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## **Definitions of Prequalification Classes of Work for the Highway Division and the Department of Conservation and Recreation**

The following are general definitions of the various classes of work and each classification may include other related work as stipulated in the proposal and must be performed in accordance with all applicable state and federal regulations.

**BRIDGE - CONSTRUCTION:** Construction of any structure whether single or multiple span, that spans a body of water, depression, highway or railway, and affords passage for pedestrians, vehicles of all kinds or any combination thereof, which is greater than 20 feet in length. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction equipment for excavating, grading, lifting and demolition such as loaders, bulldozers, backhoes and cranes.

**BRIDGE - CULVERTS:** Construction and demolition of any structure whether single or multiple span, that spans a body of water, depression, highway, or railway, and affords passage for pedestrians, vehicles of all kinds or any combination thereof, which is less than 20 feet in length. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction equipment for excavating, grading, lifting and demolition such as loaders, bulldozers, backhoes and cranes.

**BRIDGE – DECK REPAIRS:** Repair areas of unsound concrete, remove or repair existing deck joints and guard angles and prepare the deck to receive an overlay. These repairs may be done to any type of deck surface, including but are not limited to epoxy overlays and latex modified concrete overlays. Work may include removing existing unsound deck concrete to any depth including full depth; disposal of excavated deck concrete; and setting form work and replacing the excavated concrete with new concrete to the level of the scarified or existing deck surface in the areas designated. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction equipment for excavation and replacement of concrete such as pavement saws, pavement breakers, hoe-rams, backhoes and loaders.

**BRIDGE - JOINTS:** Construction, repair or replacement of asphaltic bridge joint systems and repair or replacement of other joints in deck slabs. These joints can be simple asphaltic, complex mechanical or elastomeric elements, according to the range of movements to be accommodated. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction equipment for excavation and replacement of concrete such as pavement saws, pavement breakers, hoe-rams, backhoes and loaders.

**CATCH BASIN CLEANING:** Maintenance of catch basins including the removal of trash and sediments collected in the sump using a catch basin cleaner with a clamshell bucket or a vactor truck. Additional general maintenance activities are also included, when necessary, for repairs to the catch basin structures, frames, covers and hoods/traps. Contractors requesting this Class of Work must own or provide evidence of lease agreements for a mounted clamshell bucket and/or a vactor truck, as well as general construction equipment.

**CHEMICAL STORAGE SHEDS:** The construction, repair or reconstruction of salt storage sheds. Contractors requesting this Class of Work must own or provide evidence of lease agreements for erection equipment such as cranes as well as general construction equipment for excavating and grading such as loaders, bulldozers and backhoes.

**CRACK SEALING:** The cleaning and sealing of existing road surface cracks with a liquid bituminous sealant for the purposes of extending the useful life of a road by minimizing water penetration into the roadway base material. Contractors requesting this Class of Work must own or provide evidence of lease agreements for equipment suitable for the work such as blast cleaning equipment and kettles.

**DAM CONSTRUCTION:** The construction, removal, reconstruction or repair of dam structures located on inland waterways, streams, rivers or ponds. Contractors requesting this Class of Work must own or provide evidence of lease agreements for suitable equipment such as barges, cranes, excavators, high capacity pumps, pile driving equipment and timber mats.

**DEMOLITION:** The demolition of bridges, buildings, and related structures, with their supports and foundations by use of mechanical equipment such as hoe rams, loaders, and excavators. This work may also require the use of explosives in certain applications. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction equipment for demolition such as hoe-rams, backhoes and loaders.

**DRAINAGE:** The construction and reconstruction of roadway and recreational facilities drainage systems including excavation for and installation of drainage pipes; catch basins, both precast and cast-in-place; drop inlets; castings and pump stations. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction equipment such as excavators, loaders, backhoes and plate compactors.

**DRAWBRIDGE MAINTENANCE:** Drawbridge maintenance activities include deck sweeping and washing to remove traction material (e.g., sand and salt residue); cleaning of all bridge components (substructure, superstructure and deck); the removal and application of protective coatings; deck wearing surface replacement; removal of debris to protect piers and abutments; repair of structural, electrical, mechanical and hydraulic components of a drawbridge including fender systems, bulkheads, and dolphins. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction and maintenance equipment such as loaders, excavators, sweepers, vac trucks and electrical/mechanical support trucks as well as marine access equipment such as boats and barges,

**DREDGING:** Underwater excavation in lakes, ponds, rivers and oceans by means of large excavators. Contractors requesting this Class of Work must own or provide evidence of lease agreements for suitable dredging equipment such as cranes, drag line excavators and large barges capable of storing large amounts of dredged material.

**DRILLING & BORING:** The taking of geotechnical borings to obtain information on the physical properties of soil and rock. Drilling & Boring may include soil sampling and laboratory tests of the soil samples retrieved. All types of borings, drillings, corings, test pits, ground water observation wellpoints, mobilization/ dismantling of equipment may be required. Contractors requesting this Class of Work must own or provide evidence of lease agreements for appropriate equipment such as drill rigs and coring equipment.

