

## *Appendix II Master Spec to Unifomat*

<b>CSI Masterformat to ASTM Uniformat II Conversion Chart</b>			
00 60 00	Forms	Z10	General Project Requirements
01 30 00	Administrative Requirements	Z10	General Project Requirements
01 40 00	Quality Requirements	Z10	General Project Requirements
01 50 00	Temporary Facilities and Controls	Z10	General Project Requirements
01 60 00	Product Requirements	Z10	General Project Requirements
01 70 00	Execution and Closeout Requirements	Z10	General Project Requirements
01 74 19	Construction Waste Management and Disposal*	Z10	General Project Requirements
01 81 13	Sustainable Design Requirements*	Z10	General Project Requirements
01 81 19	Indoor Air Quality (IAQ) Requirements*	Z10	General Project Requirements
02 40 00	Demolition and Structure Moving	F20	Selective Building Demolition
		G10	Site Preparation
02 50 00	Site Remediation	G10	Site Preparation
02 60 00	Contaminated Site Material Removal	G10	Site Preparation
02 70 00	Water Remediation	G10	Site Preparation
02 80 00	Facility Remediation	F20	Selective Building Demolition
		G10	Site Preparation
03 05 00	Common Work Results for Concrete	A10	Foundations
		A20	Basement Construction
03 05 00		B10	Superstructure
03 10 00	Concrete Formwork and Accessories	A10	Foundations
03 10 00		A20	Basement Construction
		B10	Superstructure
03 20 00	Concrete Reinforcing	A10	Foundations
		A20	Basement Construction
		B10	Superstructure
03 30 00	Cast-In-Place Concrete	A10	Foundations
		A20	Basement Construction
		B10	Superstructure
03 40 00	Precast Concrete	A10	Foundations
		B10	Superstructure
		B20	Exterior Enclosure
03 41 23	Precast Concrete Stairs	C20	Stairs
03 50 00	Cast Decks and Underlayment	B10	Superstructure
03 60 00	Grouting	B10	Superstructure
03 70 00	Mass Concrete	A10	Foundations
		B10	Superstructure
04 01 00	Maintenance of Masonry	B20	Exterior Enclosure
04 05 00	Common Work Results for Masonry	A20	Basement Construction
		B10	Superstructure
		B20	Exterior Enclosure
04 20 00	Unit Masonry	A20	Basement Construction
		B10	Superstructure
		B20	Exterior Enclosure
04 40 00	Stone Assemblies	B20	Exterior Enclosure
04 50 00	Refractory Masonry	B20	Exterior Enclosure
04 60 00	Corrosion-Resistant Masonry	B20	Exterior Enclosure
04 70 00	Manufactured Masonry	B20	Exterior Enclosure
05 10 00	Structural Metal Framing	B10	Superstructure
05 20 00	Metal Joists	B10	Superstructure
05 30 00	Metal Decking	B10	Superstructure
05 40 00	Cold-Formed Metal Framing	B10	Superstructure
05 50 00	Metal Fabrications	B10	Superstructure
		C20	Stairs

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06 05 00	Common Work Results for Wood, Plastics, and Composites	C10	Interior Construction
06 10 00	Rough Carpentry	C10	Interior Construction
06 20 00	Finish Carpentry	C10	Interior Construction
06 40 00	Architectural Woodwork	C10	Interior Construction
07 05 00	Common Work Results for Thermal and Moisture Protection	B20	Exterior Enclosure
07 10 00	Dampproofing and Waterproofing	A10	Foundations
		A20	Basement Construction
		B20	Exterior Enclosure
07 20 00	Thermal Protection	A10	Foundations
		A20	Basement Construction
		B20	Exterior Enclosure
		B30	Roofing
07 25 00	Weather Barriers	A10	Foundations
07 30 00	Steep Slope Roofing	B30	Roofing
07 40 00	Roofing and Siding Panels	B30	Roofing
