Contract may specify that the Department will furnish certain Materials. If the Design-Builder reasonably believes that the Department-furnished Material is deficient in any way, the Design-Builder shall immediately notify the Department before accepting delivery. After acceptance of delivery, the Design-Builder is responsible for all risk or loss of Department-furnished Material. The cost of inspecting, handling, and storing Department-furnished Materials after delivery is incidental to the Contract. The Department may deduct from amounts otherwise due the Design-Builder all costs necessary to make good any shortage, damage, or deficiencies discovered after the Design-Builder accepts delivery including any demurrage or car hire charges.

106.2.3.4 Storage. The Design-Builder shall store Materials to preserve their quality and fitness for the work. Materials shall not be stored under or in close proximity to Highway Structures unless the Design-Builder receives written permission from the Resident. If Materials fail to meet the requirements of the Contract, the Materials will be rejected. The Department may inspect stored Materials at any time. The Design-Builder shall locate stored Materials to facilitate their prompt inspection. The Department may approve

portions of land within the Right-of-Way for storage purposes and for the placing of the Design-Builder's Equipment, but the Design-Builder shall provide any additional land required without cost to the Department. The Design-Builder shall not use private property for storage purposes without written permission of the owner, with copies of the written permission furnished to the Department upon request. The Design-Builder shall restore all storage sites, whether within the Right-of-Way or on private property, to original condition at the Completion of the Project, without cost to the Department.

106.2.3.5 Handling. The Design-Builder shall handle all Materials in a manner that preserves their quality and fitness for the Work. The Design-Builder shall transport Aggregates in tight vehicles to avoid loss or segregation of Materials after loading and measuring.

106.2.3.6 Unacceptable Materials. The Department may reject Materials not conforming to the Specifications at any time, and the Design-Builder shall remove them immediately from the Project site unless otherwise instructed by the Department. The Design-Builder shall not store or use rejected Materials on any Department project.

106.2.3.7 Sampling and Testing. Department personnel may take samples for Acceptance, Independent Verification or Independent Assurance Testing at any time. Unless otherwise designated, the Department's testing costs will be at the expense of the Department. Materials being used are subject to inspection, testing, or rejection by the Department at any time. The Department will furnish copies of test reports to the Design-Builder upon request.

The Design-Builder is responsible for the quality of construction and Materials incorporated into the Work. The Design-Builder shall perform all necessary QC and Acceptance inspection, sampling, and testing in accordance with the approved CQMP. The Design-Builder shall not rely on the results of the Department's Independent Verification Testing for process QC or Acceptance.

The Design-Builder may observe the Department's sampling and testing activities. If the Design-Builder observes a deviation from the specified sampling or testing procedures, then the Design-Builder shall describe the deviation to the Department immediately and document the deviation in writing within twenty-four (24) hours to preserve its ability to dispute the sample.

106.2.4 Quality Assurance.

106.2.4.1 General. The Design-Builder shall develop, submit, and implement a Construction Quality Management Plan (CQMP), approved by the Department, for those items of work specified that will result in work that meets or exceeds the quality requirements of this Contract. The CQMP may be submitted in phases, for approval, as appropriate for the orderly progression of work. The CQMP shall include a Quality Control Plan as well as an Acceptance Plan. Both Quality Control and Acceptance are the Design-Builder's responsibility.

- A. Submittal. Within fifteen (15) Days of Contract Execution or at least twenty (20) Days before any related work is to be performed, the Design-Builder shall submit three copies of its (CQMP) to the Department.

B. Approval. Within ten (10) Days of Receipt, the Department will determine if the CQMP is in accordance with the requirements of this Subsection 106.2.4 and:

1. notify the Design-Builder that its CQMP is approved or
2. return it for any needed revisions.

If returned for revision, the Design-Builder shall resubmit three (3) copies of its revised CQMP as provided above within five (5) Days and the Department will have five (5) Days from receipt of the revised plan to notify the Design-Builder whether its CQMP is approved or again requires revision. Additional iterations will occur in a like manner until the Department approves the Design-Builder's CQMP. Failure to submit an approvable CQMP shall not be cause for any adjustment to compensation or time.

Upon final approval of the CQMP, the Design-Builder shall provide five (5) electronic copies to the Department. All Design-Builder QC and Acceptance personnel shall also be issued their own copy of the approved CQMP. The Design-Builder shall communicate the applicable contents of the approved CQMP to all Design-Builder and Subcontractor personnel involved in completing the work items covered by the CQMP.

The Design-Builder's CQMP shall consist of plans, procedures, responsibilities, authority, and an organizational structure that demonstrates that an effective level of QC and Acceptance will exist and that the end result products will comply with all Contract requirements. The Design-Builder shall provide all necessary QC and Acceptance inspection, sampling, and testing to implement the CQMP. The CQMP shall include an organizational structure and reporting requirements that demonstrate that QC and Acceptance personnel have sufficient independence to allow them to be primarily concerned with quality, as opposed to schedule and budget. All key personnel performing QC or Acceptance functions shall be exclusively designated to such and shall not be assigned to perform conflicting duties or production work. The Department, at its sole discretion, may approve a QA organization that is not a separate entity from the design and construction/production organizations should the Design-Builder demonstrate to the Department how QC and Acceptance functions will be performed independently to maintain the integrity of the process.

The individual managing the CQMP shall report to the Design-Build management team. The individual shall have full authority and responsibility for assuring effective implementation and maintenance of a quality system and for instituting any and all actions necessary for the successful implementation of the CQMP. The individual is responsible for assuring the existence of information systems that measure the effectiveness of the quality program. The individual shall have access to executive management to report on the performance of the quality system.

The Design-Builder's management with executive responsibility shall review the quality system at defined intervals sufficient to ensure its continuing suitability and effectiveness in satisfying the quality policy and objectives. At least two reviews shall be completed. The frequency of the reviews shall be dependent on the maturity of the quality system being implemented and the results of the last management review. Minutes shall be taken of the quality review meetings and these minutes shall be provided to the Department.

106.2.4.2 Quality Control. The Design-Builder shall be responsible for Quality Control to ensure that quality has been incorporated into all elements of work prior to Acceptance activities. The QC activities shall be sufficient in scope to prevent repeated discoveries of non-conforming work by those performing Acceptance Testing and inspection. Repeated observations of QC deficiencies shall be considered a CQMP Non-compliance Incident. The Department will not sample or test for process control or assist in controlling the Design-Builder's production operations. The Design-Builder shall provide QC personnel and testing Equipment capable of providing a quality product that meets or exceeds the Contract requirements.

106.2.4.3 Quality Control Plan Requirements. The QCP shall include, at a minimum, the following:

- A. All Work items covered by the QCP
- B. Detailed description of the construction processes that will be used to complete the work items listed above
- C. Sampling locations and techniques
- D. Tests and test methods
- E. Testing frequencies
- F. Inspection frequencies
- G. Documentation procedures, including:
 - 1. Inspection and test records
 - 2. Temperature measurements
 - 3. Accuracy, calibration, or recalibration checks performed on production or testing equipment
- H. Resolution of Defective work
- I. Qualifications of inspection staff
- J. Design-Builder's QC organizational chart and description of responsibilities

The QCP shall identify the Design-Builder's QC personnel, including the Design-Builder's Project Manager, or individual reporting to the Project Manager, responsible for administering the QCP. The QCP shall include the number of employees with specific Quality Control responsibilities, including, but not limited to, individuals responsible for conformance with Project standards, documentation, and Material testing, including: fill materials, Hot Mix Asphalt (HMA), concrete, and any other material to be used in the construction of the Project. The organizational chart shall include lines of responsibility.

106.2.4.4 Acceptance. The Design-Builder shall be responsible for determining the acceptability of the Work. Acceptance of the Material is based on the visual inspection of the Materials and workmanship, monitoring of the QC process, and Acceptance Test results. With the exception of Acceptance Testing for Hot Mix Asphalt items, Acceptance sampling and testing is the responsibility of the Design-Builder (unless alternate procedures are specified).

The Department, nor the Design-Builder's Acceptance Inspectors and technicians will not sample or test for process control or assist in controlling the Design-Builder's production operations. Acceptance sampling and testing will be for the sole purpose of determining the acceptability of the work. The results of all Acceptance Tests shall be documented and reported to the Design-Builder's Construction Quality Manager and to the Department.

Personnel performing Acceptance inspection, sampling, and testing shall be employed by an organization that is a separate entity from the design and construction/production organizations.

106.2.4.5 Acceptance Plan Requirements. The Acceptance Plan shall include, at a minimum, the following:

- A. All Work items covered by the Acceptance Plan
- B. Lot and subplot sizes for each Item covered
- C. Random sampling techniques
- D. Testing plan (including test methods and frequencies meeting the requirements of Table 1)
- E. Inspection plan (including methods and frequencies)
- F. Documentation procedures including:
 - 1. Inspection and test records
 - 2. Temperature measurements
 - 3. Accuracy, calibration or recalibration checks performed on test equipment
- G. Resolution of defective work
- H. Resolution of Non-conforming Work
- I. Qualifications of Acceptance staff
- J. Design-Builder's Acceptance organizational chart and description of responsibilities

The Acceptance Plan shall identify the Design-Builder's Acceptance personnel, including the Construction Quality Manager responsible for administering the Acceptance Plan. The Acceptance Plan shall include the number of employees with specific responsibilities, including,

but not limited to, individuals responsible for conformance with Project standards, documentation, and Material testing, including: fill Materials, concrete, and any other Material to be used in the construction of the Project. The organizational chart shall include lines of responsibility. Acceptance testing of Hot Mix Asphalt will be performed by the Department in accordance with Section 106.4 - Statistical Acceptance Utilizing Quality Level Analysis, and Section 400 - Pavements.

The Construction Quality Manager shall have full authority and responsibility for assuring effective implementation and maintenance of a quality system and for instituting any and all actions necessary for the successful implementation of the Acceptance Plan, including shutting down the project. The individual is responsible for assuring the existence of information systems that measure the effectiveness of the quality program. The individual shall have access to executive management, as well as to the Department, to report on the performance of the quality system.

The Design-Builder shall perform Acceptance tests for various Materials at a rate that meets or exceeds the required Acceptance Testing Requirements listed in Table 1. All samples for Acceptance shall be obtained at the point of incorporation into the project. In cases where doing so would compromise the safety of the sampling personnel or the integrity of the sample, samples shall be obtained from a location as close to the point of incorporation as possible.

TABLE 1 – MINIMUM ACCEPTANCE TESTING REQUIREMENTS

Item	Description	Minimum Frequency	Sample Location
203	Embankment (control Density Fill)	1 compaction test/1000 ft/layer	In-place
	Backfill (Bridge abutments, box culverts, structural plate pipes or arches, retaining walls)	1 compaction test/every other layer, each side of structure	In-place
	Common Borrow	1 moisture-density relationship	In-place
		1 moisture content/15,000 cy	
	Granular borrow	1 gradation/5000 cy	In-place
1 moisture-density relationship			
204 & 205	Shoulder Rehabilitation/Reconstruction	1 gradation/15,000 sy	In-place or stockpile at work site
304	Aggregate base and subbase course	1 Micro-deval/10,000 cy	In-place
		1 gradation/2500 cy	
		1 moisture-density relationship	
		1 compaction test/1000 lane-ft/layer	
307, 308 & 309	Full-depth Recycled Pavement – Untreated, Bituminous Stabilized, Foamed Asphalt	1 compaction test/2000 lane-ft/layer	In-place
310	Plant Mixed Recycled Asphalt Pavement	1 thin layer density/2000 lane-ft/layer	In-place

403	Hot Mix Asphalt	Accepted by the Department	In-place
411	Untreated Aggregate Surface Course	1 gradation/500 cy	In-place or stockpile at work site
501	Cast-in-place concrete piles	See 502 Structural concrete	
502	Structural concrete – refer to current Standard Specifications or 502 Special Provision	1 Air content/sublot	Point of Discharge
		1 Compressive strength (avg. of 2 specimens)/sublot	
		1 Surface Resistivity (avg. of 3 specimens)/sublot	
		1 set Aggregate gradations/10 sublots	Stockpile
502	Annular space grout	1 Compressive strength (avg. of 2 specimens)	Point of Discharge
512	French Drain Stone	1 gradation @CQM’s discretion	Stockpile at site
513	Slope Protection	See 502 Structural concrete	Point of Discharge
518	Rehabilitate Structural concrete	See 502 Structural concrete	Point of Discharge
520	Bridge joint modification	See 502 Structural concrete	Point of Discharge
534	Precast structural concrete – arches, box culverts	1 Compressive strength (avg. of 2 specimens)/placement	Point of Discharge
		1 set Aggregate gradations	Stockpile
604	Mortar sand	1 gradation	Stockpile
		1 organic impurities	
605	Underdrain backfill - sand	1 gradation/1000 ft	Stockpile at site
	Underdrain backfill - stone	1 gradation/2000 ft	Stockpile at site
608	Concrete sidewalk	See 502 Structural concrete	Point of Discharge
611	Slab for Backslope Protection - Cast in place	See 502 Structural concrete	Point of Discharge
626	Foundations	See 502 Structural concrete	Point of Discharge
635	Prefab Bin type Retaining walls – concrete	1 Compressive strength (avg. of 2 specimens)/placement	Point of Discharge
		1 set Aggregate gradations	Stockpile
636	MSE Retaining wall – Footing	1 Compressive strength (avg. of 2 specimens)/placement	Point of Discharge
		1 set Aggregate gradations	Stockpile
	MSE Retaining wall – Crushed stone	1 gradation	Stockpile at site
	MSE Retaining wall – Precast panels or units	1 Compressive strength (avg. of 2 specimens)/day’s production	Point of Discharge
1 set Aggregate gradations		Stockpile	

Testing. Qualified technicians in laboratories approved by the Department shall perform all QC and Acceptance Testing covered by the CQMP. Technician Qualifications shall be as described in this Section for the corresponding item of work. QC and Acceptance Tests shall be performed independently, by different technicians using different Equipment. Acceptance testing of Hot Mix Asphalt will be performed by the Department.

The Design-Builder's Acceptance Testing personnel shall perform sampling and testing operations and be evaluated by the Department's Independent Assurance personnel to verify the accuracy of Design-Builder test results. Any discrepancies noted shall be investigated by the Design-Builder and appropriate corrective action taken. The Design-Builder's Construction Quality Manager shall be responsible for notifying the Department of Acceptance sampling and testing activities so that IA inspections can be scheduled.

QC and Acceptance laboratory facilities shall be clean, and all Equipment shall be maintained in proper working condition. The Department will be permitted unrestricted access to inspect the Design-Builder's laboratory facilities. The Department will advise the Design-Builder in writing of any noted deficiencies concerning the laboratory facility, Equipment, supplies, or testing personnel and procedures. Deficiencies shall be grounds for the Department to order an immediate stop to incorporating Materials into the Work until deficiencies are corrected. Work already in place affected by QC deficiencies is Non-conforming Work.

Laboratories performing Acceptance tests shall be accredited for the tests being performed by the AASHTO Accreditation Program.

The Design-Builder shall maintain original documentation of all QC and Acceptance inspections, tests (including all associated data such as measurements, weights, dial readings, etc., used in the completion of the test), and calculations used to generate reports. The records shall indicate the nature, number, and type of deficiencies found, the quantities approved and rejected, and the nature of corrective actions taken. The Design-Builder shall maintain standard testing equipment and qualified personnel as required by the Contract.

The CQMP shall include the testing and record keeping requirements for each item as contained in the Contract. The number preceding each item refers to the item and specification number in the Standard Specifications. When testing requirements are not specified, the Design-Builder shall perform all testing and record keeping as recommended by the manufacturer, vendor, or supplier.

If an item is required to be in the CQMP but the Standard Specifications do not specify testing requirements, the Design-Builder shall propose testing requirements in the CQMP.

After final records review, the Design-Builder shall certify with a written report by the CQMP Manager to the Department that the Project has been constructed and inspected, and all Materials have been tested in accordance with the Contract. The written report shall be stamped and sealed by a Maine Licensed Professional Engineer.

106.2.4.6 QC and Acceptance Personnel Qualifications. The Design-Builder's QC and Acceptance Inspectors shall hold all certifications from MCTCB or NETTCP that apply to

the items included in the CQMP. The Department will require the Design-Builder to remove Inspectors from the Project that are not certified as required or that are otherwise unqualified or unable to fulfill their duties in a good and workmanlike manner.

The Construction Quality Manager in charge of Acceptance activities, including administration of the Acceptance Plan, shall meet one of the following minimum qualifications:

1. Professional Engineer licensed in the State of Maine with 3 years of construction materials experience acceptable to the Department.
2. A NETTCP certified Quality Assurance Technologist with five years of construction materials experience acceptable to the Department.

The Design-Builder shall not replace the Construction Quality Manager without prior written approval of the Department. A written request to replace the Construction Quality Manager shall name a new Construction Quality Manager that will be available for the project within twenty (20) Days of Department approval.

106.2.4.7 Inspection Requirements. The CQMP shall cover all construction operations on the site and at off-site production facilities, keyed to the proposed construction Materials, sequence, and schedule. The CQMP shall also identify QC personnel (including Qualifications), procedures, controls, tests, records, and forms to be used. Acceptance testing of Hot Mix Asphalt will be performed by the Department.

The Design-Builder shall provide a copy of each completed QC and Acceptance report to the Department by 1:00 PM on the day following each construction activity, unless other arrangements are made with the Resident. Failure to provide this report will constitute non-compliance with the CQMP and the Contract.

If an item is required to be in the CQMP but QC and Acceptance Inspection requirements are not specified in the Contract, the Design-Builder shall propose inspection and record keeping requirements for such items in the CQMP.

106.2.4.8 CQMP Non-Compliance. The Design-Builder shall comply with the approved CQMP and shall take all other steps necessary to assure a high quality project.

Failure by the Design-Builder to comply with the approved CQMP will result in a letter describing the violation, a mandatory work suspension, and a reduction in payment as shown in Table 106.2 A below. The Design-Builder shall submit a letter to the Department that details the corrective action made to address the violation(s) in its CQMP. Work may resume when the Department is satisfied the corrective action will result in adherence to the CQMP.

Table 106.2 A – Quality Control Pay Reduction

Construction Quality Management Plan Value*		Pay Reduction		
From More Than	To and Including	1 st	2 nd	3 rd & Subsequent

\$0	\$500,000	\$1,000	\$2,000	\$4,000
\$500,000	\$1,000,000	\$2,000	\$4,000	\$8,000
\$1,000,000	\$3,000,000	\$5,000	\$10,000	\$20,000
\$3,000,000	and more	\$10,000	\$20,000	\$40,000

* The Construction Quality Management Plan Value is the total value of the work item covered by the Construction Quality Management Plan.

During all periods of the Design-Builder’s failure to follow the approved CQMP, no positive pay incentives will be calculated or paid if the Department accepts the Material.

Pay reductions for failure to comply with the approved CQMP are cumulative, and the Department will deduct any pay reductions due from amounts otherwise due the Design-Builder. These pay reductions are intended to encourage the Design-Builder to comply with its approved CQMP, and are not necessarily related to the quality of the Material provided.

106.2.4.9 Independent Verification.

The Department may conduct Independent Verification by:

- A. Review of QC and Acceptance Reports.
- B. Random inspection of work.
- C. Randomly accompanying the Inspector during Acceptance Inspections/Testing.
- D. IV Sampling and Testing

Independent Verification sampling and testing may be conducted at the frequencies outlined in Table 2.

TABLE 2 - INDEPENDENT VERIFICATION TESTING

Number of Acceptance Tests/Item (or Lot)	Independent Verification Frequency
< 7*	1 IV – Split with Acceptance
7 - 14	3 IV – Split with Acceptance
15 - 40	1 IV test/5 Acceptance Tests, minimum 4 IV
> 40	1 IV test/10 Acceptance Tests, minimum 7 IV

*In cases where only 1 Acceptance test is required, the Design-Builder may choose to use the Department’s IV test for Acceptance purposes. Doing so will not relieve the Design-Builder of responsibility for the quality of the Work.

Independent Verification sampling and testing will be performed by the Department at locations determined using random sampling procedures, and will be completely independent from Acceptance Tests. When all IV and Acceptance Tests are completed for an Item or Lot, the following method shall be used to validate the Acceptance Tests. The Split Sample Method will only be used for gradation of granular materials and compaction testing. All other IV will follow the Statistical Validation Method.

Split Sample Method

For Items requiring fewer than 15 Acceptance tests, IV tests will be conducted at the rate listed in Table 2 above. The Acceptance personnel shall obtain a split of the IV sample, or perform a test at the IV location. The IV and Acceptance results will be compared by the Department. If they are within the allowable tolerances listed in Table 3, the Design-Builder Acceptance tests shall be used in the Acceptance decision.

TABLE 3 – SPLIT SAMPLE VERIFICATION TOLERANCES

Percent passing 9.5 mm and larger sieves	+/- 6.0 %
Percent passing 6.3 mm to 0.425 mm sieves	+/- 4.0 %
Percent passing 0.30 mm to 0.15 mm sieves	+/- 3.0 %
Percent passing 0.075 mm sieve	+/- 1.0 %
Percent compaction	+/- 1.5%

Statistical Validation Method

For Items requiring 15 or greater Acceptance tests, IV tests will be conducted at the rate listed in Table 2 above. The Department will analyze the IV and Acceptance data using the F & T test at the 95 percent confidence level. If the F & T test validates the Acceptance data, the Design-Builder Acceptance Tests shall be used in the Acceptance decision. For Structural Concrete items, the F & T test will be performed on compressive strength, percent entrained air, and permeability (if specified). For soil and Aggregate Materials, the F & T test will be performed on the percent compaction (if specified), the percent passing the smallest sieve size with specified limits, and the percent passing the ¼” (6.3 mm) sieve (or next smaller sieve with specified limits).

Validated Acceptance data shall be used to determine the acceptability of the Material as described in Section 106.2.4.11 Acceptance Decision. If either method fails to validate the Acceptance data, or if the Acceptance data is validated, but the IV tests indicate that the Material does not meet specification, the Department and the Design-Builder shall jointly investigate the source of the non-validation. Acceptance data that has not been validated by either method may still be used to determine acceptability if both the Acceptance and IV data indicate that the Material meets specifications.

Any such oversight, spot checks, audits, reviews, tests, and inspections conducted by the Department will not constitute acceptance of the Material or Work inspected or waiver of any warranty or legal or equitable right with respect thereto.

