Layer Naming Convention for CAD in the Construction Industry
(Based upon the guidelines of BS 1192 Part 5)
Any Text for each layer add a “T” to the end of name (ie. E-630T)

A-020 Drawing Frame
A-030 Building Grid
A-034 Ceiling Grid

GROUND SUBSTRUCTURE

A-110 GROUNDWORK – (General)
A-111 Ground relief – embankments, cutting, slopes
A-113 Ground composition – stabilised ground
A-114 Groundwater
A-115 Underground – underpinning, tunnels, culverts, land drainage
A-119 Parts, accessories – excavations, trenches, cut and fill

A-130 FLOOR BEDS – (General)
A-131 Floor on the ground
A-132 Suspended floors
A-134 Beds for plants
A-136 Ground underwater - pools
A-139 Parts, accessories – damp proofing, reinforcement, insulation

A-160 FOUNDATIONS – (General)
A-162 Retaining walls, diaphragm walls
A-163 Water retaining walls - caissons
A-164 Foundations – pad, foot, strip
A-169 Parts, accessories – damp proofing, reinforcement, insulation

A-170 PILE FOUNDATIONS – (General)
A-171 Sheet piling
A-172 In-situ formed foundations – bored, cased, uncased
A-173 Pre-formed foundations – driven, jacked, screwed
A-179 Parts, accessories - reinforcement

STRUCTURE, PRIMARY ELEMENTS, CARCASS

A-200 STRUCTURE, PRIMARY ELEMENTS, CARCASS – (General)
A-210(White) EXTERNAL WALLS – (General)
A-211 Complete walls – cavity and inner walls
A-212 Outer leaf of external walls
A-213 Inner leaf of external walls
A-214 Curtain walls
A-216 External framing and cladding
A-218 Other walls – parapet gable
A-219 Parts, accessories – reinforcement, ties, insulation, damp-proofing
A-220(White) INTERNAL WALLS, PARTITIONS – (General)
A-221 Complete internal walls
A-223 Partitions – fixed or demountable
A-225 Service poles
A-226 Internal framing or cladding
A-228 Other walls – party walls
A-229 Parts, accessories – reinforcement, ties, insulation

A-230 FLOORS – (General)
A-232 Slab floors, monolithic floors
A-234 Composite, assembled floors
A-237 Balconies, galleries
A-238 Other floors – metal decks, metal plates

A-240(Green) STAIRS – (General)
A-241 Ramps
A-242 Straight
A-243 Dog-leg
A-244 Curved and spiral
A-245 Escape stairs, open-well stairs
A-246 Ladders

A-270(Grey8) ROOFS – (General)
A-271 Flat Roofs, terraces
A-272 Pitched roofs
A-274 Folded plate roofs
A-275 Other roofs – domes, steeples, spires
A-276 Space-frame roofs
A-277 Canopies
A-278 Retractable roofs
A-279 Parts, accessories – decking, trusses, insulation

A-280(Grey8) BUILDING FRAMES – (General)
A-281 Metal columns
A-282 Concrete columns
A-283 Metal beams
A-284 Concrete beams
A-285 Timber frames
A-286 Space – frames as building frames
A-287 Other frames – shafts, ducts, chimneys
A-289 Parts, accessories – reinforcement, connections

SECONDARY ELEMENTS, COMPLETION OF STRUCTURE

A-300 SECONDARY ELEMENTS, COMPLETION OF STRUCTURE – General

A-310(Cyan) EXTERNAL WALL COMPLETIONS (Windows/Glasswork) – (General)
A-311 Patio sliding doors
A-312 Shop – front, entrances
A-313 Composite window/door openings
A-314 External windows
A-315 External doors
A-316 Revolving Doors
A-317 External hatches, meter-box doors
A-318 Other wall completions – louvred, barred
A-319 Parts, accessories – lintels, sills, ironmongery

A-320(Red) INTERNAL WALL COMPLETIONS (Doors) – (General)
A-323 Composite window/door openings
A-324 Internal windows
A-325 Internal doors
A-327 Internal hatches, serveries
A-329 Parts, accessories – internal lintels, arches

A-330 FLOOR COMPLETIONS, SECONDARY ELEMENTS – (General)
A-331 Access floors, cavity floors
A-333 Roused floor-grid, metal docks
A-335 Floor doors/openings, trap doors

A-340 STAIR BALUSTRADES, HANDRAILS – (General)

A-350 CEILINGS – (General)
A-351 Suspended ceilings, tiles, panelled
A-352 Suspended ceilings, louvred
A-359 Parts, accessories – insulation, access hatches

A-370 ROOF COMPLETION – (General)
A-371 Roof - lights
A-373 Composite window/door openings to roofs
A-374 Roof windows
A-376 Roof balustrades, parapets
A-378 Roof Walkways

FINISHES TO THE STRUCTURE

A-400 FINISHES TO THE STRUCTURE – (General)

