

## UniFormat™

A Uniform Classification of Construction Systems and Assemblies





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UniFormat<sup>™</sup>: A Uniform Classification of Construction Systems and Assemblies

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## INTRODUCTION

*UniFormat*<sup>™</sup> is an arrangement of construction information based on physical parts of a facility called *functional elements*<sup>1</sup>, otherwise known as *systems and assemblies*. These elements are characterized by their function without identifying the work results<sup>2</sup> that compose them. Elements render a view of a constructed facility different from the view rendered by a breakdown of building materials, products, and activities that comprise work results. In this way, *UniFormat* complements *MasterFormat*™. *UniFormat* subdivides a facility by functional elements and *MasterFormat* subdivides by work results.

As an outcome of this differing view, *UniFormat* is able to achieve consistency in economic evaluation of existing and new projects, enhance reporting of design program information, especially for preliminary project descriptions<sup>3</sup> and performance specifications, and provide a basis for systematic filing information for facility management, drawing details, BIM objects, and construction market data. It also provides a means for the sustainable design evaluation of systems and assemblies in contrast to evaluating individual products.

#### SCOPE

*UniFormat* includes elements for a range of building types and construction related to buildings. Future expansions to *UniFormat* will include elements related to other project types in addition to buildings. Besides elements, detailed titles are presented that provide some designed elements that may apply to any given element; these designed element titles are cross-referenced to *MasterFormat*. The term *designed elements*<sup>4</sup> refers to physical parts of buildings with a particular design, construction, or technical solution.

## **BACKGROUND**

Construction professionals have focused on the need to better organize project information for many years. The project manual concept<sup>5</sup>, 50-Division format<sup>6</sup>, and *MasterFormat* were developed in response to these challenges and have evolved through several revisions. These organizational principles enhance communication within the construction industry, improve the retrieval of construction information, and aid the analysis of construction information particularly during the detailed design and construction of a project.

The construction industry needed a consistent, expandable organizing concept to standardize information developed in addition to those developed more explicitly for organizing construction documents. This included information used to evaluate and compare alternative construction concepts in terms of a facility's functional parts, particularly during early design stages. There was a

<sup>1</sup> Element: "Construction entity part which, in itself or in combination with other such parts, fulfils a predominating function of the construction entity." International Organization for Standardization. ISO 12006-2:2001. *Building construction --Organization of information about construction works -- Part 2: Framework for classification of information.* Geneva, Switzerland: ISO. 2001.

<sup>2</sup> Work result: "Construction result achieved in the production stage or by subsequent alteration, maintenance, or demolition processes and identified by one or more of the following: the particular skill or trade involved; the construction resources used; the part of the construction entity which results; the temporary work or other preparatory or completion work which results "Ibid

<sup>3</sup> Preliminary project description: "Written documentation for Schematic Design phase documents to provide descriptions of the systems and assemblies comprising the project shown in Schematic Design drawings." Construction Specifications Institute. *PPDFormat: A Guide to Developing Preliminary Project Descriptions*. Alexandria, VA: CSI, 2010.

<sup>4</sup> Designed element: "Element for which the work results have been defined." International Organization for Standardization.
<sup>5</sup> Project manual concept is discussed in Construction Specifications Institute. *Project Resource Manual*. New York: McGraw-Hill, 2001. Module 5.9.1.

<sup>6</sup> The 50-Division format is discussed in Construction Specifications Institute. *Project Resource Manual.* New York: McGraw-Hill, 2001. Module 5.5.4.2.

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need for organizing documents for use in reporting the owner's program information and the designer's parameters and criteria for early design stages. There is also a need for an organizational structure for the evaluation of completed buildings. The facility's fiscal model, owner's program, and designer's parameters and criteria continue to evolve through all production phases and can be introduced into and compared with construction documents at any phase.

#### **HISTORY**

Construction information arranged according to functional building elements was first introduced outside of the United States. Elements were included in one of five tables in a comprehensive Swedish classification system known as "SfB." In 1947, Sweden formed a committee of 32 major building industry organizations called *Samarbetskommitten for Byggnadsfr Cgor*, which provided the initials for the classification. Its first work was published in 1950 in the form of general material and work specifications for buildings. This was a collection of codes and practices arranged according to SfB.

The Royal Institute of Chartered Surveyors (UK) published a standard list of elements in 1969, Standard Form of Cost Analysis, which was reprinted in December 1995.<sup>7</sup> The Canadian Institute of Quantity Surveyors published Elemental Cost Analysis Method of Measurement and Pricing.<sup>8</sup>

In the early 1970s, the first element-based classification in the United States was developed by the American Institute of Architects (AIA) for the General Services Administration (GSA). *UniFormat* has since been used by U.S. Federal agencies, RS Means, and others.

In 1989, the ASTM Subcommittee on Building Economics began development of classification for building elements. In 1990, the Construction Specifications Institute (CSI) became active on the working group of this ASTM subcommittee. Other participating organizations include the American Association of Cost Engineers, American Society of Professional Estimators, GSA, Naval Facilities Engineering Command, U.S. Air Force, and U.S. Army Corps of Engineers.

The ASTM Working Group and DoD Tri Service Committee each prepared versions of an element-based format in the first half of 1992. The two formats were similar but not identical. In August 1992, the National Institute of Standards and Technology (NIST) published *UNIFORMAT II: A Recommended Classification for Building Elements and Related Sitework. UNIFORMAT II* was influenced greatly by discussions held at ASTM Working Group meetings.

The first edition of *UniFormat* was published by CSI as an interim edition, based on the work of the ASTM Working Group and the DoD Tri Service Committee. The *UniFormat Interim Edition* was published with the 1992 edition of CSI *Manual of Practice* and included coordination with the 1988 edition of *MasterFormat*. This interim edition was published for trial use and comment.

After the publication of NIST and CSI versions, ASTM<sup>9</sup> balloted and accepted *UNIFORMAT II* in 1993 as ASTM E 1557. The ASTM standard was based on NIST and DoD documents but did not include a numbering system or the low-level element classification. In 1996, ASTM adopted the numbering scheme used in CSI's *UniFormat* for the 1996 edition of ASTM E 1557.

In 1995, CSI and CSC began revising *UniFormat*. Revisions were intended to align ASTM and CSI documents and to coordinate *UniFormat* with *MasterFormat*, 1995 edition. CSI and CSC actively solicited public comments on the *UniFormat* Interim Edition and continued ongoing discussions with ASTM Subcommittee E06.81 to determine the direction for the next edition.

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<sup>&</sup>lt;sup>7</sup> Royal Institute of Chartered Surveyors. *Standard Form of Cost Analysis*. London: RICS, 1969, reprinted 1995, revised 2008

<sup>&</sup>lt;sup>8</sup> Canadian Institute of Quantity Surveyors, *Elemental Cost Analysis Method of Measurement and Pricing*. Toronto, Ontario, Canada: CIQS, first issued 1972, revised 1990, 2006.

Gommittee E6—Building Performance, Subcommittee E06.81—Building Economics.

## THIS EDITION

In 2005, a CSI/CSC task team was appointed to review the contents of *UniFormat* and recommend revisions and improvements. An initial scoping and brainstorming meeting was held at the National Institute of Science and Technology (NIST) headquarters in July 2006 with attendees from CSI, NIST, the ASTM subcommittee, the General Services Administration (GSA), National Institute of Building Sciences (NIBS), the National Building Information Model Standard (NBIMS) Project Committee, and the Naval Facilities Engineering Command (NAVFAC), among others. Outcomes from that meeting served to give direction to the CSI/CSC effort.

Over the next five years, several additional workshops were held and three drafts for commentary were produced. This revised edition of *UniFormat* is the result of decisions made in response to discussion and commentary received.

The CSI/CSC UniFormat Task Team made the following changes to this edition:

- Revised *UniFormat* to increase its usefulness for classifying information for new applications such as Building Information Modeling (BIM).
- Changed the title of the introductory element from "Project Description" to "Introduction" and added additional material on project criteria and owner's development activities.
- Moved stairs from Category C Interiors to B Shell.
- Reorganized Category D Services to reflect more of a systems approach with generic functional categories.
- Provided standardized numbers for Level 4 titles throughout UniFormat.
- Added example performance requirements to many functional elements.
- Separated Related Activities from physical elements in the A Substructure and G Sitework elements. These activities may be included with functional elements as appropriate.
- Placed supplementary components for many functional elements into separate categories to avoid repeating them with each functional element. The Supplementary Components are intended to be included with each functional element in that category as appropriate.
- MasterFormat references have been updated to the 2010 version of MasterFormat.

## **BASIC ORGANIZATION**

*UniFormat* classifies information into the following nine Level 1 elements:

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Α	SUBSTRUCTURE	Е	EQUIPMENT AND FURNISHINGS
В	SHELL	F	SPECIAL CONSTRUCTION AND DEMOLITION
С	INTERIORS	G	BUILDING SITEWORK
D	SERVICES	Z	GENERAL

The nine elemental categories above can be used to arrange preliminary project descriptions, cost information, BIM elements, facility management information, and organizing drawing details. Category Z General is designated by the last letter of the alphabet to ensure that this category will remain last no matter how the content of *UniFormat* may be expanded to cover additional types of construction.

Titles in Levels 1 through 3 can be applied to most project descriptions and preliminary cost estimates. Level 4 provides a more detailed breakdown of the functional elements. Detailed listings below Level 4 provide a checklist of designed elements for selection of design, construction, or technical solutions to allow for a more comprehensive and complete application of *UniFormat*.

## RELATIONSHIP WITH MASTERFORMAT

*MasterFormat* establishes a location for specifying element-based project information within Project Manuals. This location is in Division 01, within 01 80 00 Performance Requirements.

MasterFormat refers to UniFormat for organizing and titling elements. The two documents provide complementary views of project information for such diverse applications as Project Manuals and cost estimating, where reference to both products and functional elements may be useful.

The information in *UniFormat* under *30 Procurement Requirements* and *40 Contracting Requirements* in the Introduction is based on the *MasterFormat* organizational structure for that subject matter. The information in *UniFormat* under *Z10 General Requirements* is also based on the *MasterFormat* organizational structure.

## DIFFERENCES FROM MASTERFORMAT

The primary difference between *UniFormat* and *MasterFormat* lies in how each views construction information. *UniFormat* identifies elements, each with one or more characteristic functions. For example, foundations provide the function to stabilize and support. Numbered *UniFormat* classifications stop above the level of defining the technical solutions used to achieve the function described. The detailed listings in *UniFormat* below Level 4 do provide a checklist of possible construction solutions that relate to *MasterFormat*.

By comparison, information in *MasterFormat* is arranged by *work results*, defined in *MasterFormat* as "permanent or temporary aspects of construction projects achieved in the production stage or by subsequent alteration, maintenance, or demolition processes, through the application of a particular skill or trade to construction resources." This arrangement allows for more specificity in description of the information addressed, but also makes some of the functions served by *UniFormat*, such as preliminary project descriptions, comparison of design choices, or early cost estimates, more difficult or impossible.

Work results are the basic components in *MasterFormat's* view of construction. This view emphasizes the perspective of the product manufacturer, supplier, detailed designer, specifier, cost estimator, and contractor during the detailed design and construction phases.

*UniFormat,* on the other hand, looks at construction the way elements are used. This perspective coincides with the way the user, owner, cost estimator, and designer look at construction during the early design phases and when evaluating completed projects.

This suggests using *UniFormat* for organizing preliminary project descriptions, cost summaries, and performance specifications of entire elements, such as HVAC systems and exterior wall assemblies, and using *MasterFormat* to organize detailed cost estimates and analyses, descriptive specifications, and more detailed information about design choices made.

*UniFormat* and *MasterFormat* titles suggest complementary views of construction products and performance requirements: *UniFormat* names elements that have a determinable function; *MasterFormat* names components that have specifiable characteristics. Because construction information is viewed, used, and manipulated by people with varying interests at the various stages of the project, complementary organizational concepts are helpful.

## **APPLICATION GUIDE**

This application guide suggests basic strategies for numbering and titling elements for information storage and retrieval purposes. It is not intended to describe rigid methods for applying *UniFormat*™ but to develop the user's intuition for using this system consistently.

This application guide also includes important considerations for applying *UniFormat* for organizing cost information, preliminary project descriptions, arranging project manuals, and organizing facility management and construction market information. Discussions are provided for understanding the underlying structure and presentation conventions used and for selecting *UniFormat* numbers and titles.

## SELECTING UNIFORMAT NUMBERS AND TITLES

Not all *UniFormat* titles will be used for a given project. *UniFormat* is an expandable structure that can accommodate additional titles to meet specific requirements. However, designated numbers and titles listed should not be changed. This helps set a consistent arrangement.

*UniFormat* titles are generic, descriptive titles independent of the design solution. *UniFormat* titles are the starting point for elements. When creating a user-defined Level 3 or 4 title, incorporate wording from the parent title so the new titles are complete, clear, and descriptive.

## THE STRUCTURE UNDERLYING UNIFORMAT

The *UniFormat* hierarchy comprises the major categories of construction information separated by their special function. These special functions include the following nine categories:

#### INTRODUCTION

Α	SUBSTRUCTURE	Е	EQUIPMENT AND FURNISHINGS
В	SHELL	F	SPECIAL CONSTRUCTION AND DEMOLITION
С	INTERIORS	G	BUILDING SITEWORK
D	SERVICES	Z	GENERAL

The letters and titles of Level 1 categories are fixed and should not be changed in application. The first category, Introduction, does, not have a letter designation. This allows it to appear first in the list of titles and distinguishes its contents from the other titles. The contents of Introduction are not building systems or assemblies. Instead, it is a collection of basic information that allows users to give readers an introduction to the project before reading details of the building elements in other categories. Introduction contains Procurement and Contracting Requirements and allows *UniFormat* to be used as a stand-alone contracting structure for construction projects, especially design-build applications.

Category Z General, which also does not contain information about building systems or assemblies, is designated by the last letter of the alphabet so that the system can expand beyond building construction and allow this category to remain last.

*UniFormat* divides Level 1 categories into classes of information by separating the categories into the discrete concepts that compose them. Level 2 classes carry the letter of their parent category, plus a two-digit number. Alphanumeric designations and titles of Level 2 classes are also fixed and should not be changed in application.

Levels 3 and 4 are developed by further subdividing Level 2 classes. These subclasses carry the alphanumeric designation of their parent category and class, plus a two-digit number per level, with the two-digit Level 4 numbers being set off by a decimal point as shown in the example below. Alphanumeric designations and titles of Level 3 and 4 subclasses are also fixed and should not be changed in application. Alphanumeric designations for Level 4 that are unassigned within a group of Level 3 subclasses can be assigned by the user.

Detailed listings below Level 4 present specialized design solutions of their parent Level 4 subclasses. Particular materials may be identified (e.g., concrete and steel) to differentiate one specialized solution from another. No standard alphanumeric designation is assigned to these subclasses, though extensions may be assigned by the user. The user-assigned number should carry the alphanumeric designation of the parent Level 4 subclass, plus additional characters, such as a two-digit number, an alphanumeric designator, or the corresponding *MasterFormat* number separated from the Level 4 number by an additional decimal point. The numbering system is as follows (the "CF" appended to the Continuous Footings title below is merely one possible example of how to number such a title):

A	SUBSTRUCTURE	Level 1
A10	Foundations	Level 2
A1010	Standard Foundations	Level 3
A1010.10	Wall Foundations	Level 4
A1010.10.CF	Continuous Footings	Level 5

The numbering system can expand to allow for additional numbers and titles at any level. Should a user choose to use a variety of lower level titles beyond Level 5, the added digits should include any numbering provided for parent subcategories similar to the way demonstrated by the upper level numbering. This allows *UniFormat* to expand in the future and allows users to add titles and numbers for subjects not in the current edition. User-defined numbers and titles that fit within the established framework of *UniFormat* can similarly be added at any level, as long as they do not duplicate the subject matter of any existing title or take the place of any existing number.

## EXTENDING UNIFORMAT BY USING MASTERFORMAT

Some users may want to add *MasterFormat* materials and methods information to a document organized according to *UniFormat*. *MasterFormat* numbers may be included if some materials and methods have been determined. For example, if the building structural frame will be steel but the design solutions for exterior walls have not been determined, *MasterFormat* numbers could be included for B10 Superstructure but not for B20 Exterior Vertical Enclosures. Users may refine documents organized according to *UniFormat* during subsequent design phases as materials and construction activities are determined.

The following is an example application for adding *MasterFormat* numbers to the *UniFormat* alphanumeric designations. A2010 Walls for Subgrade Enclosures is an example where the direct relationship with *MasterFormat* is referenced in the detailed listings below Level 4.

A20	Subgrade Enclosures			
A2010	Walls for Subgrade Enclo	sures		
A2010.10	Subgrade Enclosure Wall C	Construction		
	Cast-in-Place Concrete	03 30 0		

Cast-in-Place Concrete 03 30 00 Cast-in-Place Concrete

Unit Masonry 04 20 00 Unit Masonry

In the example above, a related *MasterFormat* number is not available until the material designations of cast-in-place concrete and unit masonry are included. When the material to be used for Subgrade Enclosure Walls has been decided upon, a *MasterFormat* number can then be added after another decimal point to designate the material to be used for Subgrade Enclosure Wall Construction.

A2020.10.033000 Cast-in-Place Concrete Subgrade Enclosure Wall Construction

A2020.10.042000 Unit Masonry Subgrade Enclosure Wall Construction

This use of *MasterFormat* numbers as an extension for *UniFormat* is available for users who want to indicate direct relationships between the two organizational principles in the project information.

The transition from project information organized according to *UniFormat* to one organized according to *MasterFormat* may be made easier by using *MasterFormat* extensions. If *MasterFormat* number extensions have been added, the document organized according to *UniFormat* may be searched or sorted according to those *MasterFormat* extensions to regroup information according to *MasterFormat*. This may help reveal additional information, for example, a list of all elements of castin-place concrete construction in the project.

## **USING UNIFORMAT**

#### ARRANGING COST INFORMATION

The list of elements or systems serves as a basis to organize cost information. Cost information may be reported in varying degrees of detail; as design decisions are made, the information can be refined. This arrangement of cost information allows for the comparison of various building elements and evaluation of alternative technical solutions, particularly during early design phases. The *UniFormat* cost model can evolve along with a cost model organized according to *MasterFormat*.

These two cost models render different views of the same project and provide details appropriate for different requirements. For example, a cost model organized by *UniFormat* can provide information about the cost of a concrete structure compared with a steel structure, even though there will be more concrete or steel on the project. *UniFormat* provides cost comparison information for the structural function so that the value, cost, and time scheduling of various structural solutions may be evaluated. In comparison, a cost model organized by *MasterFormat* can provide information about the cost of all the concrete and steel on a project regardless of the structural system chosen.

Value analysis requires a consistent naming scheme carried throughout the project. *UniFormat* is particularly useful for value analysis, which requires attaching a cost to a particular use or facility function rather than to particular products and activities. Using *MasterFormat* in combination with element designations organized by *UniFormat* helps the value analyst evaluate value-analysis change proposals.

The Related Activities categories in *UniFormat* may be included with the appropriate functional elements in formulating cost information. The items under Supplementary Components categories in *UniFormat* should be included with the functional elements as appropriate.

#### ARRANGING PRELIMINARY PROJECT DESCRIPTIONS

Preliminary project descriptions are described in the CSI publication *PPDFormat: A Guide to Developing Preliminary Project Descriptions*. A preliminary project description helps the owner understand the various components and systems proposed by the designer for the project. It also serves a requirement normally included in a design services agreement in which the designer must submit a report after completing the schematic design before proceeding to design development. These descriptions may be supported by, and serve as a basis of, an estimate of probable construction costs.

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*UniFormat* provides a logical sequence of elements to describe a construction project before all materials and methods have been determined. *UniFormat* is used to organize, and serves as a checklist for preparing, preliminary project descriptions at various levels of detail.

As the design progresses, both descriptions and the estimate of probable construction cost can be refined. Thus Preliminary Project Descriptions can be used to document the early design process as it progresses. This can begin with the determination and recording of the performance requirements for the various functional elements. The potential technical solutions for value analysis can then be listed. Finally the selected solution and resulting components can be added. The above steps will not move at the same pace for the various functional elements. A Preliminary Project Description can be used to record that progress for the various functional elements so that an up-to-date progress report can be easily produced at any time.

The Related Activities categories in *UniFormat* may be included with the appropriate functional elements in preparing Preliminary Project Descriptions or they may be kept separate. The items under Supplementary Components categories in *UniFormat* may be included with the appropriated functional elements or they can be described separately.

#### ARRANGING PERFORMANCE BASED PROJECT MANUALS

Arranging Project Manuals, or portions of them, according to *UniFormat* is appropriate when performance specifying is the method employed for all or some of the project. Performance specifying can be used at many levels, from a single product to major subsystems or entire projects. It allows the owner to access a range of options, from existing technology to innovative systems and developing technologies. Performance specifying encourages full bidding competition based on nonrestrictive requirements and, in its broadest application, is used for design-build projects. Whether the entire building or only a portion of it is specified using performance specifications, *UniFormat* can be used to organize performance specifications for elements crossing *MasterFormat* section and division boundaries.

The Procurement Requirements and Contracting Requirements in the Introduction may be used for performance based contract documents. The General Requirements in Z General may be used for the same purpose.

A checklist of some performance requirements has been added to many of the functional elements in this edition of *UniFormat*. These performance requirement checklists are not intended to be comprehensive or complete but to provide some examples.

#### ORGANIZING DRAWINGS AND BIM OBJECT LIBRARIES

*UniFormat* numbers and titles can be used as a file-naming convention for library files of standard details and schedules. The Uniform Drawing System (UDS) portion of the U.S. National CAD Standard (NCS) provides a detailed description for this application. Similarly, *UniFormat* can be used to organize BIM element libraries.

Library files are named differently from project files because the information requirements are different and demand different classification and indexing. Library file naming should be grouped by building systems, assemblies, or use because that is the most natural way to search for them. *UniFormat* is the best used for organizing and naming objects representing building systems and assemblies, otherwise known as functional elements. *UniFormat*'s usefulness continues as the solutions to these elements are defined, but as the level of detail increases and more system components are identified, *MasterFormat* also becomes a useful tool for organizing project objects and information. Project detail and object files must also be organized to make it easy to produce

<sup>&</sup>lt;sup>10</sup> National Institute of Building Sciences. *United States National CAD Standard, version 4.0.* Washington, DC: NIBS, 2007, UDS-01.16, "Library Files"

project contract documents, record documents, and facility management documents, possibly from multiple files, and organization by both *UniFormat* and *MasterFormat* make that possible.

The NCS recommends an eight-character designator for naming CAD library schedule files. A numbering system based on *UniFormat* can be used for preliminary phases of a project. *UniFormat* numbers can be used during the construction documents phase for schedules made up of assemblies of materials that might otherwise have separate *MasterFormat* numbers.

#### ARRANGING FACILITIES MANAGEMENT INFORMATION

As *UniFormat* is used for preliminary project descriptions to communicate element concepts to a building owner, preliminary project descriptions can be refined and used to communicate the building's functional elements for real estate due-diligence reports and organizing maintenance and operation programs and data.

*UniFormat* is an ideal organizational framework to describe systems design intent for facility commissioning purposes. *UniFormat* can be used to document how elements function. Preliminary project descriptions can be refined and can evolve through all design phases, ultimately making the commissioning authority's system performance testing and acceptance easier. Descriptions can then be used by the facility operators and maintenance personnel to store information about systems maintenance and operations.

#### ARRANGING CONSTRUCTION MARKET INFORMATION

Market information reporting agencies can use *UniFormat* to describe the facility being reported. *UniFormat* can also be used to assemble, store, and report information about elements separate from and in addition to reports on products and activities. This helps show trends for major elements containing products and activities crossing *MasterFormat* section and division boundaries.

#### ARRANGING INFORMATION FOR DESIGN-BUILD APPLICATIONS

Design-build project delivery has created a need for an organizational structure for communicating functional performance requirements, including organizing design-build requests for proposals. The requirements for a design-build proposal may also include some prescriptive requirements. To communicate project performance and prescriptive requirements to design-build entities in requests for proposals, owners must describe those requirements. In turn, design-build contractors must respond to performance requirements with proposed construction solutions in their proposals. *UniFormat* provides the organizational structure to describe performance and prescriptive requirements as well as for construction solution responses to those requirements.

The Procurement Requirements and Contracting Requirements in the Introduction may be used for design-build contract documents. The General Requirements in Z General may be used for the same purpose.

A checklist of some performance requirements has been added to many of the functional elements in this edition of *UniFormat*. These performance requirement checklists are not intended to be comprehensive or complete but to provide some examples.

# LEVELS ONE THROUGH THREE NUMBERS AND TITLES

## INTRODUCTION

10	PROJECT DESCRIPTION
1010	Project Summary
1020	Project Program
1030	Project Criteria
1040	Existing Conditions
1050	Owner's Work
1090	Funding
20	OWNER DEVELOPMENT
2010	Site Acquisition
2020	Permits
2030	Professional Services
2050	Other Activities
2080	Budget Project Contingencies
2090	Budget Financing
30	PROCUREMENT REQUIREMENTS
3010	Project Delivery
3020	Solicitation
3030	Instructions for Procurement
3040	Available Project Information
3050	Procurement Forms and Supplements
40	CONTRACTING REQUIREMENTS
4010	Contracting Forms and Supplements
4020	Project Forms
4030	Conditions of the Contract
4040	Revisions, Clarifications, and Modifications

## ELEMENT A SUBSTRUCTURE

#### A10 FOUNDATIONS

- A1010 Standard Foundations
- A1020 Special Foundations

#### **A20 SUBGRADE ENCLOSURES**

A2010 Walls for Subgrade Enclosures

#### A40 SLABS-ON-GRADE

- A4010 Standard Slabs-on-Grade
- A4020 Structural Slabs-on-Grade
- A4030 Slab Trenches
- A4040 Pits and Bases
- A4090 Slab-On-Grade Supplementary Components

#### A60 WATER AND GAS MITIGATION

- A6010 Building Subdrainage
- A6020 Off-Gassing Mitigation

#### A90 SUBSTRUCTURE RELATED ACTIVITIES

- A9010 Substructure Excavation
- A9020 Construction Dewatering
- A9030 Excavation Support
- A9040 Soil Treatment

## ELEMENT B SHELL

#### **B10 SUPERSTRUCTURE**

- B1010 Floor Construction
- B1020 Roof Construction
- B1080 Stairs

#### **B20 EXTERIOR VERTICAL ENCLOSURES**

- B2010 Exterior Walls
- B2020 Exterior Windows
- B2050 Exterior Doors and Grilles
- B2070 Exterior Louvers and Vents
- B2080 Exterior Wall Appurtenances
- B2090 Exterior Wall Specialties

#### **B30 EXTERIOR HORIZONTAL ENCLOSURES**

- B3010 Roofing
- B3020 Roof Appurtenances
- B3040 Traffic Bearing Horizontal Enclosures
- B3060 Horizontal Openings
- B3080 Overhead Exterior Enclosures

## **ELEMENT C INTERIORS**

#### C10 INTERIOR CONSTRUCTION

- C1010 Interior Partitions
- C1020 Interior Windows
- C1030 Interior Doors
- C1040 Interior Grilles and Gates
- C1060 Raised Floor Construction
- C1070 Suspended Ceiling Construction
- C1090 Interior Specialties

#### **C20 INTERIOR FINISHES**

- C2010 Wall Finishes
- C2020 Interior Fabrications
- C2030 Flooring
- C2040 Stair Finishes
- C2050 Ceiling Finishes
- C2090 Interior Finish Schedules

## ELEMENT D SERVICES

<u> </u>	.0
D10	CONVEYING
D1010 D1030	Vertical Conveying Systems Horizontal Conveying
D1050	Material Handling
D1080	Operable Access Systems
D20	PLUMBING
D2010	Domestic Water Distribution
D2020	Sanitary Drainage
D2030	Building Support Plumbing Systems
D2050	General Service Compressed-Air
D2060	Process Support Plumbing Systems
D30	HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)
D3010	Facility Fuel Systems
D3020	Heating Systems
D3030	Cooling Systems
D3050	Facility HVAC Distribution Systems
D3060	Ventilation
D3070	Special Purpose HVAC Systems
D40	FIRE PROTECTION
D4010	Fire Suppression
D4030	Fire Protection Specialties
D50	ELECTRICAL
D5010	Facility Power Generation
D5020	Electrical Service and Distribution
D5030	General Purpose Electrical Power
D5040	Lighting Missellandous Floatrical Systems
D5080	Miscellaneous Electrical Systems
D60	COMMUNICATIONS
D6010	Data Communications
D6020	Voice Communications
D6030 D6060	Audio-Video Communication Distributed Communications and Monitoring
D6090	Communications Supplementary Components
D70	ELECTRONIC SAFETY AND SECURITY
D7010 D7030	Access Control and Intrusion Detection  Electronic Surveillance
D7050	Detection and Alarm
D7070	Electronic Monitoring and Control
D7090	Electronic Safety and Security Supplementary Components
D80	INTEGRATED AUTOMATION
D8010	Integrated Automation Facility Controls
EQUIPME	ENT AND FURNISHINGS
E10	EQUIPMENT
E1010	Vehicle and Pedestrian Equipment
E1030	Commercial Equipment

## ELEMENT E E

LQUII WIL	LITT AID I CIVITIOI III CO
E10	EQUIPMENT
E1010	Vehicle and Pedestrian Equipment
E1030	Commercial Equipment
E1040	Institutional Equipment
E1060	Residential Equipment
E1070	Entertainment and Recreational Equipment
E1090	Other Equipment
E20	FURNISHINGS
EZU	FURINISHINGS
E2010	Fixed Furnishings
E2050	Movable Furnishings

## **ELEMENT F SPECIAL CONSTRUCTION AND DEMOLITION**

#### F10 SPECIAL CONSTRUCTION

- F1010 Integrated Construction
- F1020 Special Structures
- F1030 Special Function Construction
- F1050 Special Facility Components
- F1060 Athletic and Recreational Special Construction
- F1080 Special Instrumentation

#### **F20 FACILITY REMEDIATION**

F2010 Hazardous Materials Remediation

#### F30 DEMOLITION

- F3010 Structure Demolition
- F3030 Selective Demolition
- F3050 Structure Moving

## ELEMENT G SITEWORK

#### **G10 SITE PREPARATION**

- G1010 Site Clearing
- G1020 Site Elements Demolition
- G1030 Site Element Relocations
- G1050 Site Remediation
- G1070 Site Earthwork

#### **G20 SITE IMPROVEMENTS**

- G2010 Roadways
- G2020 Parking Lots
- G2030 Pedestrian Plazas and Walkways
- G2040 Airfields
- G2050 Athletic, Recreational, and Playfield Areas
- G2060 Site Development
- G2080 Landscaping

#### **G30 LIQUID AND GAS SITE UTILITIES**

- G3010 Water Utilities
- G3020 Sanitary Sewerage Utilities
- G3030 Storm Drainage Utilities
- G3050 Site Energy Distribution
- G3060 Site Fuel Distribution
- G3090 Liquid and Gas Site Utilities Supplementary Components

#### **G40 ELECTRICAL SITE IMPROVEMENTS**

- G4010 Site Electric Distribution Systems
- G4050 Site Lighting

#### **G50 SITE COMMUNICATIONS**

G5010 Site Communications Systems

#### **G90 MISCELLANEOUS SITE CONSTRUCTION**

G9010 Tunnels

#### **ELEMENT Z GENERAL**

#### **Z10 GENERAL REQUIREMENTS**

- Z1010 Price and Payment Procedures
- Z1020 Administrative Requirements
- Z1040 Quality Requirements
- Z1050 Temporary Facilities and Controls
- Z1060 Product Requirements
- Z1070 Execution and Closeout Requirements
- Z1090 Life Cycle Activities

#### **Z70 TAXES, PERMITS, INSURANCE AND BONDS**

Z7010 Taxes

Z7030 License FeesZ7050 Permit CostsZ7070 Bond Fees

#### **Z90 FEES AND CONTINGENCIES**

Z9010 Overhead

Z9030 Profit

Z9050 Construction Contingencies

Z9090 Financing Costs

# MASTER LIST OF NUMBERS, TITLES, EXPLANATIONS, AND RELATED MasterFormat™ NUMBERS

#### **INFORMATION**

The left column includes the master list of *UniFormat™* numbers and titles in Levels 1-4 and subsequent titles.