The Department’s objective is a high quality project through a cooperative effort with the Design-Builder. Items that are to be buried or covered, are of high cost, or affect the long-term durability of the Work must receive extra attention in the QC and Acceptance effort.

Unacceptable Work will be brought to the attention of the Design-Builder who will determine the corrective action that will be taken. The Design-Builder shall schedule the corrective work with the Resident, and both the Design-Builder’s Acceptance and Department’s Representative will witness the corrective work. Failure of the Design-Builder to correct unacceptable work in a timely

manner, as determined by the Department, may result in the withholding of progress payment(s) or suspension of the work, or both. The Design-Builder will not be eligible for either additional monetary compensation or a time extension should this happen. If necessary for protection of the work or for public convenience, the Department may accomplish corrective work by other means and deduct the cost from any monies due the Design-Builder.

The Department may review and obtain copies of all QC and Acceptance Test and inspection reports (including original test data) at all reasonable times without cost to the Department.

If the Department decides to inspect the Materials or operations at the plant, then the following conditions shall be met:

- A. The Department will have the cooperation and assistance of the Design-Builder and the producer with whom the Design-Builder has arranged for Materials.
- B. The Department will have full access at all times to the parts of the plant that concern the manufacture and production of the Materials being furnished.
- C. If required, the Design-Builder shall arrange for an approved testing laboratory building for the sole use of the Department. The building shall be located near the plant and conform to the requirements of Section 639 – Engineering Facilities of the Standard Specifications and the latest version of the Supplemental Specification (Repair Spec).
- D. The Design-Builder shall provide any needed Equipment for safe access to plant stockpiles, Equipment, and operations.

106.2.4.10 Dispute Resolution. The Design-Builder may dispute the results of Independent Verification tests using the following procedures:

Structural Concrete

The procedure described in the current 502 Standard Specification or Special Provision, under the section “Resolution of Disputed Acceptance Test Results”, shall be followed.

Hot Mix Asphalt

The procedure described in the current 401 Standard Specification or Special Provision, under the section “Process for Dispute Resolution”, shall be followed.

Soil and Aggregate Materials - Sieve Analysis

In order to dispute a sieve analysis test, the Design-Builder shall obtain a split of the IV sample, sufficient in size to perform two sieve analysis tests. One portion of the split shall be tested by the Design-Builder’s Acceptance laboratory; the remaining portion shall be secured for possible dispute testing. The results of the Acceptance test shall be reported to the Department. The Construction Quality Manager shall compare the results of the IV test and the Design-Builder’s split sample. The Design-Builder may dispute any of the percent passing results on any sieve with specified limits when the difference between the IV value and the Design-Builder’s value for that

test equals or exceeds the corresponding allowable variation in Table 4 – Dispute Resolution Variance Limits. The Construction Quality Manager shall notify the Resident, as well as the Department’s QA Engineer, in writing of the request to dispute. The request must be submitted within two Working Days of receipt of the IV test results, and shall include the following information:

- IV sample reference number
- The specific test result(s) or property(ies) being disputed
- The complete, signed report of the Design-Builder’s testing

TABLE 4 - DISPUTE RESOLUTION VARIANCE LIMITS

Percent passing 9.5 mm and larger sieves	+/- 4.0%
Percent passing 6.3 mm to 0.425 mm sieves	+/- 3.0%
Percent passing 0.30 mm to 0.15 mm sieves	+/- 2.0 %
Percent passing 0.075 mm sieve	+/- 1.0%
Percent compaction	+/- 1.5%

If the request for dispute testing is approved by the Department, the Design-Builder shall deliver the secured dispute split to the laboratory designated by the Department to perform the dispute test. The dispute sample shall be tested, and the results will be compared by the QA Engineer. The value of any disputed result or property reported for the initial IV sample shall stand if the value reported for the dispute resolution sample is not closer to the value the Design-Builder reported for their split sample than to the value reported for the initial IV sample. If the value reported for the dispute resolution falls precisely half-way between the other two values the value reported for the dispute resolution will replace the original IV value. Otherwise, the value reported for the dispute resolution sample will replace the value reported for the initial IV sample.

Soil and Aggregate Materials - In-place Density

The Design-Builder may perform a compaction test at the same location as the IV test. If the results differ by more than 1.5 percent of relative density, a new IV test will be performed within 10 feet, and at the same offset as the original test. If the comparison between the IV test and Design-Builder’s test at the new location exceeds 1.5 percent, the Department’s IA staff will conduct an investigation to determine the reason for the non-comparing results. Based on the outcome of the investigation, the Department will determine if the original IV tests shall be used, or if additional IV tests should be performed.

106.2.4.11 Acceptance Decision. The Design-Builder’s Acceptance Test data, if Verified by the Department, shall be used to determine the acceptability of the Material. Acceptance shall be determined as follows:

Structural Concrete

Acceptance of Structural Concrete shall utilize Quality Level Analysis as described in Section 106 of the Standard Specifications, utilizing the upper and lower specification limits in the current 502 Standard Specification or Special Provision. The Quality Level shall be calculated for compressive strength, percent entrained air, and permeability (if specified). If the Quality Level does not equal

or exceed 90 percent-within-limits for percent entrained air and permeability and 95 percent-within-limits for compressive strength, then the Lot shall be Non-Conforming Work.

Hot Mix Asphalt

Acceptance of Hot Mix Asphalt shall be as specified in 106.4 - Statistical Acceptance Utilizing Quality Level Analysis and the 401 Standard Specification or Special Provision.

Soil and Aggregate Materials

Acceptance of soil and aggregate materials used in embankments, base or subbase, backfills, etc, shall be accepted using an Attributes Acceptance Plan. If the number of gradation tests or compaction tests in the Lot having one or more criteria outside of specification limits exceeds the Acceptance Number listed in Table 5, then the Lot shall be Non-Conforming Work.

TABLE 5 – ALLOWABLE ACCEPTANCE NUMBER

Number of Sieve Analysis or Compaction Tests in Lot	Acceptance Number
< 5	0
6 – 14	1
15 – 19	2
20 – 29	3
30 – 49	4
50 – 100	7
100 or Greater	12

For items that have specific warranty requirements identified in the Project Requirements, the Warranty Provisions in Section 106.3 shall apply.

106.2.4.12 Non-Conforming Work. A non-conformance shall be defined as any condition in Equipment, Materials, or processes which does not comply with required Drawings, specifications, codes, standards, documentation, records, procedures, or Contract requirements which cause the acceptability of Equipment, Materials, or processes to be unacceptable or indeterminate.

Non-conforming product shall be reviewed in accordance with documented procedures, and if required:

- A. Reworked to meet the specified requirements;
- B. Reworked in accordance with a Department approved rework procedure;
- C. Regarded for alternative applications; or
- D. Rejected or scrapped.

Repaired and/or reworked product shall be re-inspected in accordance with the CQMP and/or other documented procedures.

106.2.4.13 Substantially Conforming Work. If the Department determines the work substantially conforms to the Contract, the Department may accept the Non-conforming Work and may require a credit to the Department to be deducted from amounts otherwise due the Design-Builder. If the Department and Design-Builder cannot agree to the amount of the credit, the work shall be Unacceptable Work.

106.2.4.14 Unacceptable Work. The Design-Builder shall remove, replace, or otherwise correct all unacceptable Work as directed by the Department at the expense of the Design-Builder, without cost or liability to the Department.

106.2.4.15 Unauthorized Work. Prior to Final Acceptance and upon written order by the Department, the Design-Builder shall remove or uncover Unauthorized work. After examination, the Design-Builder shall rebuild the uncovered work to a condition conforming to the Contract at the expense of the Design-Builder and without cost or liability to the Department. Any delay arising from unauthorized work shall be an inexcusable delay.

106.2.4.16 Uninspected Work. Prior to Final Acceptance and upon written order by the Department, the Design-Builder shall uncover Uninspected work. After examination, the Design-Builder shall rebuild the uncovered work to a condition conforming to the Contract.

106.3 Warranty Provisions.

106.3.1 Warranty By Design-Builder. This Section provides requirements for warranted Approach Roadways and Roadway structures constructed in conformance with the lines and grades shown on the plans as approved by the Department and as follows. For items that do not otherwise have specific warranty requirements identified in Section 106.3 or the Project Requirements, the Design-Builder unconditionally warrants and guarantees that the Project will be free from warranty defects for one year from the date of Final Acceptance. Final Acceptance includes receipt of all conforming Closeout Documentation. For a related provision, see Subsection 107.8.5 – Final Acceptance.

If the Department discovers any warranty Defects during the warranty period, the Design-Builder agrees to promptly perform all Remedial Work specified by the RFP at no additional cost or liability to the Department.

The Design-Builder unconditionally warrants and guarantees the approach roadways constructed under this Contract meet the performance criteria as defined herein, and accepts responsibility for the approach roadway performance, for a period of at least five (5) years from the date of Final Acceptance from the Department.

The Design-Builder unconditionally warrants and guarantees certain bridge structures and related items, as specified herein, constructed under this Contract to be free from Defects for a period of at least five (5) years from the date of Final Acceptance by the Department.

For a related provision regarding obligations regarding plantings, see Subsection 104.5.9 – Landscape Subcontractors.

106.3.2 Warranty Definitions. Notwithstanding any other provision of the Contract, the following words or phrases have the following definitions for the purposes of the Design-Builder's warranty obligation under this Contract.

- A. Approach Slab. Section of pavement just prior to joint, crack, or other significant Roadway feature relative to the direction of traffic (see also leave slab).
- B. Bridge Deck Joints. Any joint in the riding surface for the purpose of expansion control.
- C. Centerline. The painted line separating traffic Lanes.
- D. Chipping. Breaking or cutting off small pieces from the surface.
- E. Coating System. Materials preparation for coating, touchup, and the coating applied to structural steel beams, girders, diaphragms, and miscellaneous steel element which comprise a structural steel system.
- F. Cohesive Failure. The loss of a Material's ability to bond to itself. Results in the Material splitting or tearing apart from itself (i.e., joint sealant splitting).
- G. Concrete Wearing Surface. Fifty millimeter thick non-reinforced Portland cement riding surface bonded to the Superstructure slab.
- H. Defects. Refer to the definition of "Defects or Defective Work" in Subsection 101.2, Definitions, of this RFP Book 1, Design-Build General Conditions. For related provisions, see the definition of "Warranty Defects" in this Subsection 106.3.2, Warranty Definitions.
- I. Durability Cracking. The breakup of concrete due to freeze-thaw expansive pressures within certain Aggregates. Also called "D" cracking.
- J. Emergency. Emergency means necessary for public safety or convenience, as determined by the Department.
- K. Hairline Crack. A fracture that is very narrow in width, less than 3 mm.
- L. Joint Seal Damage. Any distress associated with the joint sealant, or lack of joint sealant.
- M. Longitudinal. Parallel to the centerline of the pavement.
- N. Promptly. Unless an emergency, "Promptly" means in the first construction season after the Design-Builder has been notified of the defect(s), but always within one year of such notice. In case of emergency, Promptly means within forty-eight (48) hours.

- O. Remedial Work. All work necessary to make the item in like new condition as reasonably determined by the Department and performed in accordance with the Contract and in a good and skillful manner. Remedial Work includes all design, permitting, project management, supervision, materials, and labor, including erosion control and traffic control.
- P. Transverse. Perpendicular to the pavement centerline.
- Q. Warranty Defects. Conditions that result from material, manufacture, or workmanship and that are not in conformity with the Contract or with industry standards applicable to the work prevailing at the time of submission of the Proposal. Warranty defects do not include:
 - 1. normal wear and tear;
 - 2. conditions caused by occurrences clearly beyond the Design-Builder's control and not attributable to Material, manufacture, or workmanship; and
 - 3. Defects in landscape items that are the subject of Landscape Establishment Period Obligations.
- R. Examples of such excepted occurrences might be fires, floods, abnormally poor weather for the site of work, accidents, improper use, improper maintenance, vandalism, or acts of God.
- S. Water Bleeding. Seepage of water from joints or cracks.
- T. Waterproofing Membrane. Product that is bonded to the concrete bridge deck prior to placing hot bituminous pavement wearing surface for the purpose of protecting the bridge deck from the intrusion of chlorides that pass through the bituminous wearing surface.

106.3.3 Approach Roadway Performance Warranty.

106.3.3.1 Performance Criteria

The minimum acceptable criteria over the term of the Warranty and, if necessary, the Remedial Work required are identified in Table 106-1 Performance Criteria.

The Department will conduct the inspections annually. The Design-Builder will be notified in advance of the inspection. The results will be made available to the Design-Builder and FHWA within ten (10) Days after the completion of the inspections. If the Design-Builder disputes the inspection findings, the Design-Builder must notify the Department within ten (10) Days of receipt.

TABLE 106-1 PERFORMANCE CRITERIA

Performance Item	Threshold Value	Remedial Work Required	Warranty Period
Roadway Settlement: Maximum (inch) within 100 feet of abutments and extending in the transverse direction from Roadway edge to Roadway edge	2 inches	Remove and replace affected area(s). Affected area may include the Subgrade and subbase layers, or any layer of Pavement, as defined in Section 6.1.2 and the Special Provisions.	Five (5) Years
Maximum (inch) beyond 300 feet of abutments and extending in the transverse direction from Roadway edge to Roadway edge	3 inches		

106.3.3.2 Remedial Work

The Design-Builder must promptly perform the corresponding Remedial Work set forth in Table 106-1 of this Section for all Performance Item(s) discovered during the applicable warranty period.

106.3.3.3 Quality Control Plan (QCP).

The Design-Builder will establish the job mix formula and select all materials to be used. Prior to construction, the Design-Builder will provide the Department with a QCP. The QCP shall include, at a minimum, the following:

- A. Job Mix Formula (JMF) with all computations, JMF testing, and a list of materials;
- B. Hot mix asphalt plant details;
- C. Stockpile management;
- D. Make and type of pavers;
- E. Mixing and transportation method(s);
- F. Lay-down and compaction methods;
- G. Segregation control actions;
- H. Quality Control testing personnel, frequency, and methods; and
- I. The name and duties/responsibilities of the QC Plan Administrator.

The Design-Builder shall submit all modifications to the QCP to the Department. The Design-Builder shall provide a copy of all quality control data to the Department at Project Completion. The Department may conduct tests at its own expense.

106.3.3.4 Exclusions

The Design-Builder shall have no responsibility under the Warranty for any failure of the Pavement to satisfy the Contract requirements as a result of:

- A. Uncontrollable Events. Damage to the Approach Roadway due to a natural disaster within the meaning of 23 C.F.R. Section 668.103 or damage to the Approach Roadway due to Uncontrollable Events as defined in Section 101.2 of the Design-Build General Conditions, including but not limited to a Fifty (50) Year Flood Event, collapse, subsidence, falling rocks, explosion, fire or Act of God.
- B. Civil Strife and Hostilities. Damage to the Approach Roadway due to civil strife or hostilities, including but not limited to strikes, civil commotion, civil strife, riot, terrorism, sabotage, acts of civil or military authorities or an Act of War (declared or undeclared).
- C. Mobilization. Damage to the Approach Roadway due to weapon discharges or caused by military Equipment or heavy construction Equipment resulting from responses to mobilization of military or emergency forces.

In addition, the Design-Builder shall have no responsibility for, and the Warranty shall not extend to, work, Materials, Equipment and costs associated with vegetation control, landscape maintenance, litter control, Right-of-Way fence maintenance, courtesy patrol, Pavement markings repair, repair of overhead and Roadside signs, delineations and object markers repair, impact attenuators repair, lighting maintenance, sweeping, guardrails and barriers repair, Structures inspection, retention ponds/detention basins/outfalls repair, and snow and ice control.

106.3.4 Bridge Warranty.

106.3.4.1 Five (5) Year Warranty Items. The Design-Builder hereby unconditionally warrants and guarantees the following items of Work to be free from Defects for a period of five (5) years from the date of Final Acceptance by the Department:

- A. Bridge Deck Joints (if used),
- B. Bearings,
- C. Steel Coating Systems, and
- D. Concrete Wearing Surface.

The Design-Builder is not required to provide a warranty for Bridge Deck Joints if a jointless bridge is provided.

If any Defects are discovered during said warranty period, the Design-Builder agrees to undertake the Remedial Work specified by this RFP in a good and workmanlike manner at no cost to the Department. A warranty is not required for Concrete Wearing Surface if a bituminous wearing surface is provided; however, a warranty would then be required for Pavement and Waterproofing Membrane as described herein.

106.3.4.1.1 Bridge Deck Joints.

106.3.4.1.1.1 Definition of Defect. Bridge deck joints will be considered defective if any of the following conditions are discovered within the five (5) year warranty period.

- A. Water leakage through the joint or joint trough;
- B. Separation of the seal from the steel or concrete substrate;
- C. Failure of materials such as cracking, chalking, scaling, peeling, splitting;
- D. Sagging of elastomeric seal;
- E. Warping of the steel plate or extrusion detrimental to the functioning of the joint;
- F. Spalling or delamination of the deck concrete within 1.5 feet either side of the joint.

106.3.4.1.1.2 Remedial Work Required. Damaged seals shall be removed and replaced with new seals. Seals that are displaced shall be completely removed; the joint shall be cleaned, and the seal may be reinstalled if not damaged during removal. Steel components that are damaged or misaligned shall be restored in a manner approved by the Department.

106.3.4.1.2 Bearings.

106.3.4.1.2.1 Definition of Defect. Bearings shall be considered defective if any of the following conditions are discovered within the five (5) year warranty period.

- A. There is evidence of failure of any of the components of the bearing assembly;
- B. The protective coating on the bearing cracks, checks, or peels or rusting is present; or
- C. The bearing freezes or otherwise fails to allow the bridge to move as designed.

106.3.4.1.2.2 Remedial Work Required. Bearings shall be removed and either replaced or restored to new condition and be reinstalled.

106.3.4.1.3 Steel Coating Systems.

106.3.4.1.3.1 Definition of Defect. The coating systems shall be considered defective if any of the following conditions are discovered within the five (5) year warranty period.

- A. There is visible rust or rust break through;
- B. There is blistering, peeling, or scaling of coating;
- C. Coating applied over dirt, debris, blasting debris, mill scale, or rust products;
- D. Incomplete coating or coating thickness less than specified by the manufacturer;
- E. Damage to the coating system due to the Design-Builder's operations during construction; or
- F. Fading or chalking of paint.

106.3.4.1.3.2 Remedial Work Required. Repair as directed by the coating manufacturer's technical department.

106.3.4.1.4 Concrete Wearing Surface.

106.3.4.1.4.1 Definition of Defect. Concrete Wearing Surfaces shall be considered defective if any of the following conditions are discovered within the five (5) year warranty period.

- A. Wearing surface exhibits cracking deeper than one-half (0.5) inch for a total length of crack of one hundred and fifty (150) feet;
- B. Wearing surface becomes debonded from the deck;
- C. There is spalling of individual areas greater than fifteen (15) square inches or a cumulative area of one hundred (100) square feet; or
- D. Chlorides penetrate the wearing surface to a depth of more than one (1) inch with a content above 0.01 pounds per cubic foot.

106.3.4.1.4.2 Remedial Work Required. Debonded concrete shall be removed and replaced. Small local patches will not be allowed. Removal must extend from curb to curb and the transverse joints must be square to the centerline. Concrete with high chlorides shall be treated as debonded. Cracked concrete shall be repaired by epoxy injection or removal and replacement identical to debonded. If epoxy injection is used the Design-Builder must demonstrate that the injection is complete

and effective. Non-complete injection shall result in the wearing surface having to be removed and replaced as debonded.

106.3.4.2 Bridge Warranty Inspections.

106.3.4.2.1 General. Inspections normally consist of a detailed visual inspection. All components will be inspected and photos will be taken. It is anticipated the inspections will take approximately two (2) Days in the field. The Design-Builder's Price must include its costs related to all regularly scheduled inspections. All Inspectors for the Department shall be qualified NBIS Inspectors and the Design-Builder is encouraged to have Inspectors present during all inspections.

If the Department determines that visual inspections indicate that further inspection is warranted, the Department will undertake whatever further tests or inspections it determines are necessary. If said further inspection reveals Defects, then the Design-Builder will be responsible for all corrective work and the costs of such additional inspection. If said further inspection reveals no Defects, the Department will be responsible for all costs of such additional inspection.

After inspection, the Department will prepare and distribute a draft inspection report. Comments or objections to the draft inspection report must be in writing, must address specific issues, and must be received within ten (10) Days of the draft inspection report. If no comments are received within this time period, the draft report shall stand as written. If comments are received, the Department will issue a final report after considering such comments. Comments from NBIS certified Inspectors or Maine Licensed Professional Engineers experienced in bridge evaluation will be given greater weight by the Department.

106.3.4.2.2 Initial Warranty Inspection. The Initial Warranty Inspection shall be the Final Inspection provided in Section 107.8.3 of the Design-Build General Conditions.

106.3.4.2.3 Periodic Inspections. Inspection shall take place periodically, at least every two (2) years. A final warranty inspection shall take place sometime during the last year of the warranty periods. The Department will notify the Design-Builder of the time and date of the inspection at least two weeks prior to the inspections. The Design-Builder or its representatives are encouraged to attend.

106.3.5 Remedial Work Procedure – Approach Roadway and Bridge. Within twenty (20) Days of notification of the discovery of Defects and prior to starting any Remedial Work, the Design-Builder shall submit to the Department in writing the precise scope of proposed Remedial Work (which must meet the requirements of this Section) and a schedule of work for approval. All Remedial Work shall meet the Department's Standard Specifications, Supplemental Specifications, and applicable Special Provisions in effect at the time the Contract is executed. Once the Remedial Work Plan is approved, the Design-Builder shall promptly perform the Remedial Work. The Department shall have the right to fully inspect all operations. The Design-Builder shall provide the Department safe access to the Work for inspection purposes.

The Design-Builder shall provide any and all Department permit costs, and traffic control complying with the standards set forth in this RFP. The Design-Builder shall maintain two lanes

of traffic open to the public at all times while conducting Remedial Work. Remedial Work may be delayed without liability to the Department if the Department reasonably determines that the Remedial Work is not in compliance with the Contract, threatens public safety, or significantly affects public convenience.

The Design-Builder will have the first option to perform the Remedial Work. If, in the opinion of the Department, the problem requires immediate attention for safety of the traveling public, and the Design-Builder cannot perform the Remedial Work within eight (8) hours, the Department may have the Remedial Work performed by other forces and invoice the Design-Builder accordingly. Remedial Work performed by other forces will not alter the requirements, responsibilities, or obligations of the warranty.