**ELECTRICAL - ALL TYPES - INCLUDING ELECTRICAL MAINTENANCE:** Installation, repair, maintenance and testing of electrical systems including distribution systems, substations, and electronic sound systems. Applicants for this Class of Work must possess current Master Electrician Licenses in the Commonwealth of Massachusetts. Contractors requesting this Class of Work must own or provide evidence of lease agreements for suitable equipment such as bucket trucks and man lifts capable of reaching varying heights.

**GUARD RAIL & FENCING:** The installation, resetting and rehabilitation of all types of fencing and guard rail including end treatments. Contractors requesting this Class of Work must own or provide evidence of lease agreements for a pounder for installation of guardrail posts.

**HAZARDOUS WASTE REMEDIATION & TRANSPORTATION:**

*Hazardous Waste Transport* – All licensed hazardous waste transporters are required to transport hazardous materials in accordance with guidelines and applicable laws established for the safe removal of such materials using systems and equipment that will provide required protection to jobsite personnel, the public and the environment. Contractors requesting this Class of Work must be licensed for these types of operations. Transporters must be a licensed carrier and submit a copy of the carrier’s hazardous Waste Transport License.

*Hazardous Waste Removal* – The containment, cleanup, and disposal of toxic materials, companies seeking this classification shall have personnel with current hazardous waste training.

Contractor must provide evidence that employees have been trained and must submit Hazardous Waste Operations and Emergency Response (HAZWOPER) certificates for appropriate employees. Contractors requesting this Class of Work must own or provide evidence of lease agreements for suitable equipment such as excavators, front end loaders and watertight dump trucks.

**HIGHWAY - BIKE PATHS:** Construction or reconstruction of shared use paths for pedestrians and bicycles. Work activities include clearing and grubbing, layout, excavation, grading, borrow installation and compaction, drainage systems, roadway crossings including traffic control, railroad grade crossings, paving, striping, landscaping and signage. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general civil equipment such as excavators, backhoes, loaders, graders, bulldozers and rollers.

**HIGHWAY - CONSTRUCTION:** Construction and reconstruction of single or multi-lane roadway facilities. Work activities include traffic control, clearing and grubbing, layout, excavation, grading, borrow installation and compaction, curbs and sidewalks, drainage systems, sewer and water systems, utility installation, railroad grade crossings, roadway crossings including signal installation, paving, striping, landscaping and signage. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general civil equipment such as excavators, backhoes, loaders, graders, bulldozers and rollers.

**HIGHWAY – LIGHTING:** The installation or repair of lighting systems for streets, highways, bridges and related facilities. Contractors requesting this Class of Work must possess a current Master Electrician’s License in the Commonwealth of Massachusetts. Contractors requesting this Class of Work must own or provide evidence of lease agreements for a crane truck, a bucket truck, and/or utility type vehicles.

**HIGHWAY – SIDEWALK AND CURBING:** Construction, repair and reconstruction of sidewalks and curbing. Work may include cement concrete; asphalt concrete; architectural finishes such as brick or cobblestone; granite curb; asphalt curb; and handicap access ramps. Contractors requesting this Class of Work must own or provide evidence of lease agreements for small general civil equipment and tools for excavating, grading, compacting and finishing soil and concrete surfaces.

**IMPACT ATTENUATORS:** Furnishing, assembling, installing, replacing, repairing or rehabilitating impact attenuators of all types including crash cushion modules or cells, to form a barrier configuration. Contractors requesting this Class of Work must own or provide evidence of lease agreements for equipment to transport, lift and place attenuator parts, such as trucks, crane trucks and backhoes.

**INTELLIGENT TRANSPORTATION SYSTEMS:** The integration of advanced computer, communications and control technologies for advanced traffic management applications. Contract may include, but is not limited to, work involving the implementation of computerized freeway traffic control systems, freeway operations control systems, incident management systems, program logic centers (logic circuitry for changeable message signs etc.) and other related activities. Applicants for this Class of Work of work must possess a current Master Electrician's License in the Commonwealth of Massachusetts. Contractors requesting this Class of Work must own or provide evidence of lease agreements for a crane truck, a bucket truck, and/or utility type vehicles.

**LANDSCAPING INCLUDING TREE PLANTING:** The installation and maintenance of landscaping and planting materials including site preparation, planting, seeding and erosion control. Contractors requesting this Class of Work must own or provide evidence of lease agreements for suitable equipment such as bucket trucks, excavators, front end loaders, dump trucks, spreaders and hydroseeders.

**MARINE CONSTRUCTION:** The construction, reconstruction and maintenance of bridge piers, piers and other marine related structures or activities in oceans and other tidal waterways. Contractors requesting this Class of Work must own or provide evidence of lease agreements for marine access equipment such as boats and barges as well as general construction equipment such as backhoes, loaders, excavators and cranes.

