

**EXHIBIT A.1**

**DESCRIPTION OF GOODS AND SERVICES FOR Trade Labor Services**

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**I. Description of Services**

The Services consist of small scope trade work, including all labor, equipment and materials to complete licensed, registered, and/or non-licensed services not otherwise covered under separate contracts, which the Department of Construction Services (“DCS”) shall approve in writing prior to Performance of any of the Services. The approving person at DCS is John Nolan, (860) 713-5838, john.nolan@ct.gov, although DCS may designate substitute or additional approving individuals. DAS shall post a notice of any new approving individuals, from time to time, as a supplement to the Contract.

**II. Trades**

**A. Services shall include the following trades:**

Air Conditioning and Ventilation System Repair (Emergency Service Only)  
Boiler/Burner Repair (Emergency Service Only)  
Chain Link Fence Replacement and Repair  
Duct Cleaning Services  
Glaziers  
HVAC Control System Repair/Maintenance (Emergency Service Only)  
Locksmith Services  
Masonry Services (Bricklayer, Cement Mason, Stonemason)  
Paperhangers  
Parking Lot, Driveways, Tennis Court and Track Repair  
Roofers  
Sandblasters  
Terrazzo, Tile and Marble Finishers  
Carpenters  
Electricians  
General Contractors  
Painters  
Plumbers  
Welders

Only those bidders who have been licensed, or registered, as applicable, with the State of Connecticut for a **minimum** of two (2) years prior to the time of the bid opening in the trade on which they are bidding will be considered for a Contract award.

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**III. Trade Specifications and Licensing Requirements by Position.** Some of the trades itemized below require licenses. In each such instance, Contractors shall ensure at all times during the Term of this Contract that only individuals who possess valid licenses under the applicable respective trades will undertake any of the Performance and that those individuals will undertake the Performance in accordance with the terms and conditions of the applicable licenses.

**1. AIR CONDITIONING (A/C) AND VENTILATION SYSTEM REPAIR  
(Emergency Service Only)**

- A. LEAD A/C AND VENTILATION SYSTEM INSPECTOR:**  
LICENSE REQUIREMENT: CURRENT D-1 OR S-1 LICENSE  
ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION:  
DUTIES: Performs internal and external inspections of Air Conditioning and Ventilation Systems; writes reports and recommends service. May repair, replace, maintain, or alter systems to ensure proper working condition.
- B. A/C AND VENTILATION SYSTEM INSPECTOR:**  
LICENSE REQUIREMENT: CURRENT D-2 OR D-2 LICENSE  
ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION  
DUTIES: Works under the employ and general supervision of LEAD A/C AND VENTILATION SYSTEM INSPECTOR.

**2. BOILER/BURNER REPAIR: (Emergency Service Only)**

- A. LEAD BOILER INSPECTOR:**  
LICENSE REQUIREMENT: CURRENT S-1 UNLIMITED OR S-3 LIMITED  
CONTRACTOR LICENSE ISSUED BY THE DEPARTMENT OF  
CONSUMER PROTECTION  
DUTIES: Performs internal and external inspections of boilers; witnesses hydrostatic tests on boilers; examines piping systems; inspects for presence of cracked, burned or bagged tubes; examines boiler accessories; inspects repairs and replacement of steam boilers; consults with boiler repairers and approves type of repairs to be made; writes reports and recommends abatements. May install, repair, replace, maintain or alter any apparatus for piping, appliances, devices or accessories for heating systems, excluding sheet metal and solar work.
- B. BOILER INSPECTOR, Journeyman:**  
LICENSE REQUIREMENT: CURRENT S-2 UNLIMITED OR S-4 LIMITED  
JOURNEYPERSON LICENSE

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ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION  
DUTIES: Works under the general supervision of Lead Boiler Inspector,  
Unlimited.

**3. CHAIN LINK FENCE REPLACEMENT AND REPAIR:**

LICENSE REQUIREMENT: NONE

DUTIES: Supervises and coordinates activities involved in chain link fence replacement and repair. Supervises and coordinates the repair and/or replacement of metal fencing surrounding institutional establishments using power tools and hand tools.