A-410 EXTERNAL WALL FINISHES – (General)
A-411 Sandwich cladding with external/internal lining
A-412 Wall cladding panels
A-413 Weather-boarding, shiplap cladding
A-414 Wall cladding tiles, mosaic
A-415 Coating to external walls, render
A-419 Parts, accessories – external insulation

A-420 INTERNAL WALL FINISHES – (General)
A-421 Drylining
A-422 Plastered internal walls
A-423 Timber finishes
A-424 Internal wall tiles
A-425 Coating to internal walls - paint
A-426 Wallcovering – paper, vinyl
A-429 Parts, accessories – insulation, trim
A-430  FLOOR FINISHES – (General)
A-431  Jointless floor finishes – cement, resin
A-432  Rigid tile and slab flooring – ceramic, stone
A-433  Flexible tile and sheet flooring - plastics
A-434  Strip flooring - timber
A-435  Carpets, carpet tiles
A-436  Floor screeds
A-439  Parts, accessories – adhesives, skirtings, trim

A-440  STAIR FINISHES – (General)
A-441  Stair treads, nosing
A-442  Stair trim, skirtings

A-450  CEILING FINISHES – (General)
A-451  Ceiling boards, panels, applied direct to surface
A-452  Ceiling coating, plaster
A-459  Parts, accessories – cornices, architraves, coves

A-470(Grey)  ROOF FINISHES (Outlines) – (General)
A-471  Roofing membranes
A-472  Mastic asphalt roofing
A-473  Roof tiles, slates
A-474  Sheet roof cladding
A-475  Roof screeds
A-479  Parts, accessories – trims, vents, sealants

SERVICES

P-500  SERVICES – (General)

P-520(Green)  WASTE DISPOSAL, DRAINAGE – (General)
P-521  Refuse disposal
P-522  Gaseous wastes
P-523  Foul drainage, sewage disposal
P-524  Chemical, petrol waste
P-525  Rainwater, surface water drainage
P-526  Internal (above ground) drainage
P-527  Below ground drainage
P-528  Drainage castings – covers, frames, gullies
P-529  Parts, accessories – traps, vents, manholes

P-530  WATER AND LIQUID SUPPLY – (General)
P-531(Blue)  Cold water supply
P-532  Cold water - softened
P-533(Red)  Hot water supply
P-534  Hot water from individual appliances
P-535  Special water supply – softened, de-ionised
P-537  Petrol, oil supply
P-539  Parts, accessories – cistern, taps, valves, lagging

M-540(Cyan)  GAS SUPPLY – (General)
M-541  Fuel gas supply
M-542  Steam supply
M-543 Compressed air supply - industrial
M-544 Vacuum supply
M-546 Special gases
M-549 Parts, accessories - meters

M-550(Cyan) SPACE COOLING, REFRIGERATION – (General)
M-551 Central refrigeration cooling water/space cooling cold rooms
M-552 Environment cooling
M-555 Refrigeration fixed equipment – mortuary blood banks
M-556 Equipment cooling (grilles, ancillary equipment)

M-560(Red) SPACE HEATING – (General)
M-561 By energy source – oil, gas, electricity, solid, solar
M-562 District, communal heating
M-563 Central heating
M-568 Heating from local appliances
M-569 Parts, accessories – lagging, storage, distribution

M-570(Cyan) VENTILATION – (General)
M-571 Central air conditioning
M-573 Air conditioning by local appliances
M-574 Air-transfer grilles/dampers, wall-mounted – and hospitals
M-575 Mechanical ventilation, central ventilation
M-576 Ventilation by local appliances – extract fans
M-579 Smoke ventilation

P-580(Green) PUBLIC HEALTH AND RAW WATER – (General)

M-590(White) PART ACCESSORIES TO PIPED, DUCTED SERVICES – FLUES, FLUE – LININGS & BOILERS – (General)

M-591 Domestic heating services – pipework
M-595 Environment heating services – pipework
M-598 Boiler Flues

SERVICES, MAINLY ELECTRICAL

E-600 SERVICES, MAINLY ELECTRICAL – (General)

E-610(Magenta) ELECTRICAL SUPPLY – (General)
E-611 Mains intake to local control gear
E-612 High-voltage supply and distribution cabling
E-613 High-voltage switchgear and power system plant
E-614 Electrical management system
E-615 Low-voltage main power distribution
E-616 Public mains electrical supply
E-617 Emergency, standby supply
E-618 Low-voltage switchgear and power system plant
E-619 Parts, accessories – distribution boards, switchgear, meters

E-620(Green) POWER SUPPLY – (General)
E-621 Trucking, conduit
E-622 Wiring cable, wiring systems
E-623 Electrical accessories – sockets, plugs, meters
E-624 X-ray/radio – diagnostic/scanners
E-629 Parts, accessories – controls, outlets

E-630(Cyan) LIGHTING – (General)
E-631 General lighting systems
E-632 Local lighting, spotlights, display lights
E-633 Operational lighting
E-636 Floodlighting
E-638 Emergency lighting
E-639 Parts, accessories - lamps

V-640(Colour35) COMMUNICATIONS – (General)
V-641 Audio visual – television, video, closed-circuit television
V-642 Audio – radio, telephone, intercom
V-643 Communications – patient/staff call and service alarm systems (excluding fire systems)
V-644 Signal communications – telex fax
V-645 Clocks, central time source
V-648 Frames - voices
V-649 Parts, accessories – loudspeakers, exchanges, television points.