07 50 00	Membrane Roofing	B30	Roofing
07 60 00	Flashing and Sheet Metal	B30	Roofing
		B20	Exterior Enclosure
07 70 00	Roof and Wall Specialties and Accessories	B20	Exterior Enclosure
		B30	Roofing
07 80 00	Fire and Smoke Protection	C10	Interior Construction
07 90 00	Joint Protection	B20	Exterior Enclosure
		B30	Roofing
07 95 00	Expansion Control	B10	Superstructure
08 05 00	Common Work Results for Openings	B20	Exterior Enclosure
		C10	Interior Construction
08 10 00	Doors and Frames	B20	Exterior Enclosure
		C10	Interior Construction
		F10	Special Construction
08 30 00	Specialty Doors and Frames	B20	Exterior Enclosure
		C10	Interior Construction
08 40 00	Entrances, Storefronts, and Curtain Walls	C10	Interior Construction
		B20	Exterior Enclosure
08 50 00	Windows	B20	Exterior Enclosure
		C10	Interior Construction
08 60 00	Roof Windows and Skylights	B20	Exterior Enclosure
08 70 00	Hardware	B20	Exterior Enclosure
		C10	Interior Construction
		F10	Special Construction
08 71 00	Door Hardware*	B20	Exterior Enclosure
		C10	Interior Construction
08 80 00	Glazing	B20	Exterior Enclosure
08 90 00	Louvers	B20	Exterior Enclosure
09 05 00	Common Work Results for Finishes	C30	Interior Finishes
09 20 00	Plaster and Gypsum Board	B20	Exterior Enclosure
		C10	Interior Construction
		C30	Interior Finishes
		F10	Special Construction
09 22 00	Supports for Plaster and Gypsum Board	C10	Interior Construction
		C30	Interior Finishes
		F10	Special Construction
09 30 00	Tiling	B20	Exterior Enclosure
		C30	Interior Finishes

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09 50 00	Ceilings	C30	Interior Finishes
		F10	Special Construction
09 60 00	Flooring	C30	Interior Finishes
		F10	Special Construction
09 70 00	Wall Finishes	C30	Interior Finishes
		F10	Special Construction
09 80 00	Acoustic Treatment	C30	Interior Finishes
09 90 00	Painting and Coating	B20	Exterior Enclosure
		C30	Interior Finishes
		F10	Special Construction
10 10 00	Information Specialties	C10	Interior Construction
10 14 00	Signage	G20	Site Improvements
10 20 00	Interior Specialties	C10	Interior Construction
		F10	Special Construction
10 40 00	Safety Specialties	C10	Interior Construction
10 50 00	Storage Specialties	C10	Interior Construction
10 70 00	Exterior Specialties	B20	Exterior Enclosure
10 73 00	Protective Covers	G20	Site Improvements
10 74 00	Manufactured Exterior Specialties	G20	Site Improvements
10 75 00	Flagpoles	G20	Site Improvements
10 80 00	Other Specialties	B20	Exterior Enclosure
11 01 00	Operation and Maintenance of Equipment	E10	Equipment
11 05 00	Common Work Results for Equipment	E10	Equipment
11 06 00	Schedules for Equipment	E10	Equipment
11 08 00	Commissioning of Equipment	E10	Equipment
11 11 00	Vehicle Service Equipment	E10	Equipment
11 12 00	Parking Control Equipment	E10	Equipment
11 13 00	Loading Dock Equipment	E10	Equipment
11 14 00	Pedestrian Control Equipment	E10	Equipment
11 16 00	Vault Equipment	E10	Equipment
11 17 00	Teller and Service Equipment	E10	Equipment
11 18 00	Security Equipment	E10	Equipment
11 21 00	Mercantile and Service Equipment	E10	Equipment
11 22 00	Refrigerated Display Equipment	E10	Equipment
11 23 00	Commercial Laundry and Dry Cleaning Equipment	E10	Equipment
11 24 00	Maintenance Equipment	E10	Equipment
