

Chapter	Title	Description	Updated	Catalog
Introductory Information				
00001	PROJECT TITLE PAGE	This is a blank document for use in preparing a title sheet for the entire set of documents.	Oct 98	Performance
00002	CERTIFICATIONS PAGE	This is a blank document for use in preparing a certifications page.	Oct 98	Performance
00003	SEALS PAGE	This is a blank document for use in preparing a seals page.	Oct 98	Performance
00005	PROJECT INFORMATION	This chapter functions as an overall project summary, invitation to proposers, advertisement for proposals, and invitation for bids for construction. Use this chapter on all projects. This chapter includes basic project data and a description of the documents being prepared. It can be placed at the beginning of a printed set of documents, used alone as a published Advertisement for Proposals, or attached to a letter of invitation to potential Design-Builders. If this chapter is edited first, before selection of other chapters, the links will aid in deciding which chapters are needed. In addition, the Document Function setting on the Summary Info dialog box should correspond to the type of document prepared.	Feb 09	Performance
00010	TABLE OF CONTENTS	The Table of Contents is a user-editable chapter, linked to and from the other chapters so that it serves as a simple checklist and yet is coordinated to the actual chapters prepared. Select the chapters you know you will need and the system will select the others that are also necessary.	Feb 09	Performance
00015	LIST OF DRAWINGS AND SCHEDULES	This chapter is a template for preparing a project-specific document.	Nov 98	Performance
Request for Proposal Documents				
00200	INSTRUCTIONS TO PROPOSERS	This chapter covers the conducting of an RFP (Request for Proposals) process when more than one prospective Design-Builder is being considered for a single project. This is referred to as a "competitive" RFP to distinguish it from a procedure in which the Owner requests a proposal from a single prospective proposer. (In the latter case, few formal procedures are required.) Detailed procedures for soliciting, receiving, and evaluating proposals are included, along with the terms for award and acceptance.	Feb 09	Performance
00300	INFORMATION AVAILABLE TO PROPOSERS	This chapter is a place to list other documents available to the proposers for assistance in preparing proposals.	Feb 09	Performance
00400	PROPOSAL FORM	This chapter is used to prepare the form that the proposers will use to make cost/time/quality proposals for a design-build project. It will undoubtedly require customization to the specific project before printing for inclusion in an RFP (Request for Proposals). If a standard form of Agreement is to be executed, this Proposal Form should be carefully coordinated to that Agreement, so that all the information required for execution of the Agreement is provided on the Proposal Form, if not specified in the Supplementary Conditions.	Jan 09	Performance
00490	RFP ADDENDA	This chapter is a blank document for use in preparing project-specific addenda to RFP Documents.	May 01	Performance
Contracting Documents				
00500	AGREEMENT AND CONDITIONS OF THE CONTRACT	This chapter describes the relationship between the Agreement and Conditions of the Contract and the other contractual documents for a Design-Build contract. An external document or documents can be referenced or text can be entered or imported, for both the Agreement and the Conditions of the Contract. Design-build contracting forms by the Design-Build Institute of America (DBIA), the American Institute of Architects (AIA), the Engineers' Joint Contract Documents Committee (EJCDC), and the Associated General Contractors of America (AGC) are referenced in the text, for use if applicable, and the terminology in other chapters is coordinated with these documents.	Feb 09	Performance
00570	CONTRACT DEFINITIONS	This chapter includes all the basic definitions that are essential to understanding and properly conducting a Design-Build contract. Specific terms defined include the Conceptual Documents, the Contract Documents, the Proposal Documents, and the phases, stages, or milestones critical to performance of the contract.	Feb 09	Performance
00600	BONDS AND CERTIFICATES	This is a blank document for use in preparing a list of the bonds and certificates required.	Oct 98	Performance

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00800	SUPPLEMENTARY CONDITIONS	This is a blank document for use in preparing Supplementary Conditions.	Oct 98	Performance
00810	STATUTORY REQUIREMENTS	This is a blank document for use in preparing a description of applicable laws and regulations other than the building code, if it is necessary to include a description or list of them in the Conditions of the Contract. The applicable building codes are defined in Chapter 111 - Facility Performance.	Oct 98	Performance
00820	INSURANCE	This is a blank document for use in preparing a description of the insurance the Design-Builder is required to furnish.	Oct 98	Performance
00830	DESIGN AND CONSTRUCTION PROCEDURES	This chapter describes procedures to be followed by the Owner and Design-Builder during both design and construction, such as progress schedule and documentation, design reviews, substantiation submittals, commissioning, closeout, and training. In addition, this is the place to locate any general scope requirements that relate to construction operations, such as temporary facilities and controls. This chapter is specifically addressed to the Design-Builder rather than to subcontractors or other construction entities that will not perform any design.	Feb 09	Performance