**4. DUCT CLEANING SERVICES:**

LICENSE REQUIREMENT: CONTRACTORS SHALL BE REGULAR MEMBERS OF THE NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA). EACH INDIVIDUAL EMPLOYEE OF THE CONTRACTOR WHO PERFORMS ANY WORK UNDER THE CONTRACT SHALL BE CERTIFIED AS AN AIR SYSTEM CLEANING SPECIALIST (ASCS) THROUGH THE NADCA.

DUTIES: Clean ductwork internally, unit-by-unit of dust and debris. Ensure that heat exchanger is visibly clean. Ensure that both sides of the cooling coil are visibly clean. Adjust coil fins to be straight and evenly spaced. Ensure that the coil pan is completely clean and draining properly. Attach access doors to the duct system with screws, rivets or mastic adhesive, but not duct tape. Ensure that all access doors and covers are tight and leak-free. Ensure that the air plenum is free of visible dust or debris; ensure that filters fit properly and are at the efficiency; ensure that the air plenum (directly downstream of the air handling unit) is free of moisture stains and contaminants. Ensure that the fan blades are clean and free of oil and debris; ensure that the fan compartment is free of visible dust or debris. Ensure that fiberglass material is in good condition and is free of tears and abrasions and is well adhered to underlying materials. Ensure that the air vents have been firmly re-attached to one or more of the walls, floors and ceilings, as appropriate. Clean external surfaces of foreign substances which might cause corrosive deterioration of metal or, where ductwork is to be painted, might interfere with painting or cause paint deterioration. Adjust volume control devices, as required by balancing and testing procedures to achieve required air flow. Repair any marred or scratched surfaces with manufacturer's touch-up paint. Ensure that the system is functioning properly after cleaning. Ensure that the operating system is free of any new or unusual noises.

Kitchen Grease Exhaust Systems (KGE systems) may require power washing and hand cleaning of some units to clean down to bare metal. This power washing

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and hand cleaning of the entire KGE System includes cleaning over stoves and grills, ductwork and fans;

Contractor shall Perform all work in compliance with NFPA and SIC codes.

#### **5. GLAZIERS:**

##### **AUTOMOTIVE GLASS WORK AND FLAT GLASS WORK LICENSE TYPES:**

In accordance with Connecticut General Statutes Chapter 393 Sections 20-330 through 20-341, all persons engaged in flat glass and automotive glass work must be licensed. The duties and the required licenses of glaziers are as follows:

##### **FG-1 – (Unlimited Contractor’s license for Flat Glass Work)**

The holder of this license may perform the installation, maintenance, or repair of glass in residential or commercial structures.

##### **FG-2 – (Unlimited Journeyman’s License for Flat Glass Work)**

The holder of this license may perform the installation, maintenance, or repair of glass in residential or commercial structures only while in the employ of a Contractor licensed for such.

##### **AG-1 – (Unlimited Contractor’s license for Automotive Glass Work)**

The holder of this license may perform the installation, maintenance, or repair of fixed glass in motor vehicles.

##### **AG-2 – (Unlimited Journeyman’s License for Automotive Glass Work)**

The holder of this license may perform the installation, maintenance, or repair of fixed glass in motor vehicles only while in the employ of a contractor licensed for such.

##### **AG-3 – (Limited Auto glass Repair Contractor)**

The holder of this license may perform work limited to the repair of damage occurring in laminated glass in compliance with the conditions set forth in the Connecticut Automotive Glass Standards of Practice section titled: Windshield Repair.

##### **AG-4 Limited Repair Journeyman**

The holder of this license may perform limited repair work and only while under the direct employ of a properly licensed Contractor for such work. The requirements to qualify for this limited license exam shall be the completion of a Department approved training program or equivalent experience and training as determined.

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**6. HVAC CONTROL SYSTEM REPAIR/MAINTENANCE (Emergency Service Only):**

**A. LEAD HVAC INSPECTOR:**

LICENSE REQUIREMENT: DEPENDING ON WORK TO BE PERFORMED, CAN HOLD ONE OR A COMBINATION OF ANY OF THE FOLLOWING LICENSES: S-1; S-3; S-7; D-1

DUTIES: Performs inspections of Heating and Air Conditioning Systems; writes reports and recommends service. May repair, replace, maintain, or alter systems to ensure proper working condition. Solar work is excluded.