The middle column includes related 6-digit classification numbers of *MasterFormat*. Not all of the items have related *MasterFormat* numbers.

The right column includes general descriptions of the Level 4 categories. The explanation together with the detailed listings in the left column under each Level 4 category provide an understanding of the scope of the Level 4 category. Under the headings "See also" are lists of other categories in *UniFormat* which contain elements of work related to the Level 4 category.

## **INTRODUCTION**

NUMBER	TITLE	MF Number	EXPLANATION
10	PROJECT DESCRIPTION		
	See Also:		
	General Requirements: Z10.		
1010	Project Summary	01 10 00	Includes: Brief summary of overall project and each facility that comprises the project.
1010.10	Summary of Work	01 11 00	
1010.30	Multiple Contract Summaries	01 12 00	
1010.50	Work Restrictions	01 14 00	
1020	Project Program		Includes: Description of scope, size, scale, and quality of the project. Includes regulatory requirements, such as applicable codes and other standards that are to govern the design and construction.
1020.10	Site Program		Includes: Description of site development and design requirements, and desired quality. Includes related data sheets used to identify specific program requirements for each site improvement.
1020.50	Facility Program		Includes: Description of required spaces, sizes, quality, materials, relationships, and design requirements. Includes related data sheets used to identify specific program requirements.
1030	Project Criteria		Includes: Project design criteria as imposed by zoning, code, and other legal requirements. Includes other criteria for the design of the project including sustainable design and historic restoration criteria.
1030.10	Zoning Requirements  See Also:  Zoning Permits: 2020.10	01 41 00	
1030.15	Planned Unit Development Requirements  See Also:  Planned Unit Development: 2020.15		
1030.20	Code Analysis	01 41 13	
1030.40	Design Loads		
1030.50	Sustainable Design Requirements  See Also: Sustainable Design Reporting: Z1020.50. Sustainable Design Closeout Documentation: Z1070.70.	01 81 13	
1030.53	Facility Environmental Requirements	01 81 16	
1030.56	Indoor Air Quality Requirements  See Also:  Indoor Air Quality Procedures:  Z1020.70.	01 81 19	
1030.70	Historic Restoration Requirements See Also: Selective Historic Demolition: F3030.70.	01 35 91	

Number	TITLE	MF Number	EXPLANATION
HOMBER		III HOMBER	
	Historic Treatment Procedures: Z1020.70.		
1040	Existing Conditions  See Also: Existing Condition Information:	02 00 00	Includes: Summary of existing conditions that affect development of a project or facilities comprising a project.
	3040.30.		
1040.30	Assessment Surveys Existing Conditions Assessment Exiting Material Assessment Hazardous Material Assessment See Also: Environmental Assessment Information: 3040.40. Existing Material Information: 3040.45. Existing Hazardous Material Information: 3040.50.	02 20 00 02 21 00 02 22 00 02 25 00 02 26 00	
1040.50	Subsurface Investigation Geophysical Investigations Geotechnical Investigations See Also: Geophysical Data: 3040.55. Geotechnical Data: 3040.60.	02 30 00 02 31 00 02 32 00	
1050	Owner's Work Funding	01 11 16	Includes: Summary of work to be completed separately by the owner or separate contractors. Includes work that is performed before, during, or after the work of the project. Includes: Summary of owner's project funding
1090.10	Budget	00 31 16	information. Includes: Summary of the owner's project
1090.30	Sources		budget. Includes: Summary of the owner's project funding sources.
1090.50	Cash Flow		Includes: Summary of the owner's project cash flow requirements or projections.
20	OWNER DEVELOPMENT		•
<b>2010</b> 2010.10	Site Acquisition Site Purchase		Includes: Summary of the owner's securing of the project site.
2010.20 2010.40	Site Lease Rights-of-Way and Easements		
2010.40	Permits  See Also:	00 31 46	Includes: Permits and approvals required for design and construction.
2020.10	Permit Costs: Z7050.  Zoning Permits  See Also:	01 35 63	
2020.15	Zoning Requirements: 1030.10.  Planned Unit Development  See Also:  Planned Unit Development  Requirements: 1030.15.		

Number	TITLE	MF NUMBER	EXPLANATION
2020.30	Building Permits	01 41 26	
2020.30	See Also:	014120	
	Permit Application: 3040.90.		
2020.50	Regulatory Required Permits	01 41 00	
2030	Professional Services		Includes: Summary of professional services to
			be retained by the owner.
2030.10	Project Managers		
2030.20	Design Professionals  Architects		
	Structural Engineers		
	Mechanical, Electrical, and Plumbing Engineers		
	Landscape Architects		
	Civil Engineers		
	Interior Designers		
2030.30	Other Consultants		
	Surveyors		
	Geotechnical Engineers Commissioning Agents		
	Sustainable Design Consultants		
2030.40	Testing Laboratories	01 45 29	
2030.50	Special Inspectors	01 45 23	
2030.60	Attorneys		
2030.70 <b>2050</b>	Land/Project Development Other Activities		Includes: Cummers of owner's other
2050	Other Activities		Includes: Summary of owner's other miscellaneous activities in support of project.
2050.10	Advertising and Promotion		comp.cp.cp.c.
2050.30	Relocations		
	Moving		
	Disruptions		
2050 50	Temporary Relocations		
2050.50 2050.70	Rezoning Code Appeals and Variances	01 41 13	
2080	Budget Project Contingencies	01 11 10	
2080.10	Budget Design Contingencies	01 21 16	Includes: Risk factor applied to the project
			budget to compensate for extent of available
			design definition.
	See Also:		
2080.20	Design Contingencies: Z9050.10.  Budget Construction Contingencies	01 21 16	Includes: Risk factor applied to the project
2000.20	Budget Constitueiton Contingencies	012110	budget to compensate for degree of unknown or
			unforeseeable construction conditions.
2080.40	Budget Unforeseen Subsurface Conditions		Includes: Risk factor applied to the project
			budget to compensate for degree of
			unforeseeable subsurface conditions.
2080.60	Budget Project Delays		Includes: Risk factor applied to the project
			budget to compensate for degree of unforeseeable subsurface conditions.
2090	Budget Financing		Includes: Summary of owner's budget for
			financing of the project.
	See Also:		
	Financing Costs: Z9090.		
2090.10	Construction Loans		
2090.30	Permanent Loans		

Number	TITLE	MF Number	EXPLANATION
<b>30</b> 3010	PROCUREMENT REQUIREMENTS Project Delivery	00 00 00	
3010.10	Project Delivery Methods		Includes: Description of project delivery method such as general contract, multiple prime contracts, construction management, designbuild, or integrated project delivery. Includes qualifications solicitation, qualifications statements, project approach, and project team.
	Design-Bid Build		
	Design-Negotiate Build		
	Construction Management		
	Construction Manager as Advisor (CMa)	00 52 26	
		00 72 26	
	Construction Manager as Constructor (CMc)	00 52 23	
		00 72 23	
	Design-Build	00 52 53	
		00 52 56	
		00 72 53	
		00 72 56	
	Standard		
	Bridging		
	Owner-Build		
	Integrated Project Delivery	00 52 95	
	Drainet Allianeae	00 72 95	
	Project Alliances Single Purposed Entities		
	Relational Contracts		
3010.30	Number of Construction Contracts		Includes: Listing and scope of construction
0010.00	Number of Constitution Contitues		contracts.
	Single Contract		
	Multiple Contracts		
3010.50	Methods of Payment		Includes: Description of methods of payment.
	Stipulated Sum	00 52 13	
		00 52 16	
		00 72 13	
		00 72 16	
	Unit Price	00 52 43	
		00 52 46	
		00 72 43	
	0.18	00 72 46	
	Cost Plus a Fee	00 52 33	
		00 52 36	
		00 72 33	
	Cost Plus a Fee with a Guaranteed Maximum	00 72 36	
	Price (GMP)		
3020	Solicitation	00 10 00	Includes: Project information to attract qualified
3020	Constitution	30 10 00	bidders or proposers.
3020.10	Advertisements and Invitations	00 11 00	1.22510 of proposolo.
3030	Instructions for Procurement	00 20 00	Includes: Conditions affecting the award of the
			contract and procedures with which bidders and proposers must comply.
3030.10	Instructions	00 21 00	
3030.15	Supplementary Instructions	00 22 00	
3030.20	Procurement Definitions	00 23 00	
3030.30	Procurement Scopes	00 24 00	
3030.50	Procurement Meetings	00 25 00	

NUMBER	TITLE	MF NUMBER	EXPLANATION
3030.70 <b>3040</b>	Procurement Substitution Procedures  Available Project Information	00 26 00 00 31 00	Includes: Information that is made available to bidders, proposers, or contractors but that is not normally intended to be included in the contact documents.
3040.10	Preliminary Schedules	00 31 13	
3040.15	Project Budget Information	00 31 16	
3040.30	Existing Condition Information  See Also:  Existing Conditions: 1040.	00 31 19	
3040.35	Survey Information	00 31 21	
3040.40	Environmental Assessment Information	00 31 24	
3040.45	Existing Material Information	00 31 25	
3040.50	Existing Hazardous Material Information  See Also:  Assessment: 1040.30	00 31 26	
3040.55	Geophysical Data	00 31 31	
3040.60	Geotechnical Data  See Also: Subaurface Investigation, 1040 50	00 31 32	
3040.90	Subsurface Investigation: 1040.50. Permit Application See Also:	00 31 43	
3050	Building Permits: 2020.30.  Procurement Forms and Supplements		Includes: Forms and supplements for submitting bids or proposals.
3050.10	Bid Forms	00 41 00	
3050.20	Proposal Forms	00 42 00	
3050.30	Procurement Form Supplements	00 43 00	
3050.50	Representations and Certifications	00 45 00	
40	CONTRACTING REQUIREMENTS	00 00 00	
4010	Contracting Forms and Supplements	00 50 00	Includes: Contract Forms and attachments.
4010.10	Notice of Award	00 51 00	
4010.30	Agreement Forms	00 52 00	
4010.35	Agreement Form Supplements	00 54 00	
4010.50 <b>4020</b>	Notice to Proceed  Project Forms	00 55 00 00 60 00	Includes: Includes forms related to contracting requirements.
4020.10	Bond Forms	00 61 00	- 4
4020.30	Certificates and Other Forms	00 62 00	
4020.50	Clarification and Modification Forms	00 63 00	
4020.70	Closeout Forms	00 65 00	
4030	Conditions of the Contract	00 70 00	Includes: Rights, responsibilities, and relationships of the parties to a construction contract.
4030.10	Contracting Definitions	00 71 00	
4030.30	General Conditions	00 72 00	
4030.35	Supplementary Conditions	00 73 00	
4040	Revisions, Clarifications, and Modifications	00 90 00	Includes: Filing and documentation of revisions, clarifications, and modifications to the construction documents.
4040.10	Precontract Revisions	00 91 00	
4040.30	Record Clarifications and Proposals	00 93 00	
4040.50	Record Modifications	00 94 00	

## **A SUBSTRUCTURE**

Facility Substructure Performance Requirements 01 82 00

Number	Тпш	MF NUMBER	EXPLANATION
A10	FOUNDATIONS		
AIV	Foundations Performance Requirements	01 82 13	
	Load Capacity	01 82 13	
	Settlement	01 82 13	
A1010	Standard Foundations		Includes: Formwork, concrete, masonry and
			reinforcement. Includes Standard Foundation
			Supplementary Components as appropriate.
			May Include: Related Activities: Excavation, dewatering, excavation support systems,
			backfill and compaction, and soil treatment.
	See Also:		and our sompassion, and our source.
	Substructure Excavation: A9010.		
	Construction Dewatering: A9020.		
	Excavation Support Systems:		
	A9030.		
	Backfill and Compaction: A9010.10. Soil Treatment: A9040.		
A1010.10	Wall Foundations		
711010110	Continuous Footings		
	Cast-In-Place Concrete	03 30 00	
	Foundation Walls		
	Cast-In-Place Concrete	03 30 00	
	Precast Concrete	03 40 00 04 20 00	
	Unit Masonry Treated Wood Foundations	04 20 00	
	See Also:	00 14 00	
	Subdrainage Systems: A6010.		
A1010.30	Column Foundations		
	Spread Footings		
	Cast-In-Place Concrete	03 30 00	
	Column Piers Cast-In-Place Concrete	03 30 00	
A1010 90	Standard Foundation Supplementary Components	03 30 00	Includes: Void forms, dampproofing and
711010.00	Standard Foundation Supplementary Components		Insulation, to be included with standard
			foundation elements above as appropriate.
	Void Forms	03 11 00	
	Dampproofing	07 11 00	
A4000	Insulation	07 21 00	May belied a Everystical deviatories
A1020	Special Foundations	31 60 00	May Include: Excavation, dewatering, excavation support systems, backfill and
			compaction, and soil treatment.
	See Also:		•
	Substructure Excavation: A9010.		
	Construction Dewatering: A9020.		
	Excavation Support Systems: A9030.		
	Backfill and Compaction: A9010.10. Soil Treatment: A9040.		
A1020.10	Driven Piles	31 62 00	Includes: Piles, pile driving, pile cut off, pile testing.

#### **A** SUBSTUCTURE

A SUBSTU	ICTURE			
Number	TITLE		MF NUMBER	EXPLANATION
A1020.15	Bored Piles		31 63 00	Includes: Drilling, casing, bell bottom excavation, dewatering, removal of excavated materials, reinforcing, and concrete.
A1020.20	Caissons		31 64 00	Includes: Sunken or driven load-bearing enclosures to protect excavation for foundations, promote substructure construction, and become part of permanent structure.
A1020.30	Special Founda	ition Walls	31 66 16	Includes: Foundation walls of a special design.
	Foundation And		31 68 00	Includes: Anchor assemblies to fasten deep foundations, walls, and similar element to rock or other material.
A1020.50	Underpinning		31 48 00	Includes: Replacing a structural element's foundation while the structural element remains in place.
		See Also:		
		Excavation Support Systems:		
A 4000 = 1	5.65	A9030.	00 = 1 0 =	
A1020.60	Raft Foundation	ns	03 71 00	Includes: Fine grading, subbase layer, mud slab, insulation, vapor retarder, waterproofing, formwork, expansion joints, control joints, reinforcement, concrete, and finishing.
	Cast-In-Pla	ce Concrete	03 30 00	
		See Also:		
		Slab-On-Grade Supplementary Components: A4090.		
A1020.70	·	0	00 00 00	Includes: Formwork, reinforcement, and concrete.
A1020.80	Grade Beams	ce Concrete	03 30 00	Includes: Formwork, reinforcement, and concrete.
	Cast-In-Pla	ce Concrete	03 30 00	
A20	SUBGRAD	E ENCLOSURES		
AZU		Construction Performance	01 82 16	
	Requireme	nts		
		al Resistance Earth Pressures	01 82 16 01 82 16	
		/apor Transmission Resistance	01 82 16	
A2010		grade Enclosures  See Also:	31 02 10	Includes: Perimeter walls enclosing building space below grade. Includes formwork, reinforcing, concrete and masonry. Includes Subgrade Enclosure Wall Supplementary Components as appropriate.  May Include: Related Activities: Excavation, dewatering, excavation support systems, backfill and compaction, and soil treatment.
A2010.10	Subgrade Enclo	Substructure Excavation: A9010. Construction Dewatering: A9020. Excavation Support Systems: A9030. Backfill and Compaction: A9010.10. Soil Treatment: A9040. Desure Wall Construction		
		ce Concrete	03 30 00	
	Precast Co		03 40 00	
	Unit Mason	гу	04 20 00	

			A SUBSTUCTURE
Number	TITLE	MF NUMBER	EXPLANATION
A2010.20	Subgrade Enclosure Wall Interior Skin Plaster and Gypsum Board See Also: Wall Finishes: C2010.	09 20 00	
A2010.90	Subgrade Enclosure Wall Supplementary Components		Includes: Dampproofing, waterproofing, insulation, and vapor retarders to be included with subgrade enclosure wall elements above as appropriate.
	Dampproofing Waterproofing Insulation Vapor Retarder See Also: Perimeter Insulation: A4090.10. Waterproofing below Slabs on Grade: A4090.30. Subdrainage Systems: A6010.	07 11 00 07 10 00 07 20 00 07 26 00	
A40	SLABS-ON-GRADE		
	Slabs-On-Grade Performance Requirements Load Capacity Thermal Resistance Water Vapor Transmission Resistance Levelness	01 82 00 01 82 00 01 82 00 01 82 00 01 82 00	
A4010	Standard Slabs-on-Grade		Includes: Slab construction supported continuously by earth or compacted fill. Includes fine grading, subbase layer, mud slab, insulation, vapor retarder, waterproofing, formwork, expansion joints, control joints, reinforcement, concrete, and finishing. Includes: Slabs-On-Grade Supplementary Components as appropriate.
			May Include: Related Activities: Excavation, dewatering, excavation support systems, backfill and compaction, and soil treatment.
	Cast-In-Place Concrete See Also: Substructure Excavation: A9010. Construction Dewatering: A9020. Excavation Support Systems: A9030. Backfill and Compaction: A9010.10. Soil Treatment: A9040. Subgrade Enclosure Wall Waterproofing: A2010.90.	03 30 00	
A4020	Flooring: C2030. Structural Slabs-on-Grade		Includes: Self-supporting slab construction not supported continuously by earth or compacted fill. Includes formwork, accessories, reinforcement, concrete, and finishing. Includes Slabs-On-Grade Supplementary Components as appropriate.  May Include: Related Activities: Excavation, dewatering, excavation support systems, backfill and compaction, and soil treatment.

#### **A** SUBSTUCTURE

Number	Тітье	MF NUMBER	EXPLANATION
	Cast-In-Place Concrete See Also: Floor Structural Frame: B1010. Flooring: C2030.	03 30 00	
A4030	Slab Trenches		Includes: Linear depressions in slabs on grade to collect and transmit liquids. Includes excavation, formwork, accessories, reinforcement, concrete, finishing, and trench cover.
	Cast-In-Place Concrete	03 30 00	
A4040	Pits and Bases		Includes: Depressions in slabs on grade or protrusions above slabs on grade. Includes formwork, accessories, reinforcement, concrete, finishing, pit covers, and anchor bolts.
	Cast-In-Place Concrete	03 30 00	
A4090	Slab-On-Grade Supplementary Components		Includes: Insulation, vapor retarder, waterproofing, mud slabs, and subbase layer to be included with slab-on-grade elements above as appropriate.
A4090.10	Perimeter Insulation	07 21 00	
	Vapor Retarder	07 26 00	
	Waterproofing	07 10 00	
A4090.50	Subbase Layer	03 30 00 31 23 23	
	•	31 23 23	
A60	WATER AND GAS MITIGATION	00.40.00	The lates of the second second second
A6010	Building Subdrainage	33 46 00	Includes: Systems to collect moisture and water below grade usually located at perimeter of structure or below slabs. Includes excavation, perforated pipe, drainage boards, granular fill, filter fabrics, and connection to storm sewerage systems or to daylight.
	Subdrainage Systems Performance Requirements	01 82 00	
	See Also: Building Support Plumbing Systems: D2030.		
	Retaining Wall Drainage: G2060.60. Site Subdrainage: G3030.60.		
	Foundation Drainage	33 46 13	
A6010.20	Underslab Drainage See Also:	33 46 19	
	Retaining Walls: G2060.		
A6020	Off-Gassing Mitigation	31 21 00	Includes: Mitigation of gases from underground sources.
	Off-Gassing Mitigation Performance Requirements		
A6020.10 A6020.50	Radon Mitigation Methane Mitigation	31 21 13 31 21 16	
A90	SUBSTRUCTURE RELATED ACTIVITIES		May be included with any other substructure element above.
A9010	Substructure Excavation	31 23 16	Includes: Excavation for structures below grade.

			A SUBSTOCTORE
Number	Тіть	MF Number	EXPLANATION
A9010.10	Backfill and Compaction	31 23 23	Includes: Placing backfill and compacting fill in excess excavation for structures below grade.
	Backfill and Compaction Performance	01 82 00	Ç
	Compaction	01 82 00	
	See Also: Site Earthwork: G1070.		
A9020	Construction Dewatering	31 23 19	Includes: Removal of excessive water during
	Ç		construction operations.
	Construction Dewatering Performance		
	Requirements	04 50 00	
A9030	Excavation Support	31 50 00	Includes: Cribbing, anchors, and other means of permanent and temporary support of excavations.
	Excavation Support Performance Requirements	01 82 00	
	Lateral Earth Pressures  See Also:	01 82 00	
	Underpinning: A1020.50.		
A9030.10	Anchor Tiebacks	31 51 00	Includes: Anchor assemblies to support
	Excavation Soil Anchors	31 51 13	
	Excavation Rock Anchors	31 51 16	
A9030.20	Cofferdams	31 52 00	Includes: Watertight enclosure that allow construction operation below the surface of water.
	Sheet Piling Cofferdams	31 52 13	
	Timber Cofferdams	31 52 16	
	Precast Concrete Cofferdams	31 52 19	
A9030.40	Cribbing and Walers	31 53 00	Includes: Structural members to line and support the lining of an excavation.
	Timber Cribwork	31 53 13	
	Ground Freezing	31 54 00	Includes: Stabilizing earthwork by freezing.
A9030.70	Slurry Walls	31 56 00	Includes: Subsurface barriers constructed of trenches filled with a slurry mixture to impede or stop groundwater flow.
	Bentonite Slurry Walls	31 56 13	-
	Attipulgite Slurry Walls	31 56 16	
	Slurry-Geomembrane Composite Slurry Walls	31 56 19	
	Lean Concrete Slurry Walls	31 56 23	
	Bio-Polymer Trench Drain	31 56 26	
A9040	Soil Treatment	31 31 00	Includes: Soil treatments to resist invasion of adjoining structure by pests and growth of vegetation.
	Rodent Control	31 31 13	-
	See Also:		
	Rodent Control Devices: C1090.90		
	Termite Control	31 31 16	
	Vegetation Control	31 31 19	
	See Also:		
	Site Soil Treatment: G1070.90.		

Facility Shell Performance Requirements 01 83 00

Number	TITLE	MF NUMBER	EXPLANATION
B10	SUPERSTRUCTURE		
	Superstructure Performance Requirements	01 83 13	
	See Also:		
	Special Structures: F1020.		
B1010	Floor Construction	04 02 42	
	Floor Construction Performance Requirements  Load Capacity	01 83 13 01 83 13	
	Deflection	01 83 13	
	Vibration	01 83 13	
	Fire Rating	01 83 13	
	Sound Transmission	01 83 13	
	Levelness	01 83 13	
	Thermal Resistance	01 83 13	
	Water Vapor Transmission Resistance	01 83 13	
B1010.10	Floor Structural Frame		Includes: Structural elements required for
			support of floor construction within basements
			and above grade. Includes columns, girders, beams, trusses, joists. Includes cast-in-place
			concrete, precast concrete, unit masonry, metal
			framed, and wood framed systems. Includes
			framed and sleeved openings for services.
			Includes Floor Construction Supplementary
			Components as appropriate.
	Columns Supporting Floors		
	Cast-In-Place Concrete	03 30 00	
	Precast Concrete	03 40 00	
	Unit Masonry	04 20 00	
	Structural Metal Framing Wood Framing	05 10 00 06 11 00	
	Heavy Timber Construction	06 11 00	
	Glued-Laminated Columns	06 18 16	
	Structural Plastics	06 50 00	
	Floor Girders and Beams		
	Cast-In-Place Concrete	03 30 00	
	Precast Concrete	03 40 00	
	Structural Metal Framing	05 10 00	
	Steel Joist Girder Framing	05 21 23	
	Wood Framing Heavy Timber Construction	06 11 00	
	Glued-Laminated Beams	06 13 00 06 18 13	
	Structural Plastics	06 50 00	
	Floor Trusses		
	Structural Metal Framing	05 10 00	
	Cold-Formed Metal Trusses	05 44 00	
	Wood Framing	06 11 00	
	Heavy Timber Trusses	06 13 26	
	Shop-Fabricated Wood Trusses	06 17 53	
	Floor Joists	05 00 00	
	Metal Joists Cold Formed Metal Joist Framing	05 20 00 05 42 00	
	Cold-Formed Metal Joist Framing Wood Framing	05 42 00	
	Wood Frailing	00 11 00	

Number	TITLE	MF Number	Explanation
B1010.20	Wood-I-Joists Metal-Web Wood Joists See Also: Walls for Subgrade Enclosures: A2010. Exterior Load-Bearing Walls: B2010. Interior Load-Bearing Walls: C1010. Floor Decks, Slabs, and Toppings	06 17 33 06 17 36	Includes: Structural slab, deck, and sheathing floor construction at intermediate floors of basement construction and above grade. Includes cast-in-place concrete, precast concrete, cementitious decks and toppings, metal decking, wood sheathing, and wood decking. Includes framed and sleeved penetrations for services and housekeeping pads for equipment. Includes Floor Construction Supplementary Components as appropriate.
B1010.30	Cast-In-Place Concrete Precast Concrete Cast Decks and Underlayment Metal Decking     Acoustical Metal Decking     Raceway Decking Assemblies Structural Panels Wood Decking Sheathing Glued-Laminated Construction Plastic Decking Composite Decking See Also: Raised Floor Construction: C1060. Flooring: C2030.  Balcony Floor Construction	03 30 00 03 40 00 03 50 00 05 30 00 05 34 00 05 35 00 06 12 00 06 15 00 06 16 00 06 18 00 06 53 00 06 73 00	Includes: Structural frame and decks, slabs, and sheathing for balcony construction. Includes framed and sleeved penetrations for services and housekeeping pads for equipment. Includes Floor Construction Supplementary Components as appropriate.
	Cast-In-Place Concrete Precast Concrete Glass Unit Masonry Structural Metal Framing Metal Joists Metal Balconies Wood Framing Structural Panels Heavy Timber Construction Wood Decking Sheathing Shop-Fabricated Structural Wood Glued-Laminated Construction Structural Plastics	03 30 00 03 40 00 04 23 16 05 10 00 05 20 00 05 59 13 06 11 00 06 12 00 06 13 00 06 15 00 06 16 00 06 17 00 06 18 00 06 50 00	

			D OFFICE
Number	TITLE	MF NUMBER	EXPLANATION
B1010.40	Composite Decking  See Also:  Exterior Balcony Railings: B2080.  Traffic Bearing Coatings: B3040.  Exterior Ceilings and Soffits: B3080.  Interior Railings: C1090.  Flooring: C2030.  Mezzanine Floor Construction	06 73 00	Includes: Structural frame and decks, slabs, and sheathing for mezzanine construction. Includes framed and sleeved penetrations for services and housekeeping pads for equipment.
			Includes Floor Construction Supplementary
			Components as appropriate.
	Cast-In-Place Concrete	03 30 00	
	Precast Concrete	03 40 00 04 23 16	
	Glass Unit Masonry	04 23 16	
	Structural Metal Framing Metal Joists	05 10 00	
	Wood Framing	06 11 00	
	Structural Panels	06 12 00	
	Heavy Timber Construction	06 13 00	
	Wood Decking	06 15 00	
	Sheathing	06 16 00	
	Shop-Fabricated Structural Wood	06 17 00	
	Glued-Laminated Construction	06 18 00	
	Structural Plastics	06 50 00	
	Composite Decking	06 73 00	
	See Also:		
	Interior Railings: C1090.		
	Flooring: C2030.		
B1010.50	Modular Mezzanines: F1010.70.		Includes: Structural frame and decks, slabs,
Б1010.50	Kamps		and sheathing for ramp construction.
	Cast-In-Place Concrete	03 30 00	and officialing for famp concludes.
	Precast Concrete	03 40 00	
	Structural Metal Framing	05 10 00	
	Metal Joists	05 20 00	
	Metal Ramps	05 51 36.16	
	Wood Framing	06 11 00	
	Structural Panels	06 12 00	
	Heavy Timber Construction	06 13 00	
	Wood Decking	06 15 00	
	Sheathing	06 16 00	
	Shop-Fabricated Structural Wood	06 17 00	
	Glued-Laminated Construction Structural Plastics	06 18 00 06 50 00	
	Composite Decking	06 73 00	
	See Also:	00 73 00	
	Interior Railings and Handrails:		
	C1090.		
	Flooring: C2030.		
B1010.90	Floor Construction Supplementary Components		Includes: Vapor retarders, air barriers, insulation, fireproofing, firestopping, expansion control, sound, vibration, and seismic control to be included with floor construction elements
			above as appropriate.