00840	REFERENCED DOCUMENTS	This chapter includes a complete bibliographic citation for each document referenced elsewhere in the text. Include this chapter if the complete citation is necessary to assure complete understanding of the source of the referenced requirements. That might be the case if the edition date has not been included in the original reference (see File Menu, Summary Info, for the setting to include the edition dates or not).	Aug 09	Performance
00940	MODIFICATIONS	This chapter is a blank document for use in preparing project-specific addenda after receipt of proposals.	Jan 99	Performance

Program Requirements

1	PROGRAM SUMMARY	This chapter includes a brief overview of the project function, intended as a preamble to the actual project program, which must be prepared separately. This preamble identifies the principal occupancies, spaces in the buildings, and some information about existing conditions.	Dec 08	Performance
11	PROJECT PROGRAM	This chapter is the table of contents of the project program, which must be prepared separately. This document also includes a guide to the preparation of a program that interfaces correctly with the performance specifications. See the notes at each contents heading for more information.	Mar 99	Performance

Performance Requirements

111	FACILITY PERFORMANCE	This chapter covers important and fundamental requirements, of both performance and prescriptive types, that apply to the project as a whole or to every element of the project. Topics covered include building codes and other laws affecting design and construction, non-regulatory criteria documents, and global performance requirements that apply to more than one group of elements. Some examples of the latter include energy efficiency, environmentally responsible design (with LEED certification options), expected life span and durability, physical security, and ease of operation and maintenance. In addition, this chapter includes procedures and rules for making choices from the options specified for products and elements (similar to "substitutions" clauses in conventional specifications) and ways to substantiate compliance with specified requirements that apply to all elements and products.	Dec 08	Performance
A	SUBSTRUCTURE	This chapter includes requirements for all building elements that are below grade or in direct contact with the ground, up to the back side of interior finishes, which are covered in Volume C - Interiors. Requirements include provisions for excavation that are necessary to put substructure in place, but do not include other types of excavation, such as site grading and excavation for site utilities.	Feb 06	Performance
A1	FOUNDATIONS	This chapter includes requirements for all types of foundation systems. Requirements include provisions for excavation that are necessary to put foundations in place, but do not include other types of excavation, such as site grading and excavation for site utilities.	Feb 06	Performance
A11	STANDARD FOUNDATIONS	This chapter includes requirements for typical spread footing foundation systems, both pier and linear types, as well as pile and caisson caps. Requirements include provisions for excavation that are necessary to put standard foundations in place, but do not include other types of excavation, such as site grading and excavation for site utilities.	Nov 98	Performance

Chapter	Title	Description	Updated	Catalog
A12	OTHER FOUNDATIONS	This chapter includes requirements for special types of foundation elements, such as piles and caissons, raft foundations, and pole foundations. Chapter A12 also includes systems such as shoring and underpinning that become a permanent part of the foundation, as well as permanent dewatering systems and cofferdams.	Sep 98	Performance
A13	FLOORS ON GRADE	This chapter includes requirements for all types of floors on grade but is focused primarily on concrete slabs. Requirements include provisions for excavation that are necessary to put floors in place, but do not include other types of excavation, such as site grading and excavation for site utilities.	Feb 05	Performance
A19	OTHER FOUNDATION ELEMENTS	This chapter is an outline for specifying any other foundation elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Sep 98	Performance
A2	BASEMENTS	This chapter includes requirements for all structural elements that enclose habitable space below or partially below grade. Requirements include provisions for excavation that are necessary to put basements in place, but do not include other types of excavation, such as site grading and excavation for site utilities.	Feb 06	Performance
A21	BASEMENT EXCAVATION	This chapter includes requirements for excavation that are necessary to put basements in place, but does not include other types of excavation, such as site grading and excavation for site utilities.	Sep 98	Performance
A22	BASEMENT WALLS	This chapter includes requirements for all wall elements that enclose habitable space below or partially below grade, except for applied interior finishes, which are included under interiors in Volume C - Interiors.	Aug 05	Performance