**B. HVAC INSPECTOR, Journeyperson:**

LICENSE REQUIREMENT: DEPENDING ON WORK TO BE PERFORMED, CAN HOLD ONE OR A COMBINATION OF ANY OF THE FOLLOWING LICENSES: S-2; S-4; S-8; D-2

DUTIES: Performs inspections of Heating and Air Conditioning Systems; writes reports and recommends service. May repair, replace, maintain, or alter systems to ensure proper working condition. Works in the employ of the Lead HVAC Inspector. Solar work is excluded.

**7. LOCKSMITH SERVICES:**

LICENSE REQUIREMENT: NONE

DUTIES: To be utilized in emergency situations (such as lockouts and broken keys). The purchase of locks and lock parts are excluded from this Contract since there is an existing DAS contract for Locks and Lock Parts. If, however, the contractor on the existing contract cannot supply the locks and lock parts, then at the written request of the Client Agency the Contractor shall supply the necessary locks and lock parts. Installs, repairs, rebuilds, and services mechanical or electrical locking devices, using handtools and special equipment: Disassembles locks, such as padlocks, safe locks, and door locks, and repairs or replaces worn tumblers, springs, and other parts. Inserts new or repaired tumblers into lock to change combination. Cuts new or duplicate keys, using keycutting machine. Moves lockpick in cylinder to open door locks without keys. Opens safe locks by drilling. Spoke to DCS and they indicated that vendors may keep these records for future work.

**8. MASONRY SERVICES (Bricklayer, Cement Mason, Stonemason):**

LICENSE REQUIREMENT: MAY REQUIRE MAJOR CONTRACTOR (General Contractor) REGISTRATION WITH THE DEPARTMENT OF CONSUMER PROTECTION

DUTIES:

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**A. BRICKLAYER:**

**DUTIES:** Lays building materials, to construct or repair walls, partitions, arches, sewers, and other structures: Measures distance from reference points and marks guidelines on working surface to lay out work. Spreads soft bed of mortar that serves as bed and binder for block. Levels, aligns and embeds brick into mortar. Removes excess from face of block and finishes with pointing tool or trowel. Determines vertical and horizontal alignment of courses, using plumb bob, gaugeline and level. Fastens brick to terra cotta veneer to face of structures, with tie wires embedded in mortar between bricks, or in anchor holes in veneer brick. May weld metal parts to steel structural members. May apply plaster to walls to complete work.

**B. CEMENT MASON:**

**DUTIES:** Smooths and finishes surfaces of poured concrete floors, walls, sidewalks or curbs to specified textures using handtools or power tools, including floats, trowels and screeds: Signals concrete deliverer to position truck to facilitate pouring of concrete. Moves discharge chute of truck to direct concrete into forms. Spreads concrete into inaccessible sections of forms, using rake or shovel. Levels concrete to specified depth and workable consistency, using hand held screed and floats to bring water to surface and produce soft topping. Smooths and shapes surfaces to freshly poured concrete, using straightedge and float or power screed. Finishes concrete surfaces, using power trowel, or wets and rubs concrete with abrasive stone to impart finish. Removes rough or defective spots from concrete surfaces, using power grinder or chisel and hammer, and patches holes with fresh concrete or epoxy compound. Molds expansion joints and edges, using edging tools, jointers and straightedge. May sprinkle colored stone chips, powdered steel, or coloring powder on concrete to produce prescribed finish. May produce rough concrete surface, using broom. May mix cement, using hoe or concrete-mixing machine. May direct mixing of concrete, and setting of forms. May specialize in finishing steps and stairways. May break up and repair old concrete surfaces, using pneumatic tools.

**C. STONEMASON:**

**DUTIES:** Sets stone to build stone structures, such as piers, walls and abutments, or lays walks, curbstones, or special types of masonry, such as alberene (acid-resistant soapstone for vats, tanks and floors), using mason's tools: Shapes stone preparatory to setting, using chisel, hammer, and other shaping tools. Spreads mortar over stone and foundation with trowel and sets stone in place by hand or with aid of a crane. Aligns stone with plumbline and finishes joints between

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stone with pointing trowel. May spread mortar along mortar guides to ensure joints of uniform thickness. May clean surface of finished wall to remove mortar, using muriatic acid and brush.