If Remedial Work necessitates a corrective action to the pavement markings, adjacent Lanes(s), Roadway Shoulders, curbing, catch basins, or other Highway appurtenances, then such corrective actions will be the responsibility of the Design-Builder.

If any one or more of the following occurs, then the Department may perform or Contract for such remedial work and the Design-Builder will be responsible for all claims, costs, damages, losses, and expenses arising out of such work including fees and charges of engineers, consultants, attorneys, dispute resolution professionals, and court costs.

- A. The Design-Builder fails to submit a Remedial Work Plan.
- B. The Design-Builder does not comply otherwise with written instructions from the Department.
- C. A State of emergency exists in which delay would cause serious risk of loss or damage.

Upon a final inspection satisfactory to the Department, the Department will issue a written acceptance of the remedial work. The Design-Builder warrants and guarantees all remedial work to be free from warranty defects for one year after such acceptance.

106.3.6 Bonds and Insurance Covering Warranty Obligations. Before Final Acceptance of the Project, as provided in Section 107 of the Design-Build General Conditions, the Design-Builder must provide bonds and insurance assuring the proper and prompt performance of all warranty obligations of the Design-Builder for a minimum period of five (5) years, as indicated in this Special Provision, from the date of Final Acceptance. The bond(s) must be in an amount of not less than \$1,000,000.

Insurance coverage may consist of project specific tail policies on the Designer's Professional Liability (E & O) and any other E & O policies (including the Design-Builder's) that is required pursuant to Section 110.3.4 of the Design-Build General Conditions, with policy amounts as stated in said Contract Section.

The five (5) year warranty limitation of said bonds and insurance shall in no way limit the Design-Builder's warranty obligations for ten (10) year warranty items provided herein.

106.3.7 Maintenance During Warranty Periods. During the warranty periods, the Department agrees to maintain the Project in accordance with the Department's standard maintenance policies for similar projects. The Design-Builder specifically acknowledges that the level of maintenance shall not be controlled by the maintenance schedules submitted by the Design-Builder with its Proposal.

106.3.8 Disputes Regarding Warranty. Should a Dispute regarding these Warranty provisions arise that cannot be resolved through negotiation, the Parties shall submit the Dispute to a Dispute Review Board (DRB) pursuant to the requirements of Section 111.4 of the Design-Build General Conditions.

106.3.9 Other Warranty Provisions. Final Acceptance by the Department of any warranted item or any part thereof during the original construction shall not relieve the Design-Builder of any responsibility under this warranty.

The Design-Builder acknowledges that the warranty obligations set forth in this Contract must be reported as an outstanding obligation in the event of:

- A. dissolution of (or other analogous term denoting the ending of) the legal organizational existence of the Design-Builder or
- B. the sale, merger, or cessation of operations of the Design-Builder.

106.4 Statistical Acceptance Utilizing Quality Level Analysis

Pay Items specified to be sampled and tested under Statistical Acceptance methods will be evaluated for acceptance in accordance with the guidelines specified for that Pay Item. All Acceptance Test results for a lot as defined in the Specification will be analyzed collectively and statistically by the Quality Level Analysis - Standard Deviation (Specification Conformance Analysis) Method using the procedures listed to determine the total estimated percent of the lot that is within specification limits. Quality Level Analysis (Specification Conformance Analysis) is a statistical procedure for estimating the percent compliance with a specification and is affected by shifts in the arithmetic mean (\bar{x}) and by the sample standard deviation (s). Analysis of test results will be based on an Acceptance Quality Level (AQL) of 90.0, unless otherwise specified. AQL may be viewed as the lowest percent within the specification limits of a material that is acceptable as a process average and receive 100% pay. The Department will exclude test results on Material not incorporated in the Work from the Quality Level Analysis.

For items evaluated using Quality Level, and in the Department's sole discretion, a lot with a Quality Level of less than 50 percent within limits will be either (1) removed and replaced with acceptable Material at the Contractor's expense, or (2) accepted and paid for at a Pay Factor determined by the Department. The Department may also reject Material with a Quality Level at or above this level, but such Material will be removed and replaced by the Contractor at the Department's expense.

106.4.1 Quality Level Analysis

Standard Deviation Method Standard Deviation Method procedures are as follows:

A. Determine the arithmetic mean (\bar{x}) of the test results:

$$\bar{x} = \frac{\sum x_i}{n}$$

Where \sum = summation of

x_i = individual test value

n = total number of test values

B. Compute the sample standard deviation (s):

$$s = \sqrt{\frac{\sum(x_i - \bar{x})^2}{n-1}}$$

Where \sum = summation of

x_i = individual test values

\bar{x} = mean test value

n = total number of test values

C. Compute the upper quality index (Q_U):

$$Q_U = \frac{USL - \bar{x}}{s}$$

Where USL = upper specification limit.

D. Compute the lower quality index (Q_L):

$$Q_L = \frac{\bar{x} - LSL}{s}$$

Where LSL = lower specification limit.

E. Determine P_U (percent within the upper Specification limit which corresponds to a given Q_U) from Table 106.4 A.

Note: If a USL is not specified, P_U will be 100. If the mean test value is equal to the USL, then P_U will be 50 regardless of the computed value of s.

F. Determine P_L (percent within the lower Specification limit which corresponds to a given Q_L) from Table 106.4 A.

If the mean test value is equal to the USL, then P_U will be 50 regardless of the computed value of s.

Note: If a LSL is not specified, P_L will be 100.

- G. Determine the Quality Level (total percent within Specification limits).

$$\text{Quality Level} = (P_U + P_L) - 100$$

- H. Determine the Pay Factor (PF) for the lot using the Quality Level from Step G.
For items included in Sections 401 – Hot Mix Asphalt:

Method A: $PF = [55 + (\text{Quality Level} * 0.5)] * 0.01$

Method C: $PF = [55 + (\text{Quality Level} * 0.5)] * 0.01$

For items included in Section 402 – Pavement Smoothness:

$$PF = [55 + (\text{Quality Level} * 0.5)] * 0.01$$

For items included in Section 502 – Structural Concrete:

Method A: $PF = [55 + (\text{Quality Level} * 0.5)] * 0.01$

- I. Determine the Composite Pay Factor (CPF) for each lot.

$$\text{CPF} = \frac{[f_1(PF_1) + f_2(PF_2) + \dots + f_j(PF_j)]}{\sum f}$$

Where f_j = price adjustment factor listed in the specifications for the applicable property.

PF_j = Pay Factor for the applicable property.

$\sum f$ = Sum of the “f” (price adjustment) factors.

106.4.2 Statistical Outliers This procedure specifies how outlying observations in sample test results will be evaluated for their statistical significance. The Department will use this procedure for only those items that are specified to be checked for outlying observations.

An outlying observation or “outlier” is one that appears to deviate markedly from other sample test values in the lot.

When specified, the procedure will determine whether any value is a statistical outlier. If a test result is found to be an outlier, the QA Engineer will investigate the outlying value to determine if it should be retained or discarded. The investigation will include but not be limited to an examination of all available test data and inspection reports relating to the questionable test result, possible additional testing, and discussions with appropriate Contractor and Department personnel. If the investigation concludes that an assignable cause cannot be determined for the outlying value, it will be discarded; otherwise, it will be retained for pay factor determination.

Procedure

- A. Calculate the sample average (\bar{x}) and standard deviation(s) of all the values in the lot.
- B. Find the value “t” from Table 106.4 B corresponding to the sample size for the lot.
- C. Determine D (the total allowable deviation from the average) by multiplying t by s.
- D. Establish values for MAX and MIN by the following:

$$\text{MAX} = \bar{x} + D$$

$$\text{MIN} = \bar{x} - D$$

- E. Any value greater than MAX or less than MIN is an outlier. The Department will investigate any outlying values before determining the Pay Factor for that lot.

Table 106.4 A - Quality Level Analysis by the Standard Deviation Method

PU Or PL %*	Upper Quality Index QU or Lower Quality Index QL														
	n = 3	n = 4	n = 5	n = 6	n = 7	n = 8	n = 9	n = 10 to n = 11	n = 12 to n = 14	n = 15 to n = 18	n = 19 to n = 25	n = 26 to n = 37	n = 38 to n = 69	n = 70 to n = 200	n = 201 to n = x
100	1.16	1.50	1.79	2.03	2.23	2.39	2.53	2.65	2.83	3.03	3.20	3.38	3.54	3.70	3.83
99		1.47	1.67	1.80	1.89	1.95	2.00	2.04	2.09	2.14	2.18	2.22	2.26	2.29	2.31
98	1.15	1.44	1.60	1.70	1.76	1.81	1.84	1.86	1.91	1.93	1.96	1.99	2.01	2.03	2.05
97		1.41	1.54	1.62	1.67	1.70	1.72	1.74	1.77	1.79	1.81	1.83	1.85	1.86	1.87
96	1.14	1.38	1.49	1.55	1.59	1.61	1.63	1.65	1.67	1.68	1.70	1.71	1.73	1.74	1.75
95		1.35	1.44	1.49	1.52	1.54	1.55	1.56	1.58	1.59	1.61	1.62	1.63	1.63	1.64
94	1.13	1.32	1.39	1.43	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.55
93		1.29	1.35	1.38	1.40	1.41	1.42	1.43	1.44	1.44	1.45	1.46	1.46	1.47	1.47
92	1.12	1.26	1.31	1.33	1.35	1.36	1.36	1.37	1.37	1.38	1.39	1.39	1.40	1.40	1.40
91	1.11	1.23	1.27	1.29	1.30	1.30	1.31	1.31	1.32	1.32	1.33	1.33	1.33	1.34	1.34
90	1.10	1.20	1.23	1.24	1.25	1.25	1.26	1.26	1.26	1.27	1.27	1.27	1.28	1.28	1.28
89	1.09	1.17	1.19	1.20	1.20	1.21	1.21	1.21	1.21	1.22	1.22	1.22	1.22	1.22	1.23
88	1.07	1.14	1.15	1.16	1.16	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17	1.17
87	1.06	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.13	1.13
86	1.04	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
85	1.03	1.05	1.05	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
84	1.01	1.02	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99
83	1.00	0.99	0.98	0.97	0.97	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.95
82	0.97	0.96	0.95	0.94	0.93	0.93	0.93	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
81	0.96	0.93	0.91	0.90	0.90	0.89	0.89	0.89	0.89	0.88	0.88	0.88	0.88	0.88	0.88
80	0.93	0.90	0.88	0.87	0.86	0.86	0.86	0.85	0.85	0.85	0.85	0.84	0.84	0.84	0.84
79	0.91	0.87	0.85	0.84	0.83	0.82	0.82	0.82	0.82	0.81	0.81	0.81	0.81	0.81	0.81
78	0.89	0.84	0.82	0.80	0.80	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.77	0.77	0.77
77	0.87	0.81	0.78	0.77	0.76	0.76	0.76	0.75	0.75	0.75	0.75	0.74	0.74	0.74	0.74
76	0.84	0.78	0.75	0.74	0.73	0.73	0.72	0.72	0.72	0.71	0.71	0.71	0.71	0.71	0.71
75	0.82	0.75	0.72	0.71	0.70	0.70	0.69	0.69	0.69	0.68	0.68	0.68	0.68	0.68	0.67
74	0.79	0.72	0.69	0.68	0.67	0.66	0.66	0.66	0.66	0.65	0.65	0.65	0.65	0.64	0.64
73	0.76	0.69	0.66	0.65	0.64	0.63	0.63	0.63	0.62	0.62	0.62	0.62	0.62	0.61	0.61
72	0.74	0.66	0.63	0.62	0.61	0.60	0.60	0.60	0.59	0.59	0.59	0.59	0.59	0.58	0.58
71	0.71	0.63	0.60	0.59	0.58	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.56	0.55	0.55
70	0.68	0.60	0.57	0.56	0.55	0.55	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53	0.52
69	0.65	0.57	0.54	0.53	0.52	0.52	0.51	0.51	0.51	0.50	0.50	0.50	0.50	0.50	0.50
68	0.62	0.54	0.51	0.50	0.49	0.49	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47
67	0.59	0.51	0.47	0.47	0.46	0.46	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44
66	0.56	0.48	0.45	0.44	0.44	0.43	0.43	0.43	0.42	0.42	0.42	0.42	0.41	0.41	0.41

65	0.52	0.45	0.43	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.39	0.39	0.39	0.39
64	0.49	0.42	0.40	0.39	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36
63	0.46	0.39	0.37	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.33	0.33	0.33
62	0.43	0.36	0.34	0.33	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31
61	0.39	0.33	0.31	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28
60	0.36	0.30	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25
59	0.32	0.27	0.25	0.25	0.24	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23
58	0.29	0.24	0.23	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20
57	0.25	0.21	0.20	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
56	0.22	0.18	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15
55	0.18	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
54	0.14	0.12	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
53	0.11	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
52	0.07	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
51	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: For negative values of QU or QL, PU or PL is equal to 100 minus the table value for PU or PL. If the value of QU or QL does not correspond exactly to a figure in the table, use the next higher figure.

* Within limits for positive values

Table 106.4 B - Values of t

n	t
3	1.155
4	1.481
5	1.715
6	1.887
7	2.020
8	2.126
9	2.215
10	2.290
11	2.355
12	2.412
13	2.462
14	2.507
15	2.549
16	2.585
17	2.620
18	2.651
19	2.681
20	2.709
21	2.733
22	2.758
23	2.781
24	2.802
25	2.822
26	2.841
27	2.859
28	2.876
29	2.893
30	2.908

106.4.3 Early Termination of Lots In the event a lot in progress is terminated prematurely before the Department is able to take the number of acceptance samples required by the test method specified in the Contract, the following will apply as applicable unless otherwise detailed in the specifications for the item:

- A. If three or more samples have been taken, then payfactors will be generated using the available samples results for the lot.
- B. If the termination was requested by the Contractor and approved by the Department prior to three samples being taken, then each property's payfactor will be set to 0.80.
- C. If the termination was initiated by the Department prior to three samples being taken, then each property's payfactor will be set to 1.00 for each property.

SECTION 107 - TIME

Scope of Section. This Section contains general time-related provisions of the Contract including the Contract Time, allowable Work times, schedule requirements, Liquidated Damages, and Project Closeout.

107.1 Contract Time and Contract Completion Date. All Work must be Complete by the Contract Completion Date and within the Contract Time specified in the Project Requirements. Unless expressly provided otherwise by the Department in writing, the Contract Time shall be all time between the Contract Execution and the Completion date specified in the Contract, and any authorized extensions.

107.2 Commencement of Contract Time and Work. Unless provided elsewhere in this Contract or in writing from the Department, the Contract Time will commence on the date of Contract Execution. For related provisions, see Sections 101.2 – Definition of Notice to Commence Work and 103.4.3 – Execution of Contract by the Department.

Unless specified otherwise, Work may commence upon Contract Execution. Any Work performed before Contract Execution is Unauthorized Work and is at the sole risk of the Design-Builder.

107.3 Allowable Work Times.

107.3.1 General. Work can be performed at any time except Sundays and Holidays, unless expressly specified otherwise in the Project Requirements of this Contract, including any applicable Permit conditions. If a Holiday occurs on a Sunday, the following Monday shall be considered a Holiday. Sunday or Holiday work must be approved by the Department, except that the Design-Builder may work on Martin Luther King Day, President’s Day, Patriot’s Day, Juneteenth, the Friday after Thanksgiving, and Indigenous Peoples Day without the Department’s approval.

107.3.2 Night Work. If the Design-Builder performs Work during periods of darkness, the Design-Builder shall comply with Contract requirements governing night Work. If the Design-Builder elects to perform Work during periods of darkness on its own initiative and without direction from the Department, then the Design-Builder shall also comply with all municipal ordinances affecting such Work including noise ordinances. When pricing and scheduling the Work, the Design-Builder shall not assume that such non-directed night work will be allowed. Accordingly, the Design-Builder shall not be entitled to any adjustment to either compensation or time due to its inability to secure any required municipal approvals.

107.3.3 Sundays and Holidays. The Design-Builder shall not carry on construction operations on Sundays or Holidays unless:

- A. expressly specified otherwise in this Contract,
- B. expressly authorized by the Department, or
- C. necessary to avoid or eliminate a clear and immediate risk of significant bodily injury to any person.

107.3.4 Seasonal Work Restrictions. The Design-Builder shall meet all seasonal restrictions on time of Work contained in the Contract including all Permits.

107.4 Scheduling of Work.

107.4.1 General Duty of Design-Builder. The Design-Builder is solely responsible for the planning and execution of Work in order to complete the Work within the Contract Time.

107.4.2 Initial Schedule. Within five (5) Days of Contract Execution, the Design-Builder shall provide the Department with its Initial Schedule for the first forty (40) Days of work plus a summary level bar chart schedule for the balance of the project with milestones and completion dates no later than the Contract Completion Date. For contracts in excess of \$40 million, the Initial Schedule will cover at least the first sixty (60) Days of the project. At a minimum, the Initial Schedule must show the major initial Work activities that will affect completion dates including but not limited to planning, design, submittals, procurement, utility adjustments, mobilization, construction staging and phasing, and Department reviews. Any restrictions that affect the Schedule of Work such as paving restrictions or In-Stream Work windows must be charted with the related activities to demonstrate that the Schedule of Work complies with the Contract.

The Department will review the Initial Schedule and provide comments to the Design-Builder within five (5) Days of receipt of the schedule. The Design-Builder will make the requested changes to the schedule and issue the finalized version to the Department.

107.4.3 Schedule of Work Required. Within forty (40) Days after Contract Execution and before beginning any on-site construction activities, the Design-Builder shall provide the Department with its Schedule of Work in a Critical Path Method (CPM) in the form of an activity on node (AON) diagram. This CPM schedule will become the basis for claims involving Delay. The Department will waive this CPM requirement for appropriate Contracts through a special provision. The Design-Builder shall plan the Work, including the activity of Subcontractors, vendors, and suppliers, such that all Work will be performed in Substantial Conformity with its Schedule of Work. The Schedule must include sufficient time for the Department to perform its functions as indicated in this Contract, including QA inspection and testing, approval of the Design-Builder's TCP, SEWPCP, and CQMP, and review of Working Drawings.

At a minimum, the Schedule of Work shall show the major Work activities, milestones, durations, and a timeline. Milestones to be included in the schedule include:

- A. Commencement of Work, including design activities, particularly release for construction packages;
- B. beginning and ending of planned Work suspensions;
- C. completion of major Work phases;
- D. Substantial Completion;

- E. Completion of Physical work; and
- F. Completion.

The Schedule of Work must incorporate required utility Work to coordinate with utility owners having facilities within the project limits.

Any restrictions that affect the Schedule of Work such as paving restrictions or In-Stream Work windows must be charted with the related activities to demonstrate that the Schedule of Work complies with the Contract.

The Design-Builder shall include a written narrative detailing any assumptions made in preparing the schedule including constraints, equipment requirements, production rates to support activity durations, activities requiring overtime, additional shifts, permits, coordination requirements, long lead delivery items, or other significant requirements which would affect the ability to meet the interim and final milestone dates. Failure to include any Work activity will not relieve the Design-Builder from completing all Work within the Contract Time, notwithstanding the acceptance of the schedule by the Department.

The Department will review the Schedule of Work and provide comments to the Design-Builder within ten (10) Days of receipt of the schedule. The Design-Builder will make the requested changes to the schedule within five (5) Days and issue the finalized version to the Department.

If the Design-Builder Plans to Complete the Work before the specified Completion date, the Schedule of Work shall so indicate.

107.4.4 Projected Payment Schedule. Within five (5) Days after approval of the Payout Schedule defined in Subsection 108.1.3 – Payout Schedule, the Design-Builder shall also provide the Department with a Projected Payment Schedule that estimates the value of the Work as scheduled, including requests for payment of Delivered Materials. The Projected Payment Schedule must be in accordance with the Design-Builder’s Schedule of Work and price. The Design-Builder shall revise the Projected Payment Schedule to reflect the actual progress of the Work.

107.4.5 Schedule Updates and Revisions. On a monthly basis or at such intervals as agreed upon, the Design-Builder will submit a schedule update to the Department reflecting the actual progress of the Work including any changes in the Work, Contract Time, or both. The progress of the Work shall be compared against the Schedule of Work at each Progress Meeting. If the Department determines that the Design-Builder’s actual progress is not in Substantial Conformity with the Schedule of Work, then the Design-Builder shall either increase Project resources to get back on schedule or submit a revised Schedule of Work and Projected Payment Schedule to the Department for its review. Any schedule revisions must be approved by the Department.

107.4.6 Failure to Submit Schedules. The Department may withhold approval of progress payments until the Design-Builder submits and the Department accepts the initial schedule, the Schedule of Work, and schedule updates.

107.5 Suspension of Work.

107.5.1 Winter Suspensions.

- A. Winter Suspension. If the Design-Builder determines that winter weather conditions make it impossible to perform all or specified portions of the Work, the Design-Builder shall notify the Department and set the start date and the proposed end date of the Winter Suspension with respect to such portions.
- B. Monitoring and Communications. During the Winter Suspension, the Design-Builder is responsible for monitoring weather conditions. If the Design-Builder decides to resume work, the Design-Builder shall notify the Resident ten (10) Days before the end date of the Winter Suspension specified in this Subsection.
- C. Impact on Liquidated Damages. Winter Suspensions will not affect the assessment of Liquidated Damages. For a related provision, see Section 107.7 – Liquidated Damages.

107.5.2 Suspensions Due To Uncontrollable Events. Upon request of the Design-Builder or upon its own initiative, the Department may suspend the Work due to Uncontrollable Events. Any Delay related to such a suspension will be analyzed in accordance with Section 109. For a related provision, see Section 101.2 – Definition of Uncontrollable Event.

107.5.3 Suspensions for Cause. The Department may suspend the Work if the Design-Builder violates any provision of the Contract that may affect the quality, cost, timeliness or Conformity of the Work. Any Delay related to such a suspension will be an Inexcusable Delay. For a related provision, see Section 109.3 – Adjustments for Delay.

107.5.4 Suspensions for Convenience. The Department may suspend the Work for any other reason it determines is in the best interest of the Department. Any Delay related to such a suspension will be analyzed in accordance with Section 109.3 – Adjustments for Delay.

107.5.5 Pre-Suspension Work. If Work is to be suspended for an extended period of time, the Design-Builder shall store all Materials in a manner that does not obstruct the free and safe flow of vehicular, pedestrian, railroad, or marine traffic and that protects the Materials from damage. The Department may direct the Design-Builder to install guardrail or other traffic control devices necessary to protect the traveling public. The Design-Builder shall take all precautions to prevent damage or deterioration of the Work already performed, provide suitable Drainage of the Roadway by opening ditches and Shoulder drains, erecting temporary Structures, and providing temporary erosion control where necessary. The cost of such pre-suspension Work will be analyzed in accordance with Section 109.