11 25 00	Hospitality Equipment	E10	Equipment
11 26 00	Unit Kitchens	E10	Equipment
11 27 00	Photographic Processing Equipment	E10	Equipment
11 28 00	Office Equipment	E10	Equipment
11 29 00	Postal, Packaging, and Shipping Equipment	E10	Equipment
11 31 00	Residential Appliances	E10	Equipment
11 41 00	Food Storage Equipment	E10	Equipment
11 42 00	Food Preparation Equipment	E10	Equipment
11 43 00	Food Delivery Carts and Conveyors	E10	Equipment
11 44 00	Food Cooking Equipment	E10	Equipment
11 46 00	Food Dispensing Equipment	E10	Equipment
11 47 00	Ice Machines	E10	Equipment
11 48 00	Cleaning and Disposal Equipment	E10	Equipment
11 51 00	Library Equipment	E10	Equipment
11 52 00	Audio-Visual Equipment	E10	Equipment
11 53 00	Laboratory Equipment	E10	Equipment
11 53 13	Laboratory Fume Hoods*	E10	Equipment

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11 55 00	Planetarium Equipment	E10	Equipment
11 56 00	Observatory Equipment	E10	Equipment
11 57 00	Vocational Shop Equipment	E10	Equipment
11 59 00	Exhibit Equipment	E10	Equipment
11 61 00	Theater and Stage Equipment	E10	Equipment
11 62 00	Musical Equipment	E10	Equipment
11 65 00	Athletic Equipment	E10	Equipment
11 67 00	Recreational Equipment	E10	Equipment
11 68 00	Play field Equipment and Structures	E10	Equipment
11 82 00	Solid Waste Handling Equipment	E10	Equipment
12 01 00	Operation and Maintenance of Furnishings	E20	Furnishings
12 05 00	Common work Results for Furnishings	E20	Furnishings
12 06 00	Schedules for Furnishings	E20	Furnishings
12 08 00	Commissioning of Furnishings	E20	Furnishings
12 10 00	Art	E20	Furnishings
12 21 00	Window Blinds	E20	Furnishings
12 22 00	Curtains and Drapes	E20	Furnishings
12 23 00	Interior Shutters	E20	Furnishings
12 24 00	Window Shades	E20	Furnishings
12 25 00	Window Treatment Operating Hardware	E20	Furnishings
12 31 00	Manufactured Metal Casework	E20	Furnishings
12 32 00	Manufactured Wood Casework	E20	Furnishings
12 34 00	Manufactured Plastic Casework	E20	Furnishings
12 35 00	Specialty Casework	E20	Furnishings
12 35 53	Laboratory Casework (Wood Laboratory Casework and	E20	Furnishings
12 36 00	Countertops	E20	Furnishings
12 40 00	Furnishings and Accessories	E20	Furnishings
12 50 00	Furniture	E20	Furnishings
12 59 00	Systems Furniture	E20	Furnishings
12 60 00	Multiple Seating	E20	Furnishings
12 92 00	Interior Planters and Artificial Plants	E20	Furnishings
12 93 00	Site Furnishings	G20	Site Improvements
13 11 00	Swimming Pools	F10	Special Construction
13 12 00	Fountains	G20	Site Improvements
13 17 00	Tubs and Pools	F10	Special Construction
13 19 00	Kennels and Animal Shelters	F10	Special Construction
13 20 00	Special Purpose Rooms	F10	Special Construction
13 34 00	Fabricated Engineered Structures	F10	Special Construction
13 50 00	Special Instrumentation	F10	Special Construction
14 10 00	Dumbwaiters	D10	Conveying Systems
14 20 00	Elevators	D10	Conveying Systems
14 30 00	Escalators and Moving Walks	D10	Conveying Systems
14 40 00	Lifts	D10	Conveying Systems
14 70 00	Turntables	D10	Conveying Systems
14 80 00	Scaffolding	D10	Conveying Systems
14 91 00	Facility Chutes	D10	Conveying Systems
21 01 00	Operation and Maintenance of Fire Suppression	D40	Fire Protection
21 05 00	Common Work Results for Fire Suppression	D40	Fire Protection