A29	OTHER BASEMENT ELEMENTS	This chapter is an outline for specifying any other basement elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Nov 98	Performance
A9	OTHER SUBSTRUCTURE ELEMENTS	This chapter is an outline for specifying any other substructure elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Nov 98	Performance
B	SHELL	This chapter includes requirements that relate to every element in the shell. In some cases, the performance requirements would apply to every element only if the superstructure is exposed to the weather.	Mar 08	Performance
B1	SUPERSTRUCTURE	This chapter includes requirements that apply to all elements of floor and roof construction above grade and within basements, and elements required for support, including structural frame and load-bearing walls.	Aug 07	Performance
B11	ELEVATED FLOORS	This chapter covers all types of elevated floors, including balcony, mezzanine, and ramp floors, floors elevated for access, stair construction if part of the superstructure, and roof decks intended for occupant live load.	Aug 02	Performance
B12	ROOFS	This chapter covers all types of roofs, including canopies.	Jun 06	Performance
B19	OTHER SUPERSTRUCTURE ELEMENTS	This chapter is an outline for specifying any other superstructure elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Sep 98	Performance
B2	EXTERIOR ENCLOSURE	This chapter includes requirements that apply to all non-structural vertical exterior elements, including openings and elements closing or covering openings.	Aug 05	Performance
B21	EXTERIOR WALLS	This chapter includes exterior walls, balcony walls and railings, parapets, joint sealers, air and vapor barriers, insulation, exterior screens (visual), exterior ceilings and soffits and other exterior elements associated with the exterior enclosure and weather barriers.	Feb 08	Performance
B22	EXTERIOR WINDOWS AND OTHER OPENINGS	This chapter covers windows and ventilation openings in the exterior wall and protection devices for those openings.	Jul 06	Performance
B23	EXTERIOR DOORS	This chapter covers exterior pedestrian doors, vehicular and large doors, special use doors, and exterior gates. The principal elements are door frames, glazing, and hardware, except frames that are an integral part of the exterior wall.	Jul 06	Performance
B24	EXTERIOR WALL FIXTURES	This chapter includes all elements attached to exterior walls. Equipment and service fixtures attached to exterior walls are included in other chapters.	Nov 98	Performance

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B29	OTHER EXTERIOR WALL ELEMENTS	This chapter is an outline for specifying any other exterior wall elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Sep 98	Performance
B3	ROOFING	This chapter includes requirements that apply to all elements from the top of deck on up, including "roofing" on exterior floor decks. The principal elements included are roof coverings, roof openings, and roof fixtures.	Aug 05	Performance
B31	ROOF COVERINGS	This chapter covers all types of roof coverings, unless they are integral to the roof construction.	Aug 07	Performance
B32	ROOF OPENINGS	This chapter covers roof openings and the elements that close those openings, and includes skylights, ventilation openings (for HVAC, fire, smoke, etc.), access openings (hatches, ladders to hatches), and other roof openings.	Feb 07	Performance
B33	ROOF FIXTURES	This chapter includes all elements attached to the roof, except equipment and services. The principal roof fixtures offered in this chapter are mounting brackets/frames and screens for services and equipment, signs, and flagpoles.	Nov 98	Performance
B39	OTHER ROOFING ELEMENTS	This chapter is an outline for specifying any other roofing elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Sep 98	Performance
B9	OTHER SHELL ELEMENTS	This chapter is an outline for specifying any other shell elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Sep 98	Performance
C	INTERIORS	This chapter includes requirements that apply to overall interior design as well as to all elements included within the interiors. Interiors comprise interior construction and interior fixtures.	Feb 06	Performance
C1	INTERIOR CONSTRUCTION	This chapter includes all the fixed construction on the interior of the building, including partitions, doors, ceilings, stairs, and finishes, but not "fittings" such as cabinets, signs, or window treatments.	Jul 07	Performance
C11	PARTITIONS	This chapter includes interior partitions of the following types: fixed, full-height; partial height; demountable; operable; and visually open barriers such as screens and handrails.	Jul 06	Performance
C12	INTERIOR DOORS	This chapter covers all types of interior doors. In addition to the doors themselves, this chapter includes door hardware, frames, and finishes.	May 06	Performance
C13	INTERIOR WINDOWS	This chapter includes both fixed and operable windows for installation in partitions, as well as openings without glazing. It does not include glazed partitions, which are specified in Chapter C11 - Partitions.	Aug 05	Performance
C14	OTHER INTERIOR OPENINGS	This chapter includes all interior louvers and vents not connected to ductwork, such as those installed in doors, partitions, and ceilings for returning air to an adjacent space. Louvers and vents installed as part of ductwork are specified in Chapter D34 - HVAC Distribution.	Sep 99	Performance