For related provisions, see Subsections 104.2.6 – Right to Suspend Work, 105.4.4 – Maintenance During Suspension of Work, and Sections 107.7 – Liquidated Damages, and 109.3 – Adjustments for Delay.

107.6 Completion Incentives and Disincentives. When provided in the Project Requirements, financial incentives for early Completion and disincentives for late Completion will be added to

or deducted from amounts otherwise due the Design-Builder. Incentives/Disincentives are separate and distinct from Liquidated Damages and Supplemental Liquidated Damages.

107.7 Liquidated Damages.

107.7.1 General. The Department and the Design-Builder acknowledge that time is an essential element of the Contract, and that Delay in completing the Work beyond the designated Completion date will result in damages, including but not limited to damages to the State of Maine due to public inconvenience, obstruction to traffic, interference with business, as well as increased engineering, inspection, and administrative costs to the Department. The Department and the Design-Builder acknowledge the difficulty of making a precise determination of such damages and, as a result, they have agreed to a sum of money in the amount stipulated in the Contract that will be charged against the Design-Builder for each Calendar Day that the Work remains uncompleted after the expiration of the designated Completion date, not as a penalty but as Liquidated and Supplemental Liquidated Damages.

Except as expressly provided otherwise in this Contract, the Design-Builder or, in case of default, its Surety, shall owe the Department the per diem amount specified in Subsection 107.7.2 – Schedule of Liquidated Damages, as well as any per diem amount of Supplemental Liquidated Damages as specified in the Supplement Specifications, for each Calendar Day that any portion of the Work remains Incomplete after the Contract Time has expired. Should the Design-Builder or its Surety fail to complete the Work by the Completion date, a deduction of the amount stipulated in the Contract as Liquidated and Supplemental Liquidated Damages will be made for each and every Calendar Day that such Work remains uncompleted. This amount will be deducted from any money due the Design-Builder or its Surety under the Contract, and the Design-Builder and its Surety will be liable for any Liquidated and Supplemental Liquidated Damages in excess of the amount due.

The Design-Builder acknowledges that the specified amounts per diem of Liquidated and Supplemental Liquidated Damages in the Standard Specifications and Supplemental Specifications, respectively (if applicable) are reasonable, and agrees to stipulate to their reasonableness in any suit for the collection of or involving the assessment of said damages. The damages referred to herein are intended to be and are cumulative, and will be in addition to every other remedy now or hereafter enforceable at law, in equity, by statute, or under the Contract.

Permitting the Design-Builder to continue and finish the work or any part thereof after the expiration of the Completion date shall in no way operate as a waiver on the part of the Department of its rights to assess and recover Liquidated and Supplemental Liquidated Damages, or any other rights, under the Contract.

For related provisions, see Sections 107.1 – Contract Time and Contract Completion Date, 107.5.1.C – Winter Suspensions – Impact on Liquidated Damages, and 109.3 – Adjustments for Delay.

107.7.2 Schedule of Liquidated Damages. The specific per diem rates for Liquidated Damages are set forth in the table below. By executing the Contract, the Design-Builder acknowledges that such an amount is not a penalty and that the daily amount set forth in the Contract is a

reasonable per diem forecast of damages incurred by the Department due to the Design-Builder’s failure to Complete the Work within the Contract Time.

Original Contract Amount		Per Diem Amount of Liquidated Damages Calendar Day
From More Than	To and Including	
\$0	\$100,000	\$250
\$100,000	\$250,000	\$500
\$250,000	\$500,000	\$650
\$500,000	\$1,000,000	\$800
\$1,000,000	\$2,000,000	\$1,000
\$2,000,000	\$4,000,000	\$1,200
\$4,000,000	\$6,000,000	\$2,100
\$6,000,000	\$10,000,000	\$3,000
\$10,000,000	\$14,000,000	\$5,000
\$14,000,000	and more	\$8,000

107.7.3 Supplemental Liquidated Damages. Supplemental Liquidated Damages, if any, will be specified by the Project Requirements and are separate and distinct from Liquidated Damages. Supplemental Liquidated Damages will be deducted from amounts otherwise due the Design-Builder.

107.8 Project Closeout.

107.8.1 Final Cleanup and Finishing. To prepare for Final Acceptance, the Design-Builder shall clean the Project and all ground, lawns, streams, Structures, and other areas adjacent to the Project of all rubbish, excess Material, temporary Structures, and Equipment. The ground shall be backfilled with Material that is generally the same as the surrounding Material, graded to drain properly, and finished such that the surface matches the surrounding surface (examples – loam and seed, compacted gravel, pavement). The Design-Builder must leave all areas impacted by the Work in a condition that is reasonably acceptable to the Department.

107.8.2 Notice/Inspection/Punch List. The Design-Builder will notify the Department in writing that it considers the Project complete. As soon as practicable thereafter, the Department will inspect the Work. If Incomplete or unsatisfactory Work is noted, the Department will prepare a written list of all items that must be completed or corrected before the Physical Work is Complete (“Punch List”). The Design-Builder shall immediately take such measures as are necessary to complete all Punch List items.

107.8.3 Notices/Final Inspections/Physical Work Completion. The Design-Builder shall notify the Department in writing that all Punch List items have been completed and/or corrected and that the Design-Builder considers the Project Complete. As soon as practicable thereafter, the Department will make another inspection of the Work. The Department and the Design-Builder will attend this inspection jointly. If Incomplete or unsatisfactory Work is noted, the Department will prepare a revised Punch List (which may include items not on

previous Punch List(s)) and the Design-Builder shall immediately take such measures as are necessary to complete the revised Punch List items. Additional iterations will occur in a like manner until the Department finds that the Physical Work is Complete and in Conformity with the Contract. If the Design-Builder has not already done so, the Design-Builder will promptly remove all temporary traffic control devices.

107.8.4 Closeout Documentation. The Department will notify the Design-Builder in writing that the Physical Work is Complete and in Conformity with the Contract and that the Project will be finally accepted when the Closeout Documentation is received from the Design-Builder. The Design-Builder shall deliver all Closeout Documentation, exclusive of the All Bills Paid and Request for Final Payment Letters, to the Department within twenty (20) Days of receiving the above notification. Liquidated Damages will cease upon Physical Completion of Work. For a related provision, see Section 101.2 – Definition of Closeout Documentation.

107.8.5 Final Acceptance. Within fifty (50) Days of Final Acceptance by the Department, the Department will advise the Design-Builder in writing of the Final Quantities and any damages to be assessed for the Project. The Design-Builder shall resolve any Project issues that remain and provide the All Bills Paid and Request for Final Payment Letters to the Department within twenty (20) Days. The Department will make Final Payment, including the release of all remaining retainage, and release any Escrowed Proposal Documents within fifteen (15) Days of receipt of the above letters, which complete the Closeout Documentation. For a related provision, see Section 108.9 – Final Payment.

If the Design-Builder fails to resolve issues and Deliver Closeout Documentation within the twenty (20) Days provided in this Section, the Department may provide a final notice informing the Design-Builder in writing that unless the Design-Builder delivers all Closeout Documentation within twenty (20) Days of the date of Receipt of final notice, the Design-Builder shall be in Default under the Contract. The Design-Builder, and all Major Participants, shall become ineligible to propose on any Department Contracts. The Department may then pursue all remedies provided by the Contract or by law, including withholding Final Payment. For a related provision, see Section 102.1 – Eligibility to Submit a proposal.

107.8.6 No Waiver of Legal Rights. Final Acceptance does not preclude the Department from correcting any measure, estimate, or certificate made. The Department may recover from the Design-Builder or its Surety, or both, overpayments made due to failure to fulfill Contract obligations.

A waiver on the part of the Department of any breach of any part of the Contract is not a waiver of any other or subsequent breach.

The Design-Builder retains liability for latent Defects, fraud (or such gross mistakes as may amount to fraud), and warranty obligations.

SECTION 108 - PAYMENT

Scope of Section. This Section contains general provisions related to payment including measurement of quantities, progress payment, retainage, the right to withhold payment, and other payment-related terms.

108.1 Payment.

108.1.1 Lump Sum Price. Unless expressly provided elsewhere in this Contract, payment for all Work within the Scope of Work shall be included in the Lump Sum Price shown on the Price Proposal Form. Compensation for all work not specifically designated in this Contract as a unit price, incentive/disincentive, QC/QA, cost-plus, or allowance item shall be included in the said Lump Sum Price.

108.1.2 Scope of Payment. Payments to the Design-builder shall be full compensation for furnishing all Materials and for performing all work under the Contract in a complete and acceptable manner and for all risk, loss, damage, or expense of whatever character arising out of the nature of the Work or the prosecution thereof.

108.1.3 Payout Schedule.

108.1.3.1 Submittal. Within fifteen (15) Days of the NTCW, the Design-Builder shall submit to the Department a Payout Schedule based on a cost breakdown of the major activities or tasks shown in their Schedule of Work. This schedule shall be a realistic and documentable presentation of the costs to complete the major activities or tasks that comprise the Lump Sum Price for the Work. Applications for Payments should reference, and reflect actual progress on, the activities and tasks on the Payout Schedule. The Department will use the Payout Schedule to assist in evaluating requests for payment.

Within five (5) Days after approval of the Payout Schedule, the Design-Builder shall submit to the Department a Projected Monthly Schedule of Payments for the Project. The Projected Monthly Schedule of Payments will provide the Department with an estimate of monthly cash flow requirements by forecasting the Design-Builder's monthly Applications for Progress Payments for the duration of the Project. A sample form of the Project Schedule of Payment is provided as Exhibit A to Appendix B of this RFP.

The Design-Builder shall maintain the Payout Schedule and Project Schedule of Payment to reflect changes in their Schedule of Work.

108.1.3.2 Review and Approval. Within five (5) Days of the submittal of the Payout Schedule, the Department shall approve the Payout Schedule or return it to the Design-Builder with deficiencies noted. The Department will not approve a Payout Schedule that is unbalanced. The Design-Builder shall then resubmit the Payout Schedule until an acceptable Payout Schedule is approved. No progress payment, including costs for design services and any initial request of mobilization costs, will be made until a Payout Schedule

is approved. The Design-Builder is responsible for incorporating time for submission and approval of the Payout Schedule in its Schedule of Work.

108.1.3.3 Justification of Payout Schedule or Project Monthly Schedule of Payment. The Department may require the Design-Builder to provide explanations and supporting documentation if the Payout Schedule or Projected Monthly Schedule of Payments indicate unbalancing or do not reasonably reflect the actual cost of performing the work or the value of work received by the Department.

108.2 Measurement of Quantities for Payment.

108.2.1 Use of Plan Quantities. Payment for all items labeled in the Bid Documents as “Plan Quantity” will be based upon the estimated quantity for the Work described in the Proposal Documents. The Design-Builder shall accept such payment as full and complete compensation for that item without physical measurement. Quantities included in the Plan Quantity amount but not accomplished will be calculated by the Department using standard estimating procedures and deducted from the plan quantity. Areas not included in the Plan Quantity amount but completed will be measured and added to the Plan Quantity. Upon mutual written Agreement by the Department and the Design-Builder, the estimated quantity of any item of Work may be used as the final quantity for that item without physical measurement.

108.2.2 General Measurement Provisions. The Department will use the U.S. Customary system for all measurements unless the Contract utilizes the International System of Units (SI). Measurement of Items shall include all resources necessary to complete the Work under the Contract. The Department will measure items for payment in accordance with the “Method of Measurement” provisions of the applicable Specification. For all items of Work, other than those paid for by Lump Sum, the Department shall determine the quantities accepted as the basis for Final Payment after the Physical Work is Completed.

108.2.3 Provisions Relating to Certain Measurements. Unless expressly provided otherwise, the Department and the Design-Builder shall use the following general measurement provisions.

Lump Sum or Each. “Lump Sum” payment is total reimbursement for all resources necessary to complete the item of Work.

“Each” payment is payment per complete unit.

Length. “Length” is defined as linear measurement parallel to the item base or foundation. A station is one hundred (100) feet.

Area. “Area” refers to the length, as defined above, multiplied by the width, which is defined as the linear measurement perpendicular to the item base or foundation. When calculating area for payment, use horizontal, longitudinal, and plan (neat) transverse measurements for surface area computations. Make no deductions for individual fixtures having an area of one (1) square yard or less. For purposes of the preceding sentence, “fixtures” means small subareas that do not receive Material(s) or on which no Work is performed.

Volume. Measure Structures using plan (net) or approved Contract Modification dimensions. Use the average end area method to compute excavation volumes. Use hauling vehicles approved by the Department, when transporting Materials measured by volume. Measure Materials at the point of Delivery. Ensure the body shape allows contents to be accurately measured. Load and level vehicles to the lesser of their water level or legal capacity. Obtain the Department's approval to convert Materials specified for measure by mass to volume. Use specified conversion factors.

Measure water to the nearest gallon with calibrated tanks, distributors, certified scale weights or water meters.

Measure bituminous Materials by the gallon or ton.

Use net certified scale weights or certified rail car volumes. Correct for bituminous Material lost, wasted, or otherwise not incorporated in the Work. Correct net certified bituminous Material weights or volumes for loss or foaming when shipped by truck or transport.

Measure timber by the board foot. Base measurement on nominal widths and thicknesses and individual maximum lengths.

Mass. A ton is two thousand (2,000) pounds. Use certified scales to determine mass (weight). Accept certified "car weights" for Material shipped by rail, except for Material to be subsequently processed in mixing plants. Obtain certified haul truck tares as specified. Each Haul Truck shall display a legible identification mark.

Measure cement by the pound or ton.

Accept nominal mass or dimensions for standard manufactured items unless otherwise specified.

Accept industry-established manufacturing tolerances, unless otherwise specified.

Measure Aggregate mass in the saturated surface dry condition.

If the Contract requires, or the Design-Builder's Payout Schedule proposes payment for specific items by weight, then the Design-Builder shall furnish and maintain weigh systems tested and certified by the State or use certified permanently installed commercial scales. The Design-Builder shall provide certifications after each set-up and before use or as requested by the Department. The weigh system shall be scaled after certification and display a certification stamp. Only mechanical or electronic scales shall be used.

The beams, dials, platforms, and other scale Equipment shall be arranged for safe and convenient viewing by the operator and inspector. Scales shall be tested for accuracy before use at a new site. Platform scales shall be level and with rigid bulkheads at each end. The Department will adjust quantities of Materials received on scales found to be outside of specified tolerances, using a correction based on the last documented test within specified tolerances.

All materials, which are measured or proportioned by weight, shall be weighed on approved weighing systems. When a delivery slip is required for payment of Materials measured by weight, weighing, except for automatic ticket printer systems, shall be performed on approved platform

truck scales by a Licensed Public Weighmaster furnished by the Design-Builder, in accordance with the following requirements.

- A. Licensed Public Weighmaster. A Licensed Public Weighmaster shall be any person satisfying the requirements of the State Sealer of Weights and Measures and granted a license as a Public Weighmaster. Each Licensed Public Weighmaster shall provide him/her with an impression seal as required by the State Sealer and shall impress this seal upon delivery slips issued by him/her. When completed by a Licensed Public Weighmaster, delivery slips shall be considered as the Weight Certificates required by the Maine Weights and Measures Law, MRSA Title 10. The Weighmaster shall perform all duties required of him/her by law and the specifications.
- B. Weighing Trucks. Tare weights of trucks hauling stone, bituminous mixes and similar items shall be determined twice daily, once during the forenoon and once during the afternoon. The tare weight thus found shall be used to determine the net load until the next tare weighing of the empty truck. Tare weights of trucks hauling liquid and bituminous cement materials or other items not generally on a repeat basis shall be determined immediately before being loaded and the weight thus found shall be used for that load only. The tare weight of a truck shall be defined as the weight of the empty vehicle including the driver, but with no passengers.
- C. Platform Truck Weighing Systems. An approved platform truck scale, meeting the following requirements shall be provided, installed and maintained, when required, by the Design-Builder or be available to the Design-Builder at an approved nearby location:
 - 1. The weighing system shall conform to the specifications, tolerances, and regulations for commercial weighing devices of the National Institute of Standards and Technology and shall be accurate within maximum tolerances of plus or minus two (2) pounds per one thousand (1,000) pounds of load.
 - 2. No auxiliary indicators, in combination with the beams or dial of the weighing system shall be used to increase the maximum allowable load above one hundred and five percent (105%) of the manufacturer's rated capacity, as stated in the National Institute of Standards and Technology Handbook 44 S.1.7.
 - 3. The platform of the weighing system shall be of sufficient size to accommodate the entire vehicle or combination of vehicles. If a combination of vehicles must be divided into separate units in order to be weighed, each unit shall be entirely disconnected before weighing and a separate weight certificate, delivery slip, or ticket shall be issued for each separate unit.

4. The value of the minimum graduation on the indicator of the scale shall not be greater than twenty (20) pounds. All weighing shall be read and recorded to the nearest twenty (20) pounds or one-hundredth ton.
 5. The weighing system shall be set on concrete or other approved foundation. The recording mechanism of the scale shall be suitably housed or protected from weather.
 6. The Design-Builder shall have the weighing system inspected and approved by the State Sealer of Weights and Measures or by a Repairman registered and approved by the State Sealer within a period of twelve (12) months preceding the date of any weighing and again after each change of location.
- D. Check Weighing for Platform Truck Weighing System. Check weighing shall be made on the weights and on the weighing in scales during production in the following manner:

1. At least twice during five (5) Days of production, in the presence of a State Inspector, a loaded truck which has been weighed and issued a weigh slip shall be turned and a new weighing made of the truck and load with the truck heading in reverse direction and at the opposite end of the weighing system platform from the first weighing. The new weight will be recorded. If the variation from the first weight is 0.2 percent (0.2%) or less, the fact will be so noted in the project records. However, if the variation exceeds 0.2 percent (0.2%), the scales shall not be used until rechecked and resealed by the State Sealer of Weights and Measures.
2. At least twice during five (5) Days of production, a loaded truck, which has moved off the weighing system, will be intercepted, directed back to the scales, and reweighed under supervision of a State Inspector.
3. At least twice during five (5) Days of production, in the presence of a State Inspector, a truck which has been emptied will be directed to the weighing system before being loaded at a time other than the normal tare weighing and weighed again for a check on the tare weight.
4. Check weighing will be on a plant basis and, although a plant may produce material for more than one project or Contract, check weighing will not be required for each project or Contract.

At least twice during five (5) Days of production, additional checks will be made occasionally at the discretion of the Resident.

Claims by the Design-Builder for delays or inconvenience due to check weighing will not be considered.

- E. Reciprocal Agreements. Weighing of materials on weighing systems located outside the State of Maine will be permitted for materials produced or stored outside

the State, when requested by the Design-Builder and approved by the Department. In order to be approved, out-of-state weighing must be performed by a Licensed Public Weighmaster or a person of equal authority in that State, on scales accepted in the State concerned and meeting the requirements of this Section.

- F. Delivery Slips. Serially prenumbered delivery slips of acceptable size and format for stating the following minimum information shall be furnished by the Design-Builder, in as many copies as may be necessary. One copy shall be retained by the Resident or Inspector upon accepting delivery of the material.
1. Vehicle identification
 2. Date loaded
 3. Work identification number & location
 4. Identification of Material:
 - (a) Item number
 - (b) Source location of supplier
 - (c) Type and grade
 - (d) Tank number from which loaded, if liquid
 5. Quality information as necessary for bituminous liquids
 - (a) Specific gravity at 60°F
 - (b) Serial number of the Certificate of Analysis as furnished according to Division 700, General Statement of the Standard Specifications.
 - (c) The Certificate Statement as required in Division 700, General Statement of the Standard Specifications.
 - (d) Viscosity of the Material: if asphalt cement, in poises at 140°F and in centistokes at 275°F; if other bituminous liquid, the specified viscosity according to the type and grade shown in Section 702 of the Standard Specifications.
 6. Quantity information as necessary: gross, tare and net weights, volume of load if not material requiring weighing, net gallons at 60°F if bituminous liquids.
 7. Signatures (legible initials acceptable) Of: Weighmaster (if weight measured material), Design-Builder's representative (if volume measured material), and Resident (Cover Slips).

If Materials are shipped by rail the car weight may be accepted provided that only the actual weight of material is paid for. However, car weights will not be acceptable for Materials to be passed through mixing plants. Trucks used to haul Material being paid for by weight shall be weighed empty daily, at such times as directed. Each truck shall bear a legible identification mark.

Rail shipments of bituminous liquid shall be measured directly by volume. Correction shall be made when liquid bituminous material has been lost from the car, wasted, or otherwise not incorporated in the work. Other shipments of bituminous liquids will be measured by the gallon. Volumes will be measured at 60°F or will be corrected to the volume at 60°F using the tables in ASTM D1250.

When bituminous liquids are shipped by truck or transport, net certified weights or volume subject to correction for loss or foaming may be used for computing quantities. Net certified weight shall be determined upon loading for all bituminous liquids when shipped by truck or transport. The net weight of each load shall be converted to net gallons at 60°F by a conversion factor expressed in pounds per gallon.

- G. Time. Measure Equipment by hours in accordance with Section 631 – Equipment Rental of the Standard Specifications.

108.3 Progress Payments.

108.3.1 Application for Progress Payment. In order to receive payment, the Design-Builder shall submit to the Department a written Application for Progress Payment including receipts, invoices, or other vouchers, including payments to subcontractors. Applications for Progress Payment may be made to the Department bi-weekly. Said invoices shall be based on the proportionate quantities of the various classes of work satisfactorily designed, checked, and completed or incorporated in the Work in accordance with the Schedule of Work and the value thereof determined from the Contract Payout Schedule.

108.3.2 Payment. All invoice payments shall be subject to correction in subsequent invoices and payments and upon the final acceptance and payment. No payment shall be made when, in the judgment of the Department, the Work is not proceeding in accordance with the provisions of the Contract or when the total value of the Work done since the last estimate amounts to less than \$5,000 dollars. Portions of the progress payment may be withheld in accordance with provisions of this Contract including the Project Requirements.

The Design-Builder may submit to the Department an Application for Progress Payment monthly during prosecution of the Work, on forms and media approved by the Department. Upon the request of the Department, the Design-Builder shall submit backup documentation including copies of Receipts, Invoices, and an itemization of payments to Subcontractors.

