

CLASSIFICATION CODE DESCRIPTIONS

A. SUBSTRUCTURE

A1010 FOUNDATIONS

Continuous wall footings, strip footings, isolated column footings, grade beams, combined footings, strap footings, mat foundations, below-grade foundation/stem walls, driven piles, drilled piers, caissons, micropiles, helical piles, integral reinforcing steel, anchor bolts, embedded plates, base plates, bearing soil preparation, foundation insulation, vapor barriers, and dampproofing integral to footing assembly.

A2010 BASEMENT WALLS

Reinforced cast-in-place or precast concrete basement walls, masonry foundation or retaining walls forming subgrade enclosures, integral reinforcing steel, ties, bond beams, embedded plates, insulation, vapor barriers, dampproofing, waterproofing systems, perimeter/footing drains, drainage mats, collector pipes, protective boards, sumps, sealants, joints, waterstops, through-wall flashings, and penetrations.

A4010 SLAB-ON-GRADE

Reinforced or unreinforced concrete slabs bearing on soil or compacted fill, subbase preparation, fine grading, mud slabs, vapor retarders, waterproofing membranes, insulation integral to slab assembly, expansion joints, control joints, sawcuts, integral curbs or bases, finished concrete surfaces, embedded reinforcement, embedded radiant heating or snow-melt piping, slabs in mechanical/utility/service spaces.

B. SHELL

B1010 FLOOR CONSTRUCTION

Structural framing for elevated floors including beams, girders, joists, trusses, open-web steel joists, composite steel deck systems; cast-in-place, precast, or post-tensioned concrete slabs not bearing on grade; wood joist systems, engineered lumber, plywood/OSB subflooring; fire-rated assemblies, underfloor fireproofing, structural coatings; embedded reinforcement, post-tensioning cables, floor penetrations, openings, access panels.

B1020 ROOF CONSTRUCTION

Structural roof framing including rafters, trusses, beams, purlins, joists, decking; precast concrete planks, poured-in-place concrete roof slabs; metal roof deck, plywood or OSB sheathing; roof structural bracing and lateral systems; wood and steel framing members; insulation boards attached to roof deck; parapets as structural elements; roof openings, curbs, and structural penetrations for equipment.

B1080 STAIR CONSTRUCTION

Structural stair framing including steel stringers, concrete stair flights, wood framing, metal pan systems; treads, risers, nosings, and landings integral to stair assembly; stair supports, anchors, brackets, connections to floors or walls; guards, handrails, intermediate rails, rail support posts; stairway fire-resistance features where part of stair assembly; precast concrete stairs and landings; exterior stair structures attached to building.

B2010 EXTERIOR WALLS

Load-bearing and non-load-bearing wall framing, masonry and concrete walls, curtain wall and storefront systems, metal and wood stud framing, exterior sheathing, cladding systems, exterior insulation, weather barriers, air barriers, expansion joints, control joints, sealants, window and door frames as part of wall assembly, parapets, copings, canopies integral to wall system.

B2020 EXTERIOR WINDOWS

Fixed and operable window units including frames, sash, glazing, insulated glass units, low-E and specialty coatings, weather-stripping, gaskets, sealants, integral screens, muntins, mullions, hardware and operators for operable units, anchors and mounting systems, accessory items like window wells for basement windows, security glazing in windows.

B2050 EXTERIOR DOORS

Door leaves, frames, thresholds, weather-stripping, hinges, locksets, closers, panic hardware, automatic door operators, overhead doors and operators, storefront entrance systems, revolving doors, sliding and folding doors, specialty exterior doors, hardware and accessories, door glazing integral to door assembly, seals and gaskets, kick plates and protective trim integral to door unit.

B3010 ROOFING

Roof membranes including built-up, modified bitumen, single-ply, fluid-applied; base and cap sheets; insulation above deck; roof flashing at walls, penetrations, edges; counterflashing and reglets; roof drains, scuppers, overflow drains; gravel stops, edge metal, fascia; roof expansion joints; walkway pads; pitch pans; cant strips; temporary roof protection during construction.