D SHELL			
Number	TITLE	MF NUMBER	EXPLANATION
	Grouting	03 60 00	
	Vapor Retarder	07 26 00	
	Air Barrier	07 27 00	
	Insulation	07 20 00	
	Fireproofing	07 80 00	
	See Also:		
	Plaster Fireproofing: C2010 and C2050.		
	Gypsum Board Fireproofing: C2010 and C2050.	)	
	Firestopping	07 84 00	
	Expansion Control	07 95 00	
	Sound, Vibration, and Seismic Control	13 48 00	
B1020	Roof Construction		
	Roof Construction Performance Requirements	01 81 13	
	Load Capacity	01 81 13	
	Fire Rating	01 81 13	
	Sound Transmission	01 81 13	
	Thermal Resistance	01 81 13	
D4000 15	Vapor Transmission Resistance	01 81 13	
B1020.10	Roof Structural Frame		Includes: Structural elements required for support of roof construction. Includes columns, girders, beams, trusses, and joists. Includes
			cast-in-place concrete, precast concrete, unit
			masonry, metal framed, and wood framed
			systems. Includes framed and sleeved
			openings for services. Includes Roof
			Construction Supplementary Components as appropriate.
	Columns Supporting Roofs		• • •
	Cast-In-Place Concrete	03 30 00	
	Precast Concrete	03 40 00	
	Unit Masonry	04 20 00	
	Structural Metal Framing	05 10 00	
	Wood Framing	06 11 00	
	Heavy Timber Construction	06 13 00	
	Glued-Laminated Columns	06 18 16	
	Structural Plastics	06 50 00	
	Roof Girders and Beams		
	Cast-In-Place Concrete	03 30 00	
	Precast Concrete	03 40 00	
	Structural Metal Framing	05 10 00	
	Steel Joist Girder Framing	05 21 23	
	Wood Framing	06 11 00	
	Heavy Timber Construction	06 13 00	
	Glued-Laminated Beams	06 18 13	
	Structural Plastics	06 50 00	
	Roof Trusses		
	Structural Metal Framing	05 10 00	
	Cold-Formed Metal Trusses	05 44 00	
	Wood Framing	06 11 00	
	Heavy Timber Trusses	06 13 26	
	Shop-Fabricated Wood Trusses	06 17 53	
	Roof Joists		
	Metal Joists	05 20 00	
	Cold-Formed Metal Joist Framing	05 42 00	
	Wood Framing	06 11 00	
	Wood-I-Joists	06 17 33	

			<b>D</b> SHELL
Number	TITLE	MF NUMBER	EXPLANATION
	Metal-Web Wood Joists  See Also: Exterior Load-Bearing Walls: B2010. Interior Load-Bearing Partitions: C1010.	06 17 36	
B1020.20	Roof Decks, Slabs, and Sheathing		Includes: Structural roof deck, slab, and sheathing construction. Includes cast-in-place concrete, precast concrete, cementitious decks and toppings, metal decking, wood sheathing, wood decking, timber decking and expansion control. Includes framed and sleeved penetrations for services and housekeeping pads for equipment. Includes Roof Construction Supplementary Components as appropriate.
	Cast-In-Place Concrete Precast Concrete Cast Decks and Underlayment Lightweight Concrete Roof Insulation Metal Decking Acoustical Metal Decking Raceway Decking Assemblies Structural Panels Wood Decking Sheathing Glued-Laminated Construction Plastic Decking Composite Decking See Also: Roofing: B3010.	03 30 00 03 40 00 03 50 00 03 52 00 05 30 00 05 34 00 05 35 00 06 12 00 06 15 00 06 16 00 06 18 00 06 53 00 06 73 00	
B1020.30	Roofing: B3010. Canopy Construction		Includes: Structural frame and decks, slabs,
2.020.00			and sheathing for canopy construction.
	Cast-In-Place Concrete	03 30 00	
	Precast Concrete	03 40 00	
	Structural Metal Framing	05 10 00	
	Canopy Support Truss Assemblies	05 19 19	
	Metal Joists	05 20 00	
	Wood Framing Structural Panels	06 11 00 06 12 00	
	Heavy Timber Construction	06 12 00	
	Wood Decking	06 15 00	
	Sheathing	06 16 00	
	Shop-Fabricated Structural Wood	06 17 00	
	Glued-Laminated Construction	06 18 00	
	Structural Plastics	06 50 00	
	Composite Decking  See Also: Canopy Roofing: B3010.70. Exterior Ceilings and Soffits: B3080. Manufactured Canopies: F1020.60.	06 73 00	
B1020.90	Roof Construction Supplementary Components		Includes: Vapor retarders, air barriers, insulation, fireproofing, firestopping, and expansion control to be included with roof construction elements above as appropriate.
	Grouting	03 60 00	
	Vapor Retarder	07 26 00	

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Number	TITLE	MF NUMBER	EXPLANATION
	Air Barrier	07 27 00	
	Insulation	07 20 00	
	Fireproofing	07 80 00	
	See Also:		
	Plaster Fireproofing: C2010 and		
	C2050.		
	Gypsum Board Fireproofing: C2010		
	and C2050.		
		07.04.00	
	Firestopping	07 84 00 07 95 00	
	Expansion Control See Also:	07 93 00	
	Roofing Vapor Retarder and Insulation: B3010.90.		
B4000			Includes: Stairs fire econos metal walloways
B1080	Stairs		Includes: Stairs, fire escapes, metal walkways, and ladders.
	Stainways Porformance Possiiramente	01 84 16	anu iauucis.
	Stairways Performance Requirements	01 84 16	
B1090 10	Load Capacity Stair Construction	010410	Includes: Structural framing for exterior and
וו .000 ט	Stall Collottuction		interior stairs including treads, risers, and
			landings. Includes fire escapes and ladders.
	Concrete Stair Forming	03 11 23	iananigo. moiddos inc codapes and iaddels.
	Concrete Stair Forming Cast-In-Place Concrete		
	Precast Concrete Stairs	03 30 00 03 41 23	
	Precast Concrete Stair Treads	03 41 23	
	Metal Stairs	05 46 19	
	Metal Stairs  Metal Stair Treads and Nosings	05 51 00	
	Decorative Metal Stairs	05 71 00	
	Wood Stairs	06 43 00	
	See Also:	00 43 00	
	Stair Finishes: C2040.		
	Retractable Stairs: E1060.50.		
	Exterior Steps and Ramps: G2030.		
B1080 30	Stair Soffits		
D1000.00	Plaster and Gypsum Board	09 20 00	
	See Also:	00 20 00	
	Ceiling Finishes: C2050.		
B1080.50	Stair Railings		
	Wire Rope Railings	05 15 00	
	Metal Railings	05 52 00	
	Decorative Metal Railings	05 73 00	
	Wood Railings	06 43 16	
	Plastic Railings	06 63 00	
	Composite Railings	06 81 00	
	See Also:		
	Exterior Railings: B2080.50.		
	Interior Railings: C1090.		
	Fire Escapes	05 51 23	
B1080.70	Metal Walkways	05 51 36	Includes: Catwalks and gratings over horizontal
		05.54.00.75	openings.
	Metal Catwalks	05 51 36.13	
D4000 00	Metal Gratings	05 53 00	
B1080.80		05 51 23	
	See Also:		
	Roof Ladders: B3020.10. Elevators: D1010.10		
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Number	TITLE	MF NUMBER	EXPLANATION
Dan	EXTERIOR VERTICAL FACTORINGS	ı	
B20	EXTERIOR VERTICAL ENCLOSURES		
	Vertical Exterior Enclosure Performance	01 83 16	
D0040	Sustainable Design Requirements	01 83 16	Indudes Estarias Well Complementers
B2010	Exterior Walls		Includes: Exterior Wall Supplementary
			Components as appropriate. Includes Exterior Wall Opening Supplementary Components as
			appropriate.
	Exterior Walls Performance Requirements	01 83 16	
	Wind Load Capacity	01 83 16	
	Fire Rating	01 83 16	
	Thermal Resistance	01 83 16	
	Vapor Transmission Resistance	01 83 16	
	Air Infiltration Resistance	01 83 16	
	Sound Transmission	01 83 16	
	See Also:		
	Exterior Windows: B2020.		
	Exterior Doors and Grilles: B2050. Exterior Louvers and Vents: B2070.		
	Exterior Wall Appurtenances:		
	Exterior Wall Appurterlances. B2080.		
B2010 10	Exterior Wall Veneer		Includes: Nonstructural outside face elements
22010.10	Exterior train contoci		of exterior walls. Includes precast concrete
			veneer, unit masonry veneer, exterior insulation
			and finish systems, manufactured siding, and
			stucco. Includes water repellents, coatings, and
			painting.
	Precast Concrete	03 40 00	
	Unit Masonry	04 20 00	
	Masonry Veneer	04 26 13	
	Exterior Stone Cladding	04 42 00	
	Stone Masonry Veneer Manufactured Masonry	04 43 13 04 70 00	
	Façade Support Truss Assemblies	05 19 13	
	Exterior Finish Carpentry	06 20 13	
	Simulated Stone	06 61 00	
	Water Repellents	07 19 00	
	Exterior Insulation and Finish Systems	07 24 00	
	Wall Panels	07 42 00	
	Faced Panels	07 44 00	
	Siding	07 46 00	
	Cement Plastering Cement Stucco	09 24 00 09 24 23	
	Painting and Coating	09 24 23	
B2010 20	Exterior Wall Construction	03 30 00	Includes: Exterior wall construction including
D2010.20	Exterior Wall Conditability		backup systems for wall veneer. May be
			vertical load bearing. Includes cast-in-place
			concrete walls, precast concrete walls, unit
			masonry walls, metal framed wall systems, and
			wood framed wall systems.
	Cast-In-Place Concrete	03 30 00	
	Precast Concrete	03 40 00	
	Unit Masonry	04 20 00	
	Structural Metal Stud Framing	05 41 00	
	Wood Framing	06 11 00	
	Structural Panels	06 12 00	
	Sheathing	06 16 00	

## $\boldsymbol{B}$ Shell

<b>D</b> OHILLE			
NUMBER	TITLE	MF Number	EXPLANATION
B2010.30	Exterior Wall Interior Skin		Includes: Materials to provide finish or protective covering on inside of face of exterior walls.  May include insulation and vapor retarder.
	Plaster and Gypsum Board  See Also:  Wall Finishes: C2010.	09 20 00	iviay include insulation and vapor retarder.
B2010.40	Fabricated Exterior Wall Assemblies		Includes: Manufactured or fabricated assemblies that include exterior veneer and wall construction within one fabricated assembly and may also include interior skin. Includes Exterior Wall Supplementary Components as appropriate.
	Unit Masonry Panels Fabricated Wall Panel Assemblies Fabricated Faced Panel Assemblies Curtain Wall Assemblies Translucent Wall Assemblies See Also: Window Wall: B2020.30.	04 25 00 07 42 63 07 44 63 08 44 00 08 45 00	
B2010.50	Parapets		Includes: Exterior wall construction above plane of roof. Includes Exterior Wall Veneers.
50040.00	Cast-In-Place Concrete Precast Concrete Unit Masonry Structural Metal Stud Framing Wood Framing Structural Panels Sheathing See Also: Exterior Wall Veneer: B2010.10.	03 30 00 03 40 00 04 20 00 05 41 00 06 11 00 06 12 00 06 16 00	
B2010.60	Equipment Screens		Includes: Exterior wall construction to screen equipment from public view. Includes Exterior Wall Veneers.
	Precast Concrete	03 40 00	
	Unit Masonry Louvered Equipment Enclosures See Also: Exterior Wall Veneer: B2010.10. Exterior Fixed Grilles and Screens:	04 20 00 08 92 00	
B2010.80	B2080.10. Exterior Wall Supplementary Components		Includes: Weather barriers, vapor retarders, air barriers, insulation, and expansion joints to be included with exterior wall elements above as appropriate.
	Grouting Weather Barriers Vapor Retarder Air Barrier Insulation Expansion Joints	03 60 00 07 25 00 07 26 00 07 27 00 07 20 00 07 95 00	
B2010.90	Exterior Wall Opening Supplementary Components	07 00 00	Includes: Lintels, joint sealants, flashing, and sills to be included with exterior wall elements above as appropriate.
	Lintels Joint Sealants Flashing Sills	07 92 00 07 60 00	

Number	TITLE	MF NUMBER	EXPLANATION
B2020	Exterior Windows	08 50 00	Includes: Fixed or operable windows used singly and in multiples located in the exterior vertical enclosure. Includes Exterior Window Supplementary Components as appropriate. Includes windows units with louver blinds integrally set between glass panels. Includes metal, wood, plastic, and composite window units.
			May Include: Wall Opening Supplementary Components as appropriate.
	Exterior Windows Performance Requirements	01 83 16	сотроненся аз арргорнасе.
	Performance Class and Grade	01 83 16	
	Wind Load Capacity	01 83 16	
	Windborne Debris Resistance	01 83 16	
	Thermal Resistance	01 83 16	
	Condensation Resistance	01 83 16	
	Water Resistance	01 83 16	
	Air Infiltration	01 83 16	
	Shading Coefficient	01 83 16	
	Solar Heat Gain Coefficient	01 83 16	
	Visible Light Transmittance	01 83 16	
	Sound Transmission	01 83 16	
	Forced Entry Resistance	01 83 16	
	Bullet Resistance	01 83 16	
	Radio-Frequency-Interference Protection Radiation Protection	01 83 16 01 83 16	
	Pressure Resistance	01 83 16	
	See Also:	010010	
	Exterior Wall Opening		
	Supplementary Components: B2010.90.		
	Exterior Opening Protection Devices: B2080.30.		
	Skylights: B3060.10. Roof Windows: B3060.10.		
	Interior Windows: C1020.		
D0000 40	Window Treatments: E2010.	00 50 00	
B2020.10	Exterior Operating Windows	08 50 00	Includes: Window screens and storm windows.
	Window Screens	08 51 66	
		08 52 66 08 53 66	
		08 54 66	
	Storm Windows	08 51 69	
	Clotti Williad Wo	08 52 69	
		08 53 69	
		08 54 69	
B2020.20	Exterior Fixed Windows	08 50 00	
B2020.30	Exterior Window Wall		
	Storefronts	08 43 00	
	See Also:		
	Curtain Wall Assemblies: B2010.40.		
	Interior Glazed Partitions: C1010.20.		

<b>B</b> SHELL			
Number	TITLE	MF Number	EXPLANATION
B2020.50	Exterior Special Function Windows	08 56 00	Includes: Exterior windows with special characteristics for a special function.
	See Also: Interior Special Function Windows: C1020.50.		
	Exterior Pressure-Resistant Windows Pressure-Resistant Glazing See Also: Exterior Pressure-Resistant Doors: B2050.40. Interior Pressure-Resistant Doors:	08 55 00 08 88 39	
	C1030.70,		
	Exterior Pass Windows  See Also:  Interior Pass Windows: C1020.50.	08 56 19	
	Exterior Radio-Frequency-Interference Shielding Windows	08 56 46	
	See Also: Exterior Radio-Frequency- Interference Shielding Doors: B2050.40.		
	Interior Radio-Frequency- Interference Shielding Windows: C1020.50.		
	Interior Radio-Frequency- Interference Shielding Doors: C1030.70.		
	Exterior Radiation Shielding Windows Radiation-Resistant Glazing See Also: Exterior Radiation Shielding Doors: B2050.40.	08 56 49 08 88 49	
	Interior Radiation Shielding Windows: C1020.50. Interior Radiation Shielding Doors:		
	C1030.70. Radiation Detection and Alarm: D7050.20.		
	Radiation Protection: F1030.50.		
	Exterior Security Windows Security Glazing Ballistics-Resistant Glazing See Also:	08 56 53 08 88 53 08 88 56	
	Exterior Security Doors: B2050.40. Exterior Security Gates: B2050.70. Interior Security Windows: C1020.50.		
	Interior Security Doors: C1030.70. Interior Security Gates: C1040.50. Electronic Safety and Security: D70. Security Equipment: E1040.60. Security Procedures: Z1020.70. Temporary Security Barriers & Enclosures: Z1050.40.		

Number	TITLE		MF NUMBER	EXPLANATION
	Exterior De	tention Windows See Also: Exterior Detention Doors: B2050.40. Interior Detention Windows: C1020.50. Interior Detention Doors: C1030.70. Detention Monitoring and Control: D7070. Detention Equipment: E1040.70. Detention Cell Modules: F1010.10. Metal Detention Enclosures: F1010.50. Detention Project Procedures:	08 56 63	
		Z1020.70. und Control Windows See Also: Exterior Sound Control Doors: B2050.40, Interior Sound Control Windows: C1020.50. Interior Sound Control Doors: C1030.70, B2020.90 Indow Supplementary Components	08 56 73	Includes: Glazing, operating hardware, screens, and other accessories to be included with exterior window elements above as appropriate.
	Hardware Glazing Finishes	See Also: Exterior Wall Opening Supplementary Components: B2010.90. Exterior Opening Protection Devices: B2080.30.	08 75 00 08 80 00	арргорпасе.
B2050	Exterior Doors			Includes: Doors, grilles, and gates located in the exterior vertical enclosure. Includes screen and storm door assemblies. Includes Exterior Door Supplementary Components as appropriate.  May Include: Wall Opening Supplementary Components as appropriate.
	Exterior Doors Performance Requirements Wind Load Capacity Thermal Resistance Air Infiltration Water Resistance Sound Transmission Forced Entry Resistance Bullet Resistance Radio-Frequency-Interference Protection Radiation Protection		01 83 16 01 83 16	, promote the second se

<b>D</b> SHELL			
Number	TITLE	MF Number	EXPLANATION
	Pressure Resistance See Also: Exterior Wall Opening Supplementary Components: B2010.90. Interior Doors: C1030. Interior Grilles: C1040.	01 83 16	
B2050.10	Exterior Entrance Doors	08 42 00	Includes: Exterior personnel door assemblies at exterior main entrances. Includes automatic, revolving, balanced, and other special operating entrance doors, and sliding storefront wall systems. Includes Exterior Door Supplementary Components as appropriate when not part of storefront or curtain wall system.
	Sliding Glass Doors All-Glass Entrances Automatic Entrances Revolving Door Entrances Balanced Door Entrances Sliding Storefronts See Also: Glazed Curtain Wall: B2010.40. Exterior Window Wall: B2020.30. Interior Entrance Doors: C1030.20.	08 32 00 08 42 26 08 42 29 08 42 33 08 42 36 08 43 29	
B2050.20	Exterior Utility Doors	08 10 00	Includes: Exterior personnel doors assemblies other than at main entrances. Includes Exterior Door Supplementary Components as appropriate.
B2050.30	Exterior Oversize Doors		Includes: Large exterior door assemblies to allow for passage of large objects involving a variety of operating methods. Includes Exterior Door Supplementary Components as appropriate including operators and drive mechanisms.
B2050.40	Exterior Coiling Doors Exterior Panel Doors Exterior Sectional Doors Exterior Single-Panel Doors Exterior Multi-Leaf Vertical Lift Doors Exterior Telescoping Vertical Lift Doors Hangar Doors Exterior Special Function Doors	08 33 00 08 36 00 08 36 13 08 36 16 08 36 19 08 36 23 08 34 16 08 30 00	Includes: Exterior door assemblies for a variety
2200.40			of special functions and applications involving a variety of operating methods. Includes Exterior Door Supplementary Components as appropriate including controls and operators.
	Exterior Cold Storage Doors  See Also:  Cold Storage Rooms: F1010.50.	08 34 13	
	Exterior Industrial Doors	08 34 19	

Number TITLE MF NUMBER **EXPLANATION** Exterior Radio-Frequency-Interference Shielding 08 34 46 Doors See Also: Exterior Radio-Frequency-Interference Shielding Windows: B2020.50. Interior Radio-Frequency-Interference Shielding Windows: C1020.50. Interior Radio-Frequency-Interference Shielding Doors: C1030.70. **Exterior Radiation Shielding Doors** 08 34 49 Radiation-Resistant Glazing 08 88 49 See Also: Exterior Radiation Shielding Windows: B2020.50. Interior Radiation Shielding Windows: C1020.50. Interior Radiation Shielding Doors: C1030.70. Radiation Detection and Alarm: D7050.20. Radiation Protection: F1030.50. **Exterior Security Doors** 08 34 53 08 88 53 Security Glazing **Ballistics-Resistant Glazing** 08 88 56 See Also: Exterior Security Windows: B2020.50. Exterior Security Gates: B2050.70. Interior Security Windows: C1020.50. Interior Security Doors: C1030.70. Interior Security Gates: C1040.50. Electronic Safety and Security: D70. Security Equipment: E1040.60. Security Procedures: Z1020.70. Temporary Security Barriers & Enclosures: Z1050.40. **Exterior Detention Doors** 08 34 63 See Also: Exterior Detention Windows: B2020.50. Interior Detention Windows: Interior Detention Doors: C1030.70. Detention Monitoring and Control: D7070. Detention Equipment: E1040.70. Detention Cell Modules: F1010.10. Metal Detention Enclosures: F1010.50. Detention Project Procedures: Z1020.70.

<b>D</b> OHLLL				
NUMBER	TITLE		MF NUMBER	EXPLANATION
	Exterior So	und Control Doors See Also: Exterior Sound Control Windows: B2020.50. Interior Sound Control Windows: C1020.50. Interior Sound Control Doors: C1030.70.	08 34 73	
	Exterior Tra		08 38 00	
	Exterior Pre	Interior Traffic Doors: C1030.70. essure-Resistant Doors See Also: Exterior Pressure-Resistant Windows: B2020.50.	08 39 00	
		Interior Pressure-Resistant Doors: C1030.70. Interior Special Function Doors:		
B2050.60	Exterior Grilles	C1030.70.		Includes: Exterior devices of open construction to provide moveable barrier to provide access through wall or other divider.
	Exterior Co Exterior Fol		08 33 00 08 35 16	
B2050.70	Exterior Gates	Interior Grilles. C1040.10.		Includes: Exterior devices of solid or open construction to provide moveable barrier to provide access through wall or other divider.
		See Also: Interior Gates: C1040.50. Fences and Gates: G2060.		
	Exterior Sec	curity Gates See Also: Exterior Security Windows: B2020.50. Exterior Security Doors: B2050.40. Interior Security Windows: C1020.50. Interior Security Doors: C1030.70. Interior Security Gates: C1040.50. Electronic Safety and Security: D70. Security Equipment: E1040.60. Security Procedures: Z1020.70. Temporary Security Barriers & Enclosures: Z1050.40.	08 34 56	
B2050.90	Exterior Door S	upplementary Components		Includes frames, hardware, glazing and louvers that are part of door to be included with exterior door elements above as appropriate.
	Frames Specialty D Door Hardw Door Glazir Door Louve	ng	08 10 00 08 30 00 08 71 00 08 80 00 08 91 26	

Number	TITLE		MF NUMBER	EXPLANATION	
HOMBER			.VII INUMBER	EAL ENGLION	
	Finishes	See Also:			
		Interior Door Louvers: C2030.90.			
B2070	Exterior Louve		08 90 00	Includes: Exterior louvers which are no integral part of mechanical equipment, louvers connected to ducts.	
B2070.10	Exterior Louver	'S	08 91 00		
	Exterior Lo	uvers Performance Requirements	01 83 16		
		nance Rating	01 83 16		
		oad Capacity	01 83 16		
	Free A		01 83 16		
	_	formance	01 83 16		
		riven Rain Performance Transmission	01 83 16 01 83 16		
	Sound	See Also:	01 83 16		
		Louvered Equipment Screens: B2010.60.			
		Exterior Door Louvers: B2050.90.			
		Interior Louvers: C1090.15.			
		Interior Door Louvers: C2030.90.			
	Exterior Vents		08 95 00		
B2080		Appurtenances			
B2080.10	Exterior Fixed (	Grilles and Screens	10 82 13	Includes: Exterior enclosures, grilles as screens of wood, metal, plastic, and oth materials for a variety of purposes inclusoreening of equipment.	her
	Decorative	Metal	05 70 00	3 1 1	
	Wood Scre	ens	06 49 00		
	Plastic Fab	rications	06 60 00		
	Composite	Fabrications	06 80 00		
		See Also:			
		Equipment Screens: B2010.60.			
		Interior Screens: C1010.			
B2080 30	Exterior Openir	Site Screening Devices: G2060.80.  ng Protection Devices		Includes: Manufactured items such as	louvere
B2000.50	Exterior Operiir	ig Protection Devices		fins, shutters, demountable panels, award sun screens to provide sun control security, insulation, and storm protection exterior of windows, skylights, and entrangled fixed and moveable, manually electrically operated, and automatically controlled devices.	nings, , privacy, on on rances.
		See Also:			
	<b>.</b>	Window Treatments: E2010.	40 74 05		
	Exterior Pro		10 71 00		
	Exterio Storm I	r Sun Control Devices	10 71 13 10 71 16		
	Awnings	raneis	10 71 10		
B2080.50		y Walls and Railings	05 52 00	Includes: Complete balcony wall and ra	ailing
		, : : : : : : : : : : : : : : : : : : :	05 73 00	assemblies. Includes cast-in-place con	-
	Balcony Wa	alls		·	•
		-Place Concrete	03 30 00		
		t Concrete	03 40 00		
	Unit Ma	-	04 20 00		
		ral Metal Stud Framing	05 41 00		
	VVood I	Framing	06 11 00		

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Number	TITLE	MF Number	EXPLANATION
	Sheathing  See Also:  Exterior Wall Veneer: B2010.10.	06 16 00	
	Railings		
	Metal Railings	05 52 00	
	Decorative Metal Railings	05 73 00	
	Wood Railings	06 43 16	
	Plastic Railings	06 63 00	
	Composite Railings	06 81 00	
	See Also:		
	Balcony Floor Construction:		
	B1010.30.		
	Interior Railings: C1090.		
	Stair Railings: B1080.50.		
B2080.70	Exterior Fabrications		Includes: Exterior fabrications of a variety of
			materials formed to various profiles for a variety of purposes including column covers.
	Glass-Fiber-Reinforced Concrete	03 49 00	
	Metal Fabrications	05 50 00	
	Column Covers	05 58 13	
	Decorative Metal	05 70 00	
	Ornamental Woodwork	06 44 00	
	Plastic Fabrications	06 60 00	
	Simulated Stone Fabrications	06 61 00	
	Composite Fabrications	06 80 00	
	Plaster Fabrications	09 27 00	
	See Also:		
	Interior Fabrications: C2020.		
B2080.80	Bird Control Devices	10 81 13	Includes: Mechanical, electrical, physical, and chemical repellant systems, and protective devices.
	See Also:		
	Pest Control Devices: C1090.90.		
B2090	Exterior Wall Specialties	10 74 00	Includes: Complete fabrication of metal, wood, and fiberglass, including accessories and
	Wall Specialties	07 77 00	appurtenances.
	Wall Specialties Exterior Clocks	07 77 00 10 74 13	
	Below-Grade Egress Assemblies	10 74 13	
	Window Wells	10 74 46	
	See Also:	10 74 40	
	Roof Specialties: B3020.30.		
B30	EXTERIOR HORIZONTAL ENCLOSURES		
	Horizontal Exterior Enclosure Performance	01 83 16	
B3010	Roofing		
	Roofing Performance Requirements	01 83 19	
	Sustainable Design Requirements	01 83 19	
	See Also:		
	Roof Construction: B1020.		

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NUMBER	TITLE	MF NUMBER	EXPLANATION
B3010.10	Steep Slope Roofing	07 30 00	Includes: Lapped roofing shingles, shakes and roofing tiles, including fastening and flashing products and methods. Includes Roofing Supplementary Components as appropriate.
	Steep Roofing Performance Requirements	01 83 19	
	Sustainable Design Requirements	01 83 19	
	Fire Rating	01 83 19	
	Exterior Fire-Test Exposure	01 83 19	
	Wind Resistance	01 83 19	
		01 83 19	
	Wind Uplift Resistance		
	FMG Fire/Windstorm Rating	01 83 19	
	FMG Hail Resistance Rating	01 83 19	
	Impact Resistance	01 83 19	
	Thermal Resistance	01 83 19	
	Exposed Surface Solar Reflectance	01 83 19	
	Energy Performance Water Vapor Transmission Resistance	01 83 19 01 83 19	
	·	01 83 19	
	Roofing Weight Roofing Shingles and Shakes	07 31 00	
	Roof Tiles	07 31 00	
	Roof Panels	07 41 00	
	Sheet Metal Roofing	07 41 00	
	Sheet Metal Roofing Specialties	07 63 00	
	See Also:	07 03 00	
	Rainwater Management: B3020.70.		
B3010 50	Low-Slope Roofing		Includes: Includes membrane roofing of various
B3010.30	Low-Glope Rooming		types and protected membrane roofing, including fastening and flashing products. Includes Roofing Supplementary Components as appropriate.
	Low-Slope Roofing Performance Requirements	01 83 19	
	Sustainable Design Requirements	01 83 19	
	Fire Rating	01 83 19	
	Exterior Fire-Test Exposure	01 83 19	
	Wind Uplift Resistance	01 83 19	
	FMG Fire/Windstorm Rating	01 83 19	
	FMG Hail Resistance Rating	01 83 19	
	Thermal Resistance	01 83 19	
	Exposed Surface Solar Reflectance	01 83 19	
	Energy Performance	01 83 19	
	Water Vapor Transmission Resistance	01 83 19	
	Roofing Weight	01 83 19	
	Low-Slope Roofing Membrane	07 50 00	
	Protected Membrane Roofing	07 55 00	
	Low-Slope Roofing Cover	07 50 00	
	Roofing Ballast	07 50 00	
	Roofing Gravel		
	Roofing Pavers	07 76 00	
	Roofing Coatings		
	Vegetated Low-Slope Roofing	07 55 63	
	See Also:		
	Rainwater Management: B3020.70.		
	Traffic Bearing Horizontal		
	Enclosures: B3040.		

Number	Тітье	MF NUMBER	EXPLANATION
	Canopy Roofing		Includes: Roofing of various types over canopies. Includes Roofing Supplementary Components as appropriate.
	See Also: Canopy Frame: B1020.30. Exterior Ceilings and Soffits: B308 Manufactured Canopies: F1020.60		
B3010.90	Roofing Supplementary Components		Includes: Substrate boards, vapor retarder, air barriers, deck insulation, flashing and sheet metal, and expansion joints to be included with roofing elements above as appropriate.
	Substrate Board Deck Insulation Vapor Retarder Air Barrier Sheet Metal Flashing and Trim Flexible Flashing Copings Counterflashing Systems Gravel Stops and Fascias Expansion Joints See Also: Lightweight Concrete Roof Insulation: B1020.20. Roof Construction Vapor Retarders and Air Barriers: B1020.90. Roof Construction Insulation: B1020.90. Rainwater Management: B3020.70		
B3020	Roof Appurtenances		Includes: Roof specialties and accessories installed on or in roofing or traffic bearing horizontal enclosure systems. Includes components for the management of rainwater. Includes accessories installed on and in roofing other than mechanical and structural items.
	See Also: Vents and Hatches: B3060.50.		
B3020.10	Roof Accessories	07 72 00	
	Roof Ladders  See Also:  Ladders: B1080.80.	05 51 33	
	Roof Curbs	07 72 13	
	Relief Vents	07 72 23	
	Ridge Vents	07 72 26	
	Roof Walkways Snow Guards	07 72 46 07 72 53	
B3020 30	Roof Specialties	10 74 00	
20020.00	Cupolas	10 74 00	
	Spires	10 74 26	
	Steeples	10 74 29	
	Weathervanes	10 74 33	
	See Also:		
	Sheet Metal Roofing Specialties: B3010.10.		

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Number	TITLE	MF Number	EXPLANATION
B3020.70	Rainwater Management		Includes: Components to manage rain water from roofing and traffic bearing horizontal enclosures.
	Conductor Heads		Cholodardo.
	Gutters	07 71 23	
	Downspouts	07 71 23	
	Scuppers	07 71 23	
	Precast Concrete Splash Blocks	03 48 16	
	See Also:	03 40 10	
	Stormwater Drainage Piping		
	System: D2030.20		
B3040	Traffic Bearing Horizontal Enclosures		
D0040	Traine Bearing Horizontal Enclosures		Includes: Horizontal enclosures that are also
			traffic bearing. Includes Horizontal Enclosure
			Supplementary Components as appropriate.
	Traffic Bearing Horizontal Enclosures	01 83 16	cappionianally compensions as appropriate.
	Fire Rating	01 83 16	
	Exterior Fire-Test Exposure	01 83 16	
	Wind Uplift Resistance	01 83 16	
	Thermal Resistance	01 83 16	
	Water Vapor Transmission Resistance	01 83 16	
	Slip Resistance	01 83 16	
	System Weight	01 83 16	
	See Also:	01 05 10	
	Low Slope Roofing: B3010.		
	Roof Appurtenances: B3020.		
	Rainwater Management: B3020.70.		
B3040 10	Traffic Bearing Coatings	07 18 00	Includes: Surface applied waterproofing
20010.10	Traine Bearing Countings	07 10 00	exposed to weather and suitable for pedestrian or vehicular traffic.
B3040.30	Horizontal Waterproofing Membrane	07 10 00	Includes waterproofing membranes of various types. Includes substrate board, deck
			insulation, vapor retarder, sheet metal flashing
			and trim, flexible flashing, and expansion joints.
B3040.50	Wear Surfaces		Includes: Wearing surfaces on top of horizontal
			waterproofing membrane that are suitable for
			pedestrian or vehicular traffic.
	Roof Pavers	07 76 00	
	Rigid Paving	32 13 00	
	Unit Pavers	32 14 00	
B3040.90	Horizontal Enclosure Supplementary Components		Includes: Substrate board, deck insulation,
	, , ,		vapor retarder, sheet metal flashing and trim,
			flexible flashing, and expansion joints to be
			included with horizontal enclosure elements
			above as appropriate.
	Substrate Board	09 28 00	
	Deck Insulation	07 20 00	
	Vapor Retarder	07 26 00	
	Sheet Metal Flashing and Trim	07 62 00	
	Flexible Flashing	07 65 00	
	Copings	07 71 13	
	Counterflashing Systems	07 71 16	
	Gravel Stops and Fascias	07 71 19	
	Expansion Joints	07 71 29	
	See Also:		
	Rainwater Management: B3020.70.		

