

ADDENDUM NUMBER 1

EXHIBIT A

DESCRIPTION OF GOODS & SERVICES AND ADDITIONAL TERMS & CONDITIONS

1. DESCRIPTION OF GOODS AND SERVICES:

- (a) **SCOPE:** Rental of bridge repair units to Perform Services for the Client Agency. Rentals include all equipment with operator(s), tools and labor necessary for the complete performance of the particular Service required. The Contractor furnishing the services shall furnish all personnel, fuel, maintenance and repair necessary for the operation of any equipment to Perform the Services.

Chargeable rental time does not include travel time to and from the job site. Costs related to transporting personnel, picking up materials at locations designated by the Client Agency, transporting rental equipment and/or services to and from the area in which they will be used are the responsibility of the Contractor. The Client Agency shall not pay for transporting equipment.

The Client Agency reserves the right to regulate the size and number of crews assigned to any project during the project pre-construction meetings.

- (b) **MATERIALS:** All materials necessary to complete designated repair work that will be permanently incorporated in the work shall be identified by the Contractor for purchase by ConnDOT. ConnDOT, at their sole discretion, may require the Contractor to furnish certain of these materials which shall be accomplished and compensated for as specified below. ConnDOT is under no obligation to buy any materials exclusively from Contractor.

Materials, such as hand-wipes, rags, forms, scaffolding, etc., that are necessary to complete the work but are not permanently incorporated in the finished product of the work must be furnished by the Contractor at no cost to ConnDOT.

Replacement Parts and Materials will be paid for at the OEM published price list or authorized manufacturer's reseller price list plus a 15% mark-up. Prior to purchasing any materials, the Contractor shall submit the materials costs to the appropriate ConnDOT District Bridge Manager for approval. The Contractor shall submit the manufacturer's invoice, or current manufacturer's catalog or price list to the Client Agency in order to receive payment in accordance with the provision noted above. Replacement parts available through original equipment manufacturers (OEM) or existing Client Agency inventory must be used whenever possible.

For materials bought at the direction of ConnDOT, ConnDOT will pay the Contractor its actual cost for such materials delivered to the appropriate bridge site, including delivery charges, as shown by original receipted bills plus 15% mark-up.

For materials taken from Contractor stock, the Contractor shall provide ConnDOT an affidavit certifying that such materials were not purchased for the subject bridge, that the materials were taken from Contractor stock, that the quantity claimed to have been used for the bridge was actually so used, and that the price claimed for the materials is currently their fair market value. Reimbursement will be made at the price noted in this affidavit plus 15% mark-up.

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- (c) **PAINTING:** Contractors are required to comply with OSHA Lead Standard 29 as identified in the Code of Federal Regulations (“CFR”) Section 1926.62 as such standard may be amended or superseded at any time. Painting waste materials must be collected and placed in containers provided by the Client Agency. The Contractor is prohibited from removing and disposing of such materials from the work site.
- (d) **FORM 817** – “FORM 817” is Client Agency’s “*Standard Specifications for Roads, Bridges and Incidental Construction*”. Work is to be in accordance with FORM 817 including all supplements and other applicable standards. Copies of these standard specifications, FORM 817 may be purchased from:

State of Connecticut
Department of Transportation
Manager of Contracts
PO Box 317546
2800 Berlin Turnpike
Newington CT 06131-7546

The price is twenty dollars (\$20.00) if FORM 817 is mailed and sixteen dollars (\$16.00) if FORM 817 is picked up. Checks are to be made out to: Treasurer, State of Connecticut

OR

Contractor may view and download FORM 817 at the following website:

<http://www.ct.gov/dot/cwp/view.asp?a=3609&Q=430362>

- (e) **OPERATING STANDARDS:** Contractors supplying equipment and services “Operated by Contractor” are required to comply with the current Occupational Safety & Health Administration (“OSHA”) Regulations (Standard – 29 CFR) Parts 1910 and 1926 and the Connecticut Occupational Safety and Health Standards, Volume I, General Industry Standards, Volume II, Construction Safety and Health Regulations as such standards may be amended or superseded at any time.
- (f) **UTILIZATION OF CONTRACTOR:** Utilization of a Contractor will be based upon the Client Agency’s assessment of a Contractor’s ability to perform the required Services upon and the Contractor’s overall total cost estimate for a particular project. Past performance may be used in determining a Contractor’s ability to perform Services. The Client Agency may interview the Contractor to determine if they are qualified to perform the required Services. Documented experience demonstrating prior performance of the Services to be performed may be requested by the Client Agency.

In the event that more than one (1) piece of equipment could be used to perform requested work, the Client Agency will determine the piece of equipment to be included in the purchase order to accomplish the work in its sole discretion. A mandatory pre-construction meeting will be

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conducted for each project prior to beginning work. The Contractor shall not be paid for attending or traveling to or from the pre-construction meeting.

The Contractor shall conform to the specifications established by the Contract. If there are any proposed minor deviations from these requirements, it is the Contractors' responsibility to request written approval for such deviation at the pre-construction meeting. Alternate proposals or methods are not acceptable unless approved prior to their execution in writing by the Client Agency. The Client Agency may assign work to multiple Contractors simultaneously in an effort to accomplish its project schedules within each district. This could mean that if the lowest awarded contractor cannot undertake/complete work as proposed by the Client Agency for a particular project within the time frames determined by the Client Agency, the next lowest awarded Contractor may be selected.

- (g) **WORK DAY:** In accordance with the normal work schedule in use by the Client Agency, rental rates are based on a seven and one-half (7 ½) hour normal work day (8:00 a.m. to 12:00 noon; 12:30 p.m. to 4:00 p.m. or as determined at the pre-construction meeting). Rates are for rental by the hour. Rental rates are to be based on a normal working day of seven and one-half (7 ½) hours, regardless of how many hours are considered to be a normal day by the Contractor.

Payments will be for actual hours worked or actual work units performed, from the time the traffic control setup has been completed to the time when traffic control removal begins.

When operations require work in excess of seven and one half (7 ½) hours in any one (1) day payment will be made at the applicable hourly rate for the actual hours worked or actual work units performed. The Client Agency will not pay any overtime rates under the terms of the Contract.

Under certain circumstances the Client Agency may arrange for other hours of work to be performed upon the mutual agreement of the Client Agency and the Contractor. No additional premium will be paid for such arrangements.

- (h) **NIGHT WORK:** If night work is to be performed utilizing any of the various types of bridge repair units, the Contractor will provide bright wide angle retro-reflective sheeting signage for the work area and furnish all lighting for illumination of traffic control and signing operations and for illumination of the work area to the satisfaction of the Client Agency engineer. Required illumination must consist of one (1) "light-plant" (a gasoline-powered, trailer-mounted generator unit with four (4) high-intensity lamps on an extendable stanchion that operate and focus independent of each other), or approved equivalent, at the discretion of the Client Agency engineer, per work crew area. The cost of illumination of traffic control and signing operations will be paid for under the night additional cost for traffic control as set out in Exhibit B. The illumination of the work area will be paid for under the night additional cost for Item numbers: 1, 2, 3A, 3B, 4, 5A, 5B, 6, 7, 8A, 8B, 10, 11, 12, 14, 15, 16, 17, 18 and 20 as set out in Exhibit B.

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Retro reflective sheeting for signage must be provided in accordance with Section M.18.09.02 of FORM 817.

Night hours normally will be considered to be from 6:00 p.m. to 6:00 a.m., but will be determined specifically at each pre-construction meeting by the Client Agency's bridge maintenance representative.

- (i) **RAILROAD WORK:** The Client Agency may need rental Services for projects adjacent to railroads. These Services will only be paid for when requested in writing by the Client Agency engineer.

When working on a specific railroad property the Contractor will be required to:

1. Execute any service agreement required by the railroad company, if applicable,
2. Furnish any certificates of insurance required by the railroad company, if applicable. These certificates are in addition to the Railroad Protective Liability Insurance required by the terms of the Contract, and
3. Coordinate with the railroad company to schedule the required railroad personnel necessary to provide protection for the Contractor during the course of the project. Contractor shall pay all fees for the necessary personnel with no additional charge to the Client Agency.

- (j) **WORKING OVER OR NEAR WATER:** The Client Agency may need Contractor to Perform Services on projects over or near water. Contractor shall comply with OSHA Standard 29 CFR 1926.106 and CGS § 15-14e as such standard may be modified or superseded at any time, when working over or near water.