If any Application is inconsistent with the Projected Payment Schedule, backup documentation, or the actual progress of Work, the Application shall include a written explanation for such inconsistencies. The Department will consider all documentation provided in accordance with this Section as it prepares the Progress Payment.

If the Design-Builder does both of the following, then the Department will pay all Conforming and approved Progress Payments, less retainage and any amounts the Department may withhold pursuant to this Contract, within fifteen (15) Days of Receipt of the Conforming Application, except as otherwise provided in the Contract.

- A. Submits Applications for Progress Payments in an electronic form approved by the Department, and
- B. accepts electronic transfer of payments in a manner approved by the Department.

In other cases, the Department will make payment within twenty (20) Days, except as otherwise provided in the Contract. These payment obligations shall not apply in the event of unforeseeable circumstances such as insufficient legislative appropriations, information systems failure, and other Uncontrollable Events. All payments made are subject to correction in subsequent Progress Payments and the Final Payment. For related provisions, see Subsections 107.8.5 – Final Acceptance, 108.9 – Final Payment, and 108.10.2 – No Inflation Adjustments/ Interest.

108.3.3 Mobilization Payments. “Mobilization” includes the mobilization and demobilization of all resources as many times as necessary during the Work. The maximum amount that the Department will pay for Mobilization is ten percent (10%) of the Lump Sum Price.

Upon approval of all pre-construction submittals required for approval by this Contract including those listed in Subsection 104.4.3 – Preconstruction Meeting, the Design-Builder may request payment of up to fifty percent (50%) of the Lump Sum price for Mobilization. After the Department determines that the Work is fifty percent (50%) complete, the Design-Builder may request the other fifty percent (50%) of the Lump Sum price for Mobilization

108.4 Retainage. The Department will pay one hundred percent (100%) of each approved Progress Payment until the Work is approximately fifty percent (50%) complete. Thereafter, the Department will deduct five percent (5%) of the amount of each Progress Payment as retainage. In the event that the Department reasonably believes that retainage will be insufficient to cover all Design-Builder obligations under this Contract, the Department may withhold a greater percentage of the money to cover Design-Builder obligations.

The Department may hold, temporarily or permanently, retainage as needed to assure timely Completion of the Work in Conformity with the Contract. The Department may also disburse retainage to Subcontractors as set forth in Subsection 104.5.6 – Subcontractors Claims for Payment.

Upon Final Acceptance, and determination by the Department that there are no claims either by or on the Design-Builder or Subcontractors; no over payments by the Department; no Liquidated Damages due; and no disincentives due, the Department will reduce Retention to 1% of the original Contract Award amount, or \$100,000, whichever is less, as it deems desirable and prudent. The Design-Builder may request that the Department reduce retainage. The Department may grant or deny such request as it deems desirable and prudent. Otherwise, retainage will be held until the receipt of all Closeout Documentation.

108.5 Payment for Materials Obtained and Stored. Acting upon a request from the Design-Builder and accompanied by bills or Receipted bills, the Department will pay for all or part of the value of acceptable, non-perishable Materials that are to be incorporated in the Work, including Materials that are to be incorporated into the Work not yet delivered on the Work site, but stored at places acceptable to the Department. Examples of such Materials include steel piles, stone masonry, curbing, timber and lumber, metal Culverts, stone and sand, gravel, and other Materials Delivered on or near the Work site at acceptable storage places. The Department will not make payment on living or perishable Materials until acceptably planted in their final locations.

If payment for Materials is made to the Design-Builder based on bills only, then the Design-Builder must provide Receipted Bills to the Department for these Materials within ten (10) Days of the date the Design-Builder receives payment for the Materials. Failure of the Design-Builder to provide receipted bills for these Materials within ten (10) Days of the date the Design-Builder receives payment will result in the paid amount being withheld from the subsequent progress payment or payments, until such time the Receipted Bills are received by the Department.

Materials paid for by the Department are the property of the Department, but the risk of loss shall remain with the Design-Builder until the materials are installed and accepted. Payment for Materials does not constitute Acceptance of the Material. If Materials for which the Department has paid are later found to be unacceptable, then the Department may withhold amounts reflecting such unacceptable Materials from payments otherwise due the Design-Builder.

In the event of Default, the Department may use or cause to be used all paid-for Materials in any manner that is in the best interest of the Department.

Payment for certain materials shall be made in proportion to the Payout Schedule provided in Subsection 108.1.3 or upon such other basis as the Department may determine is an accurate reflection of the value of the materials.

The amount thus paid by the Department shall reduce amounts due the Design-Builder.

108.5.1 Materials Not Delivered. At the discretion of the Department and acting upon a request from the Design-Builder, an estimate accompanied by the Receipted Bills, may be made for payment for all or part of the value of acceptable nonperishable material not delivered on the Project, but stored in acceptable storage and not used at the time of such estimate. Payment for such materials shall be in accordance with Subsection 108.10.1 – Full Compensation. Payment will be in the amount indicated by Receipted Bills filed with the Department.

In the event of Default, the Department may use or cause to be used all paid-for Materials in any manner that is in the best interest of the Department.

108.5.2 Price Adjustment for Hot Mix Asphalt. For each Contract, a price adjustment for performance graded binder will be made for the following pay items, when the total quantity of Hot Mix Asphalt included in these items is in excess of 500 tons:

Item 403.102	Hot Mix Asphalt - Special Areas
Item 403.207	Hot Mix Asphalt - 19 mm
Item 403.2071	Hot Mix Asphalt – 19 mm (Polymer Modified)

Item 403.2072	Hot Mix Asphalt – 19 mm (Asphalt Rich Base)
Item 403.208	Hot Mix Asphalt - 12.5 mm
Item 403.2081	Hot Mix Asphalt - 12.5 mm (Polymer Modified)
Item 403.2084	Hot Mix Asphalt – 12.5 mm (Highly Modified HiMAP)
Item 403.209	Hot Mix Asphalt - 9.5 mm (sidewalks, drives, & Incidentals)
Item 403.210	Hot Mix Asphalt - 9.5 mm
Item 403.2101	Hot Mix Asphalt – 9.5 mm (Polymer Modified)
Item 403.2104	Hot Mix Asphalt – 9.5 mm (Thin Lift Surface Treatment)
Item 403.21041	Hot Mix Asphalt – 9.5 mm (Polymer Modified Thin Lift Surface Treatment)
Item 403.211	Hot Mix Asphalt – Shim
Item 403.2111	Hot Mix Asphalt – Shim (Polymer Modified)
Item 403.212	Hot Mix Asphalt - 4.75 mm (Shim)
Item 403.213	Hot Mix Asphalt - 12.5 mm (base and intermediate course)
Item 403.2131	Hot Mix Asphalt - 12.5 mm (base and intermediate course Polymer Modified)
Item 403.2132	Hot Mix Asphalt - 12.5 mm (Asphalt Rich Base and intermediate course)
Item 403.301	Hot Mix Asphalt (Asphalt Rubber Gap-Graded)
Item 461.13	Light Capital Pavement
Item 461.210	9.5 mm HMA – Paver Placed Surface
Item 461.2101	Hot Mix Asphalt – 9.5 mm (Polymer Modified)
Item 461.216	Hot Mix Asphalt (Shim)
Item 462.30	Ultra-Thin Bonded Wearing Course
Item 462.301	Polymer Modified Ultra-Thin Bonded Wearing Course

Price adjustments will be based on the variance in costs for the performance graded binder component of hot mix asphalt. They will be determined as follows:

The quantity of hot mix asphalt for each pay item will be multiplied by the performance graded binder percentages given in the table below times the difference in price between the base price and the period price of asphalt cement. Adjustments will be made upward or downward, as prices increase or decrease.

Item 403.102:	6.2%
Item 403.207:	5.2%
Item 403.2071:	5.2%
Item 403.2072:	5.8%
Item 403.208:	5.6%
Item 403.2081:	5.6%
Item 403.2084:	6.2%
Item 403.209:	6.2%
Item 403.210:	6.2%
Item 403.2101:	6.2%
Item 403.2104:	6.2%
Item 403.21041:	6.2%

Item 403.211: 6.2%
Item 403.2111: 6.2%
Item 403.212: 6.8%
Item 403.213: 5.6%
Item 403.2131: 5.6%
Item 403.2132: 6.2%
Item 403.301: 6.2%
Item 461.13: 6.7%
Item 461.210: 6.4%
Item 461.2101: 6.4%
Item 461.216: 6.7%
Item 462.30: 0.0021 tons/SY
Item 462.301: 0.0021 tons/SY

Hot Mix Asphalt: The quantity of hot mix asphalt will be determined from the quantity shown on the progress estimate for each pay period.

Base Price: The base price of performance graded binder to be used is the price per standard ton current with the price proposal submittal date listed in the Project Requirements. This price is determined by using the average New England Selling Price (Excluding the Connecticut market area), as listed in the Asphalt Weekly Monitor.

Period Price: The period price of performance graded binder will be determined by the Department by using the average New England Selling Price (Excluding the Connecticut market area), listed in the Asphalt Weekly Monitor current with the paving date. The maximum Period Price for paving after the adjusted Contract Completion Date will be the Period Price on the adjusted Contract Completion Date.

108.6 Right to Withhold Payments. The Department may withhold payments claimed by the Design-Builder on account of:

- A. Defective Work,
- B. Damages for Non-conforming Work,
- C. Failure to provide the Department the opportunity to inspect the Work,
- D. Damage to a third party,
- E. Claims filed or reasonable evidence indicating probable filing of claims,
- F. Failure of the Design-Builder to make payments to Subcontractors or for Materials or labor, or failure of Subcontractors to make payments to Sub-Subcontractors or for Materials or Labor
- G. Substantial evidence that the Project cannot be completed for the unpaid balance,

- H. Substantial evidence that the amount due the Department will exceed the unpaid balance,
- I. Regulatory non-compliance or enforcement,
- J. Failure to submit Closeout Documentation, and
- K. All other causes that the Department reasonably determines negatively affect the State's interest.

108.7 Taxes, Fees, Allowances, and Notices. The Design-Builder shall pay all taxes, charges, fees, and allowances and give all notices necessary and incidental to the due and lawful prosecution of the Work. Except as expressly provided otherwise in this Contract, all such taxes, charges, fees, and allowances are Incidental to the Contract.

Certain items of tangible personal property purchased by the Contractor for use in the Contract are exempt from Maine Sales Tax. *See* 36 MRSA §1760, subsections (2) and (61).

108.8 Damages for Non-Conforming Work. If the Design-Builder performs Non-conforming Work that causes the Department to incur costs including environmental costs or penalties, failure of the FHWA to share in certain costs, Departmental staff time related to the non-Conformity, penalties, or other damages of any nature whatsoever ("Damages"), then the Design-Builder shall be liable to the Department for such Damages. The Department, at its option, and without liability, may deduct such Damages from amounts otherwise due the Design-Builder and/or postpone disbursement of Progress Payments until the Non-Conforming Work is corrected.

108.9 Final Payment. Upon Final Acceptance, the Department will prepare a final Invoice. The Department may require the Design-Builder to provide information necessary to substantiate Items, including Statements itemizing Force Account Work. The Department will make final payment in the amount of the Work done, less all previous payments and all amounts to be retained or deducted under the provisions of the Contract. For a related provision, see Subsection 107.8.5 – Final Acceptance.

The Acceptance by the Design-Builder of the final payment, as evidenced by cashing of the final payment check, constitutes a release to the Department from all claims and liability under the Contract. Upon Final Acceptance, the Design-Builder is released from further obligation, except for warranty obligations provided for in this Contract.

108.10 General Payment Provisions.

108.10.1 Full Compensation. Payments to the Design-Builder shall be full compensation for furnishing all labor, Equipment, Materials, services, and Incidentals used to perform all Work under the Contract in a complete and acceptable manner, and for all risk, loss, damage, or expense of any kind arising from the nature or prosecution of the Work.

108.10.2 No Inflation Adjustments/Interest. No payments due the Design-Builder will be adjusted for inflation. No interest shall be due and payable on any payment due the Design-Builder, except that the Department will pay statutory interest on uncontested Final Payments

for any period of time that extends beyond forty (40) Days of the date of Receipt of all Conforming Closeout Documentation. The preceding exception expressly does not include payments regarding pending Issues, a Dispute or claim.

108.10.3 Amounts Due the Department. Unless expressly provided otherwise in this Contract, in cases where the Department may deduct sums from amounts otherwise due the Design-Builder and where the sums to be deducted are more than the funds otherwise due the Design-Builder, the Design-Builder shall remit all amounts due the Department within twenty (20) Days of receiving an Invoice from the Department. After such twenty (20) Days, the Design-Builder shall be in Default of this Contract and shall not be entitled to any additional cure period. Statutory interest shall accrue after forty (40) Days of Receipt of the Invoice.

SECTION 109 - CHANGES

Scope of Section. This Section contains general provisions related to changes in scope, time, and payment.

109.1 Scope Changes. The Department reserves the right to revise the Contract by either adding or deleting Work. Such revisions neither invalidate the Contract nor release the Surety. The Design-Builder and/or its Surety agree to perform or eliminate all such Work.

109.1.1 Added (Extra) Work. The Department will pay for Scope Changes by written Contract Modification in accordance with Subsections 109.5.1 – General and 109.5.2 – Basis of Payment. Any Delay related to Scope Changes will be analyzed in accordance with Section 109.3 – Adjustments for Delay.

109.1.2 Deleted Work. Upon notification, the Department is entitled to a credit for deleted Work by written Contract Modification in accordance with Subsections 109.5.1 – General and 109.5.2 – Basis of Payment.

109.1.3 Matters Not Constituting a Scope Change. The Design-Builder acknowledges and agrees that no adjustment to the Contract Price or Time is available except in circumstances expressly provided for in the Contract, that such adjustments shall be available only as provided in this Section 109 – Changes, and that the Design-Builder shall bear full responsibility for the costs of all other changes. Matters that are the Design-Builder's exclusive responsibility include the following:

- A. Errors, omissions, inconsistencies or other defects in the Design Documents, subject only to the right to a Change Modification for Necessary Basic Configuration Changes;
- B. Any design changes required by the Department as part of the process of reviewing the Design Documents for consistency with the requirements of the Contract Documents, except to the extent directly attributable to errors, omissions, inconsistencies or other defects in the Basic Configuration as provided herein;
- C. Defects or errors in the Design-Builder's schedule for performance of the Work or changes in the planned sequence of performance of the Work (except to the extent that changes in the planned sequence of performance of the Work arise from causes which otherwise give rise to a right to a Contract Modification).

109.1.4 Basic Configuration Changes. Upon the Design-Builder's fulfillment of all applicable requirements and limitations relating to Contract Modifications as specified in this Section 109 – Changes, if a Basic Configuration Change deemed necessary by the Department increases the cost and/or time to perform the Work, the Design-Builder shall be entitled to an increase in the Contract Price and/or an extension of the Contract Time, excluding any costs and/or time that could have been avoided by the Design-Builder; provided, however, the Design-Builder shall not be entitled to an increase in the Contract Price or an extension of the Contract Time in connection with any error, omission, inconsistency or other defect resulting from approved ATCs incorporated in the Contract Documents.

If a Necessary Basic Configuration Change decreases the cost and/or time to perform the Work, the Contract Price and/or Contract Time shall be decreased accordingly.

If a VECP results in a change to the Basic Configuration, any cost savings from such VECP shall be shared in accordance with Section 109.4 – Value Engineering.

The Design-Builder shall be responsible for any cost increases and/or delays resulting from changes in requirements and obligations of the Design-Builder relating to the Project due to inaccuracies in the Basic Configuration that do not necessitate a Material change in the Basic Configuration. In such event, no change in the Work shall be deemed to have occurred and no Contract Modification shall be issued for any such cost increases and/or delays.

109.2 Differing Site Conditions.

109.2.1 Definition. “Differing Site Conditions” are subsurface or latent physical conditions of a man-made nature that, at the time of submittal of the Proposal are:

- A. Materially different from conditions indicated in the RFP and Reference Documents;
- B. Not discoverable from a reasonable investigation and analysis of the site, including subsurface conditions, prior to submittal of Proposal;
- C. Materially different from conditions generally recognized as inherent in the nature of the Work in the area of the site of Work; and
- D. Actually unknown to the Design-Builder, and its Subcontractors.

Differing Site Conditions could include the following conditions if all the requirements set forth in the preceding paragraph are met: hazardous substances, archeological deposits, sunken man-made objects, or utilities. Differing Site Conditions expressly do not include conditions related to geology or hydrology, including bedrock, soils, groundwater, or other natural conditions.

109.2.2 Risk of Other Conditions. All costs, Work, Delays, or other damages related to or arising from site conditions that are not Differing Site Conditions are the sole risk and responsibility of the Design-Builder.

109.2.3 Notice and Procedural Requirements. If the Design-Builder discovers what it considers Differing Site Conditions that may cause adjustments to compensation, time, or other Contract requirements, the Design-Builder shall provide “Notice of Issue for Consideration” within forty-eight (48) hours of discovery and before doing any Work relating to such conditions as provided in Subsection 104.4.5 – Early Negotiation. The Design-Builder shall then comply with all other requirements of Subsection 104.4.5 – Early Negotiation and Section 111 – Resolution of Dispute. The Design-Builder will not be entitled to any change to compensation, time, or Work requirements without proper notice as specified herein. Failure to provide such notice or to otherwise comply with this Section 109.2 – Differing Site Conditions will constitute a waiver of all claims related to such conditions.

If the Department discovers what it considers Differing Site Conditions that may cause adjustments to compensation, time, or other Contract requirements, then the Department will provide the Design-Builder with written notice within 48 hours of discovery. If the Design-Builder disagrees with the Department’s finding of Differing Site Conditions or the related adjustments, then the Design-Builder shall provide “Notice of Issue for Consideration” within forty-eight (48) hours of receipt of the Department’s written notice and comply with the requirements of Section 104.4.5 – Early Negotiation and Section 111 – Resolution of Disputes.

109.2.4 Investigation/Adjustment. Upon notification by the Design-Builder or upon the Department’s own initiative, the Department will investigate the conditions. If the Department determines that Differing Site Conditions exist and that the Differing Site Conditions have caused an increase in the cost or time required for the performance of the Work, then the Design-Builder is entitled to an Equitable Adjustment for the additional costs of compensable items listed in Subsection 109.5.2 – Basis of Payment that are caused directly by the Differing Site Conditions. If the Department determines that Differing Site Conditions exist and that the Differing Site Conditions have caused a decrease in the cost or time required for the performance of the Work, then the Department is entitled to a credit in the amount of savings to compensable items listed in Subsection 109.5.2 – Basis of Payment, that are caused directly by the Differing Site Conditions. Delays caused by Differing Site Conditions will be considered in accordance with Section 109.3 – Adjustments for Delay.

109.3 Adjustments for Delay.

109.3.1 Definitions – Types of Delays. Delays are defined as follows and may be divided into more than one type depending upon cause.

- A. Excusable Delay. Except as expressly provided otherwise by this Contract, an “Excusable Delay” is a Delay to the Critical Path that is directly and solely caused by:
 - 1. A weather-related Event of such an unusually severe nature that a Federal Emergency Disaster is declared. The Design-Builder will be entitled to an adjustment of time under this Section only if the Project falls within the geographic boundaries prescribed under the disaster declaration, or
 - 2. A flooding event at the affected location of the Project that results in a Q25 headwater elevation, or greater, but less than a Q50 headwater elevation. Theoretical headwater elevations will be determined by the Department; actual headwater elevations will be determined by the Design-Builder and verified by the Department, or
 - 3. An Uncontrollable Event
- B. Compensable Delay. A “Compensable Delay” is a Delay to the Critical Path that is directly and solely caused by:

1. A weather-related Uncontrollable Event of such an unusually severe nature that a Federal Emergency Disaster is declared. The Design-Builder will only be entitled to an Equitable Adjustment if the Project falls within the geographic boundaries prescribed under the disaster declaration and receives project-specific emergency funds, and the Design-Builder can show proof that the Work was delayed by this weather event,
 2. An Uncontrollable Event caused by a third party (not Subcontractors) working on Project-related Work within the Project Limits if, and only if, the other third party offers the Department reimbursement for such Delay.
 3. A Department Suspension of Work due to uncontrollable events or for the convenience of the Department.
 4. Acts by the Department that are in violation of applicable laws or the Contract, or
 5. A flooding event at the affected location of the Project that results in a Q50 headwater elevation, or greater. Theoretical Q50 headwater elevations will be determined by the Department; actual headwater elevations will be determined by the Design-Builder and verified by the Department.
- C. Inexcusable Delay. “Inexcusable Delays” are all Delays that are not Excusable Delays or Compensable Delays.

109.3.2 Entitlement to Adjustments.

- A. Types of Adjustments. Provided the Design-Builder meets the requirements of Subsection 109.3.2.B below and complies with the notification, documentation, and procedural requirements set forth in the Contract, the Design-Builder is entitled to certain adjustments to the Contract depending upon the type of Delay.
1. If an Excusable Delay, the Design-Builder is entitled to an extension of time, but no additional compensation.
 2. If a Compensable Delay, the Design-Builder is entitled to an extension of time and an Equitable Adjustment as set forth in Section 109.5 – Equitable Adjustments to Compensation.
 3. If an Inexcusable Delay, the Design-Builder is entitled to neither an extension of time nor additional compensation.

- B. Requirements for Entitlement. To be entitled to any adjustments for an Excusable Delay or a Compensable Delay, the Design-Builder must demonstrate all of the following.
1. The Design-Builder consistently utilized its Schedule of Work to schedule, coordinate, and manage the Work as evidenced by documentation created as the Work progressed including Progress Meeting minutes,
 2. The Delay impacted the Critical Path of the Schedule of Work; and
 3. There are no concurrent Inexcusable Delays.
- C. Concurrent Delays. The Design-Builder is not entitled to a time extension for the period of time when Excusable and Inexcusable Delays are concurrent. The Design-Builder also is not entitled to either a time extension or an Equitable Adjustment for the period of time when Compensable and Inexcusable Delays are concurrent. In the event Compensable and Excusable Delays are concurrent, the Design-Builder is only entitled to time extension, not an Equitable Adjustment, for the period of time such Delays are concurrent.