C15	STAIRS	This chapter includes requirements for all building stairs, including exterior stairs and fire escapes attached to the building. However, requirements for exterior stair railings are included under Chapter B21 - Exterior Walls, and exterior stairs that are detached from the building are included under Chapter G21 - Pavements and Surfacing.	Jun 06	Performance
C16	INTERIOR FINISHES	This chapter includes all applied finishes on the interior of the building, including on the interior side of exterior wall elements. Any type of finish used for decoration, acoustics, or durability should be included.	Aug 07	Performance
C19	OTHER INTERIOR CONSTRUCTION	This chapter is an outline for specifying any other types of interior construction. No specific elements have been identified for this chapter.	Sep 98	Performance
C2	INTERIOR FIXTURES	This chapter includes elements attached to interior construction that enhance or make possible the full use of the spaces in which they occur. The project program will dictate the need for most of the elements specified. If such fixtures are not specifically mentioned in the project program, they should be described either in this chapter or in one of the more detailed chapters on fixtures, or enumerated by means of an attached list or schedule.	Aug 07	Performance
C21	IDENTIFYING DEVICES	This chapter includes signs, directories, and other identifying devices that are attached to building interior construction. The project program may dictate the need for most of the elements specified. That means that the scope of signage (what signs to provide where) must be explicitly defined either in the project program or in this chapter.	Feb 06	Performance
C22	STORAGE FIXTURES	This chapter includes several types of storage components that are attached to building interiors but are typically modular and (to some extent) relocatable.	Aug 02	Performance

Chapter	Title	Description	Updated	Catalog
C23	WINDOW TREATMENT	This chapter includes several types of control devices for view and natural light that are attached to building interiors. Window treatments apply to both interior and exterior windows. The chapter does not include elements such as draperies, which are considered furnishings.	Aug 07	Performance
C24	ACCESSORY FIXTURES	This chapter includes commonly encountered fixtures that are attached to building construction. Some, like toilet accessories, may not be mentioned in the project program at all. Others may be fully defined in the project program, making it unnecessary to include any description here. The chapter does not include any type of portable fixtures not permanently attached to the building.	Aug 07	Performance
C25	FIXED SEATING	This chapter covers all types of fixed seating.	Feb 06	Performance
C29	OTHER INTERIOR FIXTURES	This chapter is an outline for specifying any other types of interior fixtures.	Sep 98	Performance
C9	OTHER INTERIORS ELEMENTS	This chapter is an outline for specifying any other types of interior elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Sep 98	Performance
D	SERVICES	This chapter includes requirements that apply to all types of services in the project, whether inside or outside buildings. Services are defined as any mechanized, artificial, or unattended means of accomplishing a functional need, as opposed to manual or human-powered means or fixed elements that accomplish the same function.	Sep 00	Performance
D1	CONVEYING SYSTEMS	This chapter includes requirements that apply to all types of vertical and horizontal conveying systems for moving people and objects.	May 06	Performance
D11	ELEVATORS AND LIFTS	This chapter includes electric (or traction) elevators and hydraulic elevators for passengers and freight, sidewalk freight elevators, and vertical and inclined wheelchair lifts and stairway chairlifts.	May 06	Performance
D12	ESCALATORS AND MOVING WALKS	This chapter includes electric stairways and walkways for moving passengers.	Nov 98	Performance
D13	DUMBWAITERS	This chapter includes electric (traction), hydraulic, and hand-powered dumbwaiters for moving relatively small items vertically between floors.	Feb 05	Performance
D19	OTHER CONVEYING SYSTEMS ELEMENTS	This chapter is an outline for specifying other types of conveying systems that do not fit in other chapters.	Sep 98	Performance
D2	WATER AND DRAINAGE	This chapter includes more detailed requirements for water and drainage services. "Water and drainage " is defined as the delivery of water (hot and cold domestic water) to points of utilization and the removal of water, rain water, and liquid waste.	Feb 06	Performance
D21	WATER SUPPLY	This chapter includes more detailed water supply requirements for occupants' and building equipment use, including fire protection systems.	Apr 99	Performance
D22	PLUMBING FIXTURES	This chapter includes more detailed requirements for plumbing fixtures, including restroom fixtures, bathing fixtures, cooking and cleaning fixtures, drinking fountains and water coolers.	Sep 00	Performance
D23	DOMESTIC WATER	This chapter includes more detailed requirements for domestic water distribution systems, including fixtures, pipes, fittings, and equipment necessary for water heating, storage and distribution.	Aug 03	Performance