Work over or near water will be considered any work where a danger of drowning exists and will be discussed at the pre-construction meeting. If decided at the meeting that a boat is required, the Contractor shall provide an operator and boat at no additional cost. The Client Agency's decision regarding the necessity of a boat is final. The boat must be equipped with life preservers and any other equipment required by government regulations. The Contractor shall provide to the Client Agency engineer copies of all necessary permits, licenses and registrations for the boat and operator. The boat is to be operable and available at all times. In the event of a breakdown, hazardous over water work will be discontinued until the boat is repaired or replaced.

- (k) **HOLIDAYS:** The Contractor will not be permitted to work on the following State of CT legal holidays: New Year's Day, Martin Luther King Jr. Day, Lincoln's Birthday, Washington's Birthday, Good Friday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day and Christmas Day.

The Contractor will not be permitted to work on the day before and the day after any of the above legal holidays on interstate highways or expressways.

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This applies also to the Friday immediately preceding any of the above legal holidays celebrated on a Monday and the Monday immediately following any of the above legal holidays celebrated on a Friday.

- (l) **QUALITY CONTROL:** Quality control will be the responsibility of the Contractor through its working supervisor.
- (m) **MATERIALS TESTING:** All materials supplied by the Contractor for this Contract are subject to the physical sampling and written certification requirements of FORM 817.
- (n) **EQUIPMENT REQUIREMENTS:** The equipment and tools listed on Exhibit B, Price Schedule under the title: Rental of Bridge Repair Units Work Description, must be available to the Contractor at all times while providing Services. The equipment and tools do not have to be on the job site every day unless they are necessary to properly complete the services required. Equipment will only be paid for the actual hours the equipment is in use.

Equipment must be in safe operating condition at all times during the term of the Contract. In addition to the exercise of any other remedies under the Contract, delays caused by equipment failure or failure of crews to perform Services will result in nonpayment for these hours.

- (o) **EQUIPMENT REGULATIONS:** The Contractor renting or supplying equipment or vehicles is required to have the equipment or vehicles properly equipped for the job. Equipment is to be in compliance with all of the applicable Federal, CTDMV and local regulations at all times during the term of the Contract. All operators of specialized equipment must be properly trained and licensed, i.e. boom operators, etc. at all times during the term of the Contract. Proof of current licensing must be provided promptly upon Client Agency request at any time during the term of the Contract.
- (p) **CT REGISTRATION REQUIREMENTS:** The Contractor must comply with all applicable provisions and regulations outlined in this Contract.
- (q) **EQUIPMENT INSPECTION:** Equipment must be in good operating condition and be available for inspection by a Client Agency inspector at a location within the State prior to the issuance of a purchase order under the Contract. If Contractor's equipment is unavailable for inspection or unable to perform the specified work when inspected, the Client Agency may assign the work to be performed to another contractor.. The Contractor must have the capacity of furnishing the necessary equipment, supplies, etc. for each crew or vehicle required to perform the Services.
- (r) **PREVAILING WAGES:** Utilization of this Contract shall be in accordance with Client Agency funding and its corresponding regulations. Prevailing wage regulations shall be applied as follows:

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When State funds will be used for payment, purchase orders issued for one hundred thousand dollars (\$100,000.00) or higher require the payment of prevailing wages and associated provisions. Purchase orders issued below one hundred thousand dollars (\$100,000.00) do not require payment of prevailing wages and associated provisions.

- (s) **MINIMUM WAGE RATES:** The wages paid to any mechanic, laborer or worker employed in the work contracted to be done shall be at a rate equal to the rate of wages customary or prevailing for the same work in the same trade or occupation and in the area in which this Contract is to be performed. Payment shall be made to each employee engaged in work under this Contract in the trade or occupation listed, not less than the wage rate set by category in accordance with the wage schedules contained herein. In the event it becomes necessary for the Contractor or any Subcontractor to employ any mechanic, laborer or worker in a trade or occupation for which no minimum wage is set forth, the Contractor must immediately notify the Labor Commissioner, who will ascertain the minimum applicable wage rate from the time of the initial employment of the person affected and during the continuance of such employment. Every Contractor or Subcontractor performing work for the Client Agency is subject to the provisions noted herein, as determined by the Labor Commissioner, and shall post the prevailing wages in prominent and easily accessible places at each work site. Information Bulletin #2 regarding CGS § 31-55a is contained herein this ITB. Questions regarding wage regulations should be directed to the State of Connecticut, Department of Labor (“DOL”), Division of Wage and Workplace Standards at 860 263-6790.
- (t) **WAGE REGULATIONS:** This Contract contains wage scales as provided by the DOL. All provisions outlined in these regulations must be respected throughout the life of the Contract including any extensions. During the term of the Contract, the Client Agency will verify that these wage scales are being paid in accordance with CGS § 31. This regulation mandates certified payrolls and a statement of compliance to be submitted on a monthly basis to the Client Agency. The wage utilization of the term “working supervisor” does not exclude the Contractor from paying this position less than the actual work being performed by this person as specified in the prevailing wage scales. The Contractor must return the wage certification promptly upon Client Agency request.

The Contractor shall comply with the provisions of CGS §31-55a, which reads as follows: Each Contractor that is awarded a contract on or after October 1, 2002, for (1) the construction of a State highway or bridge that falls under provisions of Section 31-54 of CGS §, or (2) the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or replay of any public works project that falls under the provisions of Section 31-53 of the general statutes shall contact the Labor Commissioner on or before July 1st of each year, for the duration of such contract, to ascertain the prevailing wages on an hourly basis and the amount of payment or contributions paid or payable on behalf of each mechanic, laborer or worker employed upon the work contracted to be done, and shall make any necessary adjustments to such prevailing rate of wages

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and such payment or contributions paid or payable on behalf of each employee effective each July 1st.

- (u) **ENVIRONMENTAL COMPLIANCE:** The Contractor is required at all times to be in compliance with the environmental regulations promulgated by the State of Connecticut, Department of Energy and Environmental Protection ("DEEP"). During any period that a Contractor is found to be in noncompliance, no new purchase orders will be issued. The Contractor shall comply with Section 1.07.16 and 1.10.13 of the FORM 817 as such sections may be amended or superseded and the Client Agency's Best Management Practices referenced in this Contract.

- (v) **TRAFFIC CONTROL:** When Item number 18 on Exhibit B, "Traffic Control for Bridge Repair, Provided by Contractor" is used, the Contractor shall be responsible for supplying, erecting, maintaining, moving and removing all signs, sign supports, barricades, traffic cones, traffic delineators, and any other materials necessary as set forth in the provisions of the "Work Zone Traffic Control Operations" guidelines attached to this Exhibit as Attachment 4 as such guidelines may be amended or superseded. The Contractor shall furnish all lighting to illuminate the work area and provide illumination for traffic control and signing operations. If night work is performed utilizing traffic control, the Contractor is responsible for providing bright wide angle retro-reflective sheeting signage in accordance with FORM 817 Section M.18.09.02 as amended or superseded.

On projects utilizing uniformed police officers, Client Agency's district personnel shall determine the type of traffic personnel and the number of officers required at the pre-construction meeting.

- (w) **PRICING FOR CONTRACTOR FURNISHED TRAFFIC CONTROL:** Prices for traffic control are being requested for both Limited Access Highways and Non-Limited Access Highways. The price for traffic control are broken out by districts under Exhibit B, Price Schedule Item number 18A, Limited Access Highways and 18B, Non-Limited Access Highways. Limited Access Highways are defined as those that the Client Agency Commissioner, with the advice and consent of the Governor and the Attorney General, designates as limited access highways to allow access only at highway intersections or designated points.

Traffic Control Items A through E on Exhibit B, Price Schedule, are to be bid on an hourly rate. The Client Agency will pay the rate offered for half (1/2) hour increments and will be classified as set up and removal where traffic control is required. Traffic Control Items F through K on Exhibit B, Price Schedule, will be paid for actual hours used. Crash units without operators when unit is idling with lights flashing will be paid for between the setup / breakdown time.

The cost of providing traffic controls is a factor in determining the lowest priced Contractor for each order. The pricing shall be adhered to throughout the term of this Contract.

If CT State Police are utilized as traffic personnel, the Client Agency will reimburse the State of CT, Department of Emergency Services and Public Protection ("DESPP") directly for all approved work

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performed by CT State Police Officers. The Contractor will be responsible for measuring and invoicing the Client Agency for the services provided by each CT State Police Officer.

Payments for CT State Police Officers utilized by the Contractor for its convenience, and not approved by Client Agency engineer, is the responsibility of the Contractor. No separate payment item for CT State Police Officers is included in this Contract.

If Uniformed Flaggers are required by the Client Agency, they will be paid at the rate indicated on Exhibit B, Price Schedule, Item number 18G.