Number	TITLE	MF NUMBER	EXPLANATION
B3060	Horizontal Openings		Includes: Openings in horizontal enclosures
D3000	nonzontal openings		includes. Openings in nonzontal enclosures including roofing and traffic bearing horizontal
			enclosures. Includes Horizontal Opening
			Supplementary Components as appropriate.
	Horizontal Openings Performance Requirements		
B3060.10	Roof Windows and Skylights	08 60 00	
	Roof Window and Skylight Performance Load Capacity	01 83 16 01 83 16	
	Concentrated Loads	01 83 16	
	Deflection	01 83 16	
	Thermal Resistance	01 83 16	
	Solar Heat Gain	01 83 16	
	Visible Light Transmittance	01 83 16	
	Air Infiltration Resistance	01 83 16	
	Roof Windows	08 61 00	Includes: Operable and non-operable roof windows.
	Unit Skylights	08 62 00	Includes: Skylights without framing with plastic
	Offic Oryngino	00 02 00	and glass glazing.
	Framed Skylights		Includes: Skylights with framing.
	Metal-Framed Skylights	08 63 00	, ,
	Plastic-Framed Skylights	08 64 00	
	Skylight Protection and Screens	08 67 00	
	See Also:		
B3060 50	Exterior Windows: B2020. Vents and Hatches		Includes: Other roof openings such as roof
D3000.30	vents and matches		hatches, smoke vents, and gravity roof
			ventilators.
	Roof Hatches	07 72 33	
	Smoke Vents	07 72 36	
	See Also:		
	Roof Appurtenances: B3020. Elevators: D1010.10.		
B3060 90	Horizontal Opening Supplementary Components		Includes: Frames, hardware, glazing, flashing,
D0000.00	Tionzonial opening supplementary compensate		and joint sealants to be included with horizontal
			opening elements above as appropriate.
	Frames		
	Hardware	08 75 00	
	Glazing	08 80 00	
	Flashing Joint Sealants	07 60 00 07 92 00	
B3080	Overhead Exterior Enclosures	01 92 00	Includes: Exposed to weather construction
20000	Oromoda Extend Enclosures		under horizontal enclosure construction.
			Includes suspension and support systems,
			insulation, vapor retarders, and air barriers.
	Overhead Exterior Enclosures Performance	01 83 16	
	Wind Load Capacity	01 83 16	
	Thermal Resistance	01 83 16	
	Vapor Transmission Resistance	01 83 16 01 83 16	
B3080 10	Fire Rating Exterior Ceilings	01 00 10	
20000.10	Wall Panels	07 42 00	
	Faced Panels	07 44 00	
	Plaster and Gypsum Board	09 20 00	
	Specialty Ceilings	09 54 00	
	Textured Ceilings	09 56 00	

Number	TITLE	MF Number	EXPLANATION
	Painting and Coating See Also: Interior Suspended Ceiling Construction: C1070.	09 90 00	
B3080.20	Exterior Soffits		
	Soffit Panels	07 42 93	
	Faced Panels	07 44 00	
	Plaster and Gypsum Board	09 20 00	
	Specialty Ceilings	09 54 00	
	Textured Ceilings	09 56 00	
	Painting and Coating	09 90 00	
	Soffit Vents	08 95 13	
B3080.30	Exterior Bulkheads		
	Wall Panels	07 42 00	
	Faced Panels	07 44 00	
	Plaster and Gypsum Board	09 20 00	
	Specialty Ceilings	09 54 00	
	Textured Ceilings	09 56 00	
	Painting and Coating	09 90 00	

Interiors Performance Requirement 01 84 00

Number	Тітье	MF NUMBER	EXPLANATION
C10	INTERIOR CONSTRUCTION		
C1010	Interior Construction Performance Requirements Interior Partitions Interior Partitions Performance Requirements Lateral Load Capacity Fire Rating Sound Transmission Thermal Resistance Water Vapor Transmission Resistance Bullet Resistance Radio-Frequency-Interference Protection Radiation Protection See Also:	01 84 13 10 22 00 01 84 13 01 84 13	
C1010.10	Applied Wall Finishes: C2010. Interior Fixed Partitions		Includes: Enclosures and partitions which are fixed and secured in place. Includes walls of concrete; and masonry; and wood and metal stud partitions with associated wall surfaces. Includes partitions of an open nature, such as wire mesh partitions. Partitions may be load bearing or non-load bearing. Includes Interior Partition Supplementary Components as appropriate.
	Cast-In-Place Concrete Precast Concrete Unit Masonry Structural Metal Stud Framing Wood Framing Plaster and Gypsum Board Wire Mesh Partitions See Also: Compartments and Cubicles: C1090.	03 30 00 03 40 00 04 20 00 05 41 00 06 11 00 09 20 00 10 22 13	
C1010.20	Interior Glazed Partitions		Includes: Partitions primarily composed of glazed elements that may be fabricated or field constructed. Includes Interior Partition Supplementary Components as appropriate.
	Storefronts	08 43 00	
	See Also: Exterior Window Walls: B2020.30.		
C1010.40	Interior Demountable Partitions	10 22 19	Includes: Partitions which can be demounted and relocated with minimum of labor.
	Interior Demountable Partitions Performance Requirements	01 84 13	
	Lateral Load Capacity	01 84 13	
	Fire Rating	01 84 13	
	Sound Transmission	01 84 13	
	Flame Spread Index	01 84 13	
	Smoke Developed Index Demountable Metal Partitions	01 84 13 10 22 19.13	
	Demountable Metal Fattitions	10 44 19.13	

Number	TITLE	MF Number	EXPLANATION
MUNIDER			EAF LANATION
	Demountable Wood Partitions	10 22 19.23	
	Demountable Plastic Partitions	10 22 19.33	
	Demountable Composite Partitions	10 22 19.43	
C1010 F0	Demountable Gypsum Partitions	10 22 19.53	Includes. Track supported energhle penals
C 10 10.50	Interior Operable Partitions		Includes: Track-supported, operable panels and partitions, top hung and floor supported,
			and manually and power operated. Includes
			auditorium partitions and dividers. Includes
			overhead supports.
	Interior Operable Partitions Performance	01 84 13	• • • • • • • • • • • • • • • • • • • •
	Requirements	0.0	
	Fire Rating	01 84 13	
	Sound Transmission	01 84 13	
	Noise Isolation	01 84 13	
	Sound Adsorption	01 84 13	
	Flame Spread Index	01 84 13	
	Smoke Developed Index	01 84 13	
	Accordion Folding Partitions	10 22 33	
	Coiling Partitions	10 22 36	
	Folding Panel Partitions	10 22 39	
	Sliding Partitions	10 22 43	
	See Also: Interior Sliding Doors: C1030.25.		
	Interior Silding Doors: C1030.25.  Interior Folding Doors: C1030.30.		
	Gymnasium Dividers: E1070.50.		
C1010 70	Interior Screens		Includes: Portable and open dividers.
01010.70	Portable Partitions, Screens and Panels	10 22 23	molados. Fortable and open arriacie.
	Grilles and Screens	10 82 23	
	See Also:		
	Interior Grilles and Gates: C1040.		
C1010.90	Interior Partition Supplementary Components		Includes: Sound isolation components,
			firestopping, and expansion control to be
			included with interior partition elements above
	Oarmad In alaking	40.40.00	as appropriate.
	Sound Isolation	13 48 00	
	Acoustic Insulation Firestopping	09 81 00 07 84 00	
	Expansion Control	07 84 00 07 95 00	
C1020	Interior Windows	08 50 00	Includes: Interior fixed or operable windows
01020	interior Windows	00 00 00	used singly and in multiples. Includes Interior
			Window Supplementary Components as
			appropriate. Includes metal, wood, plastic, and
			composite window units.
	Interior Windows Performance Requirements	01 84 13	
	Fire Rating	01 84 13	
	Sound Transmission	01 84 13	
	Forced Entry Resistance	01 84 13	
	Bullet Resistance	01 84 13	
	Radio-Frequency-Interference Protection	01 84 13	
	Radiation Protection	01 84 13	
	See Also:		
	Exterior Windows: B2020. Interior Glazed Partitions:		
	C1010.20.		
C1020 10	Interior Operating Windows	08 50 00	
	Interior Eixed Windows	08 50 00	
		55 55 50	

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NUMBER	Тітье	MF Number	EXPLANATION
C1020.50	Interior Special Function Windows	08 56 00	Includes interior windows with special characteristics for a special function.
	Interior Observation Windows Interior Pass Windows See Also: Exterior Pass Windows:	08 56 19 82020 50	
	Interior Radio-Frequency-Interference Windows		
	See Also: Exterior Radio-Frequenc Interference Shielding W B2020.50.	=	
	Exterior Radio-Frequenc Interference Shielding D B2050.40.	-	
	Interior Radio-Frequency Interference Shielding D C1030.70.		
	Interior Radiation Shielding Windows Radiation-Resistant Glazing See Also: Exterior Radiation Shield Windows: B2020.50.	08 88 49	
	Exterior Radiation Shield B2050.40.	ding Doors:	
	Interior Radiation Shield C1030.70.	ing Doors:	
	Radiation Detection and D7050.20.		
	Radiation Protection: Fit Interior Security Windows Security Glazing Ballistics-Resistant Glazing See Also: Exterior Security Window B2020.50. Exterior Security Doors: Exterior Security Gates: Interior Security Gates: Interior Security Gates: Electronic Safety and Security Equipment: E1 Security Procedures: Z Temporary Security Bara Enclosures: Z1050.40. Interior Detention Windows	08 56 53 08 88 53 08 88 56 WS: B2050.40. B2050.70. C1030.70. C1040.50. ecurity: D70. 040.60. 1020.70. riers &	
	See Also: Exterior Detention Windows See Also: Exterior Detention Windo B2020.50. Exterior Detention Doors B2050.40. Interior Detention Doors. Detention Monitoring and D7070. Detention Equipment: E Metal Detention Enclosu F1010.50.	s: : C1030.70. d Control: :1040.70.	

Number	TITLE	MF NUMBER	EXPLANATION
	Detention Project Procedures: Z1020.70.		
	Interior Sound Control Windows	08 56 73	
	See Also:	00 00 73	
	Exterior Sound Control Windows:		
	B2020.50.		
	Exterior Sound Control Doors:		
	B2050.40.		
	Interior Sound Control Doors:		
	C1030.70.		
C1020.90	Interior Window Supplementary Components		Includes: Frames, sills, operating hardware, glazing to be included with interior window elements above as appropriate.
	Frames and Sills		
	Hardware	08 75 00	
	Glazing	08 80 00	
	Finishes		
C1030	Interior Doors	08 10 00	Includes: Interior door assemblies. Includes metal doors and frames, wood doors and frames, plastic doors, and composite doors.
			Includes Interior Door Supplementary Components as appropriate.
	Interior Doors Performance Requirements	01 84 13	остронена аз арргорнате.
	Fire Rating	01 84 13	
	Temperature-Rise Limit	01 84 13	
	Sound Transmission	01 84 13	
	Thermal Resistance	01 84 13	
	Forced Entry Resistance	01 84 13	
	Bullet Resistance	01 84 13	
	Radio-Frequency-Interference Protection	01 84 13	
	Radiation Protection	01 84 13	
	Pressure Resistance See Also:	01 84 13	
	See Also. Exterior Doors: B2050.		
C1030 10	Interior Swinging Doors	08 10 00	
	Interior Entrance Doors	08 42 00	Includes: Exterior personnel door assemblies
			at interior main entrances. Includes automatic, revolving, balanced, and other special operating entrance doors, and sliding storefront wall systems. Includes Interior Door Supplementary
			Components as appropriate when not part of storefront system.
	All-Glass Entrances	08 42 26	
	Automatic Entrances	08 42 29	
	Revolving Door Entrances	08 42 33	
	Balanced Door Entrances	08 42 36	
	Sliding Storefronts  See Also:  Fixturing Fixturing Receipt P2050 40	08 43 29	
C4020 2E	Exterior Entrance Doors: B2050.10. Interior Sliding Doors	08 11 73	
	interior siluling Doors		
C 1030.25	Sliding Glass Doors	በጸ 32 በበ	
C 1030.25	Sliding Glass Doors See Also:	08 32 00	
C 1030.25	Sliding Glass Doors See Also: Interior Operable Partitions:	08 32 00	

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Number	TITLE	MF NUMBER	EXPLANATION
C1030.30	Interior Folding Doors See Also: Interior Operable Partitions: C1010.50.	08 35 13	
C1030.40	Interior Coiling Doors Coiling Counter Doors	08 33 00 08 33 13	
C1030.50	Interior Panel Doors	08 36 00	Includes: Interior large opening doors constructed of panels that move.
04000 70	Interior Sectional Doors Interior Single-Panel Doors Interior Multi-Leaf Vertical Lift Doors Interior Telescoping Vertical Lift Doors	08 36 13 08 36 16 08 36 19 08 36 23	
C1030.70	Interior Special Function Doors	08 30 00	Includes: Interior door assemblies for a variety of special functions and applications involving a variety of operating methods. Includes Interior Door Supplementary Components as appropriate.
	Interior Cold Storage Doors	08 34 13	
	Interior Industrial Doors	08 34 19	
	Interior Lightproof Doors	08 34 33	
	Interior Darkroom Doors	08 34 36	
	See Also:		
	Photographic Processing		
	Equipment: E1030.60.		
	Interior Radio-Frequency-Interference Shielding Doors	08 34 46	
	See Also:		
	Exterior Radio-Frequency- Interference Shielding Windows: B2020.50.		
	Exterior Radio-Frequency- Interference Shielding Doors: B2050.40.		
	Interior Radio-Frequency- Interference Shielding Windows: C1020.50.		
	Interior Radiation Shielding Doors	08 34 49	
	Radiation-Resistant Glazing See Also: Exterior Radiation Shielding Windows: B2020.50.	08 88 49	
	Exterior Radiation Shielding Doors: B2050.40.		
	Interior Radiation Shielding Windows: C1020.50.		
	Radiation Detection and Alarm: D7050.20.		
	Radiation Protection: F1030.50.		
	Interior Security Doors	08 34 53	
	Security Revolving Door Entrances Security Glazing	08 42 33.13 08 88 53	
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NUMBER TITLE MF NUMBER **EXPLANATION Ballistics-Resistant Glazing** 08 88 56 See Also: Exterior Security Windows: B2020.50. Exterior Security Doors: B2050.40. Exterior Security Gates: B2050.70. Interior Security Windows: C1020.50. Interior Security Gates: C1040.50. Electronic Safety and Security: D70. Security Equipment: E1040.60. Security Procedures: Z1020.70. Temporary Security Barriers & Enclosures: Z1050.40. Interior Vault Doors 08 34 59 See Also: Vault Equipment: E1030.20. Vaults: F1010.50. Interior Detention Doors 08 34 63 See Also: Exterior Detention Windows: B2020.50. Exterior Detention Doors: B2050.40. Interior Detention Windows: C1020.50. Detention Monitoring and Control: D7070. Detention Equipment: E1040.70. Metal Detention Enclosures: F1010.50. Detention Project Procedures: Z1020.70. Interior Sound Control Doors 08 34 73 See Also: Exterior Sound Control Windows: B2020.50. Exterior Sound Control Doors: B2050.40. Interior Sound Control Windows: C1020.50. Interior Traffic Doors 08 38 00 See Also: Exterior Traffic Doors: B2020.50. Interior Pressure-Resistant Doors 08 39 00 See Also: Exterior Pressure-Resistant Windows: B2020.50. Exterior Pressure-Resistant Doors: B2050.40. Exterior Special Function Doors: B2050.40. C1030.80 Interior Access Doors and Panels 08 31 00 Includes: Doors and panels in walls, ceilings, and floors to provide access to concealed spaces. Includes frames and hardware.

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NUMBER	Тітье	MF NUMBER	EXPLANATION
C1030.90	Interior Door Supplementary Components		Includes: Frames, hardware, glazing, and louvers that are part of door to be included with interior door elements above as appropriate.
	Frames Specialty Frames Hardware Glazing Door Louvers See Also:	08 10 00 08 30 00 08 71 00 08 80 00 08 91 26	
	Exterior Door Louvers: B2050.90. Interior Louvers: C1090.15.		
C1040	Interior Grilles and Gates		Includes: Interior operable grilles and gates. Includes frames and hardware.
C1040 10	See Also: Interior Screens: C1010.70.		
C1040.10	Interior Grilles	00 11 74	
	Interior Sliding Metal Grilles Interior Coiling Grilles	08 11 74 08 33 00	
	Interior Colling Grilles Interior Folding Grilles	08 35 16	
C1040.50	Interior Gates	00 00 10	Includes: Interior devices of solid or open construction, usually hinged, to provide moveable barrier for access through partition or other divider. Includes hardware, accessories, and finishing.
	See Also:		
	Exterior Gates: B2050.		
	Fences and Gates: G2060.	08 34 56	
	Interior Security Gates  See Also:  Exterior Security Windows:  B2020.50.	06 34 30	
	Exterior Security Doors: B2050.40. Exterior Security Gates: B2050.70. Interior Security Windows: C1020.50.		
	Interior Security Doors: C1030.70. Electronic Safety and Security: D70.		
	Security Equipment: E1040.60. Security Procedures: Z1020.70. Temporary Security Barriers &		
	Enclosures: Z1050.40.	10 22 16	
C1060	Interior Folding Gates Raised Floor Construction	10 22 10	
01000	Raised Floor Construction Performance Requirements	01 84 13	
	Load Capacity	01 84 13	
	Concentrated Loads	01 84 13	
	Rolling Loads	01 84 13	
	Impact Loads	01 84 13	
	Deflection	01 84 13	
	Slip Resistance	01 84 13	
	Static Dissipative	01 84 13	
	Conductive	01 84 13	
C1060.10	Access Flooring	09 69 00	Includes: Free-standing, elevated accessible floor assembly forming an underfloor cavity that may be used for utility or other purposes.

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Number	TITLE	MF NUMBER	EXPLANATION
C1060.30	Platform/Stage Floors		Includes: Fixed construction of raised floor for platforms or stages.
	See Also:		
	Folding and Portable Stages:		
	E1070.10.		
C1070	Suspended Ceiling Construction		Includes: Ceiling Suspension Components.
	Suspended Ceiling Construction Performance Requirements	01 84 13	
	Fire Rating	01 84 13	
	Sound Transmission	01 84 13	
	Sound Attenuation	01 84 13	
	Sound Absorption	01 84 13	
	Light Reflectance	01 84 13	
	Flame Spread Index	01 84 13	
	Smoke Developed Index	01 84 13	
	See Also:		
C1070 10	Applied Ceiling Finishes: C2050.	00 51 00	Indudes Cuspended tiles and namels with
C1070.10	Acoustical Suspended Ceilings	09 51 00	Includes: Suspended tiles and panels with specific characteristics for acoustical purposes.
	Acoustic Insulation	09 81 00	
	See Also:		
	Applied Acoustical Ceiling Treatment: C2050.80.		
C1070.20	Suspended Plaster and Gypsum Board Ceilings	09 20 00	Includes: Suspended assemblies with plaster and gypsum board surfaces.
	Suspension Systems	09 22 26	•
	Acoustic Insulation	09 81 00	
C1070.50	Specialty Suspended Ceilings	09 54 00	Includes: Suspended specialty ceiling panels, units, and materials manufactured as finished
	Textured Suspended Ceilings	09 56 00	
C1070.70	Special Function Suspended Ceilings	09 57 00	Includes: Suspended ceiling assemblies with an additional special function including integrated ceiling assemblies.
	Security Ceiling Assemblies	09 57 53	
	See Also:		
	Security Lighting: D5040.50.  Electronic Safety and Security: D70.  Security Equipment: E1040.60.  Security Procedures: Z1020.70.		
	Temporary Security Barriers & Enclosures: Z1050.40.		
	Integrated Ceiling Assemblies	09 58 00	
C1070.90	Ceiling Suspension Components	09 56 00	Includes: Hangers and framing to suspend ceiling and sound isolation components to be included with suspended ceiling construction
			elements above as appropriate.
	Suspension Systems		·
	Suspended Ceiling Sound Isolation	13 48 00	
C1090	Interior Specialties		
C1090.10			Includes: Complete interior railing assemblies of various types including glazed railings.
	Interior Railings and Handrails Performance Requirements	01 84 00	J, 3
	Uniform Load on Handrails and Top Rails of Guards	01 84 00	

			• INTERIORS
NUMBER	TITLE	MF NUMBER	EXPLANATION
	Concentrated Load on Handrails and Top Rails of Guards	01 84 00	
	Concentrated Load on Infill of Guards	01 84 00	
	Metal Railings	05 52 00	
	Decorative Metal Railings	05 73 00	
	Wood Railings	06 43 16	
	Plastic Railings	06 63 00	
	Composite Railings	06 81 00	
	See Also:		
	Stair Railings: B1080.50.		
	Exterior Railings: B2080.50.		
C1090.15	Interior Louvers	08 91 00	Includes: Interior louvers, and other items for ventilation which are not an integral part of the
			mechanical system. Includes operable and
	Interior Laurena Dorfermana Dominamanta	04.04.00	stationary louvers.
	Interior Louvers Performance Requirements	01 84 00	
	Free Area Air Performance	01 84 00 01 84 00	
	Sound Transmission	01 84 00	
	See Also:	010400	
	Louvered Equipment Screens:		
	B2010.60.		
	Exterior Door Louvers: B2050.90.		
	Exterior Louvers: B2070.10		
	Interior Door Louvers: C2030.90.		
C1090.20	Information Specialties	10 10 00	Includes: Visual display units, display cases, directories, interior signage, telephone specialties, and informational kiosks.
	Visual Display Units	10 11 00	
	Chalkboards	10 11 13	
	Markerboards	10 11 16	
	Tackboards	10 11 23	
	Sliding Visual Display Units	10 11 33	
	Visual Conference Units	10 11 36	
	Visual Display Rails	10 11 39	
	Visual Display Wall Panels	10 11 43	
	Visual Display Fabrics	10 11 46	
	Display Cases	10 12 00	
	See Also:		
	Display Turntables: D1030.30.		
	Display Lighting: D5040.50.		
	Refrigerated Display Equipment: E1030.30.		
	Directories	10 13 00	
	Interior Signage	10 13 00	
	See Also:	10 14 00	
	Traffic Signs and Traffic Signals: G2010.		
	Parking Lot Traffic Signage: G2020.		
	Exterior Signage: G2060.	40.47.00	
	Telephone Specialties	10 17 00	
	See Also:		
	Voice Communications Terminal		
	Equipment: D6020.20. Informational Kiosks	10 18 00	
	imormational Niosks	10 10 00	

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NUMBER	Тітье	MF NUMBER	EXPLANATION
C1090.25	Compartments and Cubicles	10 21 00	Includes: Manufactured compartments and cubicles for specific purposes.
	Toilet Compartments	10 21 13	
	Shower & Dressing Compartments	10 21 16	
	Cubicles	10 21 23	
	Tub and Shower Doors	10 28 19	
	See Also:	10 20 10	
	Toilet, Bath, and Laundry		
	Accessories: C1090.40.		
C1090 30	Service Walls	10 25 00	Includes: Wall assemblies and wall-mounted
0.000.00	Corrido Wallo	.0 20 00	units incorporating services.
	Patient Bed Service Walls	10 25 13	3 · · · · · · · · · · · · · · · · · · ·
	Modular Service Walls	10 25 16	
C1090 35	Wall and Door Protection	10 26 00	Includes: Manufactured protective devices for
01000.00	Wall alla Bool i lottotion	10 20 00	walls and doors.
	Corner Guards	10 26 13	
	Bumper Guards	10 26 16	
	Protective Wall Covering	10 26 23	
	Door and Frame Protection	10 26 33	
C1090 40	Toilet, Bath, and Laundry Accessories	10 28 00	Includes: Manufactured items for use in
01000.40	Tollot, Batti, and Launary Accessories	10 20 00	conjunction with toilets, baths, and laundries.
	Toilet Accessories	10 28 13	
	Bath Accessories	10 28 16	
	Laundry Accessories	10 28 23	
	See Also:	10 20 20	
	Compartments and Cubicles:		
	C1090.25.		
	Unframed Mirrors: C1090.90.		
C1090 45	Interior Gas Lighting	10 84 16	
0.000.10	See Also:	100110	
	Exterior Gas Lighting: G2060.45.		
C1090.50	Fireplaces and Stoves	10 30 00	Includes: Masonry fireplaces and manufactured
0.000.00	opiacoo aa otovoo		and fabricated fireplaces, stoves, chimneys,
			dampers, and specialties for use in construction
			of fireplaces and stove units.
	Site Constructed Fireplaces		·
	Refractory Masonry	04 50 00	
	Masonry Fireplaces	04 57 00	
	Manufactured Fireplaces	10 31 00	
	Manufactured Fireplace Chimneys	10 31 13	
	Fireplace Specialties	10 32 00	
	Stoves	10 32 00	
C1090 60	Safety Specialties	10 33 00	Includes: Accessories that provide emergency
5 1000.00	carety openiation	10 70 00	aid.
	Emergency Access and Information Cabinets	10 41 00	<del></del>
	Emergency Aid Specialties	10 41 00	
	See Also:	.0 10 00	
	Fire Protection Specialties: D4030.		
C1090.70	Storage Specialties	10 50 00	Includes: Lockers, postal specialties, storage
	J r		specialties, and wardrobe and closet
			specialties.
	Lockers	10 51 00	
	Locker Room Benches	10 51 53	
	Postal Specialties	10 55 00	
	Mail Boxes	10 55 23	
		-	

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Number	Тітье	MF NUMBER	EXPLANATION
	Mail Chutes See Also:	10 55 91	
	Postal Equipment: E1030.70.		
	Storage Assemblies	10 56 00	
	Storage Shelving		
	Storage Racks	10 56 29	
	Mercantile Storage Assemblies	10 56 33	
	Wardrobe and Closet Specialties	10 57 00	
	Hat and Coat Racks	10 57 13	
	Closet and Utility Shelving	10 57 33	
	See Also:		
C1000 00	Checkroom Equipment: E1030.	10 80 00	Includes: Deet central devices flags and
C 1090.90	Other Interior Specialties	10 80 00	Includes: Pest control devices, flags and banners, security mirrors and domes, and scales.
	Pest Control Devices	10 81 00	Course.
	Insect Control Devices	10 81 16	
	Rodent Control Devices	10 81 19	
	See Also:		
	Soil Treatment Rodent Control: A9040.		
	Bird Control Devices: B2080.80.		
	Temporary Pest Control: Z1050.45.		
	Flags and Banners	10 83 00	
	See Also:		
	Flagpoles: G2060.35.		
	Unframed Mirrors	08 83 00	
	See Also:		
	Toilet, Bath, and Laundry		
	Accessories: C1090.40.	10 86 00	
	Security Mirrors and Domes See Also:	10 66 00	
	Interior Security Doors: C1030.70.		
	Interior Security Gates: C1040.50.		
	Electronic Safety and Security: D70.		
	Interior Pedestrian Security		
	Equipment: E1010.70.		
	Security Equipment: E1040.60.		
	Security Procedures: Z1020.70.		
	Temporary Security Barriers &		
	Enclosures: Z1050.40.		
	Scales	10 88 00	
C20	INTERIOR FINISHES		
	Interior Finishes Performance Requirements	01 84 19	
C2010	Wall Finishes	09 70 00	Includes: Wall finishes applied over solid
			substrates. Includes Wall Finish
	W. 11 5 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	04.04.10	Supplementary Components as appropriate.
	Wall Finishes Performance Requirements	01 84 19	
	Flame-Spread Index	01 84 19	
	Smoke-Developed Index Light Reflectance	01 84 19 01 84 19	
	Sound Absorption	01 84 19	
	See Also:	V 1 UT 10	
	Interior Partitions: C1010.		

C INTERIO	RS		
Number	Тітье	MF NUMBER	EXPLANATION
C2010.10	Tile Wall Finish	09 30 00	Includes: Manufactured surfacing units of impervious, vitreous, semi-vitreous, and non-vitreous materials; glazed, unglazed, conductive, and textured surfaces.
	See Also: Tile Flooring: C2030.20.		
C2010.20	Wall Paneling		Includes: Covering or cladding of interior walls with paneling. Includes associated furring, fastening, and trim.
	Wood Paneling	06 42 00	
	Prefinished Paneling	06 25 00	
	Board Paneling	06 26 00	
	Plastic Paneling	06 64 00	
	Composite Paneling See Also:	06 83 00	
	Ceiling Paneling: C2050.20.		
C2010.30	Wall Coverings	09 72 00	Includes: Wall coverings applied over solid substrates. Includes vinyl-coated fabric, vinyl and cork wall coverings; wall papers; and flexible wood sheets.
	Flexible Wood Sheets	09 74 00	
C2010.35	Wall Carpeting	09 73 00	Includes: Wall carpet materials and accessories.
	See Also:		
	Floor Carpeting: C3020.75.		
C2010.50	Stone Facing	09 75 00	Includes: Natural stone applied as an interior veneer surface.
	See Also:		
	Masonry Flooring: C2030.		
C2010.60	Special Wall Surfacing	09 77 00	Includes: Manufactured decorative interior wall surface products including plastic blocks.
	Stretched-Fabric Wall Systems	09 77 13	
	Fabric-Wrapped Panels	09 77 23	
	Plastic Blocks	09 76 00	
C2010.70	Wall Painting and Coating	09 90 00	Includes: Interior painting and coating with transparent and opaque finishes. Includes stains, varnishes, lacquers, primers, fillers, paint removers, and waxes, and preparation of surfaces.
	See Also:		
	Interior Ceiling Painting and Coating	g:	
00040.00	C2050.70.		Last the Original state of the Control
C2010.80	Acoustical Wall Treatment		Includes: Sound absorbing, reflecting, and
	A constitution of the	00.00.40	diffusing wall units, and accessories.
	Acoustic Wall Coating	09 83 13	
	Acoustic Room Components	09 84 00	
	Sound-Absorbing Wall Units See Also:	09 84 33	
	Acoustical Ceiling Treatment: C2050.		
C2010.90	Wall Finish Supplementary Components		Includes: Furring to be included with wall finish elements above as appropriate.
	Wood Furring	06 10 00	
	Metal Furring	09 22 13	
C2020	Interior Fabrications	· •	Includes: Interior fabrications of a variety of
			materials formed to various profiles for a variety of purposes including column covers.
	Glass-Fiber-Reinforced Concrete	03 49 00	
C4			

			• INTERIORS
NUMBER	TITLE	MF Number	EXPLANATION
	Metal Fabrications	05 50 00	
	Column Covers	05 58 13	
	Decorative Metal	05 70 00	
	Ornamental Woodwork	06 44 00	
	Plastic Fabrications	06 60 00	
	Simulated Stone Fabrications	06 61 00	
	Composite Fabrications	06 80 00	
	Plaster Fabrications	09 27 00	
	See Also:		
	Exterior Fabrications: B2080.70.		
C2030	Flooring	09 60 00	Includes: Flooring Supplementary Components
			as appropriate.
	Flooring Performance Requirements	01 84 19	
	Slip Resistance	01 84 19	
	Critical Radiant Flux Classification	01 84 19	
	Static Dissipative	01 84 19	
	Conductive	01 84 19	
	Chemical Resistance	01 84 19	
	Acid Resistance	01 84 19	
	Static Control	01 84 19	
	Sound Absorption	01 84 19	
	See Also:		
	Access Flooring: C1060.10.		
	Stair Finishes: C2040.		
C2030 10	Flooring Treatment	09 61 00	Includes: Coatings and surfacings for finished
02000.10	Thousand Trodumont	00 01 00	floor, applied to provide a specific performance
			characteristic.
	Clin Desigtant Flagring Treatment	00 04 40	characteristic.
02020.20	Slip-Resistant Flooring Treatment	09 61 13	Included. Manufactured confesion costs of
C2030.20	Tile Flooring	09 30 00	Includes: Manufactured surfacing units of
			impervious, vitreous, semi-vitreous, and non-
			vitreous materials; glazed, unglazed,
			conductive, abrasive, and textured surfaces.
	2 44		Includes wall base units.
	See Also:		
00000	Tile Wall Finishes: C2010.20.		
C2030.30	Specialty Flooring	09 62 00	Includes: Heavy duty and other specialty
			flooring. Includes asphaltic plank, laminate,
			bamboo, leather, cork, acoustic, synthetic turf,
			metal, structural glass, chemical-resistant, acid
			resistant, conductive, and static control flooring.
	Chemical-Resistant Flooring		
	Chemical-Resistant Tiling	09 35 00	
	Chemical-Resistant Brick Flooring	09 63 13.35	
	Acid-Resistant Flooring	09 62 35	
	Conductive Flooring		
	Conductive Tiling	09 33 00	
	Conductive Resilient Flooring	09 65 33	
	Conductive Terrazzo Flooring	09 66 33	
	Static-Control Flooring		
	Static Resistant Flooring Treatment	09 61 36	
	Static-Control Resilient Flooring	09 65 36	
C2030.40	Masonry Flooring	09 63 00	Includes: Fired clay unit masonry, cat stone,
	,		and stone flooring. Includes wall base.
	Brick Flooring	09 63 13	-
	Stone Flooring	09 63 40	
	Composition Stone Flooring	09 63 43	
	See Also:	30 00 10	
	Stone Wall Facing: C2010.50.		
	Ctorio Wall Lability. 02010.00.		