D24	SANITARY WASTE	This chapter includes more detailed requirements for sanitary waste and vent systems, including pipe, fittings, and equipment necessary for the removal of water and waste materials from the building drainage system to a public or private sewer system. Associated elements include drains, interceptors and separators, and sewage pumps.	Jul 06	Performance
D25	RAIN WATER DRAINAGE	This chapter includes more detailed requirements for the drainage and disposal of rain water and clear wastes from roofs and other areas of the building.	Nov 98	Performance
D29	OTHER WATER AND DRAINAGE ELEMENTS	This chapter includes more detailed requirements for water and drainage elements that do not fit clearly in Chapters D21 - Water Supply, D22 - Plumbing Fixtures, D23 - Domestic Water, D24 - Sanitary Waste, or D25 - Rain Water Drainage. The chapter includes swimming pool supply, treatment, filtering, and drainage; fountain supply, devices for decorative water effects, and drainage; and supplementary drinking water, such as bottled water.	Sep 99	Performance

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Chapter	Title	Description	Updated	Catalog
D3	HVAC - HEATING, VENTILATING, AND AIR CONDITIONING	This chapter includes more detailed requirements for all elements of an HVAC system. HVAC is defined as artificial means of maintaining interior space comfort and air quality. Elements included are energy supply, heat generation, refrigeration, air distribution, hydronic and steam distribution, HVAC controls, and other HVAC elements.	Feb 05	Performance
D31	ENERGY SUPPLY	This chapter includes more detailed requirements for energy sources associated with heating and cooling the building. Energy sources currently included are natural gas, liquefied petroleum, and No.2 diesel fuel oil. Other energy sources can be added.	May 06	Performance
D32	HEAT GENERATION	This chapter includes more detailed requirements for heat generation equipment. Elements specifically included are boilers and furnaces.	Feb 02	Performance
D33	REFRIGERATION	This chapter includes more detailed requirements for refrigeration equipment for building cooling. Elements included are water chillers; cooling towers; and refrigerant units, such as condensing units, packaged terminal air conditioners, heat pumps, and evaporative coolers (swamp coolers).	Feb 05	Performance
D34	AIR DISTRIBUTION	This chapter includes more detailed requirements for air distribution systems (supply, return, and exhaust) and ventilation associated with heating and cooling the building.	Jul 08	Performance
D35	HYDRONIC AND STEAM DISTRIBUTION	This chapter includes more detailed requirements for heating and cooling hydronic systems, and steam and condensate systems, and refrigerant systems associated with heating and cooling the building.	Apr 99	Performance
D36	HVAC CONTROLS	This chapter includes more detailed requirements for controls and instrumentation to monitor and control the equipment associated with heating and cooling the building.	Mar 00	Performance
D39	OTHER HVAC ELEMENTS	This chapter includes more detailed requirements for HVAC elements that do not fit in the other D3 chapters. Specific elements included are dehumidifiers and energy recovery units. Other elements associated with heating and cooling the building can be added.	Aug 03	Performance
D4	FIRE PROTECTION	This chapter includes requirements that relate to all types of fire protection. Fire protection is defined as automatic fire detection, suppression, and warning; automatic smoke control; and artificial measures that contribute to effective manual fire fighting.	Apr 99	Performance
D41	FIRE SPRINKLER AND EXTINGUISHING SYSTEMS	This chapter includes more detailed requirements for sprinkler systems that use water to extinguish fires and other types of automatic extinguishing systems. The most common types are wet-pipe, dry-pipe, pre-action, and deluge fire sprinkler systems. Refer to NFPA 13 "Standard for the Installation of Sprinkler Systems" for an explanation of each.	Feb 07	Performance
D42	STANDPIPE AND HOSE SYSTEMS	This chapter includes more detailed requirements for standpipes and standpipe and hose systems used by the fire department, trained personnel, and building occupants to control and extinguish fires in the building.	Feb 07	Performance
D43	FIRE DETECTION AND ALARM	This chapter includes more requirements for detection and alarm systems as commonly required by code and optional features beyond that required by code. This chapter assumes that an NFPA 72 alarm system is required (that is, that an alarm system other than manual pull stations is actually required).	Nov 06	Performance
D44	SMOKE CONTROL	This chapter is an outline for specifying smoke control elements in excess of those required by code.	Sep 98	Performance
D45	FIRE PROTECTION SPECIALTIES	This chapter includes more detailed requirements for equipment that facilitates manual fire fighting by the occupants of the building, including portable fire extinguishers, fire blankets, and cabinets to hold them.	Nov 06	Performance
D49	OTHER FIRE PROTECTION ELEMENTS	This chapter is an outline for specifying elements of fire protection that do not fit in other chapters. Currently no specific elements are identified for this chapter.	Sep 98	Performance
D5	ELECTRICAL POWER	This chapter includes more detailed requirements that apply to all electrical power elements. Electrical power (as a service) is defined as all the power required to properly operate the electrically operated devices required by the project program and those required for operation of other services.	May 06	Performance