If Uniformed Police Officers are utilized as traffic personnel, they will be paid at the rate indicated in Exhibit B, Item number 18K.

(x) TECHNICAL REQUIREMENTS: Traffic personnel are to be trained in the proper performance of their duties.

- 1. Uniformed Flaggers:** Uniformed Flaggers must have successfully completed a flagger training program from the American Traffic Safety Services Association, National Safety Council or other approved programs. A copy of the Uniformed Flagger's training certificate must be provided to the Client Agency's representative before the Uniformed Flagger performs any work on the project. Uniformed Flaggers shall wear garments (including high visibility headgear) so as to be readily distinguishable as a flagger, in accordance with Standard 6E-e of the Manual of Uniform Traffic Control Devices ("MUTCD") published by the Federal Highway Administration ("FHWA"). Each Uniformed Flagger shall also be equipped with a STOP/SLOW paddle that is at least eighteen inches (18") in width with letters at least six inches (6") high and conforms to Standard 6E-4 of the MUTCD.

Traffic control shall be performed in accordance with "Traffic Control During Highway Maintenance" including the general notes for traffic control and traffic control plans as applicable and conform to National Cooperative Highway Research Program ("NCHRP") Report 350 (TL-3).

The Contractor will be responsible for the scheduling and payments of Uniformed Flaggers used for traffic control.

- 2. Uniformed Police Officers:** Uniformed Police Officers must be sworn municipal police officers or uniformed constables. Their services must include an official municipal police vehicle when requested by the Client Agency.

Uniformed Police Officers shall wear a high visibility safety garment that complies with OSHA, MUTCD, ASTM Standards provided by their law enforcement agency. If no high visibility safety garment is provided, the Contractor shall provide the law enforcement personnel with a garment meeting these requirements.

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The Contractor shall schedule and pay Uniformed Police Officers used for traffic control.

- 3. CT State Police Officers:** CT State Police Officers shall be uniformed off-duty sworn CT Police Officers. Their services shall include the use of official CT State police vehicles and associated equipment. CT State Police Officers with official CT State police vehicles must be used at locations and for periods of time as the Client Agency engineer deems necessary.

CT State Police Officers shall assist in implementing the traffic control specified Attachment 4 or as directed by the Client Agency engineer. The Contractor is not to direct CT State Police Officers assigned to a work site.

The Contractor shall hire and schedule CT State Police Officers if the Client Agency determines CT State Police Officers are required to be utilized as traffic personnel and approval is given by the Client Agency engineer. The Client Agency will reimburse DESPP directly for approved work performed by CT State Police Officers. Payments for CT State Police Officers utilized by the Contractor for its convenience and not approved by the Client Agency engineer, is the responsibility of the Contractor. No separate payment item for CT State Police Officers is included in this Contract.

- (y) GEOGRAPHICAL LIMITS:** The geographical limits of each district are outlined on the CT State map marked "Attachment 5" to this Exhibit A.
- (z) CALL BEFORE YOU DIG ("CBYD") – EXISTING CONDITIONS:** Before any construction is performed, the Contractor shall contact CBYD at 800-922-4455 to obtain a request number and the names of the utility companies that are being notified. The request number expires in thirty (30) calendar days. The Contractor shall maintain an active request number. The Contractor will locate all known utilities prior to work and will repair/replace all damage done to known utilities at no cost to the Client Agency.
- (aa) SAFETY EQUIPMENT:** All personnel participating in this Contract must wear all safety equipment as required by OSHA Standard 20 CFR 1926.28(a) and as required by any railroad entity in whose right-of-way work is performed.
- (bb) BRIDGE REPAIR UNIT:** Equipment specified as part of the bridge repair unit on Exhibit B, Price Schedule, must be available for use at all times. Comparison of manufacturers' model designations and unit capabilities will be referenced through the latest edition of the "Rental Rate Blue Book" published by Equipment Guide Book Company, Palo Alto, California.
- (cc) CERTIFICATION:** It is the Contractor's responsibility to ensure that all persons engaged in work under this Contract in a classification that requires special certifications or licenses, such as welders, divers, electricians, boom operator, truck operators requiring a CDL, etc., possess valid special licenses or certificates. A sufficient number of licensed/certified operators must be present

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on the job site to operate any necessary equipment without interruption to the job. Underwater divers shall possess commercial diving licenses as required by OSHA requirements, 20CFR, PART1 910.

- (dd) EXTENUATING CIRCUMSTANCES:** Extenuating circumstances which affect work performed and payments: No payment will be made by the Client Agency for rentals of equipment "Operated by the Contractor" or for Services, when work cannot be performed due to extenuating circumstances or adverse weather conditions as determined by the Client Agency, and the Contractor is given adequate notification of the temporary shutdown of work. The term adequate notification will be discussed and agreed upon by the Client Agency and the Contractor, prior to work, at the pre-construction meeting.

No payment will be made by the Client Agency for rental of equipment "Operated by Contractor", services or traffic control (i.e. CT State/Uniformed Police Officers) if the Contractor cancels for the day.

When hourly work is already started by the Contractor, and it has been canceled by the Client Agency because of extenuating circumstances or adverse weather conditions, the Contractor will be paid for the actual hours worked subject to a minimum of four (4) hours at the applicable rate.

- (ee) CONTACTING A CONTRACTOR:** A period of two (2) consecutive days or forty-eight (48) hours, Saturday and Sunday excluded, will be the time limit for attempting to contact the lowest awarded contractor for a particular job prior to contacting the next lowest awarded contractor. The availability of a Contractor to start work when requested, normally within five (5) working days after receiving notification of the purchase order number, will be considered when selecting the "lowest available qualified contractor" for a project. The time limit may be extended at the discretion of the Client Agency. Another factor to be considered when selecting the "lowest available qualified Contractor" will be the ability of the Contractor to have equipment listed on Exhibit B, available for the required work.

- (ff) EXCEPTIONS FOR EQUIPMENT:** It is the intent of the Client Agency to solicit bids for as many pieces of equipment as possible, however, if a Contractor is working on a project and additional unanticipated equipment is required, the Client Agency may request the existing Contractor to provide additional acceptable pieces of equipment at which time no further bids will be solicited. Charges for such equipment may be invoiced under the terms of this Contract, provided Client Agency is advised in writing and Client Agency accepts and authorizes these charges prior to any use.

In the event that the on-site Contractor cannot fulfill the unanticipated needs, the Client Agency reserves the right to contact the next lowest awarded contractor to provide the additional acceptable equipment. Charges for such equipment will be in accordance with the methods listed within this Contract. It is the intent of the section to allow the Client Agency to complete products

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in the most expedient manner possible. Efforts will be made to use the Contractor whenever and wherever possible.

(gg) EXPIRATION OF CONTRACT/CONTINUANCE OF WORK UNTIL COMPLETION: In the event the Contract period expires and the awarded Contractor has not completed projects that are underway, the Client Agency may allow or require the Contractor to complete these projects if the following conditions are met:

1. Prices bid under the original Contract remain in effect until all work is completed.
2. All other contractual obligations and conditions remain the same, including insurance requirements, bonding requirements, and prevailing wage scales, if applicable.

2. WORK DESCRIPTION:

(a) **CONCRETE, COMPLETE-IN-PLACE:** Removal and replacement of deteriorated concrete and reinforcing steel. This includes any incidental preparatory work, set-up, and completion as required (i.e., staging, forming, disposal of removed debris to a Client Agency designated fill site, mixing and pouring concrete, placing protective coating, curing blankets, etc.). This work also includes in-situ testing of concrete.

The Contractor shall furnish all necessary transportation of personnel, materials and hardware to construct and install forms, and all equipment to satisfactorily and safely complete the work including but not limited to:

1. Compressors,
2. Jack hammers, pavement breakers,
3. Access and manlift/scissor lift equipment (Specialized access equipment such as snoopers and Moog lifts are not be considered incidental to the work, but if required, and as approved by Client Agency, will be compensated for as detailed on Exhibit B, Item number 20),
4. Concrete mixer,
5. Generators,
6. Ladders,
7. Required hand tools and small power tools (i.e. hammers, saws, drills, wheelbarrow, shovels, wrenches, pry bars, brushes, etc.) and
8. Scaffolding 40 ft. high x 40 ft. long x 5 ft. wide complete.

Reinforcing steel, sandblast material, wire mesh, protective coating, and expansion joint material, will be furnished by the Client Agency to the Contractor. The Client Agency reserves the right to supply the concrete to the Contractor or to have the Contractor supply the designated concrete material, which shall be paid for as detailed on Exhibit B, Item number 4. The Contractor is

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responsible for picking up and transporting both Contractor supplies and Client Agency supplied material to the job site.