B3060 ROOF OPENINGS

Roof access components including roof hatches, ship ladders, associated curbs; daylighting and glazed roof units including skylights, tubular daylight devices, roof monitors with glazing; smoke and heat vents including gravity vents, automatic smoke vents, curb structures; roof penetrations and curbs for HVAC, plumbing, electrical, exhaust; penetration flashings, boots, pitch pans integral to opening; localized structural framing integral to opening.

C. INTERIORS

C1010 INTERIOR WALLS & WINDOWS

Non-load-bearing interior partitions including metal stud, wood stud, masonry; gypsum board assemblies, lath and plaster systems; moveable and demountable partitions; fire-rated wall assemblies, shaft walls, smoke partitions; interior glazing systems, borrowed lights, interior windows; door frames integrated into partition systems; wall blocking, backing, and reinforcement; control joints, expansion joints, corner bead, trim accessories.

C1030 INTERIOR DOORS

Interior door leaves, door frames, thresholds, hinges, locksets, latches, closers, stops, kick plates, push/pull plates, vision panels and glazing in doors, sliding and folding door hardware, pocket door tracks and frames, fire-rated doors and hardware, smoke doors, sound-rated doors, specialty doors, weatherstripping for conditioned space separation, coordinator hardware for pairs.

C1090 INTERIOR SPECIALTIES

Toilet partitions and urinal screens, toilet accessories like grab bars, paper dispensers, soap dispensers, mirrors; corner guards, wall protection, crash rails; demountable and folding partitions; operable partitions and acoustic dividers; chalkboards, whiteboards, tackboards; display cases and bulletin boards; signage systems; fire extinguisher cabinets; mail collection units; lockers and storage units; cubicle curtains and tracks.

C2010 WALL FINISHES

Paint, stain, clear finishes; wallcovering, fabric wall systems, vinyl wall covering; ceramic tile, quarry tile, porcelain tile; stone veneer, thin-set stone, panels; wood paneling, wainscoting; FRP panels, plastic laminate; acoustical wall panels; specialized coatings like epoxy, antimicrobial; decorative plaster, textured finishes; metal panels as finish material; glass tile, mosaic tile; grout, sealants, adhesives for finishes.

C2030 FLOOR FINISHES

Resilient flooring including VCT, LVT, sheet vinyl, linoleum, rubber flooring; ceramic tile, porcelain tile, quarry tile, stone tile; carpet and carpet tile, pad and underlayment; wood flooring, engineered wood, bamboo; terrazzo, polished concrete, stained concrete; raised access flooring systems; epoxy coatings, urethane toppings; athletic flooring, rubber sports surfaces; base, transitions, edge trim integral to floor finish; floor sealants and adhesives.

C2050 CEILING FINISHES

Suspended acoustic ceiling tile and grid systems, gypsum board ceilings on furring or framing, plaster ceilings, wood ceilings including planks and panels, metal panel ceilings, acoustical clouds and baffles, specialty ceiling systems, integrated lighting/ceiling systems, access panels in ceilings, ceiling trim and edge details, suspension systems and hangers, ceiling insulation above finish, painted or finished ceiling surfaces.

D. SERVICES

D1010 ELEVATORS & LIFTS

Traction elevators, hydraulic elevators, machine-room-less elevators; elevator cars, doors, hoistways, guide rails, controllers; elevator machines, motors, drives, brakes, sheaves; hydraulic pumps, cylinders, valves, fluid reservoirs; elevator cabs, panels, flooring, lighting, handrails; hoistway doors, frames, operators, interlocks, safety edges; elevator pits, buffers, sumps, ladders; wheelchair lifts, platform lifts, stair lifts; elevator monitoring and control systems; emergency communication systems in cabs.