109.3.3 Early Completion Date Delay Claims. For the purposes of this Subsection 109.3.3, a “Design-Builder’s Early Completion Date” means a Project Completion date shown on the Design-Builder’s initial Schedule of Work submitted in accordance with Subsection 107.4.2 – Schedule of Work Required that is earlier than the Contract’s specified Completion Date. The Department will not be liable for any claims or expenses related to the period of time between the Design-Builder’s Early Completion Date and the Contract’s specified Completion date, unless the Design-Builder demonstrates by clear and convincing evidence that:

- A. all requirements of Subsection 109.3.2.B – Requirements for Entitlement are met, and
- B. that the Design-Builder’s Early Completion Date was reasonable at the time of submitting its Proposal in light of the surrounding facts and circumstances, including the Design-Builder’s available resources, and the requirements of the Work.

109.3.4 Notice and Procedural Requirements. If the Design-Builder becomes aware of facts or circumstances that may cause a Delay for which the Design-Builder may seek adjustments to compensation, time, or other Contract requirements, the Design-Builder must notify the Resident of such “Issue” within forty-eight (48) hours and before doing any Work relating to such facts or circumstances as provided in Section 104 – General Rights and Responsibilities. Except as otherwise provided in this Section 109.3, the Design-Builder shall then comply with all other requirements of Section 111 – Resolution of Disputes. The Design-Builder will not be entitled to any change to compensation, time, or Work requirements without proper and timely notice. Failure to provide such notice constitutes a waiver of all claims related to such conditions.

109.3.5 Documenting the Delay and Request for Adjustments.

- A. Weekly Reports During Delay. To be entitled to any adjustments for Delay, the Design-Builder must keep records as provided in Subsection 111.1.6 – Design-Builder’s Obligation to Keep Records. Further, the Design-Builder must submit weekly written reports containing the following information.
1. Number of Days of impact to the Critical Path.
 2. A summary of all operations that have been Delayed, or will be Delayed on the impact of the Design-Builder’s Critical Path.
 3. A narrative describing how the cause of the Delay meets the definition of “Excusable Delay” or “Compensable Delay” contained in Subsection 109.3.1.A or 109.3.1.B.
 4. Itemization of all extra costs being incurred, including:
 - (a) how the extra costs relate to the Delay,
 - (b) the identification of all non-salaried Project employees for whom costs are being compiled, and
 - (c) a summary of time charges for Equipment, identified by the manufacturer’s number for which costs are being compiled.
- B. Request and Report After Completion. Within ten (10) Days of Completion of the phase of Work that the Design-Builder claims has been Delayed, the Design-Builder shall submit a written report to the Department that contains the following information:
1. a description of the operations that were Delayed and the documentation and narrative of how the cause for the Delay meets the definition of “Excusable Delay” or “Compensable Delay” contained in Subsections 109.3.1.A or 109.3.1.B, including all reports prepared for the Design-Builder by consultants, if used,
 2. an as-built chart showing when Work operations were actually performed,
 3. a graphic depiction of how the operations were Delayed and the impact on the Critical Path; and
 4. an item-by-item request for additional time and compensation including measurement and explanation.

The Department may require that all costs shown in the report be certified by an accountant, and that the Design-Builder provide all other information described in Subsection 111.2.2 – Detailed Notice of Dispute.

109.3.6 Decision by Program Manager. Within twenty (20) Days of receiving all information described in Subsection 109.3.5.B – Request and Report After Completion, the Department will Deliver a written decision on the request made to the Design-Builder. Failure to provide a decision within said twenty (20) Day period shall be considered a denial of the Design-Builder’s request, unless the parties mutually agree to an extension of time for such decision.

109.3.7 Additional Consideration By Department. If the Design-Builder wants additional consideration, the Design-Builder shall Deliver a “Notice of Unresolved Dispute” to the Department’s appropriate Bureau Director within ten (10) Days of Receipt of the Program Manager’s decision. Such Notice shall comply with Section 111 – Resolution of Disputes. The parties must then comply with all other Dispute resolution provisions of this Contract, beginning with Section 111.3 – Negotiation by Management.

109.4 Value Engineering.

109.4.1 Overview – General Requirements. A Value Engineering Change Proposal (VECP) is a proposal made by a Design-Builder after Contract Execution that is intended to produce cost savings without impairing essential characteristics of the Project including function, serviceability, safety, durability, maintainability, and aesthetics, all as determined by the Department.

A VECP shall contain proven features that have been used under similar conditions. A proposal is not a VECP if equivalent options are already provided in the Contract.

For a VECP to be allowed and implemented, it must be approved by the Department. Unless otherwise agreed in writing, the Design-Builder and the Department will equally share the Net Savings generated by the VECP as provided in Subsection 109.4.4.C – Contract Modification – Amount of Payment.

Unless mutually agreed otherwise, the VECP approval process will occur in three steps:

- A. Conceptual VECP submission and review;
- B. Detailed VECP submission and evaluation; and, if approved,
- C. Contract Modification, including the amount of payment due to the Design-Builder and credit due to the Department.

When the nature and scope of a VECP warrants, the parties may agree to truncate the VECP approval process.

109.4.2 Conceptual VECP.

- A. Submittal. To propose a VECP, the Design-Builder must submit a written “Conceptual VECP” to the Resident. The Conceptual VECP is not a formal and complete submittal based upon detailed technical analysis, but instead relays a conceptual idea based upon the Design-Builder’s knowledge and experience. The Conceptual VECP shall include the following information based upon the Design-Builder’s best knowledge and belief.
1. General Description. A narrative that describes the proposed change in concept and includes the basic differences between the existing Contract and the proposed change.
 2. Advantages and Disadvantages. A listing and brief description of the comparative advantages and disadvantages of the VECP including effects on function, serviceability, safety, durability, maintainability, aesthetics, and any other factors significantly altered by the VECP.
 3. Identification of Prior Similar VECPs. If the VECP was submitted previously on another Departmental Project, the date, WIN, and the action taken by the Department shall be indicated.
 4. Known Use or Testing. A description of any previous use or testing of the concept(s) included in the VECP that is known to the Design-Builder, including the tester, the conditions, and the results.
 5. Estimate of Net Savings. An estimate of the Net Savings as defined in Subsection 109.4.4.C – Contract Modification – Amount of Payment below.
 6. Estimate of Development Costs. A scope of Work and related cost estimate to develop and submit a Detailed VECP and, if desired by the Design-Builder, a request for the Department to share such costs.
 7. Savings and Schedule Impacts. An estimate of the time necessary for the Design-Builder to submit a Detailed VECP. Such estimate must specify the date by which the Department must approve the VECP to obtain the maximum cost reduction, and the latest date by which the Department must approve the VECP for the Design-Builder to avoid significant impacts on the estimated Net Savings or the Design-Builder’s Schedule of Work. If the Department determines that the time for response is insufficient for review, the Design-Builder will be so notified.
- B. Conceptual Review and Response. The Department will use its best efforts to review a Conforming Conceptual VECP and respond to the Design-

Builder within ten (10) Days of Receipt. The Department may, in its sole discretion:

1. invite the Design-Builder to submit a Detailed VECP,
2. reject the Conceptual VECP for reasons that will be described briefly, or
3. request additional information.

The Department may also, in its sole discretion, agree to partially reimburse the Design-Builder for the costs to develop and submit a Detailed VECP. Except under extraordinary circumstances, such reimbursement will range up to fifty percent (50%) of such development costs to a maximum stated upset amount.

109.4.3 Detailed VECP.

A. Submittal. If the Department invites the Design-Builder to submit a Detailed VECP, it shall contain the following information that is sufficient in detail to clearly define and explain the proposed change(s).

1. Updated and more complete information regarding items included in the Conceptual VECP including the general description of the VECP, advantages and disadvantages, use or testing elsewhere, a detailed computation of the estimated Net Savings to be generated as defined in Subsection 109.4.4.C – Contract Modification – Amount of Payment, actual VECP development costs to date, and estimated savings and schedule impacts including approval date(s) required. If the Department determines that the time for response is insufficient for review, the Design-Builder will be notified Promptly.
2. A complete set of Plans and Specifications showing the proposed revisions relative to the original Contract features and requirements. All VECPs that require Engineering design, computations, or analysis shall be prepared under the responsible charge of and sealed by a Professional Engineer licensed in the State of Maine.

B. Evaluation.

1. Additional Information. The Department may request any additional information that it determines is necessary to properly evaluate the VECP. Where design changes are proposed, such additional information may include results of field investigations and surveys, design computations, Specifications, and field change sheets. The Design-Builder will Promptly provide any such requested information.

2. Cost Verification. The Department may require the Design-Builder to provide additional information to verify the Design-Builder's cost analyses.
- C. Response. The Department will evaluate a Conforming Detailed VECP and provide the Design-Builder with a written response within ten (10) Days of Receipt of all of the information it has determined is necessary to properly evaluate the VECP. Such response will include a brief description of the Department's reason(s) for its decision. The Department, in its sole discretion, will either approve the Detailed VECP, approve it with conditions, or reject it. The Department may base its decision on any reason that is in the best interest of the Department including:
1. unacceptable impact on the function, serviceability, safety, durability, maintainability, or aesthetics of the Project;
 2. insufficient testing or use of the VECP concepts elsewhere;
 3. insufficient justification of cost savings;
 4. unacceptable schedule impacts;
 5. insufficient review time; or
 6. differing Engineering judgment.

The Design-Builder may request that the Department reconsider certain portions of the decision. If requested, the Department will reconsider its decision and then issue a final decision, which is final and not subject to review or appeal.

- D. Termination of VECP Process. If the Department rejects the VECP or the Design-Builder does not desire to proceed with the VECP as approved by the Department, the VECP process will terminate and the Department will reimburse the Design-Builder for one hundred (100) percent of all VECP development costs incurred by the Design-Builder to date.

109.4.4 Contract Modification – Amount of Payment. If the Department approves the VECP, or if the Department approves it with conditions and if the Design-Builder wants to proceed, a Contract Modification will be executed by the parties. In addition to the requirements of Section 109.6 – Contract Modification, the VECP will set forth the credit due to the Department for the difference between the cost of performing the Work, as specified originally in the Contract, and the payment due to the Design-Builder for the revised work, which will include the following amounts:

- A. The cost of performing the Work as revised by the VECP at agreed upon Unit or Lump Sum prices.

- B. The VECP development costs that the Department agreed to reimburse the Design-Builder as provided in Subsection 109.4.2.B – Conceptual Review and Response, if any.
- C. Fifty percent (50%) of the Net Savings (NS) generated by the VECP as determined by the Department, calculated as follows:

$$NS = EGS - DBUDC - DVEC$$

Where:

NS = Net Savings generated by the VECP

EGS = Estimated Gross Savings is an agreed upon difference between the cost of performing the Work as originally specified in the Contract and the cost of performing the Work as revised by the VECP.

DBUDC = Design-Builder’s Unreimbursed Development Costs related to the preparation of the Detailed VECP including costs of the Design-Builder’s design subconsultants and subcontractors, but excluding all such costs paid by the Department under Subsection 109.4.4.B above.

DVEC = Department’s VE Costs related to review, approval, and implementation of the VECP including design costs, field inspection, and the value of any Department provided property.

The Contract Modification shall also set forth any adjustments to Contract Time related to the Work as revised by the VECP, if any.

109.4.5 Subsequent Payment Adjustments. Upon Completion of the portion of the Work revised by the VECP, the Department, on its own initiative or upon request by the Design-Builder, may review the actual net savings realized by the VECP. The Design-Builder will be afforded an opportunity to review and comment on such a review. If the actual net savings were greater than set forth in the Contract Modification, the increased savings will be shared equally by the parties. If the net savings were less than set forth in the Contract Modification, the reduction in savings will be borne equally by the parties by a reduction of amounts otherwise due the Design-Builder.

109.4.6 General Conditions Regarding VECPs.

- A. VECPs will remain the property of the Design-Builder, provided that the Department will have the unrestricted right to use any approved VECP, or any VECP in which the Department has reimbursed the Design-Builder for any portion of the development costs, on other Department Projects without notice, cost, or liability to the Design-Builder.
- B. Only the Design-Builder may submit VECPs. The Design-Builder shall review, be responsible for, and submit all proposals initiated by the Design-Builder’s Subcontractors.

- C. The Design-Builder shall not anticipate Departmental approval of a VECP before submitting its Proposal or otherwise before approval of a Detailed VECP. The Design-Builder is responsible for all Delays caused by the VECP that were not negotiated in the Contract Modification.
- D. If a VECP is rejected, the Design-Builder shall perform the Work in accordance with the Contract.
- E. Except as otherwise provided in this Section, the Design-Builder shall have no claim against the Department for additional compensation or time resulting from the delayed review or rejection of a VECP, including but not limited to, development costs, loss of anticipated profits, and increased Material or labor costs.
- F. Cost sharing applies only to the Contract for which the VECP was submitted.
- G. Because the Department has no obligation to change the terms of the original Contract, all VECP decisions by the Department are final and are not subject to the Dispute resolution provisions provided in this Contract or otherwise available at law.

109.5 Equitable Adjustments to Compensation and Time.

109.5.1 General. Equitable Adjustment means an adjustment to compensation due to a change in the nature or scope of Work as defined in this Section 109 – Changes.

This Section 109.5 – Equitable Adjustments to Compensation and Time applies to all changes to the nature or scope of the Work, excepting payment for Value Engineering Change Proposals, which is governed by Section 109.4 – Value Engineering.

109.5.2 Basis of Payment. Equitable Adjustments will be established by mutual agreement based upon Unit or Lump Sum prices. These agreed upon Unit or Lump Sum prices will be full compensation and no additional overhead, profit, mark-ups, or fees will be allowed. If Agreement cannot be reached, the Design-Builder shall accept payment on a Force Account basis as provided in Subsection 109.5.4 – Force Account Work, as full and complete compensation for all Work relating to the Equitable Adjustment.

109.5.3 Non-Compensable Items. The Design-Builder is not entitled to compensation or reimbursement for any other items including the following items:

- A. Profit or home office overhead in excess of fifteen percent (15%),
- B. Lost profits or lost opportunity costs,
- C. Labor inefficiencies,
- D. Consequential damages, including but not limited to loss of bonding capacity, loss of Bidding opportunities, and insolvency,

- E. Indirect costs or expenses of any nature,
- F. Dispute resolution costs of any nature including attorneys fees, claims consultant fees, expert witness fees, claims preparation expenses, and costs related to DRB proceedings, mediation, arbitration, or litigation, and
- G. Interest.

109.5.4 Force Account Work. Compensation for Force Account Work will be computed according to this Section.

- A. Labor. The Design-Builder will receive the actual hourly wages paid to Workers actually engaged in the changed Work and the foreman in direct charge of the changed Work as determined from certified payrolls, plus ninety percent (90%) of the sum thereof for all fringe benefits, payroll taxes, overhead, and profit.
- B. Materials. For Materials incorporated in the permanent Work, the Design-Builder will receive the Actual Cost of Materials including freight and Delivery charges (but excluding any sale or use tax) plus a single fifteen percent (15%) markup. For all Materials not incorporated in the permanent Work, the Design-Builder will receive the difference of actual value of such Material at the time of its use less the fair salvage value of Material when released, plus fifteen percent (15%) of said difference. There shall be no markup on markups.
- C. Equipment. For all authorized usage of power-operated machinery, trucks, or other Equipment, the Design-Builder will receive the rental rates for the actual time to the nearest one quarter (1/4) hour that such Equipment is in operation on the Work. Time spent moving Equipment within the Project Limits and any approved idle time may be measured for payment when authorized. Time spent servicing, maintaining, and changing attachments will not be paid for. The rental rates shall include the cost of all fuel oil, lubrication, supplies, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, small tools, and all other Incidentals.

The maximum Hourly Equipment rental rates (R) will be determined using the most current Blue Book rates and the following formula:

$$R = A \times B \times E + C + D$$

Where:

A = Blue Book monthly rate divided by 176

B = Blue Book regional adjustment factor for Maine

C = Blue Book estimated operating costs per hour

D = Operator's hourly payroll rate plus ninety percent (90%)

E = Factor from the Rate Adjustment Table for the year the machine was made

When the Design-Builder's Equipment is ordered to be available for Force Account Work, but is idle for reasons not the fault of the Design-Builder, standby time will be paid at seventy percent (70%) of the hourly Equipment rental rate excluding all operating costs.

For each piece of Equipment, the Design-Builder shall provide the following information: the manufacturer's name, Equipment type, year of manufacture, model number, type of fuel used, horsepower rating, attachments required, together with its size or capacity and any further information necessary to ascertain the proper rate. The Design-Builder shall also provide a photocopy of the appropriate pages from the Blue Book that were used to arrive at the rates and prepare a chart that fully shows all the details of the Equipment costs.

Unless otherwise specified, manufacturer's ratings and manufacturer-approved modifications will be used to classify Equipment for the determination of applicable rental rates. A unit of at least the minimum rating recommended by the manufacturer shall power equipment that has no direct power unit.

If the Department specifies Equipment not listed in the above publication, the Department will establish a suitable rate for such Equipment. If requested by the Department, the Design-Builder will produce cost data to assist the Department in the establishment of such rental rate, including all records that are relevant to the Actual Costs including rental Receipts, acquisition costs, financing documents, lease Agreements, and maintenance and operational costs records.

Equipment leased by the Design-Builder for Force Account Work and actually used on the Project will be paid for at the actual invoice amount plus ten percent (10%) markup for administrative costs.

- D. Superintendence. No part of the salary or expense of anyone connected with the Design-Builder above the grade of foreman or having general supervision of the Work will be included in the labor items as specified above, except when the Design-Builder's entire on-site Workforce is occupied with Force Account Work, in which case, the salaries of the Superintendent may be included in the labor item specified above when the nature of the Work is such that their services are required, as determined by the Department.
- E. Documentation Requirements. All Statements shall be accompanied and supported by Receipted Invoices for all Materials used and transportation charges. If Materials used on the Force Account Work are not specifically purchased for such Work but are taken from the Design-Builder's stock, then instead of Invoices, the Statements shall contain or be accompanied by an affidavit of the Design-Builder certifying that such Materials were taken from stock, that the quantity claimed was actually used, and that the price and transportation claimed represent the Actual Cost to the Design-Builder, excluding storage costs.

No payment will be made for Work performed on a Force Account basis until the Design-Builder has furnished duplicate itemized Statements of the cost of such Force Account Work detailed to the following:

1. Name, classification, date, daily hours, total hours, rate, and amount for each foreman and laborer.
2. Designation, dates, daily hours, total hours, rental rate, and amount for each unit of Equipment.
3. Quantities of Materials, prices, and amounts.
4. Transportation charges on Materials.

F. Subcontractor Quoted Work. When accomplishing Force Account Work that utilizes Subcontractors, the Design-Builder will be allowed a maximum markup of five percent (5%) for profit and overhead on the Subcontractor's portion of the Force Account Work.

109.6 Contract Modification. All changes to the Contract that affect compensation, time, or quality must be made by written Contract Modification. The Contract Modification will describe the underlying issue that resulted in the Contract Modification and will specify adjustments to compensation, time, or other Work requirements, as applicable. If adjustments to compensation or time are not shown on the face of the Contract Modification, then there are no such adjustments.

All Contract Modifications must be signed by the Design-Builder. By signing a Contract Modification, the Design-Builder agrees to all the terms thereof and waives any and all claims for additional compensation, time, or other Work requirement adjustments relating to the issue that is the subject of the Contract Modification. All Contract Modifications are to be noted in Progress Meeting minutes.

SECTION 110 - INDEMNIFICATION, BONDING, AND INSURANCE

Scope of Section. This Section contains general requirements for indemnification, bonding, and insurance by the Design-Builder.

110.1 Indemnification. The Design-Builder agrees to indemnify, defend, and hold harmless the Department and its officers, directors, employees, agents and consultants from and against all claims, actions, torts, costs, losses, and damages for bodily injury (including sickness, disease, or death) and property damage arising out of or relating to this Contract or the performance of Work by the Design-Builder, its Subcontractors, subconsultants, Engineers, suppliers, any individuals or entities directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, excepting only claims directly and solely caused by the negligence of the Department. Damages covered include, but are not limited to, all Dispute resolution costs including court costs, attorney's fees, and the fees of Engineers and consultants, arbitrators, and other professionals related to Dispute defense and preparation.

This indemnity obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Design-Builder or any Subcontractor, subconsultant, Engineer, supplier, or other individual or entity under Workers' Compensation acts, disability benefit acts, or other employee benefit acts.

110.2 Bonding.

110.2.1 Bonds. The Design-Builder shall provide signed, valid, and enforceable Performance and Payment Bonds complying with the Contract. The Department may also require Warranty and Maintenance Bonds for specific items as specified in the Project Requirements. For a related provision, see Section 103.4 – Award of Contract.

The Design-Builder shall procure bonds from a company organized and operating in the United States, licensed or approved to do business in the State of Maine by the State of Maine Department of Professional and Financial Regulation, Bureau of Insurance, and listed on the latest Federal Department of the Treasury listing for “Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies”.

The bonds shall each be in the full Contract amount, payable to the “Treasurer – State of Maine,” and on the Department's forms, on exact copies thereof, or on forms that do not contain any significant variations from the Department's forms as solely determined by the Department.

By issuing a bond, the Surety agrees to be bound by all terms of the Contract, including those related to payment, time of performance, quality, warranties, and the Department's self-help remedy provided in Section 112.1 – Default, to the same extent as if all terms of the Contract are contained in the bond(s).

Regarding claims related to any obligations covered by these bonds, the Surety shall provide, within forty (40) Days of Receipt of written notice thereof, full payment of the entire claim or written notice of all bases upon which it is denying or contesting payment. Failure of the Surety to provide such notice within the forty (40) Day period constitutes the Surety's waiver of any right

to deny or contest payment and the Surety's acknowledgment that the claim is valid and undisputed.

If the Surety becomes financially insolvent, ceases to be licensed or approved to do business in the State of Maine, or stops operating in the United States, the Design-Builder shall file new bonds complying with this Section within ten (10) Days of the date the Design-Builder is notified of such change.

For a related provision, see Subsection 106.3.9 – Other Warranty Provisions.

110.2.2 Bond for Use of Municipal Roads. A bond for use of municipal Roads may be required as provided in Section 105.5 – Hauling of Materials and Equipment.

110.2.3 Bonding for Landscape Maintenance Period. The Design-Builder shall provide a signed, valid, and enforceable Landscape Warranty Bond if Special Provision 621 is specified in the Project Requirements. The Landscape Warranty Bond shall be presented to the Resident at the time of Physical Work Complete. Payment for the Landscape Warranty Bond shall be incidental to the Landscape Items. The bond shall be in the full amount for all Pay Items for work pursuant to Section 621 – Landscape, payable to the “Treasurer – State of Maine,” and on the Department's forms, on exact copies thereof, or on forms that do not contain any significant variations from the Department's forms as solely determined by the Department.