The Contractor shall perform in-situ testing of concrete to be incorporated into the works. The Contractor's personnel performing the testing shall be certified by the ACI as a Field Testing Technician – Grade I or equivalent. Testing must include determination of the sample's temperature, slump taken in accordance with ASTM C143, determination of air content in accordance with ASTM C231, and concrete test cylinders made in accordance with ASTM C31. The dimensions, type of cylinder mold, number of cylinders, and method of curing must be as directed by the Client Agency engineer. After initial curing, the test specimens will be transported by Client Agency personnel to the Client Agency Division of Material Testing for strength evaluation.

The Contractor is required to submit price per cubic foot. The cubic foot rate is to include the labor, tools, equipment, all aspects of the in-situ concrete testing, transportation, disposal of removed debris to a Client Agency designated fill site and the Contractor supplied materials (other than concrete paid for elsewhere herein) necessary to complete the work, in place.

When there is no Client Agency designate fill site, the Contractor shall submit a proposed disposal location of the Client Agency engineer for review. Disposal will be paid per cubic foot for only when there is no Client Agency designated fill site.

- (b) **CONCRETE REPAIRS – HOURLY:** Removal and replacement of intricate and /or ornamental concrete, rebar, joint material (may also include minor structural steel work) to include incidental preparatory work, in-situ concrete testing, setup and completion as required (i.e., setting up staging, mixing and pouring concrete, disposal of removed material to a Client Agency designate fill site, placing protective coating, curing blankets, etc.).

The Contractor shall furnish the necessary materials and hardware to construct and install forms plus the necessary equipment and transportation of personnel or materials that would be required to satisfactorily complete the repairs.

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced in bridge repair),
2. One (1) ACI certified Field Testing Technician – Grade I or equivalent,
3. One (1) ton capacity pickup truck,
4. One (1) 5-8 c.y. capacity dump truck,
5. One (1) air compressor – capable of delivering a minimum of 250 cfm @ 100 psi,
6. Three (3) pavement breakers and/or jack hammers with points and/or spades and/or rock drills as required,
7. Six (6) 50-foot sections of air hose,
8. One (1) blow-pipe or nozzle,
9. Four (4) chipping guns with points as required,
10. One (1) reinforced rod bender (#4 to #6 rod),

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11. One (1) concrete mixer 6 cu. Ft. minimum capacity,
12. One (1) 3500 watt generator,
13. One (1) portable 250 gallon minimum capacity water tank,
14. One (1) concrete cut-off saw with 14 inch blade,
15. One (1) standard concrete vibrator with 14 ft. shaft (minimum),
16. Two (2) ladders 32 ft. minimum,
17. One (1) 150 lb. Sandblast unit with 100 ft. of hose and nozzles as required,
18. Required hand tools and small power tools (i.e. hammers, saws, drills, wheelbarrow, shovels, wrenches, pry bars, brushes, etc.),
19. Scaffolding 40 ft. high x 40 ft. long x 5 ft. wide complete,
20. Rigging and
21. Fuel.

Reinforcing steel, sandblast material, wire mesh, protective coating, and expansion joint material, will be furnished by the Client Agency to the Contractor. The Client Agency reserves the right to supply the concrete to the Contractor or to have the Contractor supply the designated concrete material, which will be paid for as detailed on Exhibit B, Item number 4. The Contractor is responsible for picking up and transporting both Contractor supplies and Client Agency supplied material to the job site.

Forms, braces, minor cribbing and curing mats will be furnished by the Contractor as no additional cost to the Client Agency.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include the labor, tools, equipment, all aspects of the in-situ concrete testing, transportation, disposal of removed debris to a Client Agency designated fill site and the Contractor supplied materials necessary to complete the work.

When there is no Client Agency designate fill site, the Contractor shall submit a proposed disposal location of the Client Agency engineer for review. Disposal will be paid per cubic foot for only when there is no Client Agency designated fill site.

- (c) **DECK, COMPLETE-IN-PLACE:** Removal and replacement of unsound bridge deck areas to include any incidental preparatory work, set-up, and completion as required (i.e. setting up, mixing concrete using a Zim mixer or method of equivalent production, as approved by the Client Agency engineer, pouring concrete, curing, disposal of removed material to a Client Agency fill site, etc.).

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The removal and replacement of any existing overlay will be paid for as set forth on Exhibit B, Item number 3B except when the patch is to be filled to the top of the wearing surface, then the patch will be measured as complete in place and there will be no separate payment for the bituminous removal.

The Contractor shall furnish all necessary transportation of all personnel, all materials and hardware necessary to construct and install forms and all necessary equipment to satisfactorily and safely complete the work (including, but not limited to):

1. Cut-off saws,
2. Compressors,
3. Jack hammers, pavement breakers,
4. Concrete mixer (Zim mixer or method of equivalent production),
5. Concrete vibrator,
6. Access and manlift/scissor lift equipment (specialized access equipment such as snoopers and Moog lifts are not be considered incidental to the work, but if required , and as approved by Client Agency, will be compensated for as detailed on Exhibit B, Item number 21),
7. Ladders and
8. Required hand tools and small power tools, (i.e. hammers, saws, drills, wheelbarrows, shovels, wrenches, pry bars, brushes, etc.).

Reinforcing steel, sandblast material, wire mesh, protective coating and expansion joint material will be furnished by the Client Agency. The Client Agency reserves the right to supply the concrete to the Contractor or have the Contractor supply the designated concrete material which will be paid for as detailed on Exhibit B, Item number 4. The Contractor is responsible for picking up and transporting both Contractor supplied and Client Agency supplied material to the job site.

Payment limits for this item will be measured from the concrete deck level and down, or as determined by the Client Agency engineer, over the horizontal limits of concrete removed.

The Contractor is required to submit price per cubic foot. The cubic foot rate is to include the labor, tools, equipment, transportation, disposal of removed debris to a Client Agency designated fill site and the Contractor supplied materials necessary to complete the work, in place.

When there is no Client Agency designated fill site, the Contractor shall submit a proposed disposal location to the Client Agency engineer for review. Disposal will be paid per cubic foot for only when there is no Client Agency designated fill site.

- (d) **BRIDGE REPAIR BY CONTRACT: Patchwork Wearing Surface Removal/Replacement, Complete-In-Place, Operated by Contractor:** Removal and replacement of bridge deck wearing surfaces in conjunction with Exhibit B, Item number 3A to include saw cutting the surface at the limits of the areas where the wearing surface is to be removed, removal of the bituminous wearing surface by a

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method acceptable to the Client Agency engineer, removal of any membrane waterproofing present to allow unhindered sounding of the concrete deck, subsequent disposal of the removed material to a Client Agency designate ill site, and reinstallation, placement, and compaction or consolidation of the wearing surface material.

The Contractor shall furnish all transportation, tools, equipment, and materials necessary to satisfactorily and safely complete the work, including but not limited to:

1. Cut-off saw,
2. Jack hammers, pavement breakers,
3. Compressors,
4. Rollers (tamper and plate compactors are not satisfactory),
5. Concrete mixer and
6. Concrete vibrator, etc.

The replacement material as designated by the Client Agency engineer, for this work must be supplied by the Contractor and will be paid for as detailed on Exhibit B, Item number 4. The Client Agency reserves the right to supply the concrete and/or bituminous concrete to the Contractor in which case the Contractor shall pick up and transport the material to the job site.

- The installation of bituminous material must be performed in accordance with HMA S0.50 and HMA S0.375 inch bituminous as described in attachment marked "Attachment 3".
- The installation of Portland cement-based material must be performed in accordance with the applicable section of FORM 817.

Work will be measured for payment on a square yard basis, irrespective of the depth of the overlay to be removed, computed from in-place length and width measurements and includes all work to remove and dispose of the existing material and install the replacement material (excluding the material cost).

The Contractor is required to submit price per square yard.

When there is no Client Agency designated fill site, the Contractor shall submit a proposed disposal location to the Client Agency engineer for review. Disposal will be paid per cubic foot for only when there is no Client Agency designated fill site.