*If any of the Performance for this trade affects either the weight bearing or structural integrity of the building being worked on, then Contractor must be registered as a current Major Contractor (General Contractor) with the Department of Consumer Protection prior to undertaking any part of the Performance.*

**9. PAPERHANGERS:**

**LICENSE REQUIREMENT: NONE**

**DUTIES:** Covers interior walls and ceilings or rooms with decorative wallpaper or fabric, using handtools: Measures walls and ceiling to compute number and length of strips required to cover surface. Sets up pasteboard and erects scaffolding. Marks vertical guideline on wall to align first strip, using plum bob and chalkline. Smooths rough spots on walls and ceilings, using sandpaper. Fills holes and cracks with plaster, using trowel. Removes paint, varnish and grease from surfaces, using paint remover and water soda solution. Applies acetic acid to damp plaster to prevent lime from bleeding through the paper. Applies sizing to waterproof porous surfaces, using brush, roller, or pasting machine. Measures and cuts strips from wall of wallpaper or fabric, using shears or razor. Mixes paste to desired consistency and brushes paste on back of wallpaper or fabric, using paste brush. Trims selvage (rough edge) from strips, using straightedge and trimming knife. Places paste-coated strips on wall or ceiling to match adjacent edges of figured strips, and smooths strips with dry brush or felt-covered roller to remove wrinkles and bubbles. Smooths joints with seam roller and trims excess material at ceiling and baseboard, using knife. Removes old paper, using water, steam machine, or chemical remover and scraper.

**10. PARKING LOT, DRIVEWAY, TENNIS COURT & TRACK REPAIR**

**LICENSE REQUIREMENTS: NONE**

**DUTIES:** Making repairs to existing parking lots, driveways, tennis courts, tracks, etc. and apply hot rubberized sealing to seal cracks and holes on those surfaces: patch potholes, repair curbing, sealing cracks, and apply sealed coating on existing surfaces, but only to the extent that such work is not currently included as part of the current contract award for Sealing of Joints and Cracks in Highways or the current contract award for Bituminous Materials Complete-In-Place.

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**11. ROOFERS:**

LICENSE REQUIREMENT: CURRENT LICENSE AS A MAJOR CONTRACTOR (General Contractor) ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION

**DUTIES:**

Covers roofs with roofing materials other than sheetmetal, such as composition shingles or sheets, wood shingles, or asphalt and gravel, to waterproof roofs: Cuts roofing paper to size, using knife, and nails or staples it to roof in overlapping strips to form base for roofing materials. Aligns roofing material with edge of roof, and overlaps successive layers, gauging distance of overlap with chalkline, gauge on shingling hatchet, or by lines on shingles. Fastens composition shingles or sheets to roof with asphalt, cement, or nails. Punches holes in slate, terra cotta, or wooden shingles, using punch and hammer. Cuts strips of flashing and fits them into angles formed by walls, vents, and intersecting roof surfaces. When applying asphalt or tar and gravel to roof, mops or pours hot asphalt or tar onto roof base. Applies alternate layers of hot asphalt or tar and roofing paper until roof covering is as specified. Applies gravel or pebbles over top layer, using rake or stiff-bristled broom. May attach shingles to exterior walls and apply roofing paper and tar to shower pans, decks, and promenades to waterproof surfaces. May remove existing roofing materials to prepare for new roof. Includes repairs to all types of commercial roofing systems including, but not limited to the following: Asphalt build-up, coal-tar build-up, and single ply EPDM. Capable of effecting repairs to flashing/coping systems including, but not limited to the following: KMM, fabric, metal and EPDM.

**12. SANDBLASTERS:**

LICENSE REQUIREMENT: NONE

DUTIES: Abrades surfaces of metal or hard-composition objects to remove adhering scale, sand, paint, grease, tar, rust, and dirt, and to impart specified finish, using abrasive-blasting equipment: Shovels or pours abrasives, such as sand, grit, or shot of specified grade into machine hopper. Masks specified areas of object to protect from abrading action. Loads parts on racks in enclosed rooms, into tumbling barrels, or into cabinets. Regulates pressure and composition of abrasive mixture flowing through nozzle or tumbling barrel. Examines finished parts to ensure conformance to specifications.