D2010 DOMESTIC WATER DISTRIBUTION

Cold water distribution piping, valves, fittings, hangers; domestic hot water distribution piping to fixtures; recirculation systems and pumps; mixing valves, tempering valves, pressure-reducing valves; backflow preventers, vacuum breakers, air gaps; water meters, flow meters; expansion tanks, pressure tanks; pipe insulation, heat tracing; hose bibbs, wall hydrants, frost-proof fixtures; point-of-use water heaters; water hammer arrestors; shut-off valves, balancing valves.

D2015 PLUMBING FIXTURES

Water closets, urinals, lavatories, sinks, service sinks, drinking fountains, water coolers, showers, bathtubs, eyewash stations, emergency showers, mop sinks, clinical sinks, surgical scrub sinks, faucets and trim, flush valves, mixing valves, faucet aerators, drain assemblies, traps, fixture supports and carriers, grab bars integral to fixture installation, fixture insulation and protective coverings.

D2020 SANITARY WASTE & VENT SYSTEMS

Sanitary waste and soil piping including cast iron, PVC, ABS, copper, stainless steel systems; horizontal and vertical stacks, branches, fixture arms; vent piping systems including vent stacks, branch vents, relief vents, stack vents, roof penetrations for vents; cleanouts, traps except fixture P-traps, adapters, hangers, anchors; waste/vent serving toilets, sinks, showers, floor drains, kitchen drains; grease waste piping inside building; sumps and ejectors for sanitary lift; condensate drains to sanitary.

D3010 FACILITY FUEL SYSTEMS

Fuel distribution piping within building including natural gas, propane, fuel-oil piping; mains, risers, branches, valves, regulators; fuel storage systems located inside building including day tanks, interior fuel-oil tanks, transfer pumps, leak detection; pressure regulation and metering; fuel-oil handling equipment including strainers, filters, pumps, duplex pump sets, fuel polishers; emergency shutoff valves, solenoid valves, excess-flow devices; heat tracing and insulation on fuel-oil piping.

D3020 HEATING SYSTEMS

Boilers for heating including fire-tube, water-tube, electric, condensing; burners and combustion controls, fuel trains, safety valves; boiler feedwater systems, chemical treatment, blowdown equipment; heat exchangers for hot water or steam systems; thermal fluid heaters, heat transfer systems; radiant heating boilers; unit heaters, cabinet heaters, infrared heaters; duct furnaces and make-up air heaters; boiler room piping, valves, pumps, expansion tanks; boiler flues, stacks, combustion air systems.

D3030 COOLING SYSTEMS

Chillers including water-cooled, air-cooled, absorption, centrifugal, screw, scroll; cooling towers, evaporative condensers, fluid coolers, adiabatic coolers; condenser water pumps, chemical treatment systems, cooling tower basins and sumps; chilled water pumps, primary and secondary loops; heat exchangers for chilled water systems; free cooling systems, economizer loops, waterside economizers; glycol systems for freeze protection; thermal storage systems, ice storage, chilled water storage.

D3041 HVAC AIR DISTRIBUTION

Ductwork including supply, return, exhaust, outside air ducts; duct insulation, liners, vapor barriers; air handling units, fans, filters, heating/cooling coils, dampers within units; VAV boxes, reheat coils, fan-powered boxes, mixing boxes; exhaust fans, supply fans, return fans; duct-mounted fire dampers, smoke dampers, combination dampers; diffusers, registers, grilles, louvers; duct access doors, volume dampers, balancing dampers, duct supports and hangers.

D3042 HVAC HYDRONIC & STEAM DISTRIBUTION

Hydronic distribution piping including hot water, chilled water, condenser water, glycol-solution piping; mains, risers, branches, drops to coils, radiators, unit heaters, fan-coils; fittings, unions, dielectric fittings, expansion loops, supports, hangers; steam and condensate distribution piping; low/medium-

pressure steam to coils, heat exchangers, terminal units; condensate return piping, flash tanks, condensate pumps/receivers; steam traps, strainers, drip legs, air vents; distribution pumps, isolation valves, balancing valves, check valves, flow meters; expansion tanks, air separators, dirt separators; insulation and jacketing.