- (e) **BRIDGE REPAIR BY CONTRACT: Material for Concrete Repair, Supplied by Contractor:** Work under this item is limited to the furnishing of the material specified to be used by the Client Agency engineer. The cost of all work required to install the material (i.e. –forming, mixing, placement, preparation of crack/joints, special installation equipment, and subsequent curing of cementitious material or compaction of bituminous material), must be paid for under other applicable items. Materials required:

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1. Class 'A' concrete: 3,000 psi mix as specified in FORM 817,
2. Class 'F' concrete: 4,000 psi mix as specified in FORM 817,
3. Class 'S' concrete: 4,000 psi mix as specified in Section M.03 of Material Requirements, marked "Attachment 2",
4. Rapid set: as specified in Section M.03 of Material Requirements, marked "Attachment 2",
5. HMA S0.50 inch bituminous: as specified in Section M.04 of Material Requirements, marked "Attachment 3",
6. HMA S0.375 inch bituminous: as specified in Section M.04 of Material Requirements, marked "Attachment 3",
7. Hot-tar pourable sealant: as specified in "Attachment 2",
8. Self-leveling cold applied sealant: as specified in "Attachment 2" and
9. Controlled low strength material: as specified in "Attachment 2".

Concrete: The cubic yard rate is for material costs only. Quantity is computed from actual measurements taken of the area to be filled.

Bituminous: The tonnage rate is for material cost only. Payment is for actual amount used as noted on weigh slips accompanying delivery of material (minimum payment of 1 ton will be allowed).

Sealants: The payment rate noted is for the sealant material cost only, any required primer, backer rod, cover material (i.e. Black Beauty or sand), etc. is considered included in the general cost of the work. Payment is for actual amount of material that can be verified by Client Agency personnel as incorporated in the work (i.e. number of 902RCS, "sausage" paks, 999 sealant tubes and containers of hot-tar sealant).

(f) **DECK CLEANING – Complete, Operated by Contractor:**

1. **REMOVAL OF WEARING SURFACE:** for situations where the existing bituminous overlay has not previously been milled or altered from normal road-use conditions.
2. **CLEAN AND SCRAPE MILLED BRIDGE DECK:** for situations where the existing bituminous overlay has been milled (through a reduced layer of bituminous may still exist).

Removal of all material from the surface of an existing concrete bridge deck. Work will include the removal of bituminous material, Asphaltic Plug Joint material including the metal plate, membrane waterproofing, loose material in deck joints, and removal of any sealant up the curbline to provide a clean, bare concrete deck for subsequent work. It shall also include any incidental preparatory work, set up, and all the necessary equipment, and transportation of personnel or materials that would be required to satisfactorily complete the deck cleaning.

The Contractor is responsible for the removal of bituminous material and miscellaneous debris from the work site to a Client Agency designated fill site. When there is no Client Agency

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designated fill site, the Contractor shall submit a proposed disposal location to the Client Agency engineer for review. Disposal will be paid per cubic foot based on test pits taken by the Contractor prior to its removal for only when there is no Client Agency designated fill site.

Any and all equipment necessary to perform the work shall be at no additional cost to the Client Agency, but shall be included in the bid price for the applicable item.

Methods of removal may utilize pneumatic hammers with spade bits, scraping using skid steer or payloader buckets, scraping using road graders, or scraping using hand tools. Any removal method must not remove concrete from the deck surface. The Client Agency engineer must approve all removal methods before the commencement of work. After all material has been removed from the concrete deck, the deck must be blown clear through use of compressed air.

This work will be measured for payment by the number of square yards of deck area cleaned. Removing Asphaltic Plug Joint material, including metal plate, removal of loose material in deck joints, and removal of sealant up the curblin will not be measured for payment, but the cost will be included in the price detailed on Exhibit B, Price Schedule, for "Clean and Scrape Milled Bridge Deck" or "Removal of Wearing Surface".

The Contractor is required to submit price per square yard. The square yard rate is to include the labor, tools, equipment, transportation and the Contractor supplied materials necessary to complete the work in place.

- (g) **DRAINAGE, REPAIR/REPLACE – Hourly:** Corrective work to bridge drainage systems (repair and/or replace) to include incidental preparatory work, setup and completion as required (i.e. setting up staging, lifting and positioning drainage elements, etc.). The Contractor shall furnish all necessary materials plus the necessary equipment and transportation of personnel or materials that would be required to satisfactorily complete the repairs.

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced in bridge repair),
2. One (1) ton capacity pickup truck,
3. One (1) 5-8 c.y. capacity dump truck,
4. One (1) 200 amp @ 28 volts (minimum with 110v/30a tap) welder, self-powered, portable with two (2) 100 ft. leads, and rods as required,
5. One (1) 3500 watt generator,
6. One (1) each (minimum) power grinder (with stones), power drill (with bits), power wire brush (with brushes),
7. One (1) set of welding and/or cutting torches with necessary tips, hoses (100 ft. minimum), tanks and fuel,
8. Equipment for moving, lifting and positioning drainage elements,

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9. One (1) air compressor, capable of delivering a minimum of 250 cfm @ 100 psi,
10. Six (6) 50 ft. sections of air hose and one (1) pneumatic drill,
11. Required hand tools and small power tools, (i.e. hammers, saws, drills, wheelbarrows, shovels, wrenches, pry bars, brushes, etc.),
12. Ladders,
13. Scaffolding,
14. Rigging and
15. Fuel.

Replacement piping (fiberglass, steel, cast iron, PVC), fittings and hardware, primer/glue and welding rod is to be furnished to the Contractor by the Client Agency. The Contractor is responsible for picking up this material and transporting the material to the job site.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include the labor, tools, equipment, all aspects of the in-situ concrete testing, transportation, disposal of removed debris to a Client Agency designated fill site and the Contractor supplied materials necessary to complete the work.

- (h) **DRAINAGE, CLEANING – Hourly:** Cleaning of bridge drainage systems to include incidental preparatory work, setup and completion as required (i.e. setting up staging, lifting and positioning drainage elements, etc.).

The Contractor will supply the first tank of water (with subsequent refills to be supplied by the State at the nearest maintenance facility) and all necessary equipment and transportation of personnel that would be required to satisfactorily complete the work. Traffic control will be supplied and paid as detailed in Exhibit B, Item number 18.

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced in bridge repair),
2. Vac-All or approved equal with various lengths of piping and capable of holding 5-10 cubic yards,
3. One (1) 3500 watt generator,
4. High-pressure pipe cleaning unit with 500 ft. of hose,
5. One (1) 1500 gallon (minimum) water tank,
6. One (1) 100 ft. (minimum) power snake,
7. Required hand tools (i.e. brooms, shovels) and
8. Fuel.

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Minimum crew size: Three (3) Workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include tools, equipment, transportation and the Contractor supplied materials necessary to complete the work.

(i) **JOINT AND CRACK SEAL – Hourly:**

1. HOT TAR POURABLE SEALANT

2. SELF-LEVELING COLD APPLIED SEALANT

Resealing of bridge deck joints and/or cracks with a hot tar pourable sealant or a self-leveling cold-applied sealant, as determined by the Client Agency. Includes any incidental set-up, preparatory work (clean-out of joint area, sandblast, priming, etc.), application of sealant, and repairs to bituminous as necessary to complete.

The Contractor shall supply all necessary equipment, materials, and transportation to satisfactorily complete the repairs as described in Attachment 2 for sealant and backer rod material specifications. The Client Agency reserves the right to supply the materials necessary for installation or to require the Contractor to supply sealant and all materials associated with the sealant installation, included but not limited to backer rod, primer, hot-tar cover material (Black Beauty, limestone, or approved cover material) and will be included in the sealant payment unit detailed on Exhibit B, Item number 4.

Bituminous concrete for patching will be supplied by the Contractor and be paid for separately as detailed on Exhibit B, Item number 4.

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced in bridge repair),
2. One (1) ton capacity pickup truck and
3. One (1) air compressor, capable of delivering a minim of 250 cfm @ 100 psi including 50 ft. sections of air hose and blow pipe.

The price for Hot Tar Pourable Sealant includes Tar Kettle (oil filled, double wall, thermostatically controlled with agitating pressure applicator) and equipment to transport it. The price for Self-Leveling Cold Applied Sealant includes Dual Sausage Pneumatic Gun.

Minimum crew size: Three (3) Workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

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The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include tools, equipment, transportation and the Contractor supplied materials necessary to complete the work.

- (j) **MUDJACKING:** Mudjacking units shall include the layout, mudhole drilling, jacking, joint sawing when required, hole plugging, panel blemish repair and clean-up required to level and repair sidewalk stones as marked in the field. Slabs shall be raised to the required elevation and pitched as directed by the Client Agency engineer. If required, sawcuts shall be made at sidewalk joints to allow free movement of the slab. Any sawcutting required shall be included in the mudjacking price. Any slab cracked due to the drilling, excessive jack pressure, or tamping will be the responsibility of the Contractor and shall be replaced at its expense. "Mud" for slabjacking must be mixed with a proportion of cement to soil mixture not less than 1 to 7. Sufficient water must be added to provide a workable consistency. Material, once mixed must be utilized within one (1) hour. Hole patching mortar must be made with 3 parts Type 1A Portland cement and 1 part mason sand.