21 06 00	Schedules for Fire Suppression	D40	Fire Protection
21 07 00	Fire Suppression Systems Insulation	D40	Fire Protection
21 08 00	Commissioning of Fire Suppression	D40	Fire Protection
21 09 00	Instrumentation and Control for Fire-Suppression Systems	D40	Fire Protection
21 10 00	Water-Based Fire-Suppression Systems	D40	Fire Protection

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21 20 00	Fire-Extinguishing Systems	D40	Fire Protection
21 30 00	Fire Pumps	D40	Fire Protection
21 40 00	Fire-Suppression Water Storage	D40	Fire Protection
22 01 00	Operation and Maintenance of Plumbing	D20	Plumbing
22 05 00	Common Work Results for Plumbing	D20	Plumbing
22 06 00	Schedules for Plumbing	D20	Plumbing
22 07 00	Plumbing Insulation	D20	Plumbing
22 08 00	Commissioning of Plumbing	D20	Plumbing
22 09 00	Instrumentation and Control for Plumbing	D20	Plumbing
22 10 00	Plumbing Piping and Pumps	D20	Plumbing
22 30 00	Plumbing Equipment	D20	Plumbing
22 40 00	Plumbing Fixtures	D20	Plumbing
22 50 00	Pool and Fountain Plumbing Systems	D20	Plumbing
22 60 00	Gas and Vacuum Systems for Laboratory and Healthcare	D20	Plumbing
23 01 00	Operation and Maintenance of HVAC Systems	D30	HVAC
23 05 00	Common Work Results for HVAC	D30	HVAC
23 06 00	Schedules for HVAC	D30	HVAC
23 07 00	HVAC Insulation	D30	HVAC
23 08 00	Commissioning of HVAC	D30	HVAC
23 09 00	Instrumentation and Control for HVAC	D30	HVAC
23 10 00	Facility Fuel Systems	D30	HVAC
23 20 00	HVAC Piping and Pumps	D30	HVAC
23 30 00	HVAC Air Distribution	D30	HVAC
23 40 00	HVAC Air Cleaning Devices	D30	HVAC
23 50 00	Central Heating Equipment	D30	HVAC
23 60 00	Central Cooling Equipment	D30	HVAC
23 70 00	Central HVAC Equipment	D30	HVAC
23 80 00	Decentralized HVAC Equipment	D30	HVAC
25 00 00	Integrated Automation	F10	Special Construction
25 10 00	Integrated Automation Network Equipment	F10	Special Construction
25 30 00	Integrated Automation Instrumentation and Terminal	F10	Special Construction
25 50 00	Integrated Automation Facility Controls	F10	Special Construction
25 90 00	Integrated Automation Control Sequences	F10	Special Construction
26 01 00	Operation and Maintenance of Electrical Systems	D50	Electrical
26 05 00	Common Work Results for Electrical	D50	Electrical
26 06 00	Schedules for Electrical	D50	Electrical
26 08 00	Commissioning of Electrical Systems	D50	Electrical
26 09 00	Instrumentation and Control for Electrical Systems	D50	Electrical
26 10 00	Medium-Voltage Electrical Distribution	D50	Electrical
26 20 00	Low-Voltage Electrical Transmission	D50	Electrical
26 27 00	Low-Voltage Distribution Equipment	D50	Electrical
26 29 00	Low-Voltage Controllers	D50	Electrical
26 31 00	Photovoltaic Collectors	D50	Electrical
26 32 00	Packaged Generator Assemblies	D50	Electrical
26 33 00	Battery Equipment	D50	Electrical
26 35 00	Power Filters and Conditioners	D50	Electrical
26 36 00	Transfer Switches	D50	Electrical
26 41 00	Facility Lightning Protection	D50	Electrical
26 42 00	Cathodic Protection	D50	Electrical
26 43 00	Transient Voltage Suppression	D50	Electrical
26 51 00	Interior Lighting	D50	Electrical
26 52 00	Emergency Lighting	D50	Electrical
26 53 00	Exit Signs	D50	Electrical

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26 54 00	Classified Location Lighting	D50	Electrical