The Design-Builder shall pay all premiums and take all other actions necessary to keep said bond in effect for the duration of the Landscape Establishment Period described in the Project Requirements. If the Surety becomes financially insolvent, ceases to be licensed or approved to do business in the State of Maine, or stops operating in the United States, the Design-Builder shall file new bonds complying with this Section within ten (10) Days of the date the Design-Builder is notified or becomes aware of such change.

All Bonds shall be procured from a company organized and operating in the United States, licensed or approved to do business in the State of Maine by the State of Maine Department of Business Regulation, Bureau of Insurance, and listed on the latest Federal Department of the Treasury listing for “Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies.”

By issuing a bond, the Surety agrees to be bound by all terms of the Contract, including those related to payment, time for performance, quality, warranties, and the Department's self-help remedy provided in Section 112.1 – Default to the same extent as if all terms of the Contract are contained in the bond(s).

Regarding claims related to any obligations covered by the bond, the Surety shall provide, within forty (40) Days of Receipt of written notice thereof, full payment of the entire claim or written notice of all bases upon which it is denying or contesting payment. Failure of the Surety to provide such notice within the forty (40) Day period constitutes the Surety's waiver of any right to deny or contest payment and the Surety's acknowledgment that the claim is valid and undisputed.

110.3 Insurance. The Design-Builder shall provide signed, valid, and enforceable certificate(s) of insurance complying with this Section. All insurance must be procured from insurance companies

licensed or approved to do business in the State of Maine by the State of Maine, Department of Business Regulation, Bureau of Insurance. The Design-Builder shall pay all premiums and take all other actions necessary to keep required insurance(s) in effect for the duration of the Contract obligations, excluding warranty obligations.

110.3.1 Workers' Compensation. For all operations performed by the Design-Builder and any Subcontractor, the Design-Builder and each Subcontractor shall carry Workers' Compensation Insurance or shall qualify as a self-insurer with the State of Maine Workers' Compensation Board in accordance with the requirements of the laws of the State of Maine. If maritime exposures exist, coverage shall include United States Long Shore and Harbor Workers coverage.

110.3.2 Commercial General Liability. With respect to all operations performed by the Design-Builder and any Subcontractors, the Design-Builder and any Subcontractors shall carry commercial general liability insurance in an amount not less than \$1,000,000 per occurrence and \$2,000,000 in the Aggregate. The coverage must include products, completed operations, and Contractual liability coverage, and ISO (Insurance Services Office) form #CG25031185 or equivalent. The Contractual liability insurance shall cover the Design-Builder's obligations to indemnify the Department as provided in this Contract including Section 110.1 – Indemnification. The coverage shall also include protection against damage claims due to use of explosives, collapse, and underground coverage. No endorsement excluding damage cause by subsidence, earth movement, and/or earth pressure shall be permitted.

When the work to be performed entails the use of barges, tug boats, work boats, supply boats, or other watercraft, Protection and Indemnity coverage for such work shall be proved at the limits called for under Commercial General Liability insurance.

110.3.3 Automobile Liability. The Design-Builder, Subcontractors, and subconsultants shall carry Automobile Liability Insurance covering the operation of all motor vehicles including any that are rented, leased, borrowed, or otherwise used in connection with the Project. The minimum limit of liability under this Section shall be \$1,000,000 per occurrence.

110.3.4 Professional Liability. The Design-Builder and Subconsultants who engage in design Work, preliminary Engineering Work, and environmental consulting Work for the Department shall maintain a Professional Liability policy for errors and omissions that provides a minimum limit of liability of \$1,000,000 per claim and annual aggregate. "Design Work" includes the design of temporary Structures and all other Work that requires design computations. This policy shall cover "Wrongful Acts," meaning negligent acts, errors or omissions by the Design-Builder and Subconsultants, or any entity for whom the Design-Builder is legally liable, arising out of the performance of, or failure to perform, professional services. The Department reserves the right to adjust liability coverage on a project-by project basis as it deems appropriate.

110.3.5 Owner's and Design-Builder's Protective Liability. If required by the Project Requirements, the Design-Builder shall carry an Owner's and Contractor's Protective (OCP) Policy covering all operations performed by the Design-Builder and any Subcontractor, in an

amount not less than \$1,000,000 per occurrence and \$2,000,000 in the Aggregate, naming the Department as the sole insured party under the policy.

110.3.6 Builders Risk. Unless required by the Project Requirements, the Department does not require the Design-Builder to carry Builders Risk Insurance. However, the Design-Builder is advised of its risks for damage to the Work as provided in Subsection 104.3.10 – Responsibility for Damage to the Work. The Design-Builder is responsible for managing and insuring these risks as it deems appropriate.

110.3.7 Pollution Liability. If required by the Project Requirements, the Design-Builder shall carry Pollution Liability insurance to cover the risk of sudden or accidental discharge of pollutants during the prosecution of the Work. The limits of liability for this coverage shall be in the amount of \$1,000,000 per occurrence and \$2,000,000 in the aggregate. Regardless of whether such insurance is carried by the Design-Builder, the Design-Builder is responsible for managing these risks as it deems appropriate.

110.3.8 Railroad Protective Liability. When working adjacent to a railroad, the Design-Builder and Subcontractors shall carry Railroad Protective Liability Insurance as required by the Railroad.

110.3.9 Administrative & General Provisions.

- A. Additional Insured. Each insurance policy, with the exception of Workers' Compensation, Professional Liability insurance, and Automobile Liability, shall list the Department of Transportation as an additional insured.
- B. Defense of Claims. Each insurance policy shall include a provision requiring the carrier to investigate, defend, indemnify, and hold harmless all named insureds against any and all claims for death, bodily injury, or property damage, even if groundless. The Design-Builder's insurer shall name the Department as a released party ("Releasee") on any release or settlement agreement for settled claims.
- C. Primary Insurance. The insurance coverage provided by the Design-Builder shall be primary insurance with respect to the State, its officers, agents, and employees. Any insurance or self-insurance maintained by the State for its officers, agents, and employees is in excess of the Agent's insurance and shall not contribute with it.
- D. Reporting. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the State, its officers, agents, and employees.
- E. Separate Application. The insurance provided by the Design-Builder shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

Nothing in this document constitutes a waiver of any defense, immunity or limitation of liability that may be available to the Department or its officers, agents, or employees under the Maine Tort Claims Act (14 MRSA § 8101, et seq.), and shall not constitute a waiver of other privileges or immunities that may be available to the Department.

SECTION 111 - RESOLUTION OF DISPUTES

Scope of Section. This Section contains provisions for resolving Disputes early, efficiently, fairly, and as close to the Project level as possible.

111.1 General.

111.1.1 Definitions. “Dispute” is defined in Section 101.2 – Definitions. An “Issue,” as used in Sections 111.1 through 111.3 below, is a matter that may give rise to a Dispute, but has not yet been negotiated as provided in Subsection 104.4.5 – Early Negotiation.

111.1.2 Escalation Process. To resolve Issues or Disputes, the Design-Builder and the Department may mutually agree in writing at any time to any form of Dispute resolution including mediation, facilitated negotiation, neutral case evaluation, arbitration, or litigation.

In the absence of such written agreement, the parties must pursue resolution of Issues or Disputes that arise after Contract Execution as follows:

- A. first through negotiation at the Project level as provided in Subsections 104.4.5 – Early Negotiation and 111.2 – Project Level Negotiation;
- B. next through negotiation by management as provided in Section 111.3 - Negotiation by Management;
- C. next, if the parties consent, through a Dispute Review Board as provided in Section 111.4 – Dispute Review Board; and
- D. next through the Commissioner as set forth in Section 111.5 – Appeal to Commissioner.

If the Dispute remains unresolved after final agency action by the Commissioner, then, and only then, may a party seek judicial review of a Dispute as provided in Section 111.6 – Judicial Review.

111.1.3 Relationship to Partnering. Partnering, including the establishment of a partnership charter, does not in any way waive, alter, or otherwise affect any provision of the Contract including those requiring notice and all other provisions governing the resolution of Issues or Disputes. For a related provision, see Subsection 104.4.1 – Partnering.

111.1.4 Mandatory Notice. The Design-Builder shall comply with all notice provisions of this Contract relating to Issues or Disputes including those contained in Subsections 104.3.3 – Duty to Notify If Ambiguities Discovered; 104.4.5.A – Early Negotiation, Notice Required; 109.2.3 – Differing Site Conditions, Notice and Procedural Requirements; 109.3.4 – Adjustments for Delay, Notice and Procedural Requirements; and Section 111 – Resolution of Disputes. In order to promote the purposes of this Section, all notice provisions are mandatory and are to be strictly construed. Failure to provide Conforming notice constitutes waiver by the Design-Builder of any and all claims to additional compensation, time, or modification of Contract requirements related to the Issue or Dispute. Such waiver of claims shall not be affected by the Department’s willingness to enter into discussions or negotiations regarding Issues or Disputes for which the Design-Builder failed to provide proper notice.

111.1.5 Work to Proceed Despite Issue or Dispute. Regardless of the status or disposition of any Issue or Dispute, the Design-Builder and the Department must perform their Contractual responsibilities Promptly and diligently. Unless expressly directed otherwise by the Department, the Design-Builder shall proceed without Delay to perform the Work or to Conform to the decision or Order of the Department.

111.1.6 Design-Builder's Obligation to Keep Records. Throughout the course of any Issue or Dispute, the Design-Builder shall keep daily records, including supporting documentation, of extra costs and time related to the Issue or Dispute. Such records shall include all non-salaried labor, Material costs, Equipment expenses, and location for all operations that are affected by the Issue or Dispute. The Design-Builder will not be entitled to any change to compensation, time, or Work requirements without such records. The Design-Builder shall permit the Department daily access to and shall provide copies of these and any other records needed for evaluating the Dispute. The Design-Builder shall retain those records for the duration of the Dispute and as provided in Subsection 104.3.6 – Project Records.

111.1.7 Dispute Resolution Time Extensions. All deadlines provided in this Section may be extended only by mutual written consent signed by both parties.

111.1.8 Commissioner Communications Before Appeal. Because the Commissioner may hear an Appeal and render final agency action under Section 111.5 – Appeal to Commissioner, the following persons shall not communicate with the Commissioner regarding the substance of a Dispute, except upon notice and opportunity for all parties to participate:

- A. the Design-Builder or any agent for the Design-Builder and
- B. Department staff, counsel, or consultants who are directly participating in Dispute resolution processes in an advocate capacity.

The preceding sentence does not prohibit the Commissioner from communicating with, or having the aid or advice of all other Department staff, counsel, or consultants. This Section does not apply where the Commissioner has delegated hearing the Appeal to other Department personnel, in which case this Section shall apply instead to the Commissioner's delegate.

111.1.9 Contract Modification Required. All changes to the Contract that regard Issues or Disputes and that affect compensation, time, quality, or other Contract requirements must be made by written Contract Modification as provided by Section 109.6 – Contract Modification.

111.2 Project Level Negotiation.

111.2.1 Early Negotiation. The parties must first comply with all requirements of Subsection 104.4.5 – Early Negotiation.

111.2.2 Detailed Notice of Dispute. If Early Negotiation fails to resolve the Issue within forty-five (45) Days of the date of Receipt of the written Notice of Issue for Consideration Conforming to Subsection 104.4.5.A – Early Negotiation – Notice Required, and if the Design-Builder desires additional consideration by the Department, then the Design-Builder must Deliver a written Detailed Notice of Dispute to the Program Manager within ten (10) Days of

the expiration of said forty-five (45) Day period. At a minimum, the Detailed Notice of Dispute shall include all of the following information in sufficient detail to allow reasoned analysis as determined by the Program Manager:

- A. A description of the background of Dispute including the date(s) the Issue or Dispute first arose and the date the Design-Builder provided the Department Project Manager or Resident with the “Notice of Issue for Consideration” Conforming to Subsection 104.4.5.A – Early Negotiation;
- B. All Contract provisions that are relevant to the Dispute;
- C. All facts relevant to the Dispute including all non-Contract Documents and all non-documentary facts including identification of all persons with knowledge of relevant facts and a synopsis of their testimony;
- D. The Design-Builder’s position as to why the Contract and facts demonstrate that the Design-Builder is entitled to additional compensation and/or time;
- E. The estimated dollar cost, if any, of the Disputed Work and how the estimate was determined;
- F. If the Design-Builder is asserting an Excusable or Compensable Delay occurred, an analysis of the progress schedule showing the impact on the Critical Path; and
- G. A specific request for additional compensation or time, or other change to provisions of the Contract.

111.2.3 Decision by Program Manager. Within twenty (20) Days of receiving a Detailed Notice of Dispute Conforming to Subsection 111.2.2 – Detailed Notice of Dispute, the Program Manager will Deliver a written decision to the Design-Builder on the specific request made.

111.3 Negotiation by Management.

111.3.1 Notice of Unresolved Dispute. If the Design-Builder desires additional consideration, the Design-Builder shall Deliver a written “Notice of Unresolved Dispute” to the Department’s appropriate Bureau Director (hereafter “Director” in this Section 111 – Resolution of Disputes within ten (10) Days of receiving the Program Manager’s decision provided for in Subsection 111.2.3 – Decision by Program Manager.

At a minimum, the Notice of Unresolved Dispute must include the following information in sufficient detail to allow reasoned analysis as determined by the Director or the director’s designee(s):

- A. all documentation submitted to the Resident for Project-level negotiation,
- B. all decisions rendered by the Program Manager or equivalent Bureau level manager, and

C. all additional information the Design-Builder desires the Department to consider.

111.3.2 Additional Documentation. Within ten (10) Days of the receiving a Notice of Unresolved Dispute Conforming to Subsection 111.3.1, the Director or the Director's designee(s) may require the Design-Builder to provide Additional Documentation. If required, the Design-Builder shall completely and accurately supply all requested information in writing within fifteen (15) Days of receiving said request. Failure to provide all Additional Documentation constitutes a waiver of all claims for additional compensation or time.

Additional Documentation may include the following:

- A. The date(s) on which facts arose which gave rise to the Issue or Dispute.
- B. The dates the Department Received the "Notice of Issue for Consideration" Conforming to Subsection 104.4.5.A – Early Negotiations – Notice Required and the "Detailed Notice of Dispute" Conforming to Subsection 111.2.2.
- C. A list of all Contract provisions that is relevant to the Dispute and a Statement of which specific Contract provisions the Design-Builder believes controls the outcome of the Dispute.
- D. A narrative setting forth the Design-Builder's position regarding additional compensation and time, if any, including all supporting facts including dates, locations, and items of Work affected by the Dispute, and how the Contract provisions set forth in subparagraph C support the Design-Builder's position.
- E. A list of and copies of all documents that are relevant to the Dispute organized chronologically. With respect to each document, the list must include its date, the author(s) (including address and telephone numbers), and the recipient(s).
- F. A list of all persons that are involved in or knowledgeable of the Dispute including addresses, and telephone numbers of such persons. If such person has knowledge of oral Statements upon which the Design-Builder is relying, the list must also include the substance of the oral Statements, the date(s) they were made, and all people present at the time the Statement was made.
- G. If an extension of time is sought:
 - 1. The specific Days or dates, for which it is sought, including an explanation of impact on the Critical Path;
 - 2. The specific reasons the Design-Builder believes a time extension should be granted; and
 - 3. The specific provisions of the Contract under which it is sought.
- H. If additional compensation is sought, the exact amount sought and a breakdown of that amount into the categories provided by Subsection 109.5.2 –Basis of Payment.

I. An oath consisting of the following language:

“ON OATH, and under the penalty of law for perjury or falsification, the undersigned, (Name of person signing oath and title) hereby certifies that the amounts claimed by the Design-Builder for additional compensation and time (as applicable) set forth in the Notice of Unresolved Dispute and this additional documentation are a true and complete Statement of the Actual Costs incurred and time sought, and are fully documented and supported in accordance with the Contract.”

J. Date of signature, sworn signature, and acknowledgment by notary.

The Director or the Director’s designee may also retrieve and review the Proposal Escrow Documentation, if any, if the Contract required submission of Proposal Escrow.

111.3.3 Decision by Director. Within fifteen (15) Days of receiving a Notice of Unresolved Dispute Conforming to Subsection 111.3.1 – Notice of Unresolved Dispute or, if requested, all Additional Documentation, whichever is later, the Director or the Director’s designee(s) will Deliver a written decision. The decision will affirm, reverse, revise, or amend the decision of the Program Manager.

111.4 Dispute Review Board. If the Design-Builder wants additional consideration and the Director has not requested a DRB proceeding, the Design-Builder may Deliver a written request for a DRB proceeding to the Director within ten (10) Days of receiving the Director’s decision as provided in Subsection 111.3.3 – Decision by Director.

Within ten (10) Days of receiving a request for a DRB proceeding (“DRB Consent Period”), the non-requesting party shall notify the other as to whether or not it consents to a DRB proceeding. If both parties consent, a DRB proceeding shall take place and shall conform to the DRB Rules agreed upon by the Department and the Associated Constructors of Maine. If either party does not consent within the DRB Consent Period and the Design-Builder wants additional consideration, the Design-Builder must file an Appeal with the Commissioner as provided in Subsection 111.5.1 – Filing of Appeal. For a related provision, see Section 101.2 – Definition of Dispute Review Board.

The purpose of the DRB is to assist consenting parties in resolving Disputes in a manner that complies with the Contract and that is fair, impartial, less expensive, and less formal than litigation. The DRB will do so by issuing non-binding recommendations, unless the parties mutually agree in writing at the time of consenting to a DRB proceeding that such recommendations will be binding.

111.5 Appeal to Commissioner.

111.5.1 Filing of Appeal. If a DRB proceeding did not occur and the Design-Builder wants additional consideration, the Design-Builder must file an “Appeal of the Director’s Decision” to the Commissioner within ten (10) Days of the expiration of the DRB Consent Period. If a DRB proceeding did occur and failed to resolve the Dispute and/or the Design-Builder or the Director want additional consideration, that party must file an “Appeal of Dispute Review

Board Recommendation” to the Commissioner within thirty (30) Days of the date the DRB’s recommendation is final. At a minimum, the Appeal must contain:

- A. If a DRB proceeding did not occur, all Materials submitted to the Director and all decisions by the Director;
- B. If a DRB proceeding did occur, all Materials submitted to the DRB and all recommendations from the Dispute Review Board;
- C. The specific findings of the Director and/or the DRB that the appealing party claims are contrary to law and/or fact;
- D. Any other pertinent new documentary evidence;
- E. Any written arguments the appealing party wishes the Commissioner to consider; and
- F. The specific relief sought.

Unless directed otherwise by the Commissioner, review of the Appeal will be limited to the documentation submitted.

111.5.2 Rebuttal Information. The non-appealing party will have ten (10) Days of receiving notice that an Appeal was filed with the Commissioner to submit written rebuttal information.

111.5.3 Time and Alternatives for Commissioner Action. Within twenty (20) Days of receiving an Appeal Conforming to Subsection 111.5.1 – Filing an Appeal or, if applicable, the Receipt of the rebuttal information allowed by Subsection 111.5.2 – Rebuttal Information, the Commissioner will:

- A. In writing, affirm the recommendation(s) of the DRB or the decision of the Director, as applicable;
- B. In writing, revise, amend, or reverse the recommendation(s) of the DRB or the decision of the Director, as applicable; or
- C. In writing, submit the claim to binding or non-binding alternative Dispute resolution.

111.5.4 Final Agency Action. Any affirmation, revision, amendment, or reversal by the Commissioner is final agency action as of the date of Receipt of such action by the Design-Builder. If the Commissioner submits the Dispute to alternative Dispute resolution, the date of final agency action will be established by the mediator, arbitrator, or other Dispute resolution neutral by written notice to the parties. If the Commissioner takes no action within such thirty (30) Day period, the DRB’s final recommendation (if one exists) or the decision of the Director (if a DRB recommendation does not exist) shall be final agency action upon the expiration of said thirty (30) Day period.

111.6 Judicial Review. All Proposers and Design-Builders hereby agree and acknowledge that with respect to any and all Disputes and/or Issues arising from the Proposal and/or the Contract, they must and will comply with all of the Notice and Dispute Resolution provisions of this Contract. For related provisions, see Subsections 111.1.2 – Escalation Process and 111.1.4 – Mandatory Notice. All Proposers and Design-Builders hereby agree and acknowledge that they must comply with, and exhaust, the Notice and Dispute Resolutions provisions of this Contract to the point of Final Agency Action prior to seeking judicial review. See Section 111.5.4 – Final Agency Action.

All Proposers and the Design-Builder hereby agree and acknowledge that the sole and exclusive means of judicial review of final agency actions under the Contract is through a petition for review pursuant to Maine Rule of Civil Procedure 80C and 5 MRSA §11001, et seq., of the Maine Administrative Procedure Act, to be filed in Maine Superior Court, Kennebec County.

SECTION 112 - DEFAULT AND TERMINATION

Scope of Section. This Section contains general provisions related to Default and termination of the Contract.

112.1 Default.

112.1.1 Grounds for Default. The Design-Builder and the Surety are in Default of the Contract if the Design-Builder or the Surety:

- A. Fails to Promptly begin the Work under the Contract after being authorized to proceed,
- B. Fails to perform the Work with sufficient labor, Equipment, or Materials to assure the timely Completion of the Work,
- C. Performs Defective Work, neglects or refuses to uncover, remove or rebuild Unacceptable Work, or neglects or refuses to uncover Unauthorized or Uninspected Work when directed by the Department;
- D. Discontinues the prosecution of the Work without Departmental approval,
- E. Continues to perform Work after the Department directs that Work be stopped,
- F. Fails to resume Work, which has been suspended as required by the Contract,
- G. Becomes insolvent or is declared bankrupt or commits any act of bankruptcy or insolvency that could affect the Work in any way,
- H. Allows any final judgment to stand against the Design-Builder unsatisfied for a period of ten (10) Days,
- I. Makes an assignment for the benefit of creditors without authorization by the Department, or
- J. In any other manner, fails to perform the Work in Substantial Conformity with any material provision of the Contract.

112.1.2 Notice of Default/Cure. Except as otherwise provided in this Contract, if Default occurs, the Department may give written Notice of Default to the Design-Builder and its Surety. Failure to give Notice of Default is in no way a waiver by the Department of any provision of the Contract.