Materials to be used are as follows:

Dry Soil Mixtures: The dry soil mixture shall contain the following items in the following proportions:

- LIME 35 %
- SAND 15 %
- GROUND CLAY 50 %

Cement: Portland cement to be used in mudjacking must conform to ASTM C150 as amended to date. Cement to be used in mudjacking must be Type 1A Portland cement.

Water: Water used must be potable, and supplied by the Contractor.

Patching: Patching mortar must be made with 3 parts Type 1A Portland cement and 1 part mason sand.

In lieu of the above mixtures, the Contractor may substitute alternate mixtures, subject to the approval of the Client Agency engineer prior to the use of alternate mixtures.

Method of Measurement and Basis of Payment: Sidewalk mudjacking will be measured by the square yards for panels requiring less than a 2 inch lift and by the cubic yard for panels requiring over a 2 inch lift.

The Contractor is required to submit price per unit at a square yard and cubic yard rate. The square yard and cubic yard rate is to include the labor, tools, equipment, transportation and the Contractor supplied materials necessary to complete the work, in place.

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- (k) **STRUCTURAL STEEL REPAIR – Hourly:** Corrective work on steel members of bridges, joints, bearings, railing and repair of overhead sign supports (minor painting may be required) to include incidental preparatory work, setup and completion as required (i.e. setting up staging, bridge jacking).

The Contractor shall furnish all necessary materials plus the necessary equipment and transportation of personnel or materials that would be required to satisfactorily complete the repairs.

The Contractors are required to comply with OSHA Lead Standard (29 CFR 1926.62).

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced in bridge repair),
2. One (1) ton capacity pickup truck,
3. One (1) 5-8 c.y. capacity dump truck,
4. One (1) 200 amp @ 28 volts (minimum with 110v/30a tap) welders, self-powered, portable with two (2) 100 ft. leads and rods as required; one (1) each (minimum) power wire brush (with brushes),
5. One (1) set of welding and/or cutting torches with necessary tips, hoses, (100 ft. minimum) tanks and fuel,
6. One (1) Skidmore-Wilhelm calibrator or equal bolt tension-indicating device,
7. Two (2) hydraulic jacks 100 ton minimum with pumps,
8. One (1) air compressor, capable of delivering a minimum of 250 cfm @ 100 psi and to include two (2) needle scalers,
9. Six (6) 50 ft. sections of air hose, and one (1) blow-pipe or nozzle; two (3) chipping hammers (15# max) with points as required; one (1) rock drill,
10. One (1) Reinforcing rod bender, #4 to #6 rod,
11. One (1) welding rod oven,
12. One (1) manifold jacking system with (10) 150 –ton jacks & necessary hoses,
13. One (1) reciprocating saw, self-powered with blades,
14. One (1) 150 lb. sandblasting unit with 100 ft. hose nozzles as required,
15. One (1) 3500 watt generator; grade “D” air-supplied respirators with necessary power source, minimum for two (2) workers; Air/Gas Monitor in compliance with OSHA regulations,
16. Required hand tools and small power tools, (i.e. hammers, saws, drills, wheelbarrows, shovels, wrenches, pry bars, brushes, etc.),
17. Minimum two (2) ladders 32 ft.,
18. Scaffolding, (minimum 40 ft. high x 40 ft. long x 5 ft. wide-complete),
19. Rigging,
20. Fuel and
21. One (1) magnetic anchored drill with the necessary bits.

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Minor painting of affected areas may be required. Removal of paint and painting under the terms of this item will only be incidental to bridge repairs. Removal of paint in order to make structural steel repairs and/or modifications involving only touch-up (paint) of the area where the paint was removed to do the repair and/or modification will be allowed without a Contractor holding a Q-1 or QP-2 certification from the Structural Steel Painting Council ("SSPC"). Examples are: Removal of paint from areas of steel bearings, diaphragms, beams and other structure. Waste materials must be collected and placed in containers provide by the Client Agency. The Contractor is prohibited from removing and disposing of such materials from the work site.

Forms, braces, minor cribbing and curing mats will be furnished by the Contractor at no additional cost to the Client Agency.

Steel and the required hardware, reinforcing, sandblast material and paint will be furnished by the Client Agency to the Contractor. The Contractor is responsible for picking up the material and transporting the material to the job site.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include, tools, equipment, transportation, and the Contractor supplied materials necessary to complete the work.

- (I) **STRUCTURAL STEEL, CLEANING AND PAINTING – Hourly:** Work under this item consists of paint removal and field painting of existing steel members at designated locations. The work includes containment systems, paint removal, collection of paint and associated debris, surface preparation and field painting.

The Contractor shall furnish all necessary materials plus the necessary equipment and transportation of personnel or materials that would be required to satisfactorily complete the repairs.

The Contractor is required to comply with OSHA and DESPP regulations and must have a valid QP 2 certification from the SSPS, Painting Contractor Certification Program ("PCCP").

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced in bridge painting),
2. One (1) ton capacity pickup truck,
3. One (1) 5-8 c.y. capacity dump truck,
4. One (1) air compressor, capable of delivering a minimum of 250 cfm @ 100 psi and to include two (2) needle scalers,

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5. One (1) 3500 watt generator; grade "D" air-supplied respirators with necessary power source, minimum for two (2) workers; air/gas monitors in compliance with OSHA regulations,
6. Required hand tools and small power tools (i.e. hammers, saws, drills, wheelbarrows, wrenches, pry bars, rollers, brushes, etc.),
7. Minimum two (2) ladders 32 ft.,
8. Scaffolding, (minimum 40 ft. high x 40 ft. long x 5 ft. wide-complete),
9. Rigging and
10. Fuel.

The locations of the paint removal and field painting must be reviewed and accepted by the Client Agency engineer prior to any commencement of the work.

The method for the paint removal must conform to SSPC-SP 2 & SSPC-SP 3. The containment for paint removal and collection of debris shall be designed to collect all debris from the paint removal operations.

All of the debris, rust and paint chips resulting from the paint removal operations must be stored in leak proof storage containers provided by the Client Agency at the project site. Storage containers shall be placed on pallets and closed and covered with tarps at all times except during placement, sampling, and disposal of the debris. The location of the storage area must be approved by the Client Agency engineer. The Contractor is prohibited from removing and disposing materials from the work site.

The method for the application of field painting must be by brush and roll equipment. The containment for paint application must consist of drop clothes, tarps, etc. The paint will be furnished by the Client Agency. The Contractor is responsible for picking up the supplied material and transporting the material to the job site.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge painting), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include the labor, tools, equipment, pallets, tarps, transportation and the Contractor supplied materials necessary to complete the work.

- (m) **TEMPORARY FENCE ENCLOSURE – Linear Foot:** Work to include the necessary equipment and personnel to furnish, install and remove temporary fencing used to enclose debris generated from paint removal operations.

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- (n) **HEAVY CARPENTRY – Hourly:** Rehabilitation and/or repair of timber bridge elements to include incidental preparatory work, setup and completion as required (i.e. setting up staging, moving, lifting and position large timbers and beams).

The Contractor will furnish all necessary materials plus the necessary equipment and transportation of personnel or materials that would be required to satisfactorily complete the repairs.

To be accomplished with the minimum of:

1. One (1) Working Supervisor (experienced in bridge repair),
2. One (1) 3500 watt generator,
3. One (1) ton capacity pickup truck,
4. One (1) 5-8 c.y. capacity dump truck,
5. One (1) air compressor, capable of delivering a minimum of 250 cfm @ 100 psi,
6. Six (6) 50 ft. sections of air hose,
7. One (1) heavy-duty drill with bits,
8. One (1) circular saw with blades,
9. One (1) reciprocating saw with blades,
10. One (1) chain saw,
11. Equipment for moving, lifting and positioning large timbers and beams,
12. Hand tools and small power tools, (i.e. hammers, saws, drills, pry bars, wrenches, clamps, etc.),
13. Ladders,
14. Rigging and
15. Fuel.

Forms, braces, minor cribbing and curing mats will be furnished by the Contractor at no additional cost to the Client Agency.

Planking, roofing materials, lumber and nails will be furnished by the Client Agency to the Contractor. The Contractor is responsible for picking up this material and transporting the material to the job site.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include tools, equipment, transportation and the Contractor supplied materials necessary to complete the work.

- (o) **UNDERWATER CONCRETE – Hourly:** Underwater and adjacent repairs including but not limited to the placing of sacked concrete and/or pressure grouting. Includes incidental preparatory work, set up and completion as required plus furnishing and use of an underwater color video camera (VHS or DVD format) with necessary topside viewing equipment. All materials (except those listed below)

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plus the necessary equipment and transportation of personnel or materials that would be required to satisfactorily and safely complete the repairs will be furnished by the Contractor.