D51	ELECTRICAL ENERGY GENERATION	This chapter includes more detailed requirements for generation of electrical energy. Specific elements included are emergency and standby power systems involving emergency and standby generators, uninterruptible power supplies, and batteries.	Aug 07	Performance

Chapter	Title	Description	Updated	Catalog
D52	SERVICE AND DISTRIBUTION	This chapter includes more detailed requirements for the distribution of electrical power from the source to branch circuit panelboards.	Mar 07	Performance
D53	BRANCH CIRCUITS	This chapter includes more detailed requirements for branch circuits, including receptacles and fixtures.	Nov 98	Performance
D59	OTHER ELECTRICAL POWER ELEMENTS	This chapter is an outline for specifying other elements of electrical power systems that do not fit in other chapters. Currently no specific elements are identified for this chapter.	Sep 98	Performance
D6	ARTIFICIAL LIGHTING	This chapter includes requirements for all types of artificial lighting.	Feb 06	Performance
D61	INTERIOR LIGHTING	This chapter covers interior lighting, including fixtures and lighting control. Elements included are general lighting, accent lighting, emergency lighting, and lighted exit signs.	Apr 99	Performance
D62	EXTERIOR AREA LIGHTING	This chapter covers lighting for outdoor areas such as roadways, parking lots, walkways, and general open areas, both for general illumination purposes and for improved security.	Dec 06	Performance
D63	ATHLETIC LIGHTING	This chapter covers exterior and interior lighting for athletic activities.	May 03	Performance
D69	OTHER ARTIFICIAL LIGHTING ELEMENTS	This chapter is an outline for specifying other elements of artificial lighting that do not fit in other chapters.	Sep 98	Performance
D7	TELECOM-MUNICATIONS	This chapter covers all telecommunications elements, including voice and data (telephone, intercom, and computers), sound reinforcement (public address and music systems), and television (broadcast reception, cable, and closed circuit).	May 05	Performance
D71	VOICE AND DATA	This chapter covers telephone, facsimile, and computer data transmission networks, within and between buildings.	Feb 06	Performance
D72	SOUND REINFORCEMENT	This chapter covers public address and music, including paging.	Mar 01	Performance
D73	TELEVISION	This chapter covers television reception and distribution, including broadcast, cable, and closed circuit.	Mar 01	Performance
D79	OTHER TELECOM-MUNICATIONS ELEMENTS	This chapter is an outline for specifying other elements of telecommunications that do not fit in other chapters. Currently no specific elements are identified for this chapter.	Sep 98	Performance
D8	PROCESS UTILITIES	This chapter is an outline for specifying process utilities.	Nov 98	Performance
D81	PROCESS WATER	This chapter is an outline for specifying process water elements.	Sep 98	Performance
D82	PROCESS WASTE	This chapter is an outline for specifying process waste elements.	Sep 98	Performance
D83	PROCESS GASES	This chapter is an outline for specifying process gas elements.	Sep 98	Performance
D84	PROCESS FUELS	This chapter is an outline for specifying process fuel elements.	Sep 98	Performance
D85	PROCESS HVAC	This chapter is an outline for specifying process HVAC elements.	Sep 98	Performance
D86	PROCESS FIRE PROTECTION	This chapter is an outline for specifying process fire protection elements.	Sep 98	Performance
D87	PROCESS TELECOM-MUNICATIONS	This chapter is an outline for specifying process telecommunications elements.	Sep 98	Performance
D88	PROCESS MEASURE-MENT AND CONTROL	This chapter is an outline for specifying process measurement and control elements.	Sep 98	Performance
D89	OTHER PROCESS UTILITIES ELEMENTS	This chapter is an outline for specifying other process utilities elements.	Sep 98	Performance
D9	OTHER SERVICES	This chapter includes requirements that apply to all types of services that do not clearly fall into any of the other categories. In this respect, services are defined as "mechanized, artificial, automatic or unattended means of accomplishing a functional need, as opposed to manual or human-powered means or fixed, non-moving elements without moving parts or electrical inputs." Most services in this chapter will be combinations of several services or services that assist non-services elements in their function.	Sep 98	Performance

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D91	INTEGRATED FACILITY CONTROLS	This chapter is an outline for specifying facility controls that combine two or more other control systems. For example, building automation systems (BAS) usually combine HVAC controls with security and access control and sometimes elevator controls. this chapter should be used to specify the degree to which the separate control systems specified in other chapters are to be integrated, for automatic (programmed) control and for remote operation.	Sep 98	Performance
D92	SURVEILLANCE AND SECURITY CONTROLS	This chapter covers all types of surveillance and security control systems. Elements included are visual monitoring (cameras), door status monitoring, keyless entry control, remote locking/unlocking, parking controls, and related voice communication and public address.	Mar 01	Performance