**13. TERRAZZO, TILE AND MARBLE FINISHERS:**

LICENSE REQUIREMENT: NONE

**A. MARBLE FINISHER:**

Supplies and mixes construction materials. Applies grout and cleans installed marble. Mixes mortar, plaster, and grout, as required. Selects

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marble slab for installation, following numbered sequence or drawings. Drills holes and chisels channels in edges of marble slabs to install metal wall anchors, bends wire to form metal anchors, inserts anchors into drilled holes of marble slab, and secures anchors in place. Moves marble slabs to installation site, using dolly, hoist, or portable crane. Fills marble joints and surface imperfections with grout, removes excess grout, using wet sponge. Installs marble. Grinds and polishes marble, using abrasive, chemicals, and manual or machine grinding and polishing techniques. Cleans installed marble surface. Repairs and fills chipped, cracked, or broken marble pieces.

**B. TERRAZZO FINISHER:**

Supplies and mixes construction materials. Installs terrazzo. Applies grout and cleans installed terrazzo. Applies curing agent to installed terrazzo to promote even curing. Grinds surface of cured terrazzo, using power grinders, to smooth and prepare for grouting. Spreads grout across terrazzo to fill surface imperfections. Find grinds and polishes surface of terrazzo, when grout has set, using power grinders. Washes surface of polished terrazzo, using cleaner and water, and applies sealer, according to manufacturer's instructions, using brush. May position and secure membrane and wire mesh prior to pouring base materials for terrazzo installation. May spread marble chips or other material over fresh terrazzo surface and press into terrazzo, using roller. May cut divider and joint strips to size as directed. Cuts grooves in terrazzo stairs, using power grinder, and fills grooves with nonskid materials.

**C. TILE FINISHER:**

Supplies and mixes construction materials. Installs tile. Applies grout, and cleans installed tile. Applies grout between joints of installed tile. Removes excess grout from tile joints with wet sponge and scrapes corners and crevices with trowel. Wipes surface of tile after grout has set to remove grout residue and polish tile, using nonabrasive materials. May apply caulk, sealers, acid, steam, or related agents to caulk, seal, or clean installed tile, using various application devices and equipment. Positions and secures metal lath, wire mesh, or felt paper prior to installation of tile. Cuts marked tiles to size, using power saw or tile cutter.

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**14. CARPENTERS:**

**A. CARPENTER, WORKING SUPERVISOR**

LICENSE REQUIREMENT: CURRENT LICENSE AS A MAJOR CONTRACTOR (General Contractor) THROUGH THE DEPARTMENT OF CONSUMER PROTECTION

DUTIES: Supervises and coordinates activities of workers engaged in the construction, installation, and repair of structures and fixtures. Layout and install metal studs, hang tape sheetrock, install grid work and ceiling tiles. Read blueprints. Lays out floor plan and cabinetwork, using rule, square, and calipers. Selects materials and structural units including lumber, prefabricated doors, cabinets and paneling, and inspects to insure conformance with provisions of building code and local ordinance. Determines sequence of activities concerned with fixture assembly, and erection of structure. Assigns workers to such tasks as cutting materials to size, building concrete forms, erecting wood framework, and laying flooring, surface sanding and application of surface sealant. Inspects work performed by subcontractors, including ductwork, wiring, and pipe installation to insure conformance with specifications. Supervise workers engaged in building structures such as cofferdams, trestles, and supports for concrete forms. Prepares cost estimates.

**B. CARPENTER, COMMON LABORER**

LICENSE REQUIREMENT: CURRENT LICENSE AS A MAJOR CONTRACTOR (General Contractor) THROUGH THE DEPARTMENT OF CONSUMER PROTECTION

DUTIES: Performs any combination of duties on construction projects, usually working in utility capacity, by transferring from one task to another where demands require worker with varied experience and ability to work without close supervision.

**C. CARPENTER, ROUGH & FINISH**

LICENSE REQUIREMENT: CURRENT LICENSE AS A MAJOR CONTRACTOR (General Contractor) THROUGH THE DEPARTMENT OF CONSUMER PROTECTION.