**MOWING AND SPRAYING:** Work activities include the cutting of grass and chemical vegetation control. Contractors requesting this Class of Work must own or provide evidence of lease agreements for power mowers of various sizes suited to both confined and open areas and spraying equipment for fertilizer or herbicides.

**PAINTING - STRUCTURAL:** Containment, surface preparation, cleaning, and painting of steel structures including but not limited to bridges. Applicants for this Class of Work of work must be certified by the Society for Protective Coatings (SSPC), Painting Contractor Certification Program (PCCP), QP-1 and QP-2. Contractors requesting this Class of Work must own or provide evidence of lease agreements for appropriate equipment such as blast cleaning equipment, needle guns, paint sprayers and containment and decontamination facilities.

**PAVEMENT MARKINGS:** The marking of pavement by paint, thermoplastic, recessed and surface applied polyurea, epoxy, tape, or any other specified materials. Contractors requesting this Class of Work must own or provide evidence of lease agreements for a propane fired material truck (for thermoplastic), a compressed air material truck (for epoxy and paint), or a nitrogen fired material truck (for polyurea). In addition, applicants should have utility trucks, mobile crash attenuators, and necessary milling/grinding equipment.

**PAVEMENT – MILLING AND COLD PLANING:** Removal by automated, mechanical means of the top layer of existing pavement. Contractors requesting this Class of Work must own or provide evidence of lease agreements for milling, grinding or cold-planing equipment.

**PAVEMENT - RECLAMATION:** Automated removal and replacement, in place, of a full asphalt pavement section and a predetermined portion of the underlying materials, uniformly crushing, pulverizing, or blending

the material into a stabilized base course. The Contractor must own or provide evidence of lease agreements for a reclaimer.

**PAVEMENT - SURFACING:** The resurfacing of existing roadways as well as all other work necessary to furnish a completed roadway surface. The Contractor must own or provide evidence of lease agreements for paving machines and rollers.

**PUMP STATIONS:** The construction, maintenance and repair of wastewater, water or drainage pump stations. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction equipment as well as high capacity pumping equipment.

**RECREATIONAL FACILITIES:** The construction or reconstruction of recreational facilities including tennis and basketball courts, football and soccer fields, skating rinks, swimming pools, beaches associated with lakes and ponds, large size play areas and play sets and any other facility whose primary purpose is for public recreation. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general civil equipment such as excavators, backhoes, loaders, graders, bulldozers and rollers.

**SALT MARSH AND WETLAND RESTORATION:** The construction and maintenance of Salt Marsh and Wetlands Restoration. Typical equipment required for this type of work include and any equipment necessary to complete wetlands work. Contractors requesting this Class of Work must own or provide evidence of lease agreements for suitable equipment such as excavators, front end loaders, wet terrain vehicles, dump trucks and timber mats.

**SEWER AND WATER:** The installation, rehabilitation or replacement of sewer and/or water systems. Contractors requesting this Class of Work must own or provide evidence of lease agreements for general construction equipment such as excavators, loaders, backhoes and plate compactors.

**SIGNING – NON STRUCTURAL:** The furnishing and installation of warning and regulatory signing and route markers on small, ground-mounted breakaway assemblies of “P” type posts. Contractors requesting this Class of Work must own or provide evidence of lease agreements for an auger for coring out foundations and utility type vehicles.

**SIGNING - STRUCTURAL:** The furnishing and installation of large overhead and ground-mounted signs, including the construction of the support structures, posts and foundations. This work does not include ground-mounted warning or regulatory signs. Contractors requesting this Class of Work must own or provide evidence of lease agreements for a crane truck and/or a bucket truck, an auger for coring out foundations and utility type vehicles.

**STREET SWEEPING:** The mechanical sweeping of highways and roadways to provide a safe and clean road surface for travel by vehicles. Contractors requesting this Class of Work must own or provide evidence of lease agreements for pavement sweepers.

**TRAFFIC SIGNALS:** The construction, reconstruction, maintenance or modification of traffic control signals at either isolated or multiple locations including interconnection of two or more signal systems via hardwire or radio/wireless options. Applicants for this Class of Work of work must possess a current Master Electrician’s License in the Commonwealth of Massachusetts. Contractors requesting this Class of Work must own or provide evidence of lease agreements for a crane truck and /or a bucket truck, and utility type vehicles.

**TREE TRIMMING, MAINTENANCE AND REMOVAL:** Work will include clearing and grubbing as well as trimming, maintenance and removal of all sizes of trees and stumps. Contractors requesting this Class of Work must own or provide evidence of lease agreements for equipment for cutting and grinding trees and stumps, bucket trucks, log trucks, dump trucks, grapplers and chippers.

**WATERWAYS:** Work includes elements of boat docks, shoreline protection and boat ramps within non-tidal rivers, ponds and lakes. This work may be in navigable or non-navigable waters. Contractors requesting this Class of Work must own or provide evidence of lease agreements for suitable equipment such as barges, cranes, excavators, high capacity pumps and pile driving equipment.