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Number	Тітье	MF Number	EXPLANATION
C2030.45	Wood Flooring	09 64 00	Includes: Strip, parquet, block, and composition wood flooring. Includes
C2030.50	Resilient Flooring	09 65 00	Includes: Resilient tile and sheet flooring. Includes integral and applied wall bases.
C2030.60	Terrazzo Flooring	09 66 00	Includes: Cast-in-place, sand-cushion, monolithic, bonded and adhesively- bonded portland cement terrazzo; poured-in-place epoxy, polyester, and resinous matrix terrazzo; and precast terrazzo. Includes integral or precast wall bases, accessories, and finish sealers.
	Portland Cement Terrazzo Flooring	09 66 13	
	Terrazzo Floor Tile	09 66 16	
	Resinous Matrix Terrazzo Flooring See Also: Wall Finishes: C2010.	09 66 23	
C2030 70	Fluid-Applied Flooring	09 67 00	Includes: Flooring applied in a viscous state.
02000.70	Elastomeric Liquid Flooring	09 67 00	moduces. Thouming applied in a viscous state.
	Epoxy-Marble Chip Flooring	09 67 13	
	Magnesium-Oxychloride Flooring	09 67 19	
	Resinous Flooring	09 67 23	
	Quartz Flooring	09 67 26	<del>-</del>
C2030.75	· ·	09 68 00	Includes: Floor carpet materials including cushions, accessories, and wall base.
	Tile Carpeting	09 68 13	
	Sheet Carpeting	09 68 16	
	See Also:		
	Wall Carpeting: C2010.35.		
	Moveable Rugs and Mats: E2050.		
C2030.80	Athletic Flooring		Includes: Flooring for athletic purposes.
	Wood Athletic Flooring	09 64 66	
	Resilient Athletic Flooring	09 65 66	
	Fluid-Applied Athletic Flooring	09 67 66	
	See Also:		
	Athletic Equipment: E1070.50. Athletic Rooms: F1010.50. Athletic & Recreational Special Construction: F1060.		
	Athletic Areas: G2050.10.		
C2030.85	Entrance Flooring		Includes: Special floor surfaces at entrances.
	Entrance Floor Mats and Frames	12 48 13	
	Entrance Floor Grilles	12 48 16	
	Entrance Floor Gratings	12 48 19	
	Entrance Floor Grids	12 48 23	
	Entrance Tile	12 48 26	
C2030.90	Flooring Supplementary Components		Includes: Furring, underlayment, and sound and vibration control to be included with flooring elements above as appropriate.
	Wood Furring	06 10 00	•• •
	Underlayment	06 16 26	
	Acoustic Underlayment	09 60 13	
	Sound and Vibration Control	09 62 48	
C2040	Stair Finishes	09 02 40	Includes: Stair tread, riser, and landing finish of
	0.1.5.1.5.4	04.04.15	various materials.
	Stair Finish Performance Requirements	01 84 19	
	Slip Resistance	01 84 19	
	Critical Radiant Flux Classification	01 84 19	
C2040.20	Tile Stair Finish	09 30 00	
66			

				• INTERIORS
Number	TITLE		MF NUMBER	EXPLANATION
C2040.45 C2040.50 C2040.60	Masonry Stair I Wood Stair Fin Resilient Stair I Terrazzo Stair Carpeted Stair	ish Finish Finish	09 63 00 09 64 00 09 65 00 09 66 00 09 68 00	
		Flooring: C2030.		
C2050	Ceiling Finish	es	09 50 00	Includes: Finishes applied to interior ceiling substrates. Ceiling finishes may be applied to suspended ceiling construction. Includes Ceiling Finish Supplementary Components as appropriate.
	Ceiling Fini	shes Performance Requirements	01 84 19	
	Sound	Absorption	01 84 19	
	Light R	eflectance	01 84 19	
	Flame	Spread Index	01 84 19	
	Smoke	Developed Index See Also: Stair Soffits: B1080.30. Exterior Ceilings: B3080.10. Exterior Soffits: B3080.20. Interior Suspended Ceiling Construction: C1070.	01 84 19	
C2050.10	Plaster and Gy	psum Board Finish	09 20 00	Includes: Lathing including accessories and trim. Includes interior plaster including veneer plaster, acoustical plaster, and plaster fireproofing. Includes sound barrier boards and blankets. Includes unfinished and prefinished gypsum board and gypsum backing board for other finishes. Includes gypsum board fireproofing.
		See Also:		
		Suspended Plaster and Gypsum		
		Board Ceilings: C1070.20.		
C2050.20	Ceiling Panelin	9		Includes: Covering or cladding of interior ceilings with paneling. Includes associated furring, fastening, and trim.
	Wood Pane		06 42 00	
		shed Paneling	06 25 00	
		Paneling	06 26 00	
	Plastic Pan	_	06 64 00	
	Composite	See Also:	06 83 00	
		Wall Paneling: C2010.30.		
C2050.70	Ceiling Painting	g and Coating	09 90 00	Includes: Interior painting and coating of ceilings with transparent and opaque finishes. Includes stains, varnishes, lacquers, primers, fillers, paint removers, and waxes, and preparation of surfaces.
		See Also:		
		Interior Wall Painting and Coating:		
00050.00	Application Only	C2010.70.		Induded Cound shearbing reflection and
C2050.80	Acoustical Ceili	ing Treatment		Includes: Sound absorbing, reflecting, and diffusing ceiling units and accessories. Includes directly applied acoustical tiles and panels.

## **C** INTERIORS

Number	TITLE	MF NUMBER	EXPLANATION
	Acoustical Metal Decking	05 34 00	
	Acoustic Ceiling Coating	09 83 16	
	Acoustic Room Components	09 84 00	
	Sound-Absorbing Ceiling Units	09 84 36	
	See Also:		
	Suspended Acoustical Ceilings:		
	C1070.10.		
	Acoustical Wall Treatment:		
	C2010.80.		
C2050.90	Ceiling Finish Supplementary Components		Includes: Furring and sound isolation components to be included with ceiling finish elements above as appropriate.
	Wood Furring	06 10 00	
	Metal Furring	09 22 13	
	Ceiling Sound Isolation	13 48 00	
C2090	Interior Finish Schedules		Includes: Schedules of finishes common to C20 Interior Finishes.
	Room Finish Schedule	09 06 00.13	

Facility Services Performance Requirements 01 86 00

	radiity dervices renormance requirements		
Number	Тпше	MF Number	Explanation
D10	CONVEYING	44.00.00	
טוט	Conveying Equipment Performance Requirements	14 00 00 01 85 00	
	See Also:		
	Starting and Adjusting: Z1070.40.  Demonstration and Training:		
D4040	Z1070.80 .		
D1010	Vertical Conveying Systems See Also:		
	Construction Aids: Z1050.30.		
D1010.10	Elevators	14 20 00	Includes: Passenger and freight elevators of all
			types, including cars, enclosures, controls, safety equipment, hoistway equipment, and elevator machinery. Includes associated metal fabrications including pit ladders.
	Elevators Performance Requirements	01 85 00	Ç.
	Cab Capacity	01 85 00	
	Car Load Capacity	01 85 00	
	Car Speed	01 85 00	
	Door Opening Speed	01 85 00	
	Freight Elevators	14 20 00	
	Electric Traction Freight Elevators	14 21 13	
	Hydraulic Freight Elevators	14 24 13	
	Passenger Elevators Electric Traction Passenger Elevators	14 20 00 14 21 23	
	Hydraulic Passenger Elevators	14 21 23	
	Residential Elevators	14 24 23	
	Electric Traction Residential Elevators	14 21 33	
	Hydraulic Residential Elevators	14 24 33	
	Service Elevators	14 20 00	
	Electric Traction Service Elevators	14 21 43	
	Hydraulic Service Elevators	14 24 43	
	Limited-Use/Limited Application Elevators	14 26 00	
	Custom Elevator Cabs and Doors	14 27 00	
	Elevator Equipment and Controls  See Also:	14 28 00	
	Vents and Hatches: B3060.50. Ladders: B1080.80.		
D1010.20	Elevator Telephones: D6020.20.	14 40 00	Includes: Vertical or inclined lifts and related
D1010.20	LIIIS	14 40 00	equipment for a variety of purposes. Sidewalk lifts include doors.
	Lifts Performance Requirements	01 85 00	
	Speed	01 85 00	
	People Lifts	14 41 00	
	Wheelchair Lifts	14 42 00	
	Platform Lifts	14 43 00	
	Orchestra Lifts	14 43 13	

Stage Lifts 14 43 16  See Also: Theater and Stage Equipment: E1070.10.  Sidewalk Lifts 14 44 00 Vehicle Lifts 14 45 00 See Also: Mortuary Lifts: E1040.20. Loading Dock Lifts: E1010.50. Recreational Equipment: E1070.60.	
Sidewalk Lifts 14 44 00 Vehicle Lifts 14 45 00 See Also: Mortuary Lifts: E1040.20. Loading Dock Lifts: E1010.50. Recreational Equipment: E1070.60.	
Vehicle Lifts 14 45 00  See Also:  Mortuary Lifts: E1040.20.  Loading Dock Lifts: E1010.50.  Recreational Equipment: E1070.60.	
• •	
, ! !	Includes: Passenger conveying systems composed of moving treads installed in inclined position including associated components, hardware, controls, safety equipment, and related items.
Escalators Performance Requirements 01 85 00	
Speed 01 85 00	Includes. Deckered and field accombined
; i c	Includes: Packaged and field assembled, motorized and hand- operated dumbwaiters including associated components for book lifts, cart lifts, and other applications. Systems include associated components, hardware, controls, and safety equipment.
Dumbwaiters Performance Requirements 01 85 00	
· · · · · · · · · · · · · · · · · · ·	Includes: Passenger conveying systems composed of moving belts installed in inclined position including associated components, hardware, controls, safety equipment, and related items.
Moving Ramps Performance Requirements 01 85 00	
Speed 01 85 00	
D1030 Horizontal Conveying  Horizontal Conveying Performance  Requirements  01 85 00	
- ! !	Includes: Passenger conveying systems composed of moving belts installed in horizonta position including associated components, hardware, controls, safety equipment, and related items.
Moving Walks Performance Requirements 01 85 00	
Speed 01 85 00 D1030.30 Turntables 14 70 00	Includes: Structural turntables for various
1	applications.
Turntables Performance Requirements 01 85 00 Industrial Turntables 14 71 00	
Industrial Turntables 14 71 00  Vehicle Turntables 14 71 11	
Hospitality Turntables 14 72 00 See Also: Hospitality Equipment: E1030.50. Hospitality Casework: E2010.30. Hospitality Furniture: E2050.30.	
Restaurant Turntables 14 72 25	

			<b>D G</b> ERTIOES
NUMBER	TITLE	MF NUMBER	EXPLANATION
	Exhibit Turntables Display Turntables See Also: Display Cases: C1090.20. Display Lighting: D5040.50. Refrigerated Display Equipment: E1030.30. Exhibit Equipment: E1040.10.	14 73 00 14 73 59	
	Entertainment Turntables	14 74 00	
	Stage Turntables  See Also:  Theater and Stage Equipment:  E1070.10.	14 74 61	
D1030.50	Passenger Loading Bridges	34 77 13	Includes: Operating bridges for loading and unloading of passengers to and from aircraft and ships.
	Passenger Loading Bridges Performance Requirements	01 85 00	
	Aircraft Passenger Loading Bridges	34 77 13	
	Ship Passenger Loading Bridges	34 77 13	
D1030.70	People Movers People Mover Performance Requirements Car Capacity	01 85 00	
	Car Speed		
	Monorails	34 12 00	Includes: Single rail vehicles suspended from or straddle the guideway. Includes associated track, equipment, controls, and accessories.
	Funiculars	34 13 00	Includes: Steep cable railways in which ascending cars counterbalance descending cars. Includes associated track, cable,
	Cable Transportation	34 14 00	Includes: Steep slope transportation system utilizing moving cable. Includes associated cable, support structures, equipment, controls, and accessories.
D1050	Material Handling		
	Material Handling Performance Requirements  Load Capacity  See Also:  Construction Aids: Z1050.30.	01 85 00 01 85 00	
D1050.10		41 22 13	Includes: Hoisting towers, cranes, crane rails, and related accessories.
D1050.20	Hoists	41 22 23	Includes: Manual and motor operated hoists and related accessories.
D1050.30	Derricks	41 22 33	Includes: Manual and motor operated derricks and related accessories.
D1050.40	Conveyors	41 21 00	Includes: Automatic guided vehicles, conveyors, diverters, and chutes. Includes controls and accessories.
D1050.50	Baggage Handling Equipment	34 77 16	Includes: Operating equipment for handling, scanning, and weighing of baggage at terminals. Includes controls and accessories.
D1050.60	Chutes	14 91 00	Includes: Chutes which support the operation of the building or structure.
	Coal Chutes	14 91 13	
	Escape Chutes	14 91 23	
	Laundry and Linen Chutes	14 91 33	

Number	TITLE	MF NUMBER	EXPLANATION
	Trash Chutes  See Also:	14 91 82	
	Solid Waste Handling Equipment: E1090.10.		
D1050.70	Pneumatic Tube Systems	14 92 00	Includes: Pneumatically operated tube system for the delivery of small items within a facility. Includes controls and accessories.
	See Also:		
D1080	Office Equipment: E1030.75.  Operable Access Systems  Operable Access Systems Performance Requirements		
	See Also:		
D1080 10	Maintenance Equipment: E1030.40. Suspended Scaffolding	14 81 00	Includes: Suspended scaffolding when part of
D1000.10	Suspended Scanolding	14 01 00	the completed project.
D1080.20	Rope Climbers	14 82 00	Includes: Powered rope climbers to access exterior façade.
D1080.30	Elevating Platforms	14 83 00	Includes: Fixed elevating platforms to provide a movable elevated working platform for people and materials.
	See Also:		
D1080.40	Platform Lifts: D1010.20. Powered Scaffolding	14 84 00	Includes: Powered scaffolding when part of the completed project.
	Window Washing Scaffolding	14 84 13	completed project.
D1080.50	Building Envelope Access Façade Access Equipment	11 24 23	
D20	PLUMBING	22 00 00	
	Plumbing Performance Requirements See Also: Starting and Adjusting: Z1070.40. Demonstration and Training:	01 86 16	
	Z1070.80.		
D2010	Domestic Water Distribution	22 11 00	Includes: Facility domestic water distribution system. Include Domestic Water Distribution Supplementary Components as appropriate.
	Domestic Water Distribution Performance Requirements	01 86 16	
	Sustainable Design Requirements	01 86 16	
	Plumbing Fixture Water Consumption See Also:	01 86 16	
	Swimming Pool Plumbing Systems: F1050.10.		
	Pools and Tubs Plumbing Systems: F1050.10.		
	Interior Fountain Plumbing Systems: F1050.20.		
	Site Domestic Water Distribution: G3010.10		
D2010.10	Facility Potable-Water Storage Tanks	22 12 00	Includes: Tanks for storage of potable water serving a facility and located within, on, under, or closely associated with a structure.

			D SERVICE
NUMBER	Тпше	MF Number	EXPLANATION
D2010.20	Domestic Water Equipment		Includes: Equipment for domestic water distribution system.
	Domestic Water Pumps	22 11 23	,
	Domestic Water Softeners	22 31 00	Includes: Equipment for the softening of domestic water.
	Domestic Water Filtration Equipment	22 32 00	Includes: Equipment for the filtering of domestic water.
	Domestic Water Heaters		Includes: Equipment to heat domestic water. Includes electric and fuel-fired equipment.
	Electric Domestic Water Heaters	22 33 00	
	Fuel-Fired Domestic Water Heaters	22 34 00	
	Domestic Water Heat Exchangers	22 35 00	Includes: Equipment to heat domestic water by means of heat exchange.
D2010.40	Domestic Water Piping	22 11 16	Includes: Piping, valves, and specialties associated with domestic water distribution located within, under, or closely associated with a structure. Includes circulating pumps.
			May Include: Water service from the structure to the utility water service line.
	Domestic Water Piping Specialties	22 11 19	
D2010.60	Plumbing Fixtures	22 40 00	Includes: Terminal devices on the domestic water plumbing system. Includes rough-in piping, trim, fittings, and connection to vent piping.
	Residential Plumbing Fixtures	22 41 00	
	Residential Water Closets	22 41 13	
	Residential Urinals	22 41 13	
	Residential Bidets	22 41 13	
	Residential Lavatories	22 41 16	
	Residential Sinks	22 41 16	
	Residential Bathtubs	22 41 19	
	Residential Showers	22 41 23	
	Residential Disposers	22 41 26	
	Residential Laundry Trays	22 41 36	
	Residential Plumbing Fixture Trim	22 41 39	
	Commercial Plumbing Fixtures	22 42 00	
	Commercial Water Closets	22 42 13	
	Commercial Urinals	22 42 13	
	Commercial Bidets	22 42 13	
	Commercial Lavatories	22 42 16	
	Commercial Sinks	22 42 16	
	Commercial Bathtubs	22 42 19	
	Commercial Showers	22 42 23	
	Commercial Disposers	22 42 26	
	Shampoo Bowls	22 42 29	
	Wash Fountains	22 42 33	
	Commercial Laundry Trays	22 42 36	
	Commercial Plumbing Fixture Trim	22 42 39	
	Flushometers Healthcare Plumbing Fixtures	22 42 43	
	Healthcare Water Closets	22 43 13	
	Healthcare Sinks	22 43 16	
	Healthcare Bathtubs	22 43 19	
	Healthcare Showers	22 43 19	

Number	TITLE	MF NUMBER	EXPLANATION
	Healthcare Faucets	22 43 39	
	Healthcare Flushometers	22 43 43	
	See Also:		
	Process Support Plumbing Systems: D2060.		
	Healthcare Equipment: E1040.20. Healthcare Casework: E2010.30.		
	Healthcare Gasework. E2010.30.		
	Healthcare Special Procedures:		
	Z1020.70.		
	Emergency Plumbing Fixtures	22 45 00	
	Emergency Showers	22 45 13	
	Eyewash Equipment	22 45 16	
	Eye/Face Wash Equipment	22 45 26	
	Hand-Held Emergency Drench Hoses	22 45 29	
	Combination Emergency Fixture Units	22 45 33	
	Emergency Fixture Water-Tempering	22 45 36	
	Equipment	00.40.00	
	Security Plumbing Fixtures	22 46 00	
	Security Water Closets Security Urinals	22 46 13 22 46 13	
	Security Unhais Security Lavatories	22 46 13	
	Security Lavatories Security Sinks	22 46 16	
	Security Plumbing Fixture Trim	22 46 39	
	Security Flushometers	22 46 43	
	Security Plumbing Fixture Supports	22 46 53	
	See Also:		
	Electronic Safety and Security: D70.		
	Security Equipment: E1040.60.		
	Security Procedures: Z1020.70.		
	Temporary Security Barriers & Enclosures: Z1050.40.		
	Drinking Fountains and Water Coolers	22 47 00	
	Drinking Fountains and Water Coolers  Drinking Fountains	22 47 00	
	Remote Water Coolers	22 47 23	
D2010.90	Domestic Water Distribution Supplementary		Includes: Common work results for plumbing,
	Components		plumbing insulation, and instrumentation and
	Mechanical Metal Supports	05 45 13	
	Common Work Results for Plumbing	22 05 00	
	Expansion Fittings and Loops	22 05 16	
	Meters and Gages	22 05 19	
	Valves	22 05 23	
	Hangers and Supports	22 05 29	
	Heat Tracing	22 05 33	
	Vibration and Seismic Controls Identification	22 05 48 22 05 53	
	Insulation	22 05 53	
	Instrumentation and Controls	22 07 00	
D2020	Sanitary Drainage	22 13 00	Includes: Facility sanitary sewerage system
	,		located within, under, or closely associated with
			a structure. Include Sanitary Drainage
			Supplementary Components as appropriate.

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Number	Тпше	MF NUMBER	EXPLANATION
	Sanitary Drainage Systems Performance Requirements See Also:	01 86 16	
	Swimming Pool Plumbing Systems: F1050.10.		
	Pools and Tubs Plumbing Systems: F1050.10.		
	Interior Fountain Plumbing Systems: F1050.20.		
	Sanitary Sewerage Utilities: G3020.		
D2020.10	Sanitary Sewerage Equipment		Includes: Interceptor, separator, pumps, and septic tanks that are part of facility sanitary sewerage system.
	Sanitary Waste Interceptors	22 13 23	
	Sanitary Waste Separators	22 13 26	
	Sanitary Sewerage Pumps	22 13 29	
	Packaged, Submersible Sewerage Pump Units	22 13 33	
	Packaged, Wastewater Pump Units	22 13 36	
	Facility Packaged, Sewerage Pumping Stations Facility Septic Tanks	22 13 43 22 13 53	
	See Also:	22 13 33	
	Utility Septic Tanks: G3020.40.		
D2020.30	Sanitary Sewerage Piping		Includes: Sanitary waste and vent piping
			system within and under structures.
			May Include: Sanitary piping from the structure
			to the utility sanitary sewer.
	Sanitary Sewers	22 13 13	
	Sanitary Waste and Vent Piping	22 13 16	
	Sanitary Waste Piping Specialties	22 13 19	
	Sanitary Drains	22 13 19.13	
	Fats, Oils, and Grease Disposal Systems Grease Removal Devices	22 13 19.23 22 13 19.26	
	Backwater Valves	22 13 19.20	
	Air-Admittance Valves	22 13 19.36	
	Sanitary Drainage Manholes	22 05 73	
	Sanitary Drainage Piping Cleanouts	22 05 76	
D2020.90	Sanitary Drainage Supplementary Components		Includes: Common work results for plumbing,
			plumbing insulation, and instrumentation and
			control for plumbing to be included with sanitary
			drainage elements above as appropriate.
	Mechanical Metal Supports	05 45 13	
	Common Work Results for Plumbing	22 05 00	
	Expansion Fittings and Loops	22 05 16	
	Meters and Gages	22 05 19	
	Valves	22 05 23	
	Hangers and Supports	22 05 29 22 05 33	
	Heat Tracing Vibration and Seismic Controls	22 05 33 22 05 48	
	Identification	22 05 48	
	Insulation	22 07 00	
	Instrumentation and Controls	22 09 00	
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Number Number	Тіпце	MF Number	EXPLANATION
D2030	Building Support Plumbing Systems	22 14 00	Includes: Facility stormwater drainage and gray water systems. Include Building Support Plumbing System Supplementary Components as appropriate.
	Building Support Plumbing Systems Performance Requirements See Also: Rainwater Management: B3020.70.	01 86 16	
D2030.10	Storm Drainage Utilities: G3020. Stormwater Drainage Equipment		Includes: Drainage pumps, and sump pumps
	Stormwater Drainage Pumps	22 14 33	that are part of stormwater drainage system.
	Stormwater Drainage Sump Pumps	22 14 36 22 14 29	
	Rainwater Storage Tanks	22 14 53	
D2030.20	Stormwater Drainage Piping	22 14 13	Includes: Storm drainage piping system within, under, or closely associated with a structure. Includes storm drains for areas closely associated with a structure such as courtyards, plazas, and loading dock areas.
			May Include: Storm drainage piping from the structure to the utility storm drain.
	Rainwater Leaders Stormwater Drainage Piping Specialties	22 14 16 22 14 23	
	Stormwater Drainage Fighting Specialities  Stormwater Drainage Manholes	22 05 73	
D2020 20	Stormwater Drainage Piping Cleanouts	22 05 76	lockulary Vericus turns of drains to collect
D2030.30	Facility Stormwater Drains	22 14 26	Includes: Various types of drains to collect storm water.
	Area Drains	22 14 26.13	
	Roof Drains Trench Drains	22 14 26.16 22 14 26.19	
	See Also:		
D2030 60	Site Stormwater Drains: G3030.40. Gray Water Systems		Includes: Systems to collect, treat, and
D2030.00	Gray Water Systems		distribute gray water for other uses such as irrigation.
	Gray Water Tanks	22 13 63	
	Gray Water Equipment Gray Water Treatment Equipment		
	Gray Water Piping System		
D2030.90	Gray Water Specialties Building Support Plumbing System Supplementary Components		Includes: Common work results for plumbing, plumbing insulation, and instrumentation and control for plumbing to be included with building support plumbing system elements above as appropriate.
	Mechanical Metal Supports	05 45 13	11 15 100
	Common Work Results for Plumbing	22 05 00	
	Expansion Fittings and Loops Meters and Gages	22 05 16 22 05 19	
	Valves	22 05 23	
	Hangers and Supports Heat Tracing	22 05 29 22 05 33	
	Vibration and Seismic Controls	22 05 33	
	Identification	22 05 53	
	Insulation Instrumentation and Controls	22 07 00 22 09 00	
		-	

			<b>D</b> Services
NUMBER	TITLE	MF NUMBER	EXPLANATION
D2050	General Service Compressed-Air	22 15 00	Includes: Compressed air system serving general service requirements
	General Service Compressed-Air Performance Requirements	01 86 16	
	General Service Compressed-Air Piping	22 15 13 22 15 16	
	General Service Compressed-Air Valves General Service Packaged Air Compressors and Receivers		
	See Also:		
	Laboratory and Healthcare Compressed-Air: D2060.10.		
D2060	Process Support Plumbing Systems		Includes: Process Support Plumbing System Supplementary Components as appropriate.
D2060.10	Compressed-Air Systems	22 61 00	Includes: Compressed-air systems for laboratory and healthcare purposes.
	Compressed-Air Systems Performance Requirements	01 86 16	
	Laboratory Air Operating Pressure	01 86 16	
	Medical Air Operating Pressure	01 86 16	
	Dental Air Operating Pressure	01 86 16	
	Instrument Air Operating Pressure	01 86 16	
	Medical Laboratory Air Operating Pressure	01 86 16	
	Air Capacity	01 86 16	
	Compressed-Air Piping	22 61 13	
	Compressed-Air Equipment	22 61 19	
	See Also: General Service Compressed-Air: D2050.		
D2060.20	Vacuum Systems	22 62 00	Includes: Vacuum systems for laboratory and healthcare purposes.
	Vacuum Systems Performance Requirements	01 86 16	
	Laboratory Vacuum Operation Level	01 86 16	
	Medical Surgical Vacuum Operation Level	01 86 16	
	Waste Anesthetic Gas Disposal Vacuum Operation Level	01 86 16	
	Dental Vacuum Operation Level	01 86 16	
	Oral-Evacuation Vacuum Operation Level	01 86 16	
	Healthcare Laboratory Vacuum Operation Level	01 86 16	
	Vacuum Piping	22 62 13	
	Vacuum Equipment	22 62 19	
	Waste Anesthesia-Gas Piping	22 62 23	
D2060.30	Gas Systems	22 63 00	Includes: Gas systems for laboratory and healthcare purposes.
	Gas Systems Performance Requirements	01 86 16	
	Medical Carbon Dioxide Operating Pressure	01 86 16	
	Medical Helium Operating Pressure	01 86 16	
	Medical Nitrogen Operating Pressure	01 86 16	
	Medical Nitrous Oxide Operating Pressure	01 86 16	
	Medical Oxygen Operating Pressure	01 86 16	
	Gas Piping	22 63 13	
	Gas Storage Tanks	22 63 19	
D0000 45	Gas Equipment	00.00.00	
D2060.40	Chemical-Waste Systems	22 66 00	Includes: Chemical-waste systems for laboratory and healthcare purposes.
	Chemical-Waste Systems Performance Requirements	01 86 16	
	Single-Wall Piping Pressure Rating	01 86 16	

D SERVICE	=5		
NUMBER	TITLE	MF NUMBER	EXPLANATION
	Double-Containment Piping Pressure Rating Field-Fabrication Containment-Piping Pressure Rating	01 86 16 01 86 16	
	Laboratory Chemical-Waste Piping	22 66 53	
	Healthcare Chemical-Waste Piping	22 66 70	
	Chemical-Waste Tanks	22 66 83	
D2060.50	Processed Water Systems	22 67 00	Includes: Processed water systems for laboratory and healthcare purposes.
	Processed Water Systems Performance	01 86 16	
	Reagent-Water Piping Operating Pressure	01 86 16	
	Deionized-Water Piping Operating Pressure	01 86 16	
	Distilled-Water Piping Operating Pressure	01 86 16	
	Reverse-Osmosis-Water Piping Operating Pressure	01 86 16	
	Processed Water Piping	22 67 13	
	Processed Water Equipment See Also:	22 67 19	
	Healthcare Plumbing Fixtures: D2010.60.		
	Healthcare Equipment: E1040.20. Laboratory Equipment: E1040.10. Healthcare Special Procedures: Z1020.70.		
D2060.90	Process Support Plumbing System Supplementary Components		Includes: Common work results for plumbing, plumbing insulation, and instrumentation and controls to be included with process support plumbing systems elements above as appropriate.
	Mechanical Metal Supports	05 45 13	арргорпате.
	Healthcare Metal Supports	05 45 13	
	Common Work Results for Plumbing	22 05 00	
	Valves	22 05 23	
	Hangers and Supports	22 05 29	
	Heat Tracing	22 05 33	
	Vibration and Seismic Controls	22 05 48	
	Identification	22 05 53	
	Insulation	22 07 00	
	Instrumentation and Controls	22 09 00	
D30	HEATING, VENTILATION, AND AIR	23 00 00	
	CONDITIONING (HVAC)		
	HVAC Performance Requirements See Also:	01 86 19	
	Starting and Adjusting: Z1070.40.  Demonstration and Training:  Z1070.80.		
D3010	Facility Fuel Systems	23 10 00	Includes: Fuel-oil, gasoline, natural-gas, and liquefied-petroleum fuel systems associated with a structure.
	Facility Fuel Systems Performance Requirements	01 86 19	. 5.5.5.5.5.5.
	Fuel System Operating Pressure	01 86 19	
	Fuel Storage Tank Capacity	01 86 19	
	Fuel Pump Capacity	01 86 19	
	See Also:	2.30.0	
	Site Fuel Distribution: G3060.		