Work performed under this item must conform to OSHA standard 29 CRF 1910.401 – 44, Subpart T (Commercial Diving Operations).

To be accomplished with a minimum of:

1. One (1) Working Dive Supervisor (certified commercial diver trained in the use of surface supplied hardhat diving apparatus, not SCUBA) experienced in bridge repair.
2. Dive equipment must be capable of supplying two (2) surface hardhat supplied divers with adequate air, lighting, hardwire surface communication and necessary thermal protection for year round diving to a possible maximum depth of 100 ft.

Forms, braces, minor cribbing and curing mats will be furnished by the Contractor at no additional cost to the Client Agency.

Concrete bags, sand stone, cement and reinforcing will be furnished by the State to the Contractor. The Contractor is responsible for picking up this material and transporting the material to the job site.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Dive Supervisor (experienced in bridge repair), which is included in this item. The other workers (one of which will be a certified diver) will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include tools, equipment, transportation and the Contractor supplied materials necessary to complete the work.

- (p) **BRIDGE CLEANING: Hourly:** Cleaning of bridges below the deck, of movable bridge components and platforms, and of counterweight pits. Includes incidental preparatory work, setup, collection and disposal of debris, and completion as required (i.e. setting up staging). The Contractor will supply the first tank of water (with subsequent refills to be supplied by the Client Agency at the nearest maintenance facility) and all necessary equipment and transportation of personnel and all materials (such as tarps, plastic sheeting or bags to contain and collect debris) that would be required to satisfactorily complete the work.

The Contractor is responsible for making all necessary arrangements (including dumping permits) for the proper disposal of the collected debris and protection for the workers in accordance with OSHA requirements.

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced and bridge repair and cleaning),
2. One (1) ton capacity pick-up truck,

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3. Required hand tools, (shovels, brooms, etc.),
4. Ladder,
5. Scaffolding,
6. Rigging,
7. Various tools necessary to keep equipment operational and
8. Fuel.

The cost for disposal of any collected debris, including dumping permit fees, will be considered included in the cost of the work and will not be paid for separately. The Contractor is responsible for picking up material and transporting it to the job site on own time and will not be paid for any equipment down time.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include the labor, tools, equipment, transportation and the Contractor supplied materials necessary to complete the work.

- (q) **BRIDGE CLEANING (WASHING) – Hourly:** Cleaning of bridges below the deck, areas must include, but not be limited to, connection panels, bottom flanges, webs, bearings, bridge seats, abutment backwalls, abutment faces, piers and pier caps. Includes incidental preparatory work, setup and completion as required. Cleaning methods shall consist of low pressure, high volume washing not to exceed 300 psi or direct flooding which will be limited to structures with open joints (i.e. finger joints). The equipment for bridge cleaning will be operated at pressures that do not damage the paint or other coatings or permanently mar any concrete surface.

The Contractor shall furnish all necessary equipment, transportation of personnel, and all materials that would be required to satisfactorily complete the repairs.

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced in bridge repair and cleaning),
2. One (1) ton capacity pickup truck,
3. Required hand tools (shovels, brooms etc.),
4. Ladder,
5. Scaffolding,
6. Rigging,
7. One (1) 1500 gallon (minimum) water tank,
8. Self-powered suction pump (2" minimum) with a minimum of 150' length of hose,
9. Various tools necessary to keep equipment operational and
10. Fuel.

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The Contractor is responsible for picking up material and transporting it to the job site on own time and will not be paid for any equipment down time.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Price Schedule, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include the labor, tools, equipment, transportation and the Contractor supplied materials necessary to complete the work.

- (r) **CONCRETE HAUNCH REMOVAL – Linear Foot:** Removal of deteriorate concrete haunches. Includes any incidental preparatory work, setup and completion as required (i.e. setting up staging or use of lift equipment, debris shields, etc.) and disposal of removed debris to a Client Agency designate fill site.

The Contractor shall furnish all necessary transportation, all materials to provide protection shields, and all necessary equipment to satisfactorily and safely complete the work, including but not limited to:

1. Compressors with hoses,
2. Chipping hammers,
3. Access and manlift/scissor lift equipment (Specialized access equipment such as snoopers and Moog lifts shall not be considered incidental to the work, but if required, shall be compensated for as detailed in Item number 21 on Exhibit B),
4. Ladders and
5. Hand tools and small power tools (i.e. hammers, saws, drills, pry bars, wrenches, clamps, etc.).

The Contractor is responsible for the removal of concrete and debris from the worksite to a Client Agency designed fill site. When there is no Client Agency designated fill site, the Contractor shall submit a proposed disposal location to the Client Agency engineer for review. Disposal will be paid per cubic foot based on height and width of the haunch prior to removal for only when there is no Client Agency designate fill site.

No sandblasting or protective coating will be required under this item.

The Contractor is required to submit price per unit at a linear foot rate. The linear foot rate is to include tools, equipment, transportation and the Contractor supplied materials necessary to complete the work, in place.

- (s) **EXCAVATION OF ACCUMULATED SEDIMENTS WITHIN THE LIMITS OF ABRIDGE OR CULVERT-Hourly:** Removal of accumulated sediments within the limits of a bridge or culvert, as directed by

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the Client Agency engineer. Includes labor any incidental preparatory work, setup, transportation, the necessary equipment to complete the work and disposal of removed material to a Client Agency designated fill site.

To be accomplished with a minimum of:

1. One (1) Working Supervisor (experienced in bridge repair),
2. One (1) ton capacity pickup truck,
3. One (1) 5-8 c.y. capacity dump truck and
4. Hand tools and small power tools (i.e. come-along, lifting apparatus, winch necessary for removing accumulated sediments from the bottom of a stream channel within, or immediately adjacent to, the confines of a culvert or under a bridge.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include tools, equipment, transportation and the Contractor supplied materials necessary to complete the work.

When there is no Client Agency designated fill site, the Contractor shall submit a proposed disposal location to the Client Agency engineer for review. Disposal will be paid per cubic foot only when there is no Client Agency designated fill site.

All work must be in full compliance with permit terms and conditions.

- (t) **TRAFFIC CONTROL FOR BRIDGE REPAIR – Provided by Contractor – Hourly:** Unit to include the necessary equipment and personnel to provide traffic control patterns as required and determined by the Client Agency using Attachment 4.

The Contractor shall furnish the following:

1. Materials,
2. Equipment,
3. Personnel and
4. Fuel.

Traffic control will be paid as follows:

- Exhibit B, Item number 18, A-E by half hour ($\frac{1}{2}$) increments and will be classified as setup and removal where traffic control is required;
- Exhibit B, Item number 18, F-K, by half hour ($\frac{1}{2}$) increments for actual hours worked.

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The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include tools, equipment, transportation and the Contractor supplied materials necessary to complete the work:

1. Limited access set up and removal,
 2. Non limited access set up and removal,
 3. Night additional set up and removal,
 4. Saturday additional set up and removal,
 5. Sunday additional set up and removal,
 6. TMA with operator,
 7. Uniformed Flagger,
 8. TMA without operator,
 9. Variable message sign,
 10. Arrow boards (portable) and
 11. Uniformed Police.
- (u) **TEMPORARY PRECAST CONCRETE BARRIER CURB:** Work will consist of furnishing, installing relocating and removing temporary precast concrete barrier curb used to separate traffic from opposing traffic or the work area.
- (v) **TEMPORARY IMPACT ATTENUATOR SYSTEM:** Work will consist of furnishing, installing, removing, repairing and relocating temporary impact attenuation systems and modules of the type and size as directed by the Client Agency engineer.
- (w) **SITE PREPARATION CREW FOR BRIDGE REPAIR – Provided by Contractor – Hourly:** Unit to include the necessary equipment and personnel to provide site preparation work, such as but not limited to brush cutting and removal, sand bagging when required, and land clearing tasks, to provide access to the bridge site. Materials, equipment, such as: lopper, chain saw, weed whacker, brush cutter, rake, shovel, personnel and fuel.
To be accomplished with a minimum of:
1. One (1) Working Supervisor,
 2. Two (2) workers to provide site preparation work, such as brush cutting and removal, sand bagging when required, and land clearing tasks, to provide access to the bridge site, utilizing the equipment detailed above.

Minimum crew size: Three (3) workers. One (1) of the workers is to be the Working Supervisor (experienced in bridge repair), which is included in this item. The other workers will be taken from Exhibit B, Price Schedule, Item number 22, based upon work to be performed.