DUTIES: Constructs, erects, installs, and repairs structures and fixtures using carpenter's hand tools and power tools, and conforming to local building codes: studies blueprints, sketches, or building plans for information pertaining to type of materials required, and dimensions of structures and fixtures to be fabricated. Selects specified type of materials. Prepares layout, using rules, framing square, and calipers. Marks cutting assembly lines on materials, using pencil, chalk, and marking gauges. Shapes materials to prescribed measurements, using

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saws, chisels, and planes. Assembles cut and shaped materials and fastens them together with nails, dowel, pins or glue. Verifies trueness of structure using plumb bob and carpenter's level. Erects framework for structures and lays subflooring. Builds stairs and lays out and installs partitions and cabinet work. Covers subfloor with building paper to keep out moisture and lays hardwood, parquet, and wood-strip-block floors by nailing to subfloor or cementing them to mastic or asphalt base. Applies shock-absorbing, sound-deadening and decorative paneling to ceilings and walls. Fits and installs prefabricated window frames; doors, door weather stripping, interior and exterior trim and finish hardware including locks, letterdrops and kick plates. Constructs forms and chutes for pouring concrete. Erects scaffolding and ladders for assembling structures above ground level. Layout and installation of metal studs, and tape sheetrock, install ceiling grid work and ceiling tiles.

**15. ELECTRICIANS:**

**A. ELECTRICIAN, WORKING SUPERVISOR:**

LICENSE REQUIREMENT: CURRENT E-1 LICENSE

ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION

DUTIES: Installs, erects, maintains, alters or repairs any wire, cable, conduit, busway, raceway, support, insulator, conductor, appliance, apparatus, fixture or equipment which generates, transforms, transmits or uses electrical energy for light, heat, power or other purposes. Duties exclude working with low voltage wiring, not exceeding twenty-four volts, used within a lawn sprinkler system. Will coordinate, layout, estimate and oversee the work of others.

**B. ELECTRICIAN, JOURNEYPERSON ELECTRICIAN**

LICENSE REQUIREMENT: CURRENT E-2 LICENSE

ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION

DUTIES: Same work as an E-1 licensee, but only while in the employ of a Contractor licensed for such work.

**C. ELECTRICIAN, APPRENTICE**

LICENSE REQUIREMENT: MUST BE REGISTERED WITH THE STATE LABOR DEPARTMENT AS AN ELECTRICAL APPRENTICE.

DUTIES: Same work as an E-1 or E-2 licensee, but only with direct supervision of a electrical Contractor licensed through the Department of Consumer Protection.

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**16. GENERAL CONTRACTORS:**

**LICENSE REQUIREMENT:** CURRENT MAJOR CONTRACTOR LICENSE ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION

**DUTIES:** Performs highly skilled maintenance or construction work or both, requiring the application of trade skills, codes, and standard trade practices in a variety of trade areas including but not limited to: electrical, plumbing, carpentry, HVAC, glazing, masonry, painting work, etc.; makes estimates of time, personnel, and material required on assigned tasks; keeps necessary records; performs duties related to the trade or trade areas as required; considerable knowledge of and ability to apply the standard tools, materials, methods, and practices of a variety of trade areas. The Major Contractor shall oversee the construction, structural repair, structural alteration, dismantling, or demolition of any structure or addition performed by an approved list of Sub Contractors. Such work shall include, but not be limited to, carpentry, roofing, masonry, and structural framing.

**17. PAINTERS:**

**A. PAINTER, WORKING SUPERVISOR:**

**LICENSE REQUIREMENT:** NONE

**DUTIES:** Coordinates, plans, estimates and oversees the work of other painters.

**B. PAINTER, JOURNEYPERSON PAINTER:**

**LICENSE REQUIREMENT:** NONE

**DUTIES:** Applies coats of paint, varnish, stain, enamel, or lacquer to decorate and protect interior and exterior surfaces, trimming and fixtures of buildings, and other structures: smooths surfaces using sand paper brushes, or steel wool and removes old paint from surfaces using paint remover, scraper, wire brush, or blowtorch to prepare surfaces for painting. Fills nail holes, cracks, and joints with putty, plaster, or other filler. Selects premixed paints, or mixes required portions of pigment oil and thinning and drying substances to prepare paint that matches specified colors. Paints surfaces using brushes, spray gun or rollers. Simulates wood grain, marble, brick or tile effects. Applies paint with cloth, brush, sponge, or finers to create special effects. Erects scaffolding or sets up ladders to perform tasks above ground level.