			<b>D</b> SERVICES
Number	Тітье	MF NUMBER	EXPLANATION
D3010.10	Fuel Piping	23 11 00	Includes: Fuel piping, valves, piping specialties, and other components within, under, or closely associated with a structure.
D3010.30	Fuel Pumps	23 12 00	Includes: Fuel pumps within or closely associated with a structure.
	Facility Fuel-Oil Pumps	23 12 13	
	Facility Gasoline Dispensing Pumps	23 12 16	
D3010.50	Fuel Storage Tanks	23 13 00	Includes: Fuel tanks under or closely associated with a structure.
D3020	Heating Systems		Includes: Associated ductwork, piping, valves, and specialties.
			Includes: Heating System Supplementary Components as appropriate.
	Heating Systems Performance Requirements	01 86 19	
	Sustainable Design Requirements	01 86 19	
D3020.10	Heat Generation		Includes: Boilers, furnaces, solar, geothermal, and biomass heat generation, fuel fired heaters, and heat exchangers.
	Fuel Heat Generation		Includes: Fuel-fired boilers and generators for hot water and steam systems. Includes breechings, chimneys, and stacks.
	Breechings, Chimneys, and Stacks	23 51 00	
	Fuel-Fired Heating Boilers	23 52 00	
	Electric Heating Boilers	23 52 13	Includes: Electric boilers and generators for hot water and steam systems.
	Heating Boiler Feedwater Equipment	23 53 00	Includes: Equipment to remove oxygen and other dissolved gases in boiler feed.
	Boiler Feedwater Pumps	23 53 13	
	Deaerators	23 53 16	
	Furnaces	23 54 00	Includes: Fuel-fired and electric furnaces.
	Solar Heat Generation	23 56 00	Includes: Equipment powered by solar energy.
	Heating Solar Collectors	23 56 13	
	Packaged Solar Heating Equipment	23 56 16	
	Geothermal Heat Generation		
	Biomass Heat Generation		
	Fuel-Fired Heaters	23 55 00	Includes: Fuel-fired radiant and unit heaters.
	Heat Exchangers for HVAC	23 57 00	Includes: Equipment used to transfer heat from one medium to another.
	See Also:		
	Facility Fuel Systems: D3010.		
	Facility Distribution: D3050.10.		
	Facility Steam Distribution:		
	D3050.30.		
	HVAC Air Distribution: D3050.50.		
D3020.30	Thermal Heat Storage	23 71 13	Includes: Equipment to store thermal energy for use in heating and with charging or discharging this energy at a controllable rate.
D3020.70	Decentralized Heating Equipment	23 80 00	Includes: Heating equipment that serves a portion of a HVAC system.
	Convection Heating Units	23 82 00	Includes: Convection units may provide heating and cooling.
	Valance Heating Units	23 82 13	
	Chilled Beams	23 82 14	
	Air Coils	23 82 14	
	Fan Coil Units	23 82 19	
	Unit Ventilators	23 82 23	
	Onit ventuators	20 02 23	

NUMBER	Тпте	MF NUMBER	EXPLANATION
NUMBER			EXPLANATION
	Induction Units	23 82 26	
	Radiators	23 82 29	
	Convectors	23 82 33	
	Finned-Tube Radiation Heaters	23 82 36	
	Unit Heaters	23 82 39	la de de a Clastria sables se se se la se d
	Radiant Heating Units	23 83 00	Includes: Electric cables or panels and
			hydronic piping used for radiant heating for space heating.
D0000 00	Heating Overtons Oversland at the Oversland		
D3020.90	Heating System Supplementary Components		Includes: Common work results for HVAC, insulation, and instrumentation and control to be
			included in heating system elements above as
			appropriate.
	Machanical Matal Companta	05 45 40	арргорнасе.
	Mechanical Metal Supports Common Work Results for HVAC	05 45 13	
	Meters and Gages	23 05 00 23 05 19	
	General-Duty Valves	23 05 19	
	Hangers and Supports	23 05 23	
	Vibration and Seismic Controls	23 05 29	
	Identification	23 05 46	
	Anti-Microbial Coatings	23 05 63	
	Anti-Microbial Ultraviolet Emitters	23 05 66	
	Testing, Adjusting, and Balancing	23 05 93	
	Insulation	23 07 00	
	Instrumentation and Control	23 09 00	
D3030	Cooling Systems	20 00 00	Includes: Associated ductwork, piping, valves,
			and specialties.
			Includes: Cooling System Supplementary
			Components as appropriate.
	Cooling Systems Performance Requirements	01 86 19	
	Sustainable Design Requirements	01 86 19	
D3030.10	Central Cooling	23 60 00	Includes: Refrigerant compressors,
	•		condensers, packaged compressor and
			condenser units, water chillers, and cooling
			towers.
	Refrigerant Compressors	23 61 00	Includes: Various type of compressors used in refrigeration process.
	Refrigerant Condensers	23 63 00	Includes: Condensing units used to reject heat
	Reingerant Condensers	23 63 00	from the refrigeration process.
	Packaged Compressor and Condenser Units	23 62 00	Includes: Compressor in combination with
			condensing units used to reject heat from the
			refrigeration process.
	Water Chillers	23 64 00	Includes: Various types of chillers used for
			building space cooling.
	Cooling Towers	23 65 00	Includes: Factory- and field-fabricated cooling
			towers and liquid coolers. Includes piping and
			specialties; chemical water treatment; vibration
			and seismic controls; and integral controls not a
			part of the condenser water distribution
			systems.
	See Also:		
	Facility Hydronic Distribution		

Facility Hydronic Distribution

Systems: D3050.

Refrigeration Detection and Alarm: D7050.50.

Site Hydronic Cooling Distribution: G3050.40.

			D SERVICES
NUMBER	TITLE	MF Number	EXPLANATION
D3030.30	Evaporative Air-Cooling	23 76 00	Includes: Equipment used to reject heat from the refrigeration process by evaporation.
D3030.50	Thermal Cooling Storage	23 71 00	Includes: Equipment to store thermal energy for use in cooling and with charging or discharging this energy at a controllable rate.
	Chilled-Water Thermal Storage	23 71 16	
D2020 70	Ice Storage	23 71 19	In all relations Conditions are viscount that common a
D3030.70	Decentralized Cooling	23 80 00	Includes: Cooling equipment that serves a portion of a HVAC system.
	Air-Conditioners		
	Packaged Terminal Air-Conditioners	23 81 13	
	Room Air-Conditioners	23 81 16	
	Self-Contained Air-conditioners	23 81 19	
	Computer-Room Air-Conditioners	23 81 23	
	Split-System Air-Conditioners	23 81 26	
	Unitary Heat Pumps		
	Air-Source Heat Pumps	23 81 43	
	Water-Source Heat Pumps	23 81 46	
	Convection Cooling Units	23 82 00	Note: Convection units may provide heating and cooling.
	Valance Cooling Units	23 82 13	3
	Chilled Beams	23 82 14	
	Air Coils	23 82 16	
	Fan Coil Units	23 82 19	
	Unit Ventilators	23 82 23	
	Induction Units	23 82 26	
D2020 00	Convectors	23 82 33	Includes: Common work results for HVAC,
D3030.90	Cooling System Supplementary Components		insulation, and instrumentation and control to be included in cooling system elements above as appropriate.
	Mechanical Metal Supports	05 45 13	
	Common Work Results for HVAC	23 05 00	
	Meters and Gages	23 05 19	
	General-Duty Valves	23 05 23	
	Hangers and Supports	23 05 29	
	Vibration and Seismic Controls	23 05 48	
	Identification	23 05 53	
	Anti-Microbial Coatings	23 05 63	
	Anti-Microbial Ultraviolet Emitters	23 05 66	
	Testing, Adjusting, and Balancing	23 05 93	
	Insulation	23 07 00	
	Instrumentation and Control	23 09 00	
D3050	Facility HVAC Distribution Systems	25 05 00	Includes: Facility Distribution Systems
D3030	-		Supplementary Components as appropriate.
	See Also:		
	Exterior Louvers: B2070.10.		
	Interior Louvers: C1090.15.		
	Heat Generation: D3020.		
	Integrated Construction: F1010.		
	Site Energy Distribution: G3050.		
D3050.10	Facility Hydronic Distribution		Includes: Piping systems and equipment for distribution of heating hot water and cooling chilled water. Includes piping systems, pumps, tanks, supports and anchors, vibration and seismic controls, identification, and piping and equipment insulation.

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NUMBER	Τιπιε	MF NUMBER	EXPLANATION
	Hydronic Distribution Performance Requirements Hot-Water Heating Piping Working Pressure and Temperature		
	Chilled-Water Piping Working Pressure and Temperature	01 86 19	
	Dual-Temperature Heating and Cooling Water Piping Working Pressure and Temperature	01 86 19	
	Condenser-Water Piping Working Pressure and Temperature	01 86 19	
	Glycol Cooling-Water Piping Working Pressure and Temperature	01 86 19	
	Makeup-Water Piping Working Pressure and Temperature	01 86 19	
	Condensate-Drain Piping Working Temperature	01 86 19	
	Blowdown-Drain Piping Working Temperature	01 86 19	
	Air-Vent Piping Temperature	01 86 19	
	Hydronic Pumps Capacities  See Also:  Boilers: D3020.10  Chillers: D3030.10  Cooling Towers: D3030.10	01 86 19	
	Hydronic Piping System		
	Hydronic Pumps	23 21 23	
	Hydronic Piping	23 21 13	
D3050.30	Water Treatment for Hydronic Systems Facility Steam Distribution	23 25 00	Includes: Piping systems and equipment for distribution of steam and condensate return. Includes piping systems, pumps, tanks, supports and anchors, vibration and seismic controls, identification, and piping and equipment insulation.
	Steam Distribution Performance Requirements High Pressure Steam Piping Working Pressure	01 86 19 01 86 19	
	Low Pressure Steam Piping Working Pressure	01 86 19	
	Condensate Piping Working Pressure and Temperature	01 86 19	
	Makeup-Water Piping Working Pressure and Temperature	01 86 19	
	Steam Condensate Pump Capacity  See Also:  Boilers: D3020.10	01 86 19	
	Steam Piping System		
	Steam Condensate Pumps	23 22 23	
	Steam Piping	23 22 13	
	Water Treatment for Steam Systems	23 25 19	
D3050.50	HVAC Air Distribution	202013	Includes: Systems for distribution of air including supply systems, return systems, and general exhaust systems. Does not include special exhaust systems such as kitchen hood, paint booth, and fume hood exhaust systems.

HVAC Air Distribution Performance Requirements	<b>MF N</b> UMBER 01 86 19	EXPLANATION
Requirements	01 86 19	
Sustainable Design Requirements	01 86 19	
Fan Total Airflow and External Static Pressure	01 86 19	
Pressure Class, Seal Class, and Leakage Class for Supply Ducts	01 86 19	
Pressure Class, Seal Class, and Leakage Class for Return Ducts	01 86 19	
Filtration Efficiency	01 86 19	
Air-Handling Units		Includes: Air-handling units consisting of fans, coils, dampers, control devices, and other accessories.
Indoor Central-Station Air-Handling Units	23 73 00	
Packaged Outdoor HVAC Equipment	23 74 00	
Custom-Packaged Outdoor HVAC Equipment	23 75 00	
HVAC Air Distribution Components	23 30 00	Includes: Ducts, duct accessories, fans, terminal units, and air inlets and outlets.
HVAC Fans	23 34 00	
HVAC Ducts and Casings	23 31 00	
Air Plenums and Chases	23 32 00	
Air Duct Accessories	23 33 00	
Air Terminal Units	23 36 00	
Air Outlets and Inlets	23 37 00	
HVAC Air Cleaning Devices	23 40 00	Includes: Devices of a variety of types to clean distribution air.
Particulate Air Filtration	23 41 00	
Gas-Phase Air Filtration	23 42 00	
Electronic Air Cleaners	23 43 00	
Humidity Control	23 84 00	Includes: Equipment that adds or removes moisture from a medium in order to control the humidity.
See Also:		
Integrated Ceiling Assemblies: C1070.70.		
Facility Distribution Systems Supplementary Components		Includes: Common work results for HVAC, insulation, and instrumentation and control to be included in distribution system elements above as appropriate.
Mechanical Metal Supports	05 45 13	
Common Work Results for HVAC	23 05 00	
Expansion Fittings and Loops	23 05 16	
Meters and Gages	23 05 19	
General-Duty Valves	23 05 23	
Hangers and Supports	23 05 29	
Heat Tracing	23 05 33	
Vibration and Seismic Controls	23 05 48	
Identification	23 05 53	
Anti-Microbial Coatings	23 05 63	
Anti-Microbial Ultraviolet Emitters	23 05 66	
Testing, Adjusting, and Balancing	23 05 93	
Insulation	23 07 00	
Instrumentation and Control	23 09 00	
Ventilation		Includes: Supply air, return air, exhaust air, outside air, and air cleaning systems. Includes Ventilation Supplementary Components as appropriate.
•	Class for Supply Ducts Pressure Class, Seal Class, and Leakage Class for Return Ducts Filtration Efficiency Air-Handling Units  Indoor Central-Station Air-Handling Units Packaged Outdoor HVAC Equipment Custom-Packaged Outdoor HVAC Equipment HVAC Air Distribution Components  HVAC Fans HVAC Ducts and Casings Air Plenums and Chases Air Duct Accessories Air Terminal Units Air Outlets and Inlets HVAC Air Cleaning Devices  Particulate Air Filtration Gas-Phase Air Filtration Electronic Air Cleaners Humidity Control  See Also: Integrated Ceiling Assemblies: C1070.70. Facility Distribution Systems Supplementary Components  Mechanical Metal Supports Common Work Results for HVAC Expansion Fittings and Loops Meters and Gages General-Duty Valves Hangers and Supports Heat Tracing Vibration and Seismic Controls Identification Anti-Microbial Coatings Anti-Microbial Ultraviolet Emitters Testing, Adjusting, and Balancing Insulation Instrumentation and Control	Class for Supply Ducts Pressure Class, Seal Class, and Leakage Class for Return Ducts Filtration Efficiency Air-Handling Units  Indoor Central-Station Air-Handling Units Packaged Outdoor HVAC Equipment Custom-Packaged Outdoor HVAC Equipment HVAC Air Distribution Components  23 30 00  HVAC Fans HVAC Ducts and Casings Air Plenums and Chases Air Duct Accessories Air Outlets and Inlets Air Outlets and Inlets 13 37 00 HVAC Air Cleaning Devices  Particulate Air Filtration Gas-Phase Air Filtration Electronic Air Cleaners Humidity Control  See Also: Integrated Ceiling Assemblies: C1070.70. Facility Distribution Systems Supplementary Components  Mechanical Metal Supports Components  Air Humidity Control Components  Mechanical Metal Supports Components  Mechanical Metal Supports Components  Mechanical Metal Supports Components  Air Hitchical Country Components  Air Hitchical Country Components  Mechanical Metal Supports Components  Air Hitchical Country Components  Air Hitchical Country Components  Anti-Microbial Ultraviolet Emitters Components  Anti-Microbial Ultra

D SERVICE			
NUMBER	Тпе	MF NUMBER	EXPLANATION
	Ventilation Performance Requirements	01 86 19	
	Sustainable Design Requirements	01 86 19	
	Fan Total Airflow and External Static	01 86 19	
	Pressure		
	Pressure Class, Seal Class, and Leakage	01 86 19	
	Class for Exhaust Ducts		
D3060.10	Supply Air		
	Supply Air HVAC Fans	23 34 00	
	Supply Air Ducts and Casings	23 31 00	
	Supply Air Plenums and Chases	23 32 00	
	Supply Air Duct Accessories	23 33 00	
	Supply Air Terminal Units	23 36 00	
	Supply Air Outlets	23 37 00	
D3060.20	Return Air		
	Return Air HVAC Fans	23 34 00	
	Return Air Ducts and Casings	23 31 00	
	Return Air Plenums and Chases	23 32 00	
	Return Air Outlete and July 1	23 33 00	
D2000 00	Return Air Outlets and Inlets	23 37 00	
D3060.30	Exhaust Air	23 35 00	Includes: Special quatema for subquating =:-
	Special Exhaust Systems	23 35 00	Includes: Special systems for exhausting air such as kitchen hood, paint booth, and fume
			hood exhaust systems.
	See Also:		nood exhaust systems.
	Exterior Louvers: B2070.		
	Interior Louvers: C1090.15.		
	Laboratory Equipment: E1040.10.		
	Food Service Equipment:		
	E1030.80.		
	Air-Borne Particulate Collection Systems		
	Sawdust Collection Systems	23 35 13.13	
	Engine Exhaust Systems	23 35 16	
	Ventilation Hoods	23 38 00	
	Commercial Kitchen Hoods	23 38 13	
	Fume Hood Exhaust	23 38 16	
	Exhaust Air HVAC Fans	23 34 00	
	Exhaust Air Ducts and Casings	23 31 00	
	Exhaust Air Plenums and Chases	23 32 00	
	Exhaust Air Duct Accessories	23 33 00	
	Exhaust Air Inlets	23 37 00	
D3060.40	Outside Air		
	Outside Air HVAC Fans	23 34 00	
	Outside Air Ducts and Casings	23 31 00	
	Outside Air Plenums and Chases	23 32 00	
	Outside Air Torreign I Units	23 33 00	
	Outside Air Terminal Units	23 36 00	
D2000 00	Outside Air Outlets and Inlets	23 37 00	Included Air to air an area area area.
	Air-to-Air Energy Recovery	23 72 00	Includes: Air-to-air energy recovery units.
	HVAC Air Cleaning Ventilation Supplementary Components	23 40 00	Includes: Common work results for HVAC
D3060.90	ventilation Supplementary Components		Includes: Common work results for HVAC, insulation, and instrumentation and control to be
			included in ventilation elements above as
			appropriate.
	Mechanical Metal Supports	05 45 13	appropriate.
	Common Work Results for HVAC	23 05 00	
	Hangers and Supports	23 05 00	
	Vibration and Seismic Controls	23 05 29	
	Identification	23 05 53	
	idonanoui	20 00 00	

			<b>D</b> GERMOLO
NUMBER	TITLE	MF NUMBER	EXPLANATION
<b>D3070</b> D3070.10	Anti-Microbial Coatings Anti-Microbial Ultraviolet Emitters Testing, Adjusting, and Balancing Insulation Instrumentation and Control Special Purpose HVAC Systems Snow Melting	23 05 63 23 05 66 23 05 93 23 07 00 23 09 00	Includes: Electric cables and hydronic piping
	Ç		used for snow and ice control.
	Radiant-Heating Electric Cables Radiant-Heating Hydronic Piping	23 83 13 23 83 16	
D40	FIRE PROTECTION  See Also: Starting and Adjusting: Z1070.40. Demonstration and Training: Z1070.80. Site Fire Protection Water Distribution: G3010.30.		
D4010	Fire Suppression	21 00 00	Includes: Fire Suppression Supplementary Components as appropriate.
D4010.10	Fire Suppression Performance Requirements Water-Based Fire-Suppression	01 86 13 21 10 00	Includes: Systems that use water for fire extinguishing and suppression. Includes piping, fittings, and specialties; hoses, valves, cabinets; fire pumps, accessories, and controls.
	Water-Based Fire Suppression Performance Requirements	01 86 13	
	Sprinkler Occupancy Hazard Classifications Standard-Pressure Piping Working Pressure High-Pressure Piping Working Pressure See Also: Fire Protection Specialties: D4030. Detection and Alarm: D7050. Integrated Automation: D8010. Site Fire Protection Water Distribution: G3010.30.	01 86 13 01 86 13 01 86 13	
	Fire-Suppression Water Storage	21 40 00	
	Fire Pumps	21 30 00	
	Fire-Suppression Piping Fire-Suppression Standpipes	21 11 00 21 12 00	
	Fire-Suppression Sprinkler Systems	21 13 00	Includes: Piping, fittings, valves, hangers, supports, other specialties, and sprinklers for fire protection systems. Includes limited area sprinkler systems, fire pumps, accessories, and controls.
	Wet-Pipe Sprinkler Systems	21 13 13	
	Dry-Pipe Sprinkler Systems	21 13 16	
	Preaction Sprinkler Systems Combined Dry-Pipe and Preaction Sprinkler Systems	21 13 19 21 13 23	
	Deluge Fire-Suppression Sprinkler Systems	21 13 26	
	Water Spray Fixed Systems	21 13 29	
	Antifreeze Sprinkler Systems	21 13 36	
D4010.50	Foam-Water Systems Fire-Extinguishing	21 13 39 21 20 00	Includes: Systems that use other than water for fire extinguishing and suppression. Includes piping, fittings, and specialties; valves, accessories, and controls.

Number	Тпше	MF NUMBER	EXPLANATION
	Carbon-Dioxide Fire-Extinguishing Systems	21 21 00	
	Clean-Agent Fire-Extinguishing Systems	21 22 00	
	Wet-Chemical Fire-Extinguishing Systems	21 23 00	
D4040.00	Dry-Chemical Fire-Extinguishing Systems	21 24 00	Includes. Every city fittings and loops restore
D4010.90	Fire Suppression Supplementary Components		Includes: Expansion fittings and loops, meters and gages, general-duty valves, hanger and
			supports, heat tracing, vibration and seismic
			controls, identification, insulation, and
			instrumentation and control to be included in fire protection elements above as appropriate.
	Machanical Matal Cupports	05 45 13	protection elements above as appropriate.
	Mechanical Metal Supports  Common Work Results for Fire Suppression	21 05 00	
	Expansion Fittings and Loops	21 05 16	
	Meters and Gages	21 05 19	
	General-Duty Valves	21 05 23	
	Hangers and Supports	21 05 29	
	Heat Tracing Vibration and Seismic Controls	21 05 33 21 05 48	
	Identification	21 05 53	
	Insulation	21 07 00	
	Instrumentation and Control	21 09 00	
D4030	Fire Protection Specialties	10 44 00	Includes: Fire fighting devices and storage
			cabinets except devices connected to a fire suppression system.
D4030.10	Fire Protection Cabinets	10 44 13	oupprocedent cyclonic
D4030.30	Fire Extinguishers	10 44 16	
	Breathing Air Replenishment Systems	10 44 33	
	Fire Extinguisher Accessories	10 44 43	
D50	ELECTRICAL	26 00 00	
	Electrical Performance Requirements	01 86 26	
	See Also: Starting and Adjusting: Z1070.40.		
	Demonstration and Training:		
	Z1070.80 .		
D5010	Facility Power Generation		
	Facility Power Generation Performance	01 86 26	Includes: Power Generation Supplementary
	Requirements Voltage	01 86 26	Components as appropriate.
	Power Output Ratings	01 86 26	
D5010.10	Packaged Generator Assemblies	26 32 00	Includes: Generator, frequency changers, and
			rotary converters and uninterruptible power
	Engine Concretors	26 32 13	units.
	Engine Generators Steam-Turbine Generators	26 32 13	
	Hydro-Turbine Generators	26 32 19	
	Wind Energy Equipment	26 32 23	
	Frequency Converters	26 32 26	
	Rotary Converters	26 32 29 26 32 33	
D5010.20	Uninterruptible Power Systems Battery Equipment	26 32 33 26 33 00	Includes: Batteries, battery racks, battery
_ 55.5.20	/ <b>-</b>	_0 00 00	chargers, static power converters,
			uninterruptible power supplies, and
	Dattaria	00.00.40	uninterruptible power supplies, and accessories.
	Batteries Battery Racks	26 33 13 26 33 16	
	Battery Racks	26 33 16	

Number	TITLE	MF NUMBER	EXPLANATION
	Static Power Converters	26 33 33	
	Battery Chargers	26 33 43	
	Battery Monitoring	26 33 46	
	Static Uninterruptible Power Supply	26 33 53	
D5010.30	Photovoltaic Collectors	26 31 00	Includes: Solar cells to convert sunlight to electricity.
D5010.40	Fuel Cells	48 18 00	Includes: Fuel cell electricity generating equipment.
D5010.60	Power Filtering and Conditioning	26 35 00	Includes: Capacitors, chokes and inductors, filters, power factor controllers, and voltage regulators.
	Capacitors	26 35 13	
	Chokes and Inductors	26 35 16	
	Electromagnetic-Interference Filters	26 35 23	
	Harmonic Filters	26 35 26	
	Power Factor Correction Equipment	26 35 33	
	Slip Controllers	26 35 36	
	Static-Frequency Converters	26 35 43	
	Radio-Frequency-Interference Filters	26 35 46	
	Voltage Regulators	26 35 53	
D5010.70	Transfer Switches	26 36 00	Includes: Switches that transfer from one source of electricity to another.
D5010.90	Facility Power Generation Supplementary Components		Includes: Grounding and bonding, hanger and supports, raceway and boxes, vibration and seismic controls, identification, wiring connectors, and instrumentation and control to be included in power generation system elements above as appropriate.
	Electrical Metal Supports	05 45 16	
	Common Work Results for Electrical	26 05 00	
	Grounding and Bonding	26 05 26	
	Hangers and Supports	26 05 29	
	Raceways and Boxes	26 05 33	
	Vibration and Seismic Controls	26 05 48	
	Identification	26 05 53	
	Wiring Connectors	26 05 83	
	Instrumentation and Control	26 09 00	
D5020	Electrical Service and Distribution		Includes: Electrical Service and Distribution
20020			Supplementary Components as appropriate.
	Electrical Service and Distribution Performance Requirements	01 86 26	
D5020.10	Electrical Service	26 21 00	Includes: Includes meters, substations, transformers, switchgear, switchboards, and protective devices where electrical power enters structure.
	Electricity Metering	26 16 00	
	Substations	26 11 00	
	Transformers	26 12 00	
		26 22 00	
	Switchgear and Switchboards	26 13 00	
	<del>-</del>	26 23 00	
	Protection Devices	26 18 00	
		26 28 00	
	See Also:		
	Site Electrical Distribution Systems: G4010.		

Number	Тіпце	MF NUMBER	EVEL ANATION
			EXPLANATION
D5020.30	Power Distribution	26 20 00	Includes: Bus assemblies, distribution equipment, and electrical wiring system to distribute electrical power to switchboards, panelboards, and motor control centers.
	Switchboards and Panelboards	26 24 00	
	Switchboards	26 24 13	
	Panelboards	26 24 16	
	Motor-Control Centers	26 24 19	
	Bus Assemblies	26 25 00	
	Distribution Equipment	26 27 00	
	Electrical Cabinets and Enclosures	26 27 16	
	Electrical Wiring System		
	Raceways and Enclosures	26 05 33	
	Ducts	26 05 43	
	Cable Trays	26 05 36	
	Wiring	26 05 13	
	See Also:		
	Site Electrical Distribution Systems: G4010.		
D5020.70	Facility Grounding	26 05 26	Includes: Raceways and wiring to ground and bond electrical distribution system.
	Raceways	26 05 33	
	Wiring	26 05 13	
	See Also:		
	Site Grounding: G4010.70		
D5020.90	Electrical Service and Distribution Supplementary Components		Includes: Grounding and bonding, hanger and supports, raceways and boxes, cable trays, utility poles, vibration and seismic controls, identification, wiring connectors, and instrumentation and control to be included in electrical service and distribution system elements above as appropriate.
	Electrical Metal Supports	05 45 16	
	Common Work Results for Electrical	26 05 00	
	Grounding and Bonding	26 05 26	
	Hangers and Supports	26 05 29	
	Raceways and Boxes	26 05 33	
	Cable Trays	26 05 36	
	Utility Poles	26 05 46	
	Vibration and Seismic Controls	26 05 48	
	Identification	26 05 53	
	Wiring Connectors	26 05 83	
DECC	Instrumentation and Control	26 09 00	hadradas Osasal Brown El (1.15
D5030	General Purpose Electrical Power	04.00.00	Includes: General Purpose Electrical Power Supplementary Components as appropriate.
	General Purpose Electrical Power Performance Requirements	01 86 26	
D5030.10	Branch Wiring System		Includes: Raceways, ducts, cable trays, and wiring to deliver power from branch panelboards to point of use.
	Raceways and Enclosures	26 05 33	
	Ducts	26 05 43	
	Cable Trays	26 05 36	
	Wiring	26 05 19	

Electrical Metal Supports Common Work Results for Electrical Grounding and Bonding Electrical Metal Supports Grounding and Bonding Electrical Metal Supports Grounding and Bonding Electrical Section Finance	D5030.50   Wiring Devices   26 27 26   Includes: Electrical devices at point of use including electrical oducties and switching control of use including electrical devices at point of use including electrical outlets and swish hanger supports, raceways and boxes, cable trays when the propose supports, raceways and boxes, cable trays white includes: Conding and bonding, hanger supports, raceways and boxes, cable trays when the propose supports, raceways and boxes, cable trays white propose and point of use includes: Conding and bonding, hanger supports, raceways and boxes, cable trays when the propose supports, raceways and boxes, cable trays and control to be includes: Conding and bonding, hanger supports, raceways and boxes, cable trays and control to be includes: Conding and bonding, hanger supports, raceways and boxes, cable trays and control to be included. School of control trays and supports and selectrical outlets and support supports, raceways and boxes, cable trays and control devices.  Includes: Lighting control proposed and				<b>D</b> Services
D503.90 General Purpose Electrical Power Supplementary Components Supplementary Common Work Results for Electrical Supplementary Supplem	D503.90   General Purpose Electrical Power Supplementary Components	Number	Тпше	MF NUMBER	EXPLANATION
Components   Components   Supports   Suppo	Components   Supports, raceways and boxes, cable trays   Supports, raceways and boxes, cable trays   Supports   Substantian and selamic controls (self-inflication wiring connectors, and instrumentation and control to be included in general purpose electrical power elements above as appropriate   Substantian and Supports   26 05 26   Substantian and Supports   26 05 26   Substantian and Supports   26 05 33   Cable Trays   26 05 33   Vibration and Seismic Controls   26 09 53   Vibration and Seismic Controls   26 09 54   Identification   26 09 50   Instrumentation and Control   26 09 90   Includes: Lighting Supplementary Comport as appropriate.    Lighting Performance Requirements   01 86 26   Substantable Design Requiremen	D5030.50	Wiring Devices	26 27 26	•
Common Work Results for Electrical 26 05 00 Grounding and Bonding Hangers and Supports 26 05 29 Raceways and Boxes 26 05 36 Cable Trays 26 05 36 Vibration and Seismic Controls 26 05 43 Vibration and Seismic Controls 26 05 53 Vibration and Seismic Controls 26 05 53 Vibration and Seismic Control 26 05 53 Vibration and Seismic Control 26 05 53 Vibration and Seismic Control 26 05 53 Vibration and Vibration and Control 26 05 53 Vibration And Vibration	Common Work Results for Electrical 26 05 00 Grounding and Bonding 28 05 29 Raceways and Boxes 26 05 39 Raceways and Boxes 26 05 30 Vibration and Seismic Controls 26 05 53 Vibration and Seismic Controls 26 05 53 Vibration and Seismic Controls 26 05 53 Vibration and Control 26 05 00 Using Connectors 26 05 00 Vibration and Control 26 05 00 Vi	D5030.90			supports, raceways and boxes, cable trays, vibration and seismic controls, identification, wiring connectors, and instrumentation and
Grounding and Bonding 26 05 26 Hangers and Supports 26 05 26 Hangers and Supports 26 05 33 Cable Trays 26 05 34 Vibration and Seismic Controls 26 05 48 Identification 26 05 53 Wiring Connectors 26 05 88 Instrumentation and Control 26 09 00 Includes: Lighting Performance Requirements 01 86 26 Sustainable Design Requirements	Grounding and Bonding 28 0 5 26 Hangers and Supports 28 0 5 26 Hangers and Supports 28 0 5 29 Raceways, and Boxes 26 0 5 33 Cable Trays 26 0 5 36 Vibration and Seismic Controls 26 0 5 48 Identification 26 0 5 53 Wring Connectors 28 0 5 80 83 Instrumentation and Control 26 0 90 00 Includes: Lighting Performance Requirements 01 86 26 Sustainable Design Requirements		· ·		
Hangers and Supports 26 0 5 29 Raceways and Boxes 26 05 33 Cable Trays 26 05 36 Cable Trays 26 05 36 Cable Trays 26 05 36 Cable Trays 26 05 43 Cable Trays 26 05 36 Cable Trays 26 05 10 Cable Tray 26 05 10 Cable Trays 26	Hangers and Supports 26 05 29 Raceways and Boxes 26 05 33 Cable Trays 26 05 36 Cable Trays 26 05 36 Vibration and Seismic Controls 26 05 53 Wifring Connectors 26 05 83 Instrumentation and Control 26 05 93 Wifring Connectors 26 05 83 Includes: Lighting Supplementary Compon as appropriate.  Lighting Performance Requirements 01 86 26 Lighting Levels for Various Areas of Facility See Also: Site Lighting: G2007.0 Roadway Lighting: G2007.0 Pedestrian Plaza and Walkway Lighting: G2003.70. Artifield Lighting: G2005.0 Landscape Lighting: G2000.70. Athletic, Recreation, and Playfield Area Lighting: G2005.0 Lighting Control Devices 26 09 23 Lighting Control Devices 26 09 23 Lighting Control Devices 26 09 24 Lighting Control Devices 26 09 25 Lighting Control Devices 26 09 26 Central Dimming Control 26 09 33 Modular Dimming Control 26 09 33 Modular Dimming Control 26 09 33 Theatrical Lighting Control 26 09 33 Theatrical Lighting Control 26 09 33 Theatrical Lighting Control 26 09 43 Theatrical Lighting Contro				
Raceways and Boxes	Raceways and Boxes				
Cable Trays Vibration and Seismic Controls Identification Wing Connectors Instrumentation and Control 26 09 53 Instrumentation and Control 26 09 09  D5040 Lighting Lighting Performance Requirements Sustainable Design Requirements Cighting Levels for Various Areas of Facility See Also: Site Lighting: G2010.70 Parking Lot Lighting: G2020.70. Pedestrian Plaza and Walkway Lighting: G2030.70. Airfield Lighting: G2030.70. Airfield Lighting: G2050. Landscape Lighting: G2080.70.  D5040.10 Lighting Control Devices Lighting Control Devices Lighting Control Devices Lighting Control Panels Contral Dimming Control Modular Dimming Control Network Lighting Control Theatrical Lighting: Control Theatrical Lighting Control Theatrical Lighting Control Theatrical Lighting Control Theatrical Lighting Miring Devices Lighting Control Lighting Control Theatrical Lighting Lighting Control Lighting Li	Cable Trays Vibration and Seismic Controls Identification Wiring Connectors Instrumentation and Control 26 05 53 Wiring Connectors Instrumentation and Control 26 09 00  D5040 Lighting Lighting Performance Requirements Sustainable Design Requirements O1 86 26 Lighting Levels for Various Areas of Facility See Also: Site Lighting: G200.70 Parking Lot Lighting: G2010.70 Parking Lot Lighting: G2020.70. Pedestrian Plaza and Walkway Lighting: G2030.70. Airfield Lighting: G2050. Landscape Lighting: G2080.70. Airfield Lighting: G2080.70. Airfield Lighting: G2080.70. Lighting Control Area Lighting: G2080.70. Lighting Control Devices Lighting Control D5040.20 Branch Wiring for Lighting Lighting Control Theatrical Lighting Control D5040.20 Lighting Control Lighting Lighting Control Lighting L				
Vibration and Seismic Controls dentification 26 05 53 Wring Connectors 26 05 83 Instrumentation and Control 26 05 83 Instrumentation and Control 26 05 00 Instr	Vibration and Seismic Controls Identification Viing Connectors Viing Control Connectors Viing Control Devices Lighting Control Devices Lighting Control Panels Control Panels Control Panels Control Panels Control Panels Control Panels Control Network Lighting Control Viing Contr				
Identification   26 05 53   Writing Connectors   26 09 50	Identification 26 05 53   Wring Connectors 26 05 83   Instrumentation and Control 26 09 00    D5040 Lighting				
Wiring Connectors	Wiring Connectors				
D5040 Lighting  Lighting Performance Requirements Sustainable Design Requirements Lighting Levels for Various Areas of Facility See Also: Site Lighting: G4050. Roadway Lighting: G2010.70 Parking Lot Lighting: G2020.70. Affield Lighting: G2030.70. Affield Lighting: G2030.70. Affield Lighting: G2030.70. Affield Lighting: G2030.70. Affield Lighting: G2080.70. Affield Lighting: G2080.70. Landscape Lighting: G2080.70. Lighting Control Devices Lighting Control Devices Lighting Control Devices Central Dimming Control Network Lighting Control Theatrical Lighting Control Theatrical Lighting Control Theatrical Lighting Control Theatrical Lighting D5040.20  Acable Trays Wiring Wiring Devices Lighting Fixtures Lighting Fixtures Lighting Fixtures Lighting Fixtures Lighting Control Lighting Lighting Control Lighting Control Lighting Lighti	Instrumentation and Control   26 09 00   25 00 00   2				
Lighting Performance Requirements 01 86 26 Sustainable Design Requirements 01 86 26 Lighting Levels for Various Areas of Facility See Also: Site Lighting: G4050. Roadway Lighting: G2010.70 Parking Lot Lighting: G2020.70. Pedestrian Plaza and Walkway Lighting: G2030.70. Airfield Lighting: G2050. Landscape Lighting: G2080. Landscape Lighting: G2080. Landscape Lighting: G2080. Landscape Lighting: G2080. Lighting Control Devices Lighting Control Panels Central Dimming Control Network Lighting Control Network Lighting Control D5040.20 Branch Wiring for Lighting Raceways and Enclosures Cable Trays Wiring Wiring Wiring Wiring Wiring Wiring Wiring Lighting Fixtures  Includes: Clock and calendar, photoelectric switches, occupancy sensors, and light-leveling control devices.  Includes: Clock and calendar, photoelectric switches, occupancy sensors, and light-leveling control devices.  Includes: Raceways end calendar, photoelectric switches, occupancy sensors, and light-leveling control devices.  Includes: Raceways, ducts, cable trays, and wiring beyond branch circuit panelboards to lighting fixtures.  Raceways and Enclosures Cable Trays Wiring Wiring Wiring Lighting Fixtures  Includes: Luminaries, lighting equipment, ballasts, and accessories. Includes fluorescent, high intensity discharge, incandescent, mercury vapor, neon, and sodium vapor lighting.	as appropriate.  Lighting Performance Requirements 01 86 26 Sustainable Design Requirement sustainable Design Regularity discharge, incandescent, metabolic Design Regularity discharge sustainable Desig		_		
Sustainable Design Requirements 01 86 26 Lighting Levels for Various Areas of Facility See Also: Site Lighting: G4050. Roadway Lighting: G2010.70 Parking Lot Lighting: G2020.70. Pedestrian Plaza and Walkway Lighting: G2030.70. Artifield Lighting: G2040.70. Athletic, Recreation, and Playfield Area Lighting: G2050. Landscape Lighting: G2080.70.  D5040.10 Lighting Control Devices 26 09 23 Lighting Control Devices 26 09 33 Modular Dimming Control 26 09 33 Modular Dimming Control 26 09 33 Metwork Lighting Control 26 09 43 Theatrical Lighting Control 26 09 43 Theatrical Lighting Control 26 09 43 Theatrical Lighting Control 26 09 43 Douts 26 09 43 Cable Trays 26 05 43 Cable Trays 26 05 36 Wiring Wiring 26 05 19 Wiring Devices 26 50 00 Lighting Fixtures 1cludes: Luminaries, lighting equipment, ballasts, and accessories. Includes fluorescent, high intensity discharge, incandescent, mercury vapor, neon, and sodium vapor lighting.	Sustainable Design Requirements Lighting Levels for Various Areas of Facility See Also: Site Lighting: G4050. Roadway Lighting: G2020.70. Parking Lot Lighting: G2020.70. Pedestrian Plaza and Walkway Lighting: G2030.70. Airfield Lighting: G2040.70. Airfield Lighting: G2050. Landscape Lighting: G2080.70.  D5040.10 Lighting Control Devices Lighting Control Devices Lighting Control Panels Central Dimming Control D5040.20 Branch Wiring for Lighting  Raceways and Enclosures Ducts Cable Trays Wiring Wiring Divices D5040.50 Lighting Fixtures  D1040.50 Lighting Fixtures  Sustainable Design Requirements O1 86 26 O1 86	D5040	Lighting		
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	Emergency Lighting 26 52 00 Exit Signs 26 53 00	D5040.50			ballasts, and accessories. Includes fluorescent, high intensity discharge, incandescent, mercury
	Emergency Lighting 26 52 00 Exit Signs 26 53 00		Interior Lighting	26 51 00	
			Emergency Lighting		
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Classified Location Lighting 26 54 00	Classified Location Lighting 26 54 00		Classified Location Lighting	26 54 00	