The Contractor is required to submit price per unit at an hourly rate. The hourly rate is to include tools, equipment, transportation and the Contractor supplied materials necessary as described, site preparation units.

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- (x) **ADDITIONAL EQUIPMENT – Hourly:** See additional equipment Contract terms and conditions as outlined herein. Additional equipment may be awarded at the Client Agency’s discretion.

The Contractor is required to indicate the number and type of units available and to submit price per unit at an hourly rate.

- (y) **ADDITIONAL WORKERS:** Workers will be used to staff the various bridge repair units. See additional worker Contract terms and conditions as outlined herein.

The Contractor is required to indicate the number of workers available by classification and to submit price per worker at an hourly rate.

Divers (Certified): A certified diver is defined as a diver trained in surface supplied air equipment with operational 2-way voice communication and a minimum of 100 hours of construction experience using surface supplied equipment as per OSHA 1910.410.

Welder (State Certified): A certified welder is defined as a person who has passed a welding test approved by the State of Connecticut Materials Testing Division has on his or her possession a current welding card that has the following criteria passed:

- Type of electrode: E7018
- Size of electrode: 1/8 inch
- Position 3G and 4G, unlimited thickness

State Certified Welder will be paid in the trade incidental to the job they are working. When the State Certified Welder is welding on girders and steel beams then he/she will be paid as an iron worker; when welding sheet metal then he/she will be paid as a metal worker.

Welder (State Certified Pipe): A certified pipe welder is defined as a person who has passed a welding test approved by the State of Connecticut, Materials Testing Division that qualifies that welder for structural welding in accordance with the AWS D1.1 code, position 6G. The individual must have on his or her possession at all time, when actively working the subject project/PO, documentation of the pertinent testing requirements and test results for this individual. The qualifications of the independent testing firm, the welder, and the supplied documentation are all subject to review for approval by personnel from the State of Connecticut, Department of Transportation Materials Testing Division.

3. ADDITIONAL TERMS AND CONDITIONS:

(a) Contract Separately/Additional Savings Opportunities

DAS reserves the right to either seek additional discounts from the Contractor or to contract separately for a single purchase, if in the judgment of DAS, the quantity required is sufficiently large, to enable the

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State to realize a cost savings, over and above the prices set forth in Exhibit B, PriceSchedule whether or not such a savings actually occurs.

(b) Mandatory Extension to State Entities

Contractor shall offer and extend the Contract (including pricing, terms and conditions) to political subdivisions of the State (towns and municipalities), schools, and not-for-profit organizations.

(c) P-Card (Purchasing MasterCard Credit Card)

Notwithstanding the provisions of Section 4(b)(2) of the Contract, purchases may be made using the State of Connecticut Purchasing Card (MasterCard) in accordance with Memorandum No. 2011-11 issued by the Office of the State Comptroller.

Contractor shall be equipped to receive orders issued by the Client Agency using the MasterCard. The Contractor shall be responsible for the credit card user-handling fee associated with MasterCard purchases. The Contractor shall charge to the MasterCard only upon acceptance of Goods delivered to the Client Agency or the rendering of Services.

The Contractor shall capture and provide to its merchant bank, Level 3 reporting at the line item level for all orders placed by MasterCard.

Questions regarding the state of Connecticut MasterCard Program may be directed to Ms. Kerry DiMatteo, Procurement Card Program Administrator at 860-713-5072.

(d) Subcontractors

DAS must approve any and all subcontractors utilized by the Contractor in writing prior to any such subcontractor commencing any work. Contractor acknowledges that any work provided under the Contract to any state entity is work conducted on behalf of the Client Agency and that the Commissioner of DAS or his/her designee may communicate directly with any subcontractor as the Client Agency deems to be necessary or appropriate. Contractor shall be responsible for all payment or fees charged by the subcontractor(s). A performance evaluation of any subcontractor shall be provided promptly by the Contractor to DAS upon request.

Contractor must provide the majority of services described in the specifications.

(e) Security and/or Property Entrance Policies and Procedures

Contractor shall adhere to established security and/or property entrance policies and procedures for each requesting Client Agency. It is the responsibility of each Contractor to understand and adhere to

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those policies and procedures prior to any attempt to enter any Client Agency premises for the purpose of carrying out the scope of work described in this Contract.

(f) Badging Requirements for the Connecticut Airport Authority, Bradley International Airport (the Airport)

- (1) All Contractor employees must pass all standard security requirements (based on activity and location) and pass prescribed driver training before entering Bradley International Airport or engaging in any part of the Performance.
- (2) Contractors shall not allow any of their employees to enter the Airport or undertake any part of the Performance unless the employees shall have first been issued an individual, valid, security identification badge which they shall display properly at all times while at the Airport. The security badge will be issued upon the successful completion of a ten year (10) criminal history records check, and Transportation Security Administration Security Threat Assessment and a training/testing program – all administered by Airport personnel. The cost per person is \$50. This charge is subject to change during the term of the Contract. Persons with felony convictions will be evaluated on an individual basis. The Client Agency may, at any time during the term of the Contract and in its sole discretion, modify the criminal history records check, training, testing program, security and badge requirements. The Contractor shall comply with all such modifications.
- (3) The Contractor shall assign at least one individual, but no more than 3 individuals, to act as an Authorized Supervisor for the airport. Prior to starting Performance, Contractors shall direct the Authorized Supervisors to comply with all of the applicable terms and conditions of this Contract, including doing any and all things which the Authorized Supervisors deem to be necessary or appropriate to ensure full Performance.
- (4) Client Agency shall deliver to the Contractors a copy of the applicable requirements of all federal and state regulations governing aviation security activities prior to Contractors starting Performance. Contractors shall comply fully with all of those requirements and regulations and shall ensure the same for all of their employees who will perform in any way.
- (5) The duties of the Authorized Supervisor are to:
 - (A) read, understand and follow fully all of the requirements of all federal and state regulations governing aviation security activities;
 - (B) notify the security badging office or BDL Airport Operations **immediately** of all employee terminations and transfers in writing, which may include via e-mail.

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- (C) return to the security badging office or BDL Airport Operations a termination form with the terminated or transferred employee's security badge along with all other security-related items that had been issued to the employee, including, but not limited to, keys, gate cards and ramp stickers, no later than twenty-four (24) hours after the effective date of the termination or transfer. If the Authorized Supervisor fails to return timely the badge or other security related-item, the Authorized Supervisor shall submit a termination form no later than one (1) week after the effective date of the termination or transfer, along with a written explanation detailing the course of action that has been taken towards retrieving the outstanding item(s);
 - (D) limit the distribution of security related information only to persons with valid, Bradley International Airport security badges and as requested by the Airport Security Coordinator (ASC) or designated representative ;
 - (E) not presign badging applications and complete the entire Authorized Supervisor section of the badging application for all Contractors employees who will Perform under this Contract;
 - (F) report lost or stolen badges in writing immediately to the security badging office and/or Airport Operations on the standard lost/stolen security badge report.
- (6) Contractors shall ensure that the Authorized Supervisors read, understand and follow all of their prescribed such regulations and requirements. Accordingly, prior to starting Performance, and as a condition precedent to any of Contractors' employees being allowed to enter the Airport to Perform, Contractors shall deliver to the Client Agency a document signed by the Authorized Supervisors in the following form:

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- (7) Contractors shall pay the Client Agency a fee of \$100 per unreturned badges for any terminated or transferred employee and reimburse the Client Agency, no later than thirty (30) days after receiving an invoice from the Client Agency, for any applicable federal or state amounts, penalties or both for which the Client Agency may be held responsible resulting from the Contractors' failure to follow fully all of the applicable federal and State regulations and other requirements concerning aviation security activities, including, by way of example, but not by way of limitation, \$100 per unreturned badges for any terminated or transferred employee and up to \$11,000 per occurrence for an individual employee's failure to comply with security regulations (including, by way of example, but not by way of limitation, failure to properly display security badge or failure to control access through a controlled access door with a proximity card reader). If Contractors fail to pay the fee or reimburse the Client Agency timely, the Client Agency may, in its sole discretion, demand, and the Contractors shall, return all of the security badges for all of the Contractors' employees. Consequently, DAS shall, at the Client Agency's request, terminate the Contract as to those Contractors. DAS and the Client Agency will take into account such Termination as an indication of Contractors' not being responsible in future leasing and contracting opportunities.
- (8) The Client Agency may suspend or terminate security privileges of individual employees pending investigation of any individual who is alleged to have violated any security regulations. Security privileges for the Contractor as an entity may also be suspended or terminated for failure to comply with all security regulations.