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**18. PLUMBERS:**

**A. PLUMBER, SUPERVISOR**

LICENSE REQUIREMENT: CURRENT P-1 LICENSE

ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION

DUTIES: Installs, repairs, replaces, alters or maintains gas, water, and associated fixtures, laboratory equipment, sanitary equipment, other than subsurface sewage disposal systems, fire prevention apparatus, all water systems for human usage, sewage treatment facilities and all associated fittings within a building and lateral storm and sanitary lines from building to the mains, swimming pools and pumping equipment, makes connections to back flow prevention devices, and works with low voltage wiring, not exceeding twenty-four volts, used within a lawn sprinkler system. Duties do not include solar work, except for the repair of those portions of a solar hot water heating system, which include the basic domestic hot water tank and the tie-in to the potable water system. Duties also do not include the installation, repair, replacement, alteration or maintenance of fire prevention apparatus within a structure, except for standpipes, which are not connected to sprinkler systems. Trains new workers. Inspects work in progress and completed work to determine conformance to specifications.

**B. PLUMBER, JOURNEYPERSON**

LICENSE REQUIREMENT: CURRENT P-2 LICENSE

ISSUED BY THE DEPARTMENT OF CONSUMER PROTECTION

DUTIES: Same work as the P-1 licensee, but only in the employ of a Contractor licensed for such work. Assembles, installs, and repairs pipes, fittings, and fixtures of (heating), water, and drainage systems, according to specifications and plumbing codes: studies building plans and working drawings to determine work aids required and sequence installations. Inspects structure to ascertain obstructions to be avoided to prevent weakening of structure resulting from installation of pipe. Locates and marks position of pipe connections and passage holes for pipe in walls and floors, using ruler, spirit level, and plumb bob. Cuts openings in walls and floors to accommodate pipe and pipe fittings, using hand tools and power tools. Cuts and threads pipe, using pipe cutters, cutting torch, and pipe threading machine. Bends pipe to required angle by use of pipe-bending machine or by placing pipe over block and bending it by hand. Assembles and installs valves, pipe fittings, and pipes composed of metals, such as iron, steel, brass, and lead and nonmetals, such as glass, vitrified clay, and plastic, using hand tools and power tools. Joins pipes by use of screws, bolts, fittings, solder, plastic solvent and caulk joints. Fills pipe system

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with water or air and reads pressure gauges to determine whether the system is leaking. Installs and repairs plumbing fixtures, such as sinks, commodes, bathtubs, water heaters, hot water tanks, garbage disposal units, dishwashers, and water softeners. Repairs and maintains plumbing by replacing washers in leaky faucets, mending burst pipes and opening clogged drains. May weld holding fixtures to steel structural members.

**19. WELDERS**

**A. WELDER, WORKING SUPERVISOR**

**LICENSE REQUIREMENTS:** License as required for specific types of job (i.e., Pressure Valve, Gas Line, Bridge, Structural, etc.).

**DUTIES:** Supervises and coordinates activities of workers engaged in the welding construction, fabrication, installation and repair of structures and fixtures. Reads blueprints, performs highly skilled welding tasks in accordance with standard trade practices, weld metal parts by oxyacetylene torch and welding rods or electric welding apparatus (i.e., Mig, Tig, Stick, Heli-Arc, etc.), lays out work and assigns workers to such tasks as cutting material and erecting steel structures and fixtures, selects materials and structural units and inspects to insure conformance with provisions of building code and local ordinances, determines sequence of events concerned with fixture assembly and erection of structure, prepares cost estimates, inspects work of subcontractors to insure conformance with specifications, considerable knowledge of and ability to apply standard tools, materials, methods and practices, interpersonal skills, oral and written communication skills, and ability to prepare estimates and keep accurate job records.

**B. WELDER, COMMON LABORER**

**LICENSES:** As Required

**DUTIES:** Performs any combination of duties on welding projects, usually works in utility capacity by transferring from one task to another where demands require worker with varied experience and ability to work without close supervision.