Number	Титье	MF Number	EXPLANATION
NUMBER			EAPLANATION
	Special Purpose Lighting	26 55 00	
	Outline Lighting	26 55 23	
	Underwater Lighting	26 55 29	
	Hazard Warning Lighting	26 55 33	
	Obstruction Lighting	26 55 36	
	Helipad Lighting	26 55 39	
	Security Lighting	26 55 53	
	Display Lighting	26 55 59	
	Theatrical Lighting	26 55 61	
	Detention Lighting	26 55 63	
	Healthcare Lighting	26 55 70	
	See Also:		
	Integrated Ceiling Assemblies: C1070.70.		
D5040.90	Lighting Supplementary Components		Includes: Grounding and bonding, hanger and
			supports, raceways and boxes, cable trays,
			vibration and seismic controls, identification,
			wiring connectors, and instrumentation and
			control to be included in lighting system
			elements above as appropriate.
	Electrical Metal Supports	05 45 16	
	Common Work Results for Electrical	26 05 00	
	Grounding and Bonding	26 05 26	
	Hangers and Supports	26 05 29	
	Raceways and Boxes	26 05 33	
	Cable Trays	26 05 36	
	Vibration and Seismic Controls	26 05 48	
	Identification	26 05 53	
	Wiring Connectors	26 05 83	
	Instrumentation and Control	26 09 00	
D5080	Miscellaneous Electrical Systems		Includes: Miscellaneous Electrical Systems Supplementary Components as appropriate.
D5080.10	Lightning Protection	26 41 00	Includes: Wiring and equipment for lightning protection.
	Lightning Protection Performance Requirements	01 86 26	
	Lightning Protection for Structures	26 41 13	
	Lightning Protection and Dissipation	26 41 16	
	Early Streamer Emission Lightning Protection	26 41 19	
	Lightning Protection Surge Arresters and Suppressors	26 41 23	
	See Also:		
	Site Lightning Protection: G4010.70.		
D5080 40	Cathodic Protection	26 42 00	Includes: Equipment and controls for cathodic
D3000.40	Cathodic Flotection	20 42 00	protection of structures and underground metal construction and piping.
	Cathodic Protection Performance Requirements	01 86 26	1. 1. 2. 2. 2. 2. 2. 1. 1. 1. 1. 2.
	Passive Cathodic Protection for Underground	26 42 13	
	and Submerged Piping	_0 12 10	
	Passive Cathodic Protection for Underground	26 42 16	
	Storage Tanks	_0 10	
D5080 70	Transient Voltage Suppression	26 43 00	Includes: Devices to protect against voltage
20000.70	Transient Voltage Cuppiossion	20 10 00	surges on electrical distribution systems.

			D SERVICES
Number	Тітье	MF Number	EXPLANATION
D5080.90	Miscellaneous Electrical Systems Supplementary Components		Includes: Grounding and bonding, hanger and supports, raceways and boxes, cable trays, vibration and seismic controls, identification, wiring connectors, and instrumentation and control to be included in miscellaneous electrical system elements above as appropriate.
	Common Work Results for Electrical	26 05 00	
	Grounding and Bonding	26 05 26	
	Hangers and Supports	26 05 29	
	Raceways and Boxes	26 05 33	
	Cable Trays	26 05 36	
	Vibration and Seismic Controls	26 05 48	
	Identification	26 05 53	
	Wiring Connectors	26 05 83	
	Instrumentation and Control	26 09 00	
D60	COMMUNICATIONS	27 00 00	
	Communications Performance Requirements See Also:	01 86 29	
	Site Communications Systems: G5010.		
D6010	Data Communications	27 20 00	Includes: Communications Supplementary Components as appropriate.
	Data Communication Performance Requirements	01 86 29	
D6010.10	Data Communications Network Equipment	27 21 00	Includes: Switching and routing equipment for data communications.
	Data Communications Firewalls	27 21 13	
	Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems	27 21 16	
	Data Communications Network Management	27 21 26	
	Data Communications Switches and Hubs	27 21 29	
	Data Communications Wireless Access Points	27 21 33	
D6010.20		27 22 00	Includes: Computer equipment for data communications.
	Data Communications Mainframes	27 22 13	
	Data Communications Storage and Backup	27 22 16	
	Data Communications Servers	27 22 19	
	Data Communications Desktops	27 22 23	
	Data Communications Laptops	27 22 26	
D6010 30	Data Communications Handhelds  Data Communications Peripheral Data Equipment	27 22 29 27 24 00	Includes: Additional equipment for data
D0010.30	Data Communications Feripheral Data Equipment	27 24 00	Includes: Additional equipment for data communications.
	Printers	27 24 13	
	Scanners	27 24 16	
	External Devices	27 24 19	
	Audio-Video Devices	27 24 23	
	Virtual Reality Equipment	27 24 26	
	Disaster Recovery Equipment	27 24 29	
D6010.50	Data Communications Software	27 25 00	Includes: Software for data communications.
	Virus Protection Software	27 25 13	
	Application Suites	27 25 16	
	Email Software	27 25 19	
	Graphics/Multimedia Software	27 25 23	
	Customer Relationship Management Software Operating System Software	27 25 26 27 25 29	
	Database Software	27 25 29	
	Database Contrare	2. 20 00	

Number	Тпте	MF NUMBER	EXPLANATION
. TOMBEN			
	Virtual Private Network Software	27 25 37	
D6040.60	Internet Conferencing Software	27 25 39	Includes: Custom programming and integration
09.01.090	Data Communication Program and Integration Services	27 26 00	Includes: Custom programming and integration requirements.
	Web Development	27 26 13	
	Database Development	27 26 16	
	Application Development	27 26 19	
	Network Integration Requirements	27 26 23	
	Data Communications Integration Requirements	27 26 26	
D6020	Voice Communications	27 30 00	Includes: Communications Supplementary
			Components as appropriate.
	Voice Communication Performance	01 86 29	
	Requirements		
D6020.10	Voice Communications Switching and Routing	27 31 00	Includes: Switching and routing equipment for
	Equipment		voice communications.
	PDX/Key Systems	27 31 13	
	Internet Protocol Voice Switches	27 31 13	
D6020 20	Voice Communications Terminal Equipment	27 32 00	Includes: Telephones and other equipment
20020.20	VOIDO COMMUNICATION DE L'AMPINETE	21 02 00	associated with use of telephone lines.
	Telephone Sets	27 32 13	accessated that doe of tolophone into.
	Wireless Transceivers	27 32 13	
	Elevator Telephones	27 32 10	
	Ring-Down Emergency Telephones	27 32 25	
	Facsimiles and Modems	27 32 20	
	TTY equipment	27 32 29	
	Radio Communications Equipment	27 32 30	
	See Also:	27 32 43	
D0000 00	Telephone Specialties: C1090.20.	27 22 00	Includes Maine mail for compare and other
D6020.30	Voice Communications Messaging	27 33 00	Includes: Voice mail, fax servers and other automated response systems.
	Voice Mail and Auto Attendant	27 33 16	
	Interactive Voice Response	27 33 23	
	Facsimile Servers	27 33 26	
D6020.40	Call Accounting	27 34 00	Includes: Hardware and software that facilitates call accounting.
	Toll Fraud Equipment and Software	27 34 13	-
	Telemanagement Software	27 34 16	
D6020.50	Call Management	27 35 00	Includes: Call center equipment and systems.
	Digital Voice Announcers	27 35 13	
	Automatic Call Distributors	27 35 16	
	Call Status and Management Displays	27 35 19	
	Dedicated 911 Systems	27 35 23	
D6030	Audio-Video Communication	27 40 00	Includes: Communications Supplementary
	Audio Video Communication 5 (	04.00.00	Components as appropriate.
	Audio-Video Communication Performance	01 86 29	
	Requirements		
D6030.10	Audio-Video Systems	27 41 00	Includes: Stand alone and integrated audio- video systems and equipment that generally support a single room or space in a facility with many components that function as one system.
	Architecturally Integrated Audio-Video Equipmen	t 27 41 13	•
	Integrated Audio-Video Systems and Equipment		
	Portable Audio-Video Equipment	27 41 10	
	Audio-Video Accessories	27 41 19	
		27 41 23	
	Master Antenna Television Systems		
	Audio-Video Conferencing	27 41 43	

Number	Тіть	MF Number	EXPLANATION
D6030.50	Electronic Digital Systems	27 42 00	Includes: Hardware, software, and equipment for digital signage systems.
	Point of Sale Systems	27 42 13	
	Transportation Information Display Systems	27 42 16	
	Public Information Systems	27 42 19	
D6060	Distributed Communications and Monitoring	27 50 00	Includes: Communications Supplementary Components as appropriate.
	Distributed Communications and Monitoring Performance Requirements	01 86 29	
D6060.10	Distributed Audio-Video Communications Systems	27 51 00	Includes: Paging, public address, sound masking, and intercommunication systems what service all or part of a facility.
	Paging Systems	27 51 13	
	Public Address and Mass Notification Systems	27 51 16	
	Sound Masking Systems	27 51 19	
	Intercommunications and Program Systems	27 51 23	
	Assistive Listening Systems	27 51 26	
D6060.30	Healthcare Communications and Monitoring	27 52 00	Includes: Communications and monitoring systems for healthcare applications.
	Patient Monitoring and Telemetry Systems	27 52 13	
	Telemedicine Systems	27 52 16	
	Healthcare Imaging Systems	27 52 19	
	Nurse Call/Code Blue Systems	27 52 23	
	See Also:		
	Healthcare Equipment: E1040.20. Healthcare Special Procedures: Z1020.70.		
D6060.50	Distributed Systems	27 53 00	Includes: Clocks, interior antenna systems, and tracking systems.
	Clock Systems	27 53 13	
	Infrared and Radio Frequency Tracking Systems	27 53 16	
D6090	Internal Cellular, Paging, and Antenna Systems  Communications Supplementary Components	27 53 19	
D6090.10	Supplementary Components		Includes: Grounding and bonding, pathways, hanger and supports, conduits and back boxes, cable trays, utility poles, vibration and seismic controls, and identification, to be included in communications system elements above as appropriate.
	Communications Metal Supports	05 45 19	
	Common Work Results for Communications	27 05 00	
	Grounding and Bonding	27 05 26	
	Pathways	27 05 28	
	Hangers and Supports	27 05 29	
	Conduits and Back Boxes	27 05 33	
	Cable Trays	27 05 36	
	Utility Poles	27 05 46	
	Vibration and Seismic Controls	27 05 48	
	Identification	27 05 53	

NUMBER	Тпше	MF Number	EXPLANATION
D70	ELECTRONIC SAFETY AND SECURITY	28 00 00	
	Electronic Safety and Security Performance Requirements	01 86 33	
	See Also:		
	Exterior Security Windows: B2020.50,		
	Exterior Security Doors: B2050.40. Exterior Security Gates: B2050.70. Interior Security Windows: C1020.50.		
	Interior Security Doors: C1030.70. Interior Security Gates: C1040.50. Security Ceiling Systems:		
	C1070.70.  Security Mirrors and Domes:		
	C1090.90.		
	Security Plumbing Fixtures: D2010.60. Security Lighting: D5040.50.		
	Interior Pedestrian Security Equipment: E1010.70.		
	Security Equipment: E1040.60. Exterior Pedestrian Security		
	Equipment: G2030.80.		
	Security Procedures: Z1020.70. Temporary Security Barriers & Enclosures: Z1050.40.		
	Starting and Adjusting: Z1070.40.  Demonstration and Training: Z1070.80.		
D7010	Access Control and Intrusion Detection	28 10 00	Includes: Electronic Safety and Security Supplementary Components as appropriate.
	Access Control and Intrusion Detection Performance Requirements	01 86 33	
D7010.10	Access Control	28 13 00	Includes: Control and monitoring equipment and systems for controlling access to a facility.
	Access Control Hardware	08 74 00	
	Access Control Global Applications	28 13 13	
	Access Control Systems and Database Management	28 13 16	
	Access Control Systems Infrastructure	28 13 19	
	Access Control Remote Devices	28 13 26	
	Access Control Interfaces	28 13 33	
	Access Control Identification Management Systems	28 13 43	
	Security Access Detection	28 13 53 28 13 63	
D7010.50	Access Control Vehicle Identification System Intrusion Detection	28 16 00	Includes: Hardware, software, and equipment for burglary systems and perimeter protection systems.
	Intrusion Detection Control, GUI and Logic Systems	28 16 13	•
	Intrusion Detection Systems Infrastructure	28 16 16	

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NUMBER	Тпе	MF NUMBER	EXPLANATION
	Intrusion Detection Remote Devices and Sensors	28 16 19	
	Intrusion Detection Interfaces	28 16 33	
	Perimeter Security Systems	28 16 43	
D7030	Electronic Surveillance	28 20 00	Includes: Equipment for detecting and
		_0 _0 0	controlling access by persons to a facility site, building, or within a building. Includes Electronic Safety and Security Supplementary Components as appropriate.
	Electronic Surveillance Performance	01 86 33	
	Requirements		
D7030.10	Video Surveillance	28 23 00	Includes: Closed circuit television equipment and systems including cameras and recording equipment.
	Video Surveillance Control and Management Systems	28 23 13	
	Video Surveillance Monitoring and Supervisory Interfaces	28 23 16	
	Digital Video Recorders and Analog Recording Devices	28 23 19	
	Video Surveillance Systems Infrastructure	28 23 23	
	Video Surveillance Remote Positioning Equipment	28 23 26	
	Video Surveillance Remote Devices and Sensors	28 23 29	
D7030.50	Electronic Personal Protection	28 26 00	Includes: Systems and equipment that monitor and annunciate the need for assistance.
	Electronic Personal Safety Detection Systems	28 26 13	
	Electronic Personal Safety Alarm Annunciation and Control Systems	28 26 16	
	Electronic Personal Safety Interfaces to Remote Monitoring	28 26 19	
	Electronic Personal Safety Emergency Aid Devices	28 26 23	
D7050	Detection and Alarm	28 30 00	Includes: Equipment for detecting hazardous conditions in a building or on a facility site and communicating an alarm signal. Includes alarm devices, detection devices, safety switches, and associated items. Includes Electronic Safety and Security Supplementary Components as appropriate.
	Detection and Alarm Performance Requirements See Also: Fire Protection Systems: D4010. Integrated Automation Systems: D8010.	01 86 33	
D7050.10	Fire Detection and Alarm	28 31 00	Includes: Monitoring and recording of fire protection devices and fire suppression systems; audio and/or visual warning systems for inhabitants of structures and for fire fighting authorities; activation of elevators and air handling systems to a predetermine fire mode; and other fire protection functions.

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Windows: B2020.50. Exterior Radiation Shielding Doors: B2050.40. Interior Radiation Shielding Windows: C1020.50. Interior Radiation Shielding Doors: C1030.70. Radiation Protection: F1030.50.  D7050.30 Fuel-Gas Detection and Alarm  Performance Requirements Fuel-Gas Detection and Alarm Control, GUI and Logic Systems Fuel-Gas Detection and Alarm Integrated Audio Evacuation Systems Fuel-Gas Detection Sensors See Also: Site Gas Distribution: G3060.10.  D7050.40 Fuel-Oil Detection and Alarm Performance Requirements Fuel-Oil Detection and Alarm Control, GUI and Requirements Fuel-Oil Detectio			28 32 43	
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Windows: C1020.50. Interior Radiation Shielding Doors: C1030.70. Radiation Protection: F1030.50.  D7050.30 Fuel-Gas Detection and Alarm  Fuel-Gas Detection and Alarm Performance Requirements Fuel-Gas Detection and Alarm Control, GUI and Logic Systems Fuel-Gas Detection and Alarm Integrated Audio Evacuation Systems Fuel-Gas Detection Sensors Fuel-Gas Detection Sensors Site Gas Distribution: G3060.10.  D7050.40 Fuel-Oil Detection and Alarm  Performance Professional Alarm Performance Site Gas Distribution: G3060.10.  D7050.40 Fuel-Oil Detection and Alarm Performance Requirements Fuel-Oil Detection and Alarm Performance Requirements Fuel-Oil Detection and Alarm Control, GUI and S8 34 13				
C1030.70. Radiation Protection: F1030.50.  D7050.30 Fuel-Gas Detection and Alarm  28 33 00 Includes: Systems and equipment for the detection and notification of fuel gas presence.  Fuel-Gas Detection and Alarm Performance Requirements Fuel-Gas Detection and Alarm Control, GUI and Logic Systems Fuel-Gas Detection and Alarm Integrated Audio Evacuation Systems Fuel-Gas Detection Sensors Fuel-Gas Detection Sensors Site Gas Distribution: G3060.10.  D7050.40 Fuel-Oil Detection and Alarm  28 34 00 Includes: Systems and equipment for the detection and notification of fuel oil presence.  Fuel-Oil Detection and Alarm Performance Requirements Fuel-Oil Detection and Alarm Control, GUI and Requirements				
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See Also: Site Gas Distribution: G3060.10.  D7050.40 Fuel-Oil Detection and Alarm  28 34 00 Includes: Systems and equipment for the detection and notification of fuel oil presence.  Fuel-Oil Detection and Alarm Performance Requirements Fuel-Oil Detection and Alarm Control, GUI and 28 34 13		<del>-</del>	28 33 23	
D7050.40 Fuel-Oil Detection and Alarm  28 34 00 Includes: Systems and equipment for the detection and notification of fuel oil presence.  Fuel-Oil Detection and Alarm Performance Requirements Fuel-Oil Detection and Alarm Control, GUI and 28 34 13			28 33 33	
detection and notification of fuel oil presence.  Fuel-Oil Detection and Alarm Performance 01 86 33  Requirements  Fuel-Oil Detection and Alarm Control, GUI and 28 34 13		Site Gas Distribution: G3060.10.		
Requirements Fuel-Oil Detection and Alarm Control, GUI and 28 34 13	D7050.40	Fuel-Oil Detection and Alarm	28 34 00	
			01 86 33	
			28 34 13	

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NUMBER	Тітье	MF NUMBER	EXPLANATION
	Fuel-Oil Detection and Alarm Integrated Audio Evacuation Systems	28 34 23	
	Fuel-Oil Detection Sensors  See Also:	28 34 33	
	Site Fuel-Oil Distribution: G3060.20.		
D7050.50	Refrigeration Detection and Alarm	28 35 00	Includes: Systems and equipment for the detection and notification of refrigerant presence.
	Refrigeration Detection and Alarm Performance Requirements	01 86 33	
	Refrigeration Detection and Alarm Control, GUI and Logic Systems	28 35 13	
	Refrigeration Detection and Alarm Integrated Audio Evacuation Systems	28 35 23	
	Refrigeration Detection Sensors See Also:	28 35 33	
<b>D</b> =0=0 00	Cooling Systems: D3030.		
D7050.60	Water Intrusion Detection and Alarm	28 36 00	Includes: Systems and equipment for the detection and notification of water presence.
	Water Intrusion Detection and Alarm Performance Requirements	01 86 33	
	Water Detection and Alarm Control, GUI and Logic Systems	28 36 13	
D7070	Water Detection Sensors	28 36 33	Included Fleetrenic Cafety and Coought
D7070	Electronic Monitoring and Control	28 46 00	Includes: Electronic Safety and Security Supplementary Components as appropriate.
	Electronic Monitoring and Control Performance Requirements	01 86 33	
D7070.10	Electronic Detention Monitoring and Control	23 46 00	Includes: Electronic equipment and systems for detention applications.
	Hard-Wired Detention Monitoring and Control Systems	28 46 13	
	Relay-Logic Detention Monitoring and Control Systems	28 46 16	
	PLC Electronic Detention Monitoring and Control Systems	28 46 19	
	Computer-Based Detention Monitoring and Control Systems	28 46 23	
	Discreet-Logic Detention Monitoring and Control Systems		
	Discreet-Distributed Intelligence Detention Monitoring and Control Systems	28 46 29	
	See Also: Exterior Detention Windows: B2020.50.		
	Exterior Detention Doors: B2050.40.		
	Interior Detention Windows: C1020.50.		
	Interior Detention Doors: C1030.70.		
	Detention Equipment: E1040.70.		
	Detention Furniture: E2050.30.		
	Detention Cell Modules: F1010.10.		
	Metal Detention Enclosures: F1010.50.		
	Detention Project Procedures:		
	Z1020.70.		

Number	TITLE	MF NUMBER	EXPLANATION
D7090	Electronic Safety and Security Supplementary		
D7090.10	Components Supplementary Components		Includes: Conductors and cables, grounding and bonding, pathways, vibration and seismic controls, and identification, to be included in electronic safety and security system elements above as appropriate.
	Common Work Results for Electronic Safety and Security	28 05 00	
	Conductors and Cables	28 05 13	
	Grounding and Bonding	28 05 26	
	Pathways	28 05 28	
	Vibration and Seismic Controls	28 05 48	
	Identification	28 05 53	
D80	INTEGRATED AUTOMATION	25 00 00	
	Integrated Automation Performance Requirements	01 86 23	
	See Also: Starting and Adjusting: Z1070.40. Demonstration and Training: Z1070.80.		
D8010	Integrated Automation Facility Controls	25 50 00	Includes: Hardware and/or software that allows the building automation system to monitor and control other facility equipment and systems. Includes Integrated Automation Supplementary Components as appropriate.
	Integrated Automation Facility Controls Performance Requirements	01 86 23	
D8010.10	Integrated Automation Control of Equipment	25 51 00	
D8010.20	Integrated Automation Control of Conveying Equipment	25 52 00	
D8010.30	Integrated Automation Control of Fire-Suppression Systems	25 53 00	
D8010.40	Integrated Automation Control of Plumbing Systems	25 54 00	
D8010.50	Integrated Automation Control of HVAC Systems	25 55 00	
	Integrated Automation Control of Electrical Systems	25 56 00	
D8010.70	Integrated Automation Control of Communication Systems	25 57 00	
D8010.80	Integrated Automation Control of Electronic Safety and Security Systems	25 58 00	
D8010.90	Integrated Automation Supplementary Components		Includes: Conductors and cables, grounding and bonding, pathways, vibration and seismic controls, and identification, to be included in integrated automation system elements above as appropriate.
	Common Work Results for Integrated Automation	25 05 00	
	Conductors and Cables	25 05 13	
	Grounding and Bonding	25 05 26	
	Pathways	25 05 28	
	Vibration and Seismic Controls	25 05 48	
	Identification	25 05 53	

# **E EQUIPMENT AND FURNISHINGS**

Equipment and Furnishings Performance Requirements

01 87 00

Number	TITLE	MF NUMBER	EXPLANATION
E10	EQUIPMENT  Equipment Performance Requirements  See Also:  Starting and Adjusting: Z1070.40.  Demonstration and Training:  Z1070.80.	11 00 00 01 87 13	
<b>E1010</b> E1010.10	Vehicle and Pedestrian Equipment Vehicle Servicing Equipment  Vehicle Lubrication Equipment	11 10 00 11 11 00 11 11 19	Includes: Equipment associated with vehicle service facilities.
	Tire-Changing Equipment Vehicle Washing Equipment See Also: Vehicle Lifts: D1010.20. Vehicle Turntables: D1030.30.	11 11 23 11 11 26	
E1010.30	Interior Parking Control Equipment  Interior Parking Key and Card Control Units Interior Parking Ticket Dispensers Interior Parking Meters Interior Parking Fee Collection Equipment Interior Parking Gates See Also: Exterior Parking Control Equipment: G2020.80.	11 12 00 11 12 13 11 12 16 11 12 23 11 12 26 11 12 33	Includes: Equipment associated with the control of movement of vehicle parking.
E1010.50	Loading Dock Equipment  Loading Dock Bumpers Loading Dock Seals and Shelters Loading Dock Levelers Loading Dock Lifts Loading Dock Lifts See Also: Vehicle Lifts: D1010.20.	11 13 00 11 13 13 11 13 16 11 13 19.13 11 13 19.23 11 13 26	Includes: Equipment for the protection of service docks and for the loading and unloading of service vehicles.
E1010.70	Interior Pedestrian Control Equipment  Interior Pedestrian Gates Interior Money-Changing Equipment Interior Pedestrian Fare Collection Equipment Interior Pedestrian Detection Equipment Interior Pedestrian Security Equipment See Also: Interior Security Windows: C1020.50. Interior Security Doors: C1030.70. Interior Security Gates: C1040.50. Security Mirrors and Domes: C1090.90.	11 14 00 11 14 13 11 14 16 11 14 26 11 14 43 11 14 53	Includes: Equipment associated with the control of movement of pedestrians.