D3050 TERMINAL & PACKAGE UNITS

Rooftop packaged units, split systems, heat pumps, mini-split systems, packaged terminal air conditioners (PTACs), water source heat pumps, fan coil units, unit ventilators, cabinet unit heaters, convectors, baseboard heaters, radiators, induction units, chilled beams, radiant panels, computer room air conditioning (CRAC) units, precision cooling units, self-contained units, through-wall units, condensing units, air-cooled condensers.

D3080 HVAC CONTROLS & INSTRUMENTATION

Building automation systems (BAS) for HVAC, DDC controllers, control panels, sensors, thermostats, humidistats, pressure sensors, flow meters as control devices, actuators for dampers and valves, control valves for heating and cooling, variable frequency drives for pumps and fans, energy management systems, graphical user interfaces, networking and communication infrastructure for BAS, smoke control integration with fire alarm, start/stop scheduling and programming.

D3090 OTHER HVAC SYSTEMS & EQUIPMENT

Dedicated outdoor-air systems (DOAS) when specialized treatment units; energy recovery systems including heat wheels, plate exchangers, run-around loops, ERV/HRV; specialty ventilation/treatment systems including dehumidification units, humidifiers, steam humidifiers, condensate treatment; environmental/process HVAC including CRAC/CRAH units, precision environmental control, clean-room units, process cooling/heating; specialized heating/cooling support like glycol mixing packages, heat-recovery chillers; infrared radiant heating systems, large industrial/warehouse radiant arrays; HEPA/ULPA filtration banks, activated carbon scrubbing; specialty pumps or packaged systems.

D4010 FIRE SUPPRESSION SYSTEMS

Wet pipe sprinkler systems, dry pipe systems, pre-action systems, deluge systems; sprinkler heads, piping, fittings, hangers, braces; fire department connections, post indicator valves, OS&Y valves, control valves; flow switches, tamper switches, pressure switches; fire pumps, jockey pumps, controllers, pressure maintenance; standpipes and hose connections; sprinkler room piping, drains, test connections; antifreeze systems in sprinkler piping; water storage tanks dedicated to fire protection; standpipe systems, hose valves, roof manifolds; kitchen hood fire suppression; clean agent suppression including FM-200, Novec, CO2; foam suppression.

D5010 ELECTRICAL SERVICE & SWITCHGEAR

Electrical service entrance, main switchboards, switchgear, main service transformers, meter centers, utility metering; main distribution equipment, main disconnects, service protection devices; grounding systems, ground rods, grounding electrodes, bonding; surge protection devices at service entrance; emergency and standby generators, automatic transfer switches, generator fuel systems; central uninterruptible power supply (UPS) systems, battery backup systems; generator control panels, paralleling switchgear.

D5020 ELECTRICAL DISTRIBUTION

Distribution panels and subpanels including panelboards, load centers, lighting panels, equipment panels; feeder conductors and raceways from main switchgear to distribution panels or large equipment; dry-type interior transformers including step-down or isolation transformers; bus systems including bus ducts, busways, vertical bus risers; protective devices including breakers, fuses, relays; metering, monitoring, and power quality devices; motor control centers serving multiple loads; cable trays, wireways, conduit, enclosures, supports for distribution feeders.

D5030 GENERAL PURPOSE ELECTRICAL POWER

Branch-circuit wiring including copper/aluminum conductors in conduit, cable assemblies (MC/AC), flexible conduit; receptacles and device outlets including standard duplex outlets, GFCI/AFCI receptacles, specialty outlet types; lighting branch circuits (wiring only); small equipment feeds not requiring dedicated distribution panels; junction boxes, device boxes, cover plates; dedicated circuits for small appliances or equipment; permanent raised-access floor systems with integrated power distribution; wiring to plug-connected modular furniture when building-managed.