26 55 00	Special Purpose Lighting	D50	Electrical
26 56 00	Exterior Lighting	G40	Site Electrical Utilities
26 80 00	Low-Voltage Circuit Protective Devices	D50	Electrical
28 13 00	Access Control (or 28 23 00 Video Surveillance)	F10	Special Construction
28 31 00	Fire Detection and Alarm	D40	Fire Protection
31 00 00	Earthwork	G10	Site Preparation
31 10 00	Site Clearing	G10	Site Preparation
31 20 00	Earth Moving	G10	Site Preparation
31 30 00	Earthwork Methods	G10	Site Preparation
31 40 00	Shoring and Underpinning	A10	Foundations
		G10	Site Preparation
31 50 00	Excavation Support and Protection	G10	Site Preparation
31 60 00	Special Foundations and Load Bearing Elements	A10	Foundations
31 70 00	Tunneling and Mining	G10	Site Preparation
		G40	Site Electrical Utilities
32 00 00	Exterior Improvements	G20	Site Improvements
32 10 00	Bases, Ballast, and Paving	G20	Site Improvements
32 12 00	Flexible Paving	G20	Site Improvements
32 13 00	Rigid Paving	G20	Site Improvements
32 14 00	Unit Paving	G20	Site Improvements
32 15 00	Aggregate Surfacing	G20	Site Improvements
32 16 00	Curbs and Gutters	G20	Site Improvements
32 17 00	Paving Specialties	G20	Site Improvements
32 18 00	Athletic and Recreational Surfacing	G20	Site Improvements
32 31 00	Fences and Gates	G20	Site Improvements
32 32 00	Retaining Walls	G20	Site Improvements
32 34 00	Fabricated Bridges	G20	Site Improvements
32 70 00	Wetlands	G20	Site Improvements
32 80 00	Irrigation	G20	Site Improvements
32 90 00	Planting	B30	Roofing
		G20	Site Improvements
33 00 00	Utilities	G30	Site Civil/Mechanical Utilities
		G40	Site Electrical Utilities
33 10 00	Water Utilities	G30	Site Civil/Mechanical Utilities
33 20 00	Wells	G30	Site Civil/Mechanical Utilities
33 30 00	Sanitary Sewerage Utilities	G30	Site Civil/Mechanical Utilities
33 40 00	Storm Drainage Utilities	G30	Site Civil/Mechanical Utilities
33 50 00	Fuel Distribution Utilities	G30	Site Civil/Mechanical Utilities
33 56 00	Fuel Storage Tanks	F10	Special Construction
33 60 00	Hydronic and Steam Energy Utilities	G30	Site Civil/Mechanical Utilities
33 70 00	Electrical Utilities	G40	Site Electrical Utilities
33 80 00	Communications Utilities	G40	Site Electrical Utilities
34 00 00	Transportation	D10	Conveying Systems
34 40 00	Transportation Signaling and Control Equipment	F10	Special Construction
35 20 16	Hydraulic Gates	E10	Equipment
35 20 19	Hydraulic Valves	E10	Equipment
40 90 00	Instrumentation and Control for Process Equipment	F10	Special Construction
41 22 00	Cranes and Hoists	D10	Conveying Systems
44 40 00	Water Pollution Control Equipment	E10	Equipment
44 42 00	General Water Treatment	F10	Special Construction
44 43 00	Water Filtration Equipment	F10	Special Construction
44 44 00	Water Treatment Chemical Systems Equipment	F10	Special Construction

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44 46 00	Sludge Treatment and Handling Equipment for Water	F10	Special Construction
44 51 00	Solid Waste Collection, Transfer, and Hauling Equipment	F10	Special Construction
48 14 00	Solar Energy Electrical Power Generation Equipment	F10	Special Construction
48 15 00	Wind Electrical Power Generation Equipment	F10	Special Construction
* Caltech Master Specification			