If the Design-Builder or Surety fails to completely cure such Default within a period of ten (10) Days after Notice of Default, then the Department may:

- A. terminate the Contract for cause in accordance with Subsection 112.2.1 – For Cause,
or

- B. take prosecution of the Work away from the Design-Builder without violating the Contract.

112.2 Termination. The Department may, by written order to the Design-Builder, terminate the Contract as provided in this Section. Termination of the Contract or portion thereof shall not relieve the Design-Builder of its Contractual responsibilities for the Work completed (including warranty obligations), nor shall it relieve the Surety of its obligation for claims arising from the Work or the Contract.

112.2.1 For Cause. If the Design-Builder fails to completely cure all Defects identified in the Notice(s) of Default provided for in Subsection 112.1.2 – Notice of Default/Cure, within the ten (10) calendar Day cure period provided, the Department may immediately terminate the Contract for cause by written Notice of Termination For Cause. The Design-Builder shall immediately deliver to the Department all Design Documents of whatever nature and all other completed or partially completed Drawings (including plans, elevations, sections, details and diagrams), specifications, records, information, schedules, samples, Shop Drawings, electronic files and other documents and facilities related to the Project that the Department deems necessary for Completion of the Work. The Department shall have the unequivocal right to use said documents to complete the Work and may enter into an agreement with another entity for the Completion of the Work, or use such other methods as in the opinion of the Department are required for the Completion of the intent of the Contract in an acceptable and timely manner.

The Department will pay for all Accepted items of Work as of the date of Termination at agreed upon prices. The Design-Builder shall make all Work records available to the Department upon request regarding payment under this Section. All costs and charges incurred by the Department, together with the cost of completing the Work specified in the Contract, will be deducted from amounts otherwise due the Design-Builder. If such expenses exceed the sum that would have been payable under the Contract, then the Design-Builder and the Surety are liable and shall pay to the Department the amount of such excess within twenty (20) Days of the Delivery of a Statement setting forth such expenses to the Design-Builder and the Surety, as applicable.

If the Design-Builder files for bankruptcy at any time before expiration of the warranty periods provided by this Contract, then the Design-Builder and its Surety agree, if requested by the Department and within twenty (20) Days of such request, to take all actions necessary or convenient to reject or accept this Contract under the executory Contract provisions of the federal bankruptcy code.

112.2.2 For Convenience. The Department may terminate this Contract for convenience or for any reason that is in the best interest of the Department. Terminations caused without fault of or for reasons beyond the control of the Design-Builder are Terminations for Convenience. The Department will notify the Design-Builder of such terminations by sending a Notice of Termination for Convenience.

In case of a Termination for Convenience, the Department will pay for all Accepted Work as of the date of termination at agreed upon prices. The Design-Builder shall make all Work records available to the Department upon request regarding payment under this Section. Acceptable

Materials, obtained by the Design-Builder for the Work but which have not been incorporated therein, may at the option of the Department be purchased from the Design-Builder at Actual Cost Delivered to a prescribed location or otherwise disposed of as mutually agreed.

After Receipt of Notice of Termination for Convenience from the Department, the Design-Builder may also submit a claim for additional damages or costs not covered above or elsewhere in this Contract to the Program Manager within forty (40) Days of the effective Termination date. Such claim may include such cost items as idle Equipment time, Project investigative costs, overhead expenses attributable to the Project terminated, legal and accounting charges involved in claim preparation, Subcontractor costs not otherwise paid for, idle labor cost if Work is stopped in advance of termination date, guaranteed payments for private land usage as part of the original Contract, and any other cost or damage item for which the Design-Builder reasonably believes reimbursement should be made. In no event, however, will loss of anticipated profits be considered as part of any settlement.

The Design-Builder agrees to make the Proposal Escrow Documentation, if any, and its cost records available to the extent necessary to determine the validity and amount of each item claimed.

The Department will respond in writing to such claim within forty (40) Days of Receipt. If the Design-Builder wants additional consideration, the Design-Builder must Deliver a written “Notice of Unresolved Dispute” to the Director as provided in Subsection 111.3.1 – Notice of Unresolved Dispute and comply with all other applicable Dispute resolution provisions of Section 111 – Resolution of Disputes.

APPENDIX A TO DIVISION 100 DESIGN-BUILD GENERAL CONDITIONS

SECTION 1 - BIDDING PROVISIONS

A. Federally Required Certifications. By signing and delivering a Bid, the Bidder certifies as provided in all certifications set forth in this Appendix A - Federal Contract Provisions Supplement including:

- Certification Regarding No Kickbacks to Procure Contract as provided on this page A-1 below.
- Certification Regarding Non-collusion as provided on page A-1 below.
- Certification Regarding Non-segregated Facilities as provided by FHWA Form 1273, section III set forth on page A-18 below.
- "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion" as provided by FHWA Form 1273, section X set forth on page A-25 below.
- "Certification Regarding Use of Contract Funds for Lobbying" as provided by FHWA Form 1273, section XI set forth on page A-27 below.

Unless otherwise provided below, the term "Bidder", for the purposes of these certifications, includes the Bidder, its principals, and the person(s) signing the Bid. Upon execution of the Contract, the Bidder (then called the Contractor) will again make all the certifications indicated in this paragraph above. Upon execution of the Contract, the Bidder (then called the Contractor) will again make all the certifications indicated in this paragraph above.

CERTIFICATION REGARDING NO KICKBACKS TO PROCURE CONTRACT. Except expressly stated by the Bidder on sheets submitted with the Bid (if any), the Bidder hereby certifies, to the best of its knowledge and belief, that it has not:

- A. employed or retained for a commission, percentage, brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for me) to solicit or secure this contract;
- B. agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any firm or person in connection with carrying out the contract, or;
- C. paid, or agreed to pay, to any firm, organization, or person (other than a bona fide employee working solely for me) any fee, contribution, donation, or consideration of any kind for, or in connection with, procuring or carrying out the contract;

By signing and submitting a Bid, the Bidder acknowledges that this certification is to be furnished to the Maine Department of Transportation and the Federal Highway Administration, U.S. Department of Transportation in connection with this contract in anticipation of federal aid highway funds and is subject to applicable state and federal laws, both criminal and civil.

CERTIFICATION REGARDING NONCOLLUSION. Under penalty of perjury as provided by federal law (28 U.S.C. §1746), the Bidder hereby certifies, to the best of its knowledge and belief, that:

the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with the Contract.

For a related provisions, see Section 102.7.2 (C) of the Standard Specifications - "Effects of Signing and Delivery of Bids" - "Certifications", Section 3 of this Appendix A entitled "Other Federal Requirements" including section XI - "Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion" and section XII. - "Certification Regarding Use of Contract Funds for Lobbying."

Bid Rigging Hotline. To report bid rigging activities call: **1-800-424-9071**

The U.S. Department of Transportation (DOT) operates the above toll-free "hotline" Monday through Friday, 8:00 a.m. to 5:00 p.m., eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report such activities.

The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

SECTION 2 - FEDERAL EEO AND CIVIL RIGHTS REQUIREMENTS

Unless expressly otherwise provided in the Bid Documents, the provisions contained in this Section 2 of this "Federal Contract Provisions Supplement" are hereby incorporated into the Bid Documents and Contract.

A. Nondiscrimination & Civil Rights - Title VI. The Contractor and its subcontractors shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the Department deems appropriate. The Contractor and subcontractors shall comply with Title VI of the Civil Rights Act of 1964, as amended, and with all State of Maine and other Federal Civil Rights laws.

For related provisions, see Subsection B - "Nondiscrimination and Affirmative Action - Executive Order 11246" of this Section 2 and Section 3 - Other Federal Requirements of this "Federal Contract Provisions Supplement" including section II - "Nondiscrimination" of the "Required Contract Provisions, Federal Aid Construction Contracts", FHWA-1273.

B. Nondiscrimination and Affirmative Action - Executive Order 11246. Pursuant to Executive Order 11246, which was issued by President Johnson in 1965 and amended in 1967 and 1978, this Contract provides as follows.

The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its efforts to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

Ensure and maintain a working environment free of harassment, intimidations, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all forepersons, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its union have employment opportunities available, and to maintain a record of the organization's responses.

Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.

Provide immediate written notification to the Department's Civil Rights Office when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Design-Builder's efforts to meet its obligations.

Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under B above.

Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligation; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination, or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Forepersons, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to

and discussing the Contractor's EEO policy with other Contractor's and Subcontractors with whom the Contractor does or anticipates doing business.

Direct its recruitment efforts, both orally and written to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above describing the openings, screenings, procedures, and test to be used in the selection process.

Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth, both on the site and in other areas of a Contractor's workforce.

Validate all tests and other selection requirements.

Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractor's and suppliers, including circulation of solicitations to minority and female Contractor associations and other business associations.

Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

C. Goals for Employment of Women and Minorities. Per Executive Order 11246, craft tradesperson goals are 6.9 percent (6.9%) women and 0.5 percent (0.5%) minorities employed. However, goals may be adjusted upward at the mutual agreement of the Contractor and the Department. Calculation of these percentages shall not include On-the-Job Training Program trainees, and shall not include clerical or field clerk position employees.

For a more complete presentation of requirements for such Goals, see the federally required document "Goals for Employment of Females and Minorities" set forth in the next 6 pages below.

Start of GOALS FOR EMPLOYMENT OF FEMALES AND MINORITIES
Federally Required Contract Document

§60-4.2 Solicitations

- (d) The following notice shall be included in, and shall be part of, all solicitations for offers and bids on all Federal and federally assisted construction contracts or subcontracts in excess of \$10,000 to be performed in geographical areas designated by the Director pursuant to §60-4.6 of this part (see 41 CFR 60-4.2(a)):

Notice of Requirement for Affirmative Action to Ensure Equal Opportunity (Executive Order 11246)

1. The Offeror's or bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

Goals for female participation in each trade	6.9%
Goals for minority participation for each trade	
Maine	
001 Bangor, ME	0.8%
Non-SMSA Counties (Aroostook, Hancock, Penobscot, Piscataquis, Waldo, Washington)	
002 Portland-Lewiston, ME	
SMSA Counties: 4243 Lewiston-Auburn, ME (Androscoggin)	0.5%
6403 Portland, ME (Cumberland, Sagadahoc)	0.6%
Non-SMSA Counties: (Franklin, Kennebec, Knox, Lincoln, Oxford, Somerset, York)	0.5%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be in violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within ten (10) Working Days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor, employer identification number of the subcontractor, estimated dollar amount of the subcontract; estimated started and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.
4. As used in this Notice, and in the Contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any).

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION
CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer identification number" means the Federal Social Security number" means the Federal Social Security number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department form 941;
 - d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of the North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the contractor, is participating (pursuant to 41 CFR 60-.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions

of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors for Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 a. through p. of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical areas where the work is being performed. Goals are published periodically in the Federal Register in notice form and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specific.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant, thereto.
6. In order for the non working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as expensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, when possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organization's responses.

- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment sources or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources complied under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment, efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing prior to the date for the acceptance of applications for apprenticeship or the openings, screening procedures, and tests to be used in the selection process.

- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on site and in other areas of a Contractor's work force.
 - k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
 - l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 - m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - n. Ensure that all facilities and company activities are non-segregated, except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitation to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7 a through p.). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7 a through p. of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program and reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions take on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, specific minority group of women is underutilized.)
10. The Contractor shall not use the goals and timetables or affirmative action even through the Contractor has achieved its goals for women generally, the Contractor may be in violation of the

Executive Order if standards to discriminate against any person because of race, color, religion, sex, or national origin.

11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementation regulations by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.6.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g. mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and location at which the work was performed. Records be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

End of GOALS FOR EMPLOYMENT OF FEMALES AND MINORITIES
Federally Required Contract Document

D. Section '**Disadvantaged Business Enterprise (DBE) Requirements**' is removed in its entirety. The DBE material is in:

Section 105.10 EQUAL OPPORTUNITY AND CIVIL RIGHTS

SECTION 3 - OTHER FEDERAL REQUIREMENTS

Unless expressly otherwise provided in the Bid Documents, the provisions contained in this Section 3 of this "Federal Contract Provisions Supplement" are hereby incorporated into the Bid Documents and Contract.

A. Buy America

If the cost of products purchased for permanent use in this project which are manufactured of steel, iron or the application of any coating to products of these materials exceeds 0.1 percent (0.1%) of the contract amount, or \$2,500.00, whichever is greater, the products shall have been manufactured and the coating applied in the United States. The coating materials are not subject to this clause, only the application of the coating. In computing that amount, only the cost of the product and coating application cost will be included.

Ore, for the manufacture of steel or iron, may be from outside the United States; however, all other manufacturing processes of steel or iron must be in the United States to qualify as having been manufactured in the United States.

United States includes the fifty (50) United States and any place subject to the jurisdiction thereof.

Products of steel include, but are not limited to, such products as structural steel, piles, guardrail, steel Culverts, reinforcing steel, structural plate and steel supports for signs, luminaries and signals.

Products of iron include, but are not limited to, such products as cast iron grates.

Application of coatings include, but are not limited to, such applications as epoxy, galvanized, and paint.

To assure compliance with this section, the Contractor shall submit a certification letter on its letterhead to the Department stating the following:

“This is to certify that products made of steel, iron or the application of any coating to products of these materials whose costs are in excess of \$2,500.00 or 0.1 percent (0.1%) of the original contract amount, whichever is greater, were manufactured and the coating, if one was required, was applied in the United States.”

B. Materials

a. Convict Produced Materials. References: 23 U.S.C. 114(b)(2), 23 CFR 635.417

Applicability: FHWA's prohibition against the use of convict material only applies to Federal-aid highways. Materials produced after July 1, 1991, by convict labor may only be incorporated in a Federal-aid highway construction project if:

- 1) such Materials have been produced by convicts who are on parole, supervised release, or probation from a prison; or
- 2) such Material has been produced in a qualified prison facility, e.g., prison industry, with the amount produced during any 12-month period, for use in Federal-aid projects, not exceeding the amount produced, for such use, during the 12-month period ending July 1, 1987.

Materials obtained from prison facilities (e.g., prison industries) are subject to the same requirements for Federal-aid participation that are imposed upon materials acquired from other sources. Materials manufactured or produced by convict labor will be given no preferential treatment.

The preferred method of obtaining Materials for a project is through normal contracting procedures which require the contractor to furnish all materials to be incorporated in the work. The contractor selects the source, public or private, from which the Materials are to be obtained (23 CFR 635.407).

Prison industries are prohibited from bidding on projects directly (23 CFR 635.112e), but may act as Material supplier to construction contractors.

Prison Materials may also be approved as State-furnished Material. However, since public agencies may not bid in competition with private firms, direct acquisition of Materials from a prison industry for use as State-furnished Material is subject to a public interest finding with the Division Administrator's concurrence (23 CFR 635.407d). Selection of Materials produced by convict labor as State-furnished Materials for mandatory use should be cleared prior to the submittal of the Plans Specifications & Estimates (PS&E).

b. Patented/Proprietary Products. References: 23 U.S.C. 112, 23 CFR 635.411

FHWA will not participate, directly or indirectly, in payment for any premium or royalty on any patented or proprietary material, specification, or process specifically set forth in the plans and specifications for a project, unless:

- the item is purchased or obtained through competitive bidding with equally suitable unpatented items,
- the STA certifies either that the proprietary or patented item is essential for synchronization with the existing highway facilities or that no equally suitable alternative exists, or
- the item is used for research or for a special type of construction on relatively short sections of road for experimental purposes. States should follow FHWA's procedures for "Construction Projects Incorporating Experimental Features" (<http://www.fhwa.dot.gov/programadmin/contracts/expermnt.cfm>) for the submittal of work plans and evaluations.

The primary purpose of the policy is to have competition in selection of Materials and allow for development of new materials and products. The policy further permits Materials and products that are judged equal may be bid under generic specifications. If only patented or proprietary products are acceptable, they shall be bid as alternatives with all, or at least a reasonable number of, acceptable Materials or products listed; and the Division Administrator may approve a single source if it can be found that its utilization is in the public interest.

Trade names are generally the key to identifying patented or proprietary Materials. Trade name examples include 3M, Corten, etc. Generally, products identified by their brand or trade name are not to be specified without an "or equal" phrase, and, if trade names are used, all, or at least a reasonable number of acceptable "equal" Materials or products should be listed. The licensing of several suppliers to produce a product does not change the fact that it is a single product and should not be specified to the exclusion of other equally suitable products.

c. State Preference. References: 23 U.S.C. 112, 23 CFR 635.409

Materials produced within Maine shall not be favored to the exclusion of comparable Materials produced outside of Maine. State preference clauses give particular advantage to the designated source and thus restrict competition. Therefore, State preference provisions shall not be used on any Federal-aid construction projects.

This policy also applies to State preference actions against materials of foreign origin, except as otherwise permitted by Federal law. Thus, States cannot give preference to in-State material sources over foreign material sources. Under the Buy America provisions, the States are permitted to expand

the Buy America restrictions provided that the STA is legally authorized under State law to impose more stringent requirements.

d. State Owned/Furnished/Designated Materials. References: 23 U.S.C. 112, 23 CFR 635.407

Current FHWA policy requires that the contractor must furnish all materials to be incorporated in the work, and the contractor shall be permitted to select the sources from which the materials are to be obtained. Exceptions to this requirement may be made when there is a definite finding, by MDOT and concurred in by Federal Highway Administration's (FHWA) Division Administrator, that it is in the public interest to require the contractor to use materials furnished by the MDOT or from sources designated by MDOT. The exception policy can best be understood by separating State-furnished materials into the categories of manufactured materials and local natural materials.

Manufactured Materials. When the use of State-furnished manufactured materials is approved based on a public interest finding, such use must be made mandatory. The optional use of State-furnished manufactured materials is in violation of our policy prohibiting public agencies from competing with private firms. Manufactured materials to be furnished by MDOT must be acquired through competitive bidding, unless there is a public interest finding for another method, and concurred in by FHWA's Division Administrator.

Local Natural Materials. When MDOT owns or controls a local natural materials source such as a borrow pit or a stockpile of salvaged pavement material, etc., the materials may be designated for either optional or mandatory use; however, mandatory use will require a public interest finding (PIF) and FHWA's Division Administrator's concurrence.

In order to permit prospective bidders to properly prepare their bids, the location, cost, and any conditions to be met for obtaining materials that are made available to the contractor shall be stated in the bidding documents.

Mandatory Disposal Sites. Normally, the disposal site for surplus excavated materials is to be of the contractor's choosing; although, an optional site(s) may be shown in the contract provisions. A mandatory site shall be specified when there is a finding by MDOT, with the concurrence of the Division Administrator, that such placement is the most economical or that the environment would be substantially enhanced without excessive cost. Discussion of the mandatory use of a disposal site in the environmental document may serve as the basis for the public interest finding.

Summarizing FHWA policy for the mandatory use of borrow or disposal sites:

- mandatory use of either requires a public interest finding and FHWA's Division Administrator's concurrence,
- mandatory use of either may be based on environmental consideration where the environment will be substantially enhanced without excessive additional cost, and
- where the use is based on environmental considerations, the discussion in the environmental document may be used as the basis for the public interest finding.

Factors to justify a public interest finding should include such items as cost effectiveness, system integrity, and local shortages of material.

C. Standard FHWA Contract Provisions - FHWA 1273

Unless expressly otherwise provided in the Bid Documents, the following “Required Contract Provisions, Federal Aid Construction Contracts”, FHWA-1273, are hereby incorporated into the Bid Documents and Contract.

Cargo Preference Act : Contractor and Subcontractor Clauses. “Use of United States-flag vessels: The contractor agrees—“(1) To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels.”“(2) To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, ‘on-board’ commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Division of National Cargo, Office of Market Development, Maritime Administration, Washington, DC 20590.”“(3) To insert the substance of the provisions of this clause in all subcontracts issued pursuant to this contract.”(Reorganization Plans No. 21 of 1950 (64 Stat. 1273) and No. 7 of 1961 (75 Stat. 840) as amended by Pub. L. 91-469 (84 Stat. 1036) and Department of Commerce Organization Order 10-8 (38 FR 19707, July 23, 1973)) [42 FR 57126, Nov. 1, 1977]

The Cargo Preference Act requirements apply to materials or equipment that are acquired for a specific Federal-aid highway project. In general, the requirements are not applicable to goods or materials that come into inventories independent of an FHWA funded-contract. For example, the requirements would not apply to shipments of Portland cement, asphalt cement, or aggregates, as industry suppliers and contractors use these materials to replenish existing inventories. In general, most of the materials used for highway construction originate from existing inventories and are not acquired solely for a specific Federal-aid project. However, if materials or equipment are acquired solely for a Federal-aid project, then the Cargo Preference Act requirements apply.”

Start of FHWA 1273 REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS (As revised through October 23, 2023)

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work

performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: 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, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO 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. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty 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 minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. 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 race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will 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.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its 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.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of 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 race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. 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 contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number 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 [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA- 1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act ([29 CFR part 3](#))), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act ([40 U.S.C. 3141\(2\)\(B\)](#)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in [29 CFR part 1](#), a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division

under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. *Fringe benefits not expressed as an hourly rate.* Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. *Unfunded plans.* If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. *Withholding requirements.* The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901–3907](#).

3. Records and certified payrolls (29 CFR 5.5)

a. *Basic record requirements* (1) *Length of record retention.* All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) *Information required.* Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) *Additional records relating to fringe benefits.* Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) *Additional records relating to apprenticeship.* Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. *Certified payroll requirements* (1) *Frequency and method of submission.* The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting

agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) *Information required.* The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (e.g., the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) *Statement of Compliance.* Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in [29 CFR part 3](#); and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) *Use of Optional Form WH-347.* The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature*. The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification*. The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under [18 U.S.C. 1001](#) and [31 U.S.C. 3729](#).

(7) *Length of certified payroll retention*. The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents*. The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access* (1) *Required record disclosures and access to workers*. The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements*. If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under [29 CFR part 6](#) any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures*. Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address

of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. **Apprentices and equal employment opportunity** (29 CFR 5.5)

a. *Apprentices (1) Rate of pay*. Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits*. Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio*. The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates*. Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity*. The use of apprentices and journeyworkers under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and [29 CFR part 30](#).

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, [18 U.S.C. 1001](#).

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#); or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#).

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* \$31 as of January 15, 2023 (See 88 FR 88 FR 2210) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901–3907](#).

4. **Subcontracts.** The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the

event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower- tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. **Anti-retaliation.** It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

- a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;
- b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;
- c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or
- d. Informing any other person about their rights under CWHSSA or this part.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;

- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long- standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and

health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

* * * * *

3. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or

cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.