D93	SPECIAL GROUNDING SYSTEMS	This chapter covers all grounding systems that are not associated with protection of electrical power or telecommunications systems.	May 06	Performance
D94	CATHODIC PROTECTION	This chapter covers supplementary cathodic protection of underground metal structures, pipelines, and tanks for the purpose of prevention of corrosion. This chapter is not necessary if the design does not include metal underground that is not protected by concrete encasement. In the United States, underground metal petroleum and other storage tanks are required to have cathodic protection by 40 CFR 280.	Feb 06	Performance
D99	OTHER SERVICES ELEMENTS	This chapter is an outline for specifying services elements that do not fit in other chapters. Currently no specific elements are identified for this chapter.	Sep 98	Performance
E	EQUIPMENT AND FURNISHINGS	This chapter covers all types of fixed and movable equipment and furnishings that might occur in any building type.	May 06	Performance
E1	EQUIPMENT	This chapter covers requirements that are common to all types of equipment found in any type of building, other than equipment for specific services functions (found in Volume D).	Sep 98	Performance
E11	GENERAL EQUIPMENT	This chapter covers utilitarian equipment types that might occur in a building of any occupancy. The principal elements are those required for maintenance functions, notably loading and unloading, solid waste removal, window washing, working on roofs, and vacuum cleaning.	Jul 08	Performance
E12	FOOD SERVICE EQUIPMENT	This chapter includes all types of food service equipment and fixtures for commercial and institutional applications, but not movable items that do not require electrical power or plumbing (those would be furnishings).	Aug 07	Performance
E13	COMMERCIAL EQUIPMENT	This chapter is an outline for specifying equipment, for functions that are primarily commercial, involving sales, display, financial transactions, and office activities.	Sep 98	Performance
E14	INSTITUTIONAL EQUIPMENT	This chapter is an outline for specifying requirements for equipment for typically non-commercial functions, principally for educational, religious, health care, and civic facilities.	Sep 98	Performance
E15	RESIDENTIAL EQUIPMENT	This chapter covers equipment used in private residential occupancies; hotels, motels, convents, monasteries, and dormitories; and residential functions of other occupancies. Included are fireplaces and stoves, built-in or large freestanding kitchen appliances, laundry appliances, and other specialty items such as steam baths and saunas.	Oct 98	Performance
E19	OTHER EQUIPMENT	This chapter is an outline for specifying requirements for all other types of equipment.	Sep 98	Performance
E2	FURNISHINGS	This chapter is an outline for specifying requirements that relate to all types of loose furnishings.	Sep 98	Performance
E21	GENERAL FURNISHINGS	This chapter is an outline for specifying requirements that apply to furnishings that would be found in buildings of any type of occupancy.	Sep 98	Performance
E22	FOOD SERVICE FURNISHINGS	This chapter is an outline for specifying requirements that apply to food service furnishings.	Sep 98	Performance
E23	COMMERCIAL FURNISHINGS	This chapter is an outline for specifying requirements that apply to commercial furnishings, other than general furnishings.	Sep 98	Performance
E24	INSTITUTIONAL FURNISHINGS	This chapter is an outline for specifying institutional furnishings, mostly furniture.	Sep 98	Performance
E25	RESIDENTIAL FURNISHINGS	This chapter is an outline for specifying residential furnishings.	Sep 98	Performance

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E29	OTHER FURNISHINGS	This chapter is an outline for specifying other types of furnishings, including accessories.	Sep 98	Performance
F	DEMOLITION	This chapter covers demolition and removal of existing elements. All types of demolition are covered here, whether complete removal of an existing building or partial demolition or removal of site elements. Special requirements for existing hazardous materials that might be encountered are included. Hazards that are specifically addressed are asbestos, lead-based paint, PCB's, and underground petroleum storage tanks.	May 06	Performance
G	SITWORK	This chapter includes requirements that apply to all types of sitework related to building construction, including site services.	May 06	Performance
G1	SITE PREPARATION	This chapter includes requirements that relate to all types of site preparation. Site preparation includes clearing, demolition, relocations, hazardous waste remediation, and earthwork.	Dec 08	Performance
G11	CLEARING	This chapter includes removal of vegetation, trash, and existing items not required for the project. Other than temporary erosion control structures, no "built" elements are involved in this chapter. Most performance requirements for this type of work are already specified in Chapters G and G1.	Sep 98	Performance
G12	EARTHWORK	This chapter includes all earthwork for changing levels, grading, excavating, filling, soil stabilization, and temporary and permanent erosion and sediment control structures made of soil or rock.	Sep 98	Performance
G13	HAZARDOUS WASTE REMEDIATION	This chapter is an outline for specifying extensive hazardous waste cleanup or other types of remediation. It would be expected that such work would require careful analysis and specification based on the particular waste found on the site.	Nov 98	Performance