D5040 LIGHTING

Interior lighting fixtures, lamps, ballasts, LED drivers; exterior building-mounted lighting; exit signs, emergency lighting, egress path lighting; lighting controls including switches, dimmers, occupancy sensors, photocells, time clocks, relay panels; architectural lighting, decorative fixtures; task lighting and under-cabinet lighting; specialized lighting for sports facilities, stages, or auditoriums; lighting poles and standards attached to building; fixture mounting hardware, supports, canopies; lighting branch circuit wiring when dedicated to lighting control.

D6010 COMMUNICATIONS SYSTEMS

Telephone systems, voice cabling, telecom rooms, patch panels, terminal blocks; data networking infrastructure, fiber optics, copper cabling, network switches, racks, cabinets; structured cabling systems; intercom and paging systems, public address systems, mass notification; clock and program bell systems; distributed antenna systems (DAS); audiovisual infrastructure cabling, display connections; cable pathways, conduit, cable trays for low-voltage systems; grounding and bonding for communications systems; communication outlets and jacks.

D7010 ACCESS CONTROL & INTRUSION DETECTION

Card access systems, card readers, proximity readers, biometric readers; electronic locks, electric strikes, magnetic locks, electrified hardware; access control panels, controllers, field panels; intrusion detection sensors, motion detectors, door contacts, glass break sensors; intrusion alarm panels, keypads, annunciators; security system cabling, power supplies, backup batteries; credential management systems, access control software; perimeter detection systems, duress alarms, panic buttons; integration with video surveillance for event verification.

D7020 VIDEO SURVEILLANCE

Video surveillance cameras including fixed, PTZ, dome cameras; network video recorders (NVR), digital video recorders (DVR), video management systems; camera mounting hardware, housings, enclosures, poles for cameras; video cabling, fiber optics, network infrastructure for cameras; monitors and displays for viewing surveillance; video analytics software, motion detection, facial recognition integration;

camera power supplies, PoE switches, backup power for surveillance; outdoor cameras with weatherproof housings, infrared night vision.

D7050 FIRE DETECTION & ALARM

Fire alarm control panels, annunciators, remote stations; smoke detectors, heat detectors, flame detectors, duct detectors; manual pull stations, fire alarm horns, strobes, speakers for voice evacuation; notification appliances, visual and audible devices; sprinkler flow switches, tamper switches, valve supervision; fire alarm cabling, conduit, backboxes, mounting hardware; addressable and conventional fire alarm systems; mass notification integration; elevator recall and HVAC shutdown integration; fire fighter phones, communication systems; emergency voice alarm communication systems.

E. EQUIPMENT & FURNISHINGS

E1040 DETENTION EQUIPMENT

Detention doors and frames with security glazing, tamper-proof hardware, electronic locks; security grilles, gates, sallyports; detention window systems with security glazing; security screens and partitions, including bullet-resistant assemblies; detention-grade plumbing fixtures that are tamper-proof; fixed detention furniture including bunks, desks, stools, benches securely anchored; security lighting fixtures with vandal-resistant covers; padded cell components and protective wall systems; detention cell fronts, bars, mesh.

E2010 FIXED FURNISHINGS

Built-in casework and millwork including base cabinets, wall cabinets, lab casework, countertops, vanities; fixed shelving, bookcases, display cases; fixed seating and benches in auditoriums, lecture halls, stadium seating, built-in benches and booths; service counters, transaction desks, reception desks, service windows; fixed work surfaces, integrated desks, instructional stations, workstations; built-in closets, cubbies, locker alcoves; fixed display boards with integrated casework.

F. INTEGRATED CONSTRUCTION

F1050 SWIMMING POOL SYSTEMS

Pool vessel and structure including concrete shells, liners, structural walls, gutters, surge tanks, integral waterproofing, tile finishes, pool plaster, expansion joints; water circulation systems with pumps, strainers, flow meters, valves, fittings, circulation piping, skimmers, gutters, return inlets, main drains; filtration systems including sand, DE, or cartridge filters, backwash valves and piping; pool heating systems; chemical treatment systems; deck drains and coatings; handrails, ladders, accessibility lifts.