V-650(Colour35) TELECOMMUNICATIONS – (General)
V-651 Cable trays – trucking, conduit, ceiling and floor voids, risers
V-652 Communications cabling – data, voice
V-653 Non-cabled equipment cabinets
V-654 Data terminals – PCs, terminal equipment, workstations
V-657 Host equipment
V-658 Frames – data, general
V-659 Other devices – multiplexers, MSAUs, modems

A-660(Green) TRANSPORT – (General)
A-661 Lifts
A-663 Cleaning cradles
A-664 Escalators
A-665 Conveyors
A-666 Moving pavements
A-667 Cranes, hoists
A-668 Mechanical - pallets
A-669 Parts, accessories – pulleys, motors, controls

F-670(Red) FIRE SYSTEMS – (General)
F-671 Fire alarm, voice alarm system
F-674 Fire alarm smoke detection system
F-676 Sprinkler system
F-678 Fire extinguishers, hose-reels, cabinets
F-679 Hazardous and poisonous substances

S-680(White) SECURITY PROTECTION – (General)
S-681 Combined security/fire protection
S-682 Security services, burglar protection, access control equipment.
S-683 Fire fighting
S-686 Bird/vermin nuisance
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<td>Sound control</td>
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<td>S-689</td>
<td>Parts, accessories – buzzers, bells, alarms</td>
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<td>E-690</td>
<td>EARTHING – (General)</td>
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**FITTINGS AND FURNITURE**

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<td>Z-000-Cloud</td>
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<td>Z-000-Text</td>
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<td>Z-000-View</td>
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<td>Z-000-Hatch</td>
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<td>Z-000-RNO</td>
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<td>Z-713</td>
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<td>Z-718</td>
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<td>Z-722</td>
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<td>Z-735</td>
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<td>A-743</td>
<td>Drying fittings – towel – rails, driers</td>
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<td>A-744</td>
<td>Water closets, urinals</td>
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<td>A-745</td>
<td>Incinerators, macerators</td>
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<td>A-747</td>
<td>Sainitary supply – soap dispensers, sanitary towel dispensers</td>
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<td>A-748</td>
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Z-750(Green) CLEANING FITTINGS – (General)
Z-751 Washing machines
Z-753 Drying machines
Z-755 Sterilising equipment
Z-758 Dry cleaning machines
Z-759 Dishwasher

Z-760(White) STORAGE FITTINGS – (General)
Z-761 Composite storage fittings – storage walls
Z-762 Cupboards
Z-763 Drawers
Z-764 Shelving, racking
Z-765 Suspended storage
Z-766 Other storage – safes, lockers
Z-767 Screening – screen, blinds, curtains, tracks demountable screens
Z-768 Hooks, pegs, brackets
Z-769 Electronic media

Z-770(Blue) SPECIAL ACTIVITY FITTINGS – (General) (Built-in or otherwise - sports, hospitals)
Z-771 Equipment - special activities (hospitals)

Z-780(Blue) LOOSE FITTINGS – (General)
Z-783 Soft furnishings, upholstery
Z-786 Works of art, sculpture, murals
Z-787 Plants
Z-788 Boards
Z-789 Conference equipment

EXTERNAL WORKS

Z-900 EXTERNAL WORKS – (General)
Z-901 North point, scales, title blocks
Z-902 Matchlines
Z-903 Notes
Z-904 Hatch patterns
Z-907 Section drawings

Z-910 SITE INFORMATION – (General)
Z-911 Boundary lines, survey benchmarks
Z-912 Bearing and distance labels
Z-913 Easements, rights-of-way, setbacks
Z-917 Existing buildings
Z-918 Proposed buildings

Z-920 SURVEY INFORMATION – (General)
Z-921 Existing contours
Z-922 Proposed contours
Z-923 Spot elevations, heights
Z-925 Cut and fill
Z-926 Daylight and sunlight lines
Z-927 Notes and calculations
Z-930 LAND DRAINAGE – (General)
Z-931 Sprinklers
Z-932 Layout coverage
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Z-940(Green) LANDSCAPING – (General)
Z-941 Existing trees
Z-942 Proposed trees
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Z-944 Shrubs
Z-945 Ground cover
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Z-950 ROADS, PAVING, CAR PARKING – (General)
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Z-955 Disabled ramps, signs, features
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Z-961 Water main
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Z-992 Aspect
Z-993 Soils and geology
Z-994 Land use
Z-995 Vegetation and ground cover
Z-996 Wildlife
Z-997 Prospect, views
Z-998 Air and sound quality
Z-999 Climate, wind, shadows