G19	OTHER SITE PREPARATION	This chapter is an outline for specifying any other aspects of site preparation that do not fit in other chapters. No specific elements or activities have been identified for this chapter.	Sep 98	Performance
G2	SITE IMPROVEMENTS	This chapter includes all types of fixed improvements except services - mainly paving and surfacing, fixtures and equipment, and landscaping.	Dec 08	Performance
G21	PAVEMENTS AND SURFACING	This chapter covers roadways, parking lots, walkways, exterior stairs and ramps not connected to buildings, and exterior sports surfacing. Pavement types include both flexible and rigid materials, as well as unit pavers of all types. Granular surfaces such as gravel, shells, and crushed stone are also included.	Jun 06	Performance
G22	SITE FIXTURES AND EQUIPMENT	This chapter includes all kinds of elements that are installed outdoors, primarily fixed or permanently mounted elements, but may include movable elements.	Jun 06	Performance
G23	LANDSCAPING	This chapter covers plants and turf throughout the site and indoors, plus elements that support or contribute to their maintenance, especially irrigation.	Dec 28	Performance
G29	OTHER SITE IMPROVEMENTS	This chapter is an outline for specifying any other site improvements elements that do not fit in other chapters. No specific elements have been identified for this chapter.	Sep 98	Performance
G3	SITE SERVICES	This chapter covers requirements for site elements of services systems. Only those elements that occur only out-of-doors or in non-habitable site structures are included. It is necessary to include Chapter D - Services, at least, in order to provide a complete description of the services. Site HVAC distribution, lighting, telecommunications, and security controls are completely covered in Volume D.	Feb 06	Performance
G31	WATER SUPPLY	This chapter includes water tanks and reservoirs.	Sep 98	Performance
G32	SANITARY SEWER	This chapter includes sanitary sewer elements located in the site. If the building drain and sanitary sewer are connected to the public sewer utility, this chapter includes requirements for manholes and other elements.	May 06	Performance
G33	STORM SEWER	This chapter includes storm sewer elements located in the site. Elements included are storm sewers, manholes, culverts, lift stations, and sump pumps.	Mar 01	Performance
G34	ELECTRICAL POWER	This chapter includes site electrical power supply and distribution elements located in the site.	Oct 98	Performance
G39	OTHER SITE SERVICES	This chapter is an outline for specifying other elements of site services that cannot be specified in any of the other chapters in Volume D - Services or G - Sitework.	Sep 98	Performance
G9	OTHER SITE CONSTRUCTION	This chapter includes other types of site construction that do not fit in any of the other chapters in Volume G - Sitework. The only element currently included is service tunnels that are not part of substructure or a utility structure applicable to a single utility.	Sep 98	Performance

Chapter	Title	Description	Updated	Catalog
Product Specifications				
X01	GENERAL REQUIREMENTS	Brief specification requirements that apply to all construction contracts, disciplines, or trades. It is primarily intended for "Instructions for Construction" documents, such as for a Design-Builder's construction subcontracts, but can also be included in earlier documents, particularly if any other Product Specifications (Volume X) chapters are included at that time. See Chapter 00830 - Design and Construction Procedures for requirements that apply during the design phase.	May 09	Short Form
X02	SITE CONSTRUCTION	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 2, Site Construction.	Aug 08	Short Form
X03	CONCRETE	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 3, Concrete.	Aug 08	Short Form
X04	MASONRY	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 4, Masonry.	Jul 08	Short Form
X05	METALS	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 5, Metals.	Jul 08	Short Form
X06	WOOD AND PLASTICS	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 6, Wood and Plastics.	Jul 08	Short Form
X07	THERMAL AND MOISTURE PROTECTION	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 7, Thermal and Moisture Protection.	Aug 08	Short Form
X08	DOORS AND WINDOWS	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 8, Doors and Windows.	Aug 08	Short Form
X09	FINISHES	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 9, Finishes.	Aug 08	Short Form
X10	SPECIALTIES	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 10, Specialties.	Jul 08	Short Form
X11	EQUIPMENT	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 11, Equipment.	Mar 08	Short Form
X12	FURNISHINGS	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 12, Furnishings.	Jul 08	Short Form
X13	SPECIAL CONSTRUCTION	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 13, Special Construction.	Jul 08	Short Form
X14	CONVEYING SYSTEMS	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 14, Conveying Systems.	May 06	Short Form
X15	MECHANICAL	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 15, Mechanical.	Aug 08	Short Form
X16	ELECTRICAL	Brief specifications on products related to those described in Volumes A through G, that would be specified in MASTERFORMAT Division 16, Electrical.	Feb 08	Short Form