	ENT AND FURNISHINGS	ME Number	EVEL AMATION
NUMBER	TITLE	MF NUMBER	EXPLANATION
	Electronic Safety and Security: D70. Security Equipment: E1040.60. Exterior Pedestrian Security Equipment: G2030.80.		
	Security Procedures: Z1020.70. Temporary Security Barriers & Enclosures: Z1050.40.		
E1030	Commercial Equipment	11 20 00	
E1030.10	Mercantile and Service Equipment	11 21 00	Includes: Equipment used in retail and service stores.
	Cash Registers and Checking Equipment	11 21 13	
	Vending Equipment	11 21 23	
	Checkroom Equipment	11 21 33	
	Weighing and Wrapping Equipment	11 21 43	
	Barber and Beauty Shop Equipment	11 21 53	
E1030.20	Vault Equipment	11 16 00	Includes: Equipment specifically designed for money or valuable material storage, including vault ventilators and specialized security equipment.
	Safe Deposit Boxes	11 16 13	
	Safes	11 16 16	
	Vault Ventilators	11 16 23	
	See Also:		
	Interior Vault Doors: C1030.70.		
	Vaults: F1010.50.		
E1030.25	Teller and Service Equipment	11 17 00	Includes: Equipment specifically designed for handling and transfer of money and other high-security items.
	Teller Equipment Systems	11 17 13	<b>,</b>
	Automatic Banking Systems	11 17 16	
	Money Handling Equipment	11 17 23	
	Money Cart Pass-Through	11 17 33	
	Package Transfer Units	11 17 36	
E1030.30	Refrigerated Display Equipment	11 22 00	Includes: Display cases that include refrigeration.
	See Also:		3
	Display Cases: C1090.20.		
	Display Turntables: D1030.30.		
	Display Lighting: D5040.50.		
E1030.35	Commercial Laundry and Dry Cleaning Equipment	11 23 00	Includes: Equipment for commercial laundry and dry cleaning operations including coin- operated equipment.
	Dry Cleaning Equipment	11 23 13	
	Drying and Conditioning Equipment	11 23 16	
	Finishing Equipment	11 23 19	
	Commercial Ironing Equipment	11 23 23	
	Commercial Washers and Extractors	11 23 26	
	Coin-Operated Laundry Equipment	11 23 33	
	Hanging Garment Conveyors  See Also:	11 23 43	
	G0071100.		
	Residential Laundry Appliances: E1060.10.		
E1030.40	Residential Laundry Appliances:	11 24 00	Includes: Built-in and free-standing equipment for building maintenance.
E1030.40	Residential Laundry Appliances: E1060.10.	11 24 00 11 24 13	Includes: Built-in and free-standing equipment for building maintenance.
E1030.40	Residential Laundry Appliances: E1060.10. Maintenance Equipment		

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NUMBER	TITLE		MF NUMBER	EXPLANATION
	Window Wa	ashing Systems See Also: Operable Access Systems: D1080.	11 24 23.13	
E1030.50	Hospitality Equ	· ·	11 25 00	Includes: Specialized equipment for the purpose of registering, admitting, and controlling rooms and other information at hotels, motels, hospitals, and other similar facilities.
	Registration	n Equipment	11 25 13	
		See Also: Hospitality Turntables: D1030.30. Hospitality Casework: E2010.30. Hospitality Furniture: E2050.30.		
E1030.55	Unit Kitchens		11 26 00	Includes: Manufactured units incorporating plumbing fixtures, appliances, casework and countertops.
		See Also: Residential Appliances: E1060.10. Residential Casework: E2010.30.		
E1030.60	Photographic P	Processing Equipment	11 27 00	Includes: Photographic film processing equipment and other products for darkroom use.
	Darkroom F	Processing Equipment	11 27 13	
	Film Transf	er Cabinets	11 27 16	
		See Also:		
		Darkroom Doors: C1030.70		
		Laboratory Casework: E2010.30.		
E1030.70	Postal, Packag	ing, and Shipping Equipment	11 29 00	Includes: Equipment for normal mailing, packaging, shipping, and delivery operations for professional, commercial, and institutional applications.
	Packaging		11 29 23	
	Shipping E		11 29 33	
	Postal Equi	ipment	11 29 55	
	Copiers		11 28 23	
		See Also:		
E4000 75	O(f) F :	Postal Specialties: C1070.90.	44.00.00	
E1030.75	Office Equipme	ent	11 28 00	Includes: Computers, printers, copiers, drafting equipment, plotters, carto-stereographs, and other equipment used in offices.
	Computers		11 28 13	
	Printers		11 28 16	
	Facsimile N	Machines	11 28 19	
	Copiers		11 28 23	
		See Also: Pneumatic Tube Systems: D1050.70. Office Furniture: E2050.30. Office Shelters and Booths: F1010.50.		
E1030.80	Foodservice Ed	quipment	11 40 00	Includes: Equipment used for liquid and solid food storage, preparation, display, serving, and clean-up in commercial and institutional kitchens and bars.

## **E** EQUIPMENT AND FURNISHINGS

Number	TITLE	MF Number	EXPLANATION
	Food Storage Equipment	11 41 00	
	Refrigerated Food Storage Cases	11 41 13	
	Walk-In Coolers	11 41 23	
	Walk-In Freezers	11 41 26	
	Food Service Shelving	11 41 33	
	Food Preparation Equipment	11 42 00	
	Food Delivery Carts and Conveyors	11 43 00	
	Food Delivery Carts	11 43 13	
	Food Delivery Conveyors	11 43 16	
	Food Cooking Equipment	11 44 00	
	Commercial Ranges	11 44 13	
	Commercial Ovens	11 44 16	
	Food Dispensing Equipment	11 46 00	
	Bar Equipment	11 46 13	
	Service Line Equipment	11 46 16	
	Soda Fountain Equipment Ice Machines	11 46 19	
		11 47 00	
	Cleaning and Disposal Equipment	11 48 00	
	Commercial Dishwashers	11 48 13	
	See Also:		
	Ventilation Hoods: D3060.30.		
	Disposers: D2010.60.	44.50.00	
E1040	Institutional Equipment	11 50 00	
E1040.10	Educational and Scientific Equipment	11 50 00	Includes: Equipment associated with libraries,
			education facilities, laboratories, planetariums,
			observatories, and museums.
	Library Equipment	11 51 00	
	Automatic Book Storage and Retrieval	11 51 13	
	Systems		
	Book Depositories	11 51 16	
	Book Theft Protection Equipment	11 51 19	
	Library Stack Systems	11 51 23	
	See Also:		
	Library Casework: E2010.30.		
	Library Furniture: E2050.30.		
	Audio-Visual Equipment	11 52 00	
	Projection Screens	11 52 13	
	Projectors	11 52 16	
	Players and Recorders	11 52 19	
	Laboratory Equipment	11 53 00	
	Laboratory Fume Hoods	11 53 13	
	Laboratory Incubators	11 53 16	
	Laboratory Sterilizers	11 53 19	
	Laboratory Refrigerators	11 53 13	
	Emergency Safety Appliances	11 53 23	
	Service Fittings and Accessories	11 53 43	
	Biological Safety Cabinets	11 53 43	
	See Also:	11 00 00	
	Process Support Plumbing Systems:		
	D2060		
	D2060.		
	Special Exhaust: D3060.30.		
	Special Exhaust: D3060.30. Laboratory Casework: E2010.30.		
	Special Exhaust: D3060.30. Laboratory Casework: E2010.30. Laboratory Furniture: E2050.30.		
	Special Exhaust: D3060.30. Laboratory Casework: E2010.30.	11 55 00 11 55 13	

			EQUIPMENT AND FURNISHINGS
Number	TITLE	MF NUMBER	EXPLANATION
	Planetarium Pendulums	11 55 16	
	See Also:		
	Planetariums: F1010.50.		
	Observatory Equipment	11 56 00	
	Telescopes	11 56 13	
	See Also: Observatories: F1020.40.		
	Vocational Shop Equipment	11 57 00	
	Exhibit Equipment	11 59 00	
	See Also:	11 00 00	
	Exhibit Turntables: D1030.30.		
	Arts and Crafts Equipment	11 95 00	
	Kilns	11 95 13	
E1040.20	Healthcare Equipment	11 70 00	Includes: Specialized equipment for healthcare
			facilities for humans and animals. Includes film
			illuminators, fluoroscopes, hubbard tubs,
			radioisotopic equipment, and surgical
			equipment.
	Healthcare Metal Supports	05 45 23	
	Medical Sterilizing Equipment	11 71 00	
	Examination and Treatment Equipment	11 72 00	
	Patient Care Equipment Dental Equipment	11 73 00 11 74 00	
	Optometry Equipment	11 74 00	
	Operating Room Equipment	11 76 00	
	Radiology Equipment	11 77 00	
	Mortuary Equipment	11 78 00	
	Mortuary Refrigerators	11 78 13	
	Crematorium Equipment	11 78 16	
	Mortuary Lifts	11 78 19	
	Therapy Equipment	11 79 00	
	See Also:		
	Healthcare Plumbing Fixtures:		
	D2010.60. Process Support Plumbing Systems:		
	D2060.		
	Healthcare Lighting: D5040.50.		
	Healthcare Communications &		
	Monitoring: D6060.30.		
	Healthcare Casework: E2010.30.		
	Healthcare Furniture: E2050.30.		
	Healthcare Special Procedures:		
	Z1020.70.		
E1040.40	Religious Equipment	11 91 00	Includes: Built-in and free-standing religious
			equipment, including baptistery and chancel
		44.04.40	fittings.
	Baptisteries	11 91 13	
	See Also:		
	Musical Equipment: E1070.20. Fixed Religious Art: E2010.10.		
	Religious Casework: E2010.30.		
	Fixed Pews: E2010.70.		
	Movable Religious Art: E2050.10.		
E1040.60	Security Equipment	11 18 00	Includes: Equipment specifically designed for
			secure operations.
	Security Equipment Performance Requirements		
	Deal Drawers	11 18 13	
	Gun Ports	11 18 16	

Number	TITLE	MF NUMBER	EXPLANATION
	Valuable Material Storage  See Also: Exterior Security Windows: B2020.50. Exterior Security Doors: B2050.40. Exterior Security Gates: B2050.70. Interior Security Windows: C1020.50. Interior Security Doors: C1030.70. Interior Security Gates: C1040.50. Security Ceiling Systems: C1070.70. Security Mirrors and Domes: C1090.90. Security Plumbing Fixtures: D2010.60. Security Lighting: D5040.50. Electronic Safety and Security: D70. Interior Pedestrian Security Equipment: E1010.70. Exterior Pedestrian Security Equipment: G2030.80. Security Procedures: Z1020.70. Temporary Security Barriers & Enclosures: Z1050.40.	11 18 23	
E1040.70	Detention Equipment	11 19 00	Includes: Equipment specifically designed for detention facilities.
	Detention Equipment Performance Requirements Levels of Security Detention Pass-Through Doors Detention Gun Lockers See Also: Exterior Detention Windows: B2020.50. Exterior Detention Doors: B2050.40. Interior Detention Windows: C1020.50. Interior Detention Doors: C1030.70. Detention Lighting: D5040.50. Detention Monitoring and Control: D7070. Detention Furniture: E2050.30. Detention Cell Modules: F1010.10. Metal Detention Enclosures: F1010.50. Detention Project Procedures:	01 87 13 01 87 13 11 19 13 11 19 16	
E1060	Z1020.70.  Residential Equipment  See Also: Fireplaces and Stoves: C1090.50. Residential Furniture: E2050.30.	11 30 00	Includes: Built-in and free-standing appliances and other components specifically for residential use.

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NUMBER	TITLE	MF NUMBER	EXPLANATION
E1060.10	Residential Appliances Residential Kitchen Appliances Residential Laundry Appliances See Also: Unit Kitchens: E1030.55.	11 31 00 11 31 13 11 31 23	
E4060 F0	Residential Casework: E2010.30.	11 22 00	
	Retractable Stairs Residential Ceiling Fans	11 33 00 11 34 00	
E1070	Entertainment and Recreational Equipment	110400	Includes: Equipment for use in athletic, recreational, and therapeutic activities.
E1070.10	Theater and Stage Equipment	11 61 00	Includes: Equipment for support of theatrical, instrumental, and voice programs. Includes cycloramas, entertainment ticket dispensers, scenery and flats, and tormentors.
	Acoustical Shells	11 61 13	
	Folding and Portable Stages	11 61 23	
	Rigging Systems and Controls	11 61 33	
	Stage Curtains	11 61 43	
	Stage Cultains  See Also: Platform/Stage Floors: C1060.30. Stage and Orchestra Lifts: D1010.20. Stage Turntables: D1030.30. Theatrical Lighting Control: D5040.10. Voice Communication Systems: D6020.	11 01 43	
	Fixed Multiple Seating: E2010.70.		
E1070.20	Musical Equipment	11 62 00	Includes: Musical instruments, including prefabricated and field assembled instruments.
	Bells	11 62 13	
	Carillons	11 62 16	
	Organs	11 62 19	
E1070.50	Athletic Equipment	11 66 00	Includes: Equipment for use in interior athletic and exercise activities.
	Exercise Equipment	11 66 13	
	Gymnasium Equipment	11 66 23	
	Interior Scoreboards	11 66 43	
	Gymnasium Dividers	11 66 53	
	See Also: Interior Operable Partitions: C1010.50. Athletic Flooring: C2030.80. Gymnasium Dividers: E1070.50. Athletic Rooms: F1010.50. Athletic & Recreational Special Construction: F1060. Athletic Areas: G2050.10.		
E1070.60	Recreational Equipment	11 67 00	Includes: Equipment for use in recreational activities. Includes curling rinks and pistol and rifle range equipment.
	Bowling Alley Equipment	11 67 13	-
	Shooting Range Equipment	11 67 23	
	Climbing Walls	11 67 33	
	Table Games Equipment	11 67 43	

#### **E** EQUIPMENT AND FURNISHINGS

<b>∟</b> ⊑QUIPM	ENT AND FURNISHINGS		
Number	TITLE	MF NUMBER	EXPLANATION
	Game Room Equipment See Also: Swimming Pools: F1050.10. Athletic & Recreational Special Construction: F1060. Recreational Areas: G2050.30.	11 67 53	
<b>E1090</b> E1090.10	Other Equipment Solid Waste Handling Equipment	11 90 00 11 82 00	Includes: Equipment involving the collection, shredding, compaction, removal and incineration of trash and other solid waste.
	Solid Waste Handling Equipment Performance Requirements	01 87 13	
	Solid Waste Bins	11 82 13	
	Incinerators	11 82 19	
	Recycling Equipment	11 82 23	
	Waste Compactors and Destructors	11 82 26	
	Composting Equipment	11 82 29	
	Facility Waste Shredders	11 82 33	
	Facility Waste Balers See Also:	11 82 36	
E1090.30	Trash Chutes: D1050.60. Agricultural Equipment	11 92 00	Includes: Equipment related to land cultivating, raising crops, and feeding, breeding, and
	Milkers	11 02 12	raising of livestock.
	Stock Feeders	11 92 13	
		11 92 16	
	Stock Waterers Agricultural Waste Clean-Up Equipment See Also:	11 92 19 11 92 23	
	Kennels and Animal Shelters: F1050.70.		
E1090.40	Horticultural Equipment	11 93 00	Includes: Equipment related to cultivating flowers, fruits, vegetables, or ornamental plants
	Hydroponic Growing Systems	11 93 13	
	Seeders	11 93 16	
	Transplanters	11 93 19	
	Potting Machines	11 93 23	
	Flat Fillers	11 93 26	
	Baggers	11 93 29	
	Soil Mixers	11 93 33	
	Agricultural Irrigation See Also:	32 86 00	
	Planting Irrigation: G2080.10.		
E1090.60	Decontamination Equipment		Includes: Equipment associated with decontamination operations.
	See Also: Hazardous Materials Remediation: F2010.		
	Site Remediation: G1050.		
E20	FURNISHINGS	12 00 00	
	Furnishings Performance Requirements	01 87 16	
E2010	Fixed Furnishings		
E2010.10		12 10 00	Includes: Interior and exterior fixed art objects.
	Murals	12 11 00	,
	Fixed Wall Decorations	12 12 00	
	Paintings	12 12 00	
	Tapestries	12 12 23	
	- F		

Number	Тпте	MF NUMBER	EXPLANATION
	Wall Hangings Fixed Sculptures Art Glass Fixed Religious Art	12 12 26 12 14 00 12 17 00 12 19 00	
	See Also: Religious Equipment: E1040.40. Religious Casework: E2010.30. Fixed Pews: E2010.70. Movable Religious Art: E2050.10.	12 19 00	
	Suspended Decorative Elements  See Also:  Moveable Art: E2050.10.		
E2010.20	Window Treatments	12 20 00	Includes: Interior window coverings and associated hardware and controls.
	Window Blinds	12 21 00	
	Curtains and Drapes	12 22 00	
	Interior Shutters	12 23 00	
	Window Shades	12 24 00	
	Window Treatment Operating Hardware See Also: Windows with Integral Blinds:	12 25 00	
	B2020.		
	Exterior Protection Devices for Openings: B2080.30.		
E2010.30	Casework	12 30 00	Includes: Custom and manufactured stock design steel, wood, and laminate faced cabinets and other casework units. Includes countertops with integral sinks, fixtures and accessories.
	Specialty Casework	12 35 00	
	Bank Casework	12 35 17	
	Hospitality Casework	12 35 25	
	See Also:		
	Hospitality Turntables: D1030.30.		
	Hospitality Equipment: E1030.50.		
	Hospitality Furniture: E2050.30.		
	Residential Casework	12 35 30	
	See Also:		
	Unit Kitchens: E1030.55.		
	Residential Appliances: E1060.10.		
	Utility Room Casework	12 35 33	
	Educational/Library Casework	12 35 50	
	See Also:		
	Library Equipment: E1040.10.		
	Library Furniture: E2050.30.		
	Laboratory Casework	12 35 53	
	See Also:		
	Process Support Plumbing Systems: D2060.		
	Laboratory Equipment: E1040.10. Laboratory Furniture: E2050.30.		
	Display Casework	12 35 59	

Number	TITLE		MF NUMBER	EXPLANATION
	Healthcare	Casework	12 35 70	
	rioditriodro	See Also:	12 00 70	
		Healthcare Plumbing Fixtures:		
		D2010.60.		
		Process Support Plumbing Systems:		
		D2060.		
		Healthcare Communications &		
		Monitoring: D6060.30.		
		Healthcare Equipment: E1040.20.  Healthcare Furniture: E2050.30.		
		Healthcare Special Procedures:		
		Z1020.70.		
	Religious C	Casework	12 35 91	
		See Also:		
		Religious Equipment: E1040.40.		
		Fixed Religious Art: E2010.10.		
		Fixed Pews: E2010.70.		
	Reception (	Movable Religious Art: E2050.10.		
	Countertops	Odsework	12 36 00	
		See Also:	00 00	
		Lockers: C1090.70.		
		Storage Specialties: C1090.70.		
		Mercantile and Service Equipment:		
E0040 70	E: 184 k: 1 /	E1030.10.	10.00.00	
E2010.70	Fixed Multiple S	Seating	12 60 00	Includes: Fixed, and telescoping seating for theaters, auditoriums, lecture halls, stadiums,
				arenas, gymnasiums, religious buildings,
				restaurants, and other facilities where multiple
				seating is required.
		ng Area Seating		
		ence Seating	12 61 00	
	Stadium an Bleach	nd Arena Seating	12 63 00 13 34 16.53	
		ers hs and Tables	12 64 00	
		e Fixed Seating	12 65 00	
	Telescopin		12 66 00	
	Fixed Pews	s and Benches	12 67 00	
		and Table Assemblies	12 68 00	
	Lecture	e Hall Seating		
		See Also:		
		Moveable Multiple Seating: E2050.60.		
		Exterior Grandstands and		
		Bleachers: F1020.40.		
E2010.90	Other Fixed Fu	rnishings	12 90 00	
	Fixed Interi	or Planters and		
	Artificial Pla	ants	12 92 00	Includes: Fixed artificial plants, planters, and accessories.
	Fixed I	nterior Artificial Plants	12 92 13	
		nterior Planters	12 92 33	
	Interior	Landscaping Accessories	12 92 43	
		See Also:		
		Movable Interior Planters and Artificial Plant: E2050.90.		
		, annotal Flant. L2000.30.		

			■ EQUIPMENT AND FURNISHINGS
Number	TITLE	MF NUMBER	EXPLANATION
E2050	Movable Furnishings		Includes: Items of moveable furniture and furnishing accessories. Includes furniture for a variety of uses including classroom, dormitory, ecclesiastical, hotel and motel, laboratory, library, lounge, medical, office, restaurant, and residential.
	See Also: Interior Demountable Partitions: C1010. Storage Assemblies: C1090. Library Casework: E2010.30.		
E2050.10	Movable Art	12 10 00	Includes: Interior and exterior moveable art
			objects such as paintings, and sculpture.
	See Also:		
	Fixed Art: E2010.10.		
	Movable Sculptures	12 14 00	
	Movable Religious Art	12 19 00	
	See Also:		
	Religious Equipment: E1040.40.		
	Musical Equipment: E1070.20.		
	Fixed Religious Art: E2010.10. Religious Casework: E2010.30.		
	Fixed Pews: E2010.70.		
E2050.30	===	12 50 00	Includes: Movable interior furniture.
E2030.30	Office Furniture	12 50 00	includes. Movable interior furniture.
	See Also:	12 01 00	
	Office Equipment: E1030.75.		
	Office Shelters and Booths:		
	F1010.50.		
	Seating	12 52 00	
	Office Seating	12 52 23	
	Healthcare Seating	12 52 70	
	Retail Furniture	12 53 00	
	Hospitality Furniture	12 54 00	
	Hotel and Motel Furniture	12 54 13	
	Restaurant Furniture	12 54 16	
	See Also:		
	Hospitality Turntables: D1030.30.		
	Hospitality Equipment: E1030.50.		
	Hospitality Casework: E2010.30. Educational Furniture		
	Detention Furniture	12 55 00	
	See Also:	00 00	
	Detention Monitoring and Control:		
	D7070.		
	Detention Equipment: E1040.70.		
	Detention Cell Modules: F1010.10.		
	Metal Detention Enclosures:		
	F1010.50.		
	Detention Project Procedures:		
	Z1020.70.		
	Institutional Furniture	12 56 00	
	Classroom Furniture	12 56 33	
	Lecterns  Dermitery Furniture	12 56 39	
	Dormitory Furniture	12 56 43	
	Library Furniture	12 56 51	
	See Also:		
	Library Casework: E2010 30		
	Library Casework: E2010.30.		

Number	TITLE	MF NUMBER	EXPLANATION
TOWNER			EAL ENDATION
	Audio-Visual Furniture Laboratory Furniture See Also:	12 56 52 12 56 53	
	Process Support Plumbing Systems: D2060.		
	Laboratory Equipment: E1040.10. Laboratory Casework: E2010.30.		
	Healthcare Furniture  See Also:	12 56 70	
	Healthcare Communications & Monitoring: D6060.30.		
	Healthcare Equipment: E1040.20. Healthcare Casework: E2010.30. Healthcare Special Procedures: Z1020.70.		
	Industrial Furniture	12 57 00	
	Welding Benches	12 57 00	
	Welding Screens	12 57 16	
	Residential Furniture	12 57 10	
	See Also:		
	Residential Casework: E2010.30.		
	Systems Furniture	12 59 00	
E2050.40	Accessories	12 40 00	Includes: Interior furnishing accessories not attached to permanent construction.
	Office Accessories	12 41 00	
	Table Accessories	12 42 00	
	Portable Lamps	12 43 00	
	Bath Furnishings	12 44 00	
	Shower Curtains	12 44 16	
	Bedroom Furnishings	12 45 00	
	Furnishing Accessories	12 46 00	
	Moveable Rugs and Mats See Also:	12 48 00	
<b>-</b>	Carpeting: C2030.75. Entrance Flooring: C2030.85.	10.00.00	
E2050.60	Movable Multiple Seating	12 60 00	Includes: Portable seating for auditoriums, lecture halls, stadiums, arenas, gymnasiums, religious buildings, restaurants, and other facilities where multiple seating is required.
	Portable Audience Seating	12 62 00	
	Portable Multiple-Use Seating	12 65 00	
	Portable Pews and Benches	12 67 00	
	Portable Seat and Table Assemblies Portable Waiting Area Seating	12 68 00	
	See Also: Fixed Multiple Seating: E2010.70. Exterior Grandstands and Bleachers: F1020.40.		
E2050.90	Other Movable Furnishings Movable Interior Planters and	12 90 00	
	Artificial Plants	12 92 00	Includes: Moveable artificial plants, and planters.
	Movable Interior Artificial Plants	12 92 13	
	Movable Interior Planters	12 92 33	
	Interior Landscaping Accessories See Also:	12 92 43	
	Fixed Interior Planters and Artificial Plants: E2010.90.		

Number	Тіті.	MF NUMBER	EXPLANATION
F10	SPECIAL CONSTRUCTION		
F1010	Special Construction Performance Requirements Integrated Construction	01 88 13	
	Building Modules	13 42 00	Includes: Fabricated and pre-engineered
	<b>3</b>		modules for site assembly by stacking or linking.
	<b>Building Modules Performance Requirements</b>	01 88 13	
	Load Capacity	01 88 13	
	Wind Load Capacity	01 88 13	
	Fire Rating	01 88 13	
	Thermal Resistance	01 88 13	
	Vapor Transmission Resistance	01 88 13	
	Air Infiltration Resistance	01 88 13	
	Sound Transmission	01 88 13	
	Hospital Unit Modules	13 42 25	
	Dwelling Unit Modules	13 42 33	
	Dormitory Unit Modules	13 42 43	
	Detention Cell Modules	13 42 63	
	See Also:		
	Exterior Detention Windows: B2020.50.		
	Exterior Detention Doors: B2050.40.		
	Interior Detention Windows: C1020.50.		
	Interior Detention Doors: C1030.70.		
	Detention Lighting: D5040.50.		
	Detention Monitoring and Control: D7070.		
	Detention Equipment: E1040.70.		
	Detention Furniture: E2050.30.		
	Metal Detention Enclosures: F1010.50.		
	Detention Project Procedures: Z1020.70.		
F1010.50	Manufactured/Fabricated Rooms	13 20 00	Includes: Prefabricated and pre-engineered rooms designed and constructed to meet critical performance requirements of environmental control, dimensional tolerances, sound control, fire protection, and other special conditions.
	Manufactured/Fabricated Rooms Performance Requirements	01 88 13	
	Fire Rating	01 88 13	
	Thermal Resistance	01 88 13	
	Vapor Transmission Resistance	01 88 13	

Number	TITLE	MF NUMBER	EXPLANATION
	Sound Transmission	01 88 13	
	See Also:	010010	
	Interior Special Function Windows:		
	C1020.50.		
	Interior Special Function Doors:		
	C1030.70.		
	Special Facility Components:		
	F1050. Controlled Environment Rooms	13 21 00	
	Clean Rooms	13 21 13	
	See Also:	10 21 10	
	Clean Room Special Procedures:		
	Z1020.70.		
	Hyperbaric Rooms	13 21 16	
	Insulated Rooms	13 21 23	
	Cold Storage Rooms See Also:	13 21 26	
	Cold Storage Doors: C1030.70.		
	Constant Temperature Rooms	13 21 29	
	Sound-Conditioned Rooms	13 21 48	
	Office Shelters and Booths	13 22 00	Includes: Interior shelters and booths.
	See Also:		
	Office Equipment: E1030.75. Office Furniture: E2050.30.		
	Covers and Shelters: G2060.		
	Planetariums	13 23 00	
	See Also:		
	Planetarium Equipment: E1040.10.		
	Special Activity Rooms	13 24 00	
	Saunas Steam Baths	13 24 16 13 24 26	
	Athletic Rooms	13 24 66	
	See Also:	102100	
	Athletic Flooring: C2030.80.		
	Athletic Equipment: E1070.50.		
	Athletic & Recreational Special		
	Construction: F1060.		
	Athletic Areas: G2050.10. Vaults	13 27 00	
	See Also:	10 27 00	
	Interior Vault Doors: C1030.70.		
	Vault Equipment: E1030.20.		
	Vaults: F1010.50.		
E4040 70	Metal Detention Enclosures	05 59 63	Includes. Drafebricated and are arrained
F1010.70	Modular Mezzanines	13 44 00	Includes: Prefabricated and pre-engineered mezzanine modules complete with structural
			support, flooring, railings, stairs, and other
			accessories.
	Modular Mezzanines Performance Requirements	s 01 88 13	
	Load Capacity	01 88 13	
	Deflection	01 88 13	
	Vibration	01 88 13	
	Levelness See Also:	01 88 13	
	Mezzanine Construction: B1010.40.		

Number	Тпте	MF Number	EXPLANATION
NUMBER			EXPLANATION
F1020	Special Structures	13 30 00	
	Special Structures Performance Requirements	01 88 13	
	See Also:		
E4000.40	Superstructure: B10.	10.04.00	
F1020.10	Fabric Structures	13 31 00	Includes: Structures of flexible membrane
			material support by air pressure, tensioned cables, or other framing system.
	Fabric Structures Performance Requirements	01 88 13	cables, or other marning system.
	Load Capacity	01 88 13	
	Air-Supported Fabric Structures	13 31 13	
	Tensioned Fabric Structures	13 31 23	
	Framed Fabric Structures	13 31 33	
F1020.20	Space Frames	13 32 00	Includes: Three-dimensional structural frame of
			any material capable of transmitting loads in
			three dimensions.
	Space Frames Performance Requirements	01 88 13	
E4000.00	Load Capacity	10.00.00	
F1020.30	Geodesic Structures	13 33 00	Includes: Dome shaped structure constructed
			of straight members of any material that form a triangular gridwork.
	Geodesic Structures Performance Requirements	01 88 13	thangalar ghawon.
	Geodesic Domes	13 33 13	
F1020.40	Manufacturer-Engineered Structures	13 34 00	Includes: Prefabricated, pre-engineered
	-		buildings and structures assembled on
			temporary and permanent foundations.
	Manufactured-Engineered Structures	01 88 13	
	Performance Requirements		
	Load Capacity	01 88 13	
	Wind Load Capacity Fire Rating	01 88 13 01 88 13	
	Thermal Resistance	01 88 13	
	Vapor Transmission Resistance	01 88 13	
	Air Infiltration Resistance	01 88 13	
	Sound Transmission	01 88 13	
	Glazed Structures	13 34 13	
	Exterior Grandstands and Bleachers	13 34 16	
	Metal Building Systems	13 34 19	
	Observatories	13 34 56	
	See Also: Planetarium Equipment: E1040.10.		
	Telescoping Stands: E2010.70.		
	Special Facility Components:		
	F1050.		
	Covers and Shelters: G2060.		
F1020.60	Manufactured Canopies	10 73 16	Includes: Fabricated and pre-engineered
			canopies.
	Manufactured Canopy Performance	01 88 13	
	Requirements	04.00.40	
	Load Capacity Wind Load Capacity	01 88 13	
	Wind Load Capacity See Also:	01 88 13	
	Canopy Frame: B1020.30.		
	Canopy Roofing: B3010.70.		
	Exterior Ceilings and Soffits: B3080.		
F1020.65	Rammed Earth Construction	13 35 00	
	Rammed Earth Walls	13 35 13	

NUMBER	Тітье	MF Number	EXPLANATION
F1020.70	Towers	13 36 00	Includes: Fabricated and pre-engineered structures of a vertical nature for a variety of purposes.
	Towers Performance Requirements Wind Load Capacity Functional Towers	01 88 13 01 88 13	
	Decorative Towers  See Also:  Electrical Utility Towers: G4010.20.  Towers Grounding: G4010.70.  Communications Towers:		
	G5010.10.		
F1030	Special Function Construction		
F1030.10	Sound and Vibration Control	13 48 00	Includes: Manufactured components for the reduction of undesirable sound and vibration within a structure.
	Sound and Vibration Control Performance Requirements	01 88 13	
	Sound Transmission	01 88 13	
	Vibration	01 88 13	
	See Also: Acoustical Wall Treatment: C2010. Acoustical Ceiling Treatment: C2050.		
	Plumbing Vibration, and Seismic Control: D20.		
	HVAC Sound, Vibration, and Seismic Control: D30.		
	Fire Protection Sound, Vibration, and Seismic Control: D40.		
F1030.30	Seismic Control	13 48 00	Includes: Manufactured components for the control of seismic loads on a structure.
	Seismic Control Performance Requirements	01 88 13	
	Seismic Zone See Also:	01 88 13	
	Plumbing Sound, Vibration, and Seismic Control: D20. HVAC Sound, Vibration, and		
	Seismic Control: D30. Fire Protection Sound, Vibration,		
	and Seismic Control: D40.		
F1030.50	Radiation Protection	13 49 00	Includes: Radiation shielding components and structures for protection against radio frequency, x-ray, nuclear radiation, electromagnetic fields, and high energy magnetic pulse projection.
	Radiation Protection Performance Requirements	01 88 13	
	Radiation Levels	01 88 13	
	Radio Frequency Protection	01 88 13	
	X-Ray Protection	01 88 13	
	Nuclear Radiation Protection Electromagnetic Field Protection	01 88 13 01 88 13	

			F SPECIAL CONSTRUCTION AND DEMOLITION
NUMBER	TITLE	MF NUMBER	EXPLANATION
	High Energy Magnetic Pulse Protection See Also: Exterior Radiation Shielding Windows: B2020.50. Exterior Radiation Shielding Doors: B2050.40. Interior Radiation Shielding Windows: C1020.50. Interior Radiation Shielding Doors: C1030.70. Radiation Detection and Alarm: D7050.20.	01 88 13	
<b>F1050</b> F1050.10	Special Facility Components Pools		Includes: Prefabricated and pre-engineered components, field assembled for aquatic sport, recreation, and health purposes.
	Pools Performance Requirements	01 88 13	rooroalion, and roalin purposes.
	Swimming Pools	13 11 00	
	Tubs and Pools	13 17 00	
	Hot Tubs	13 17 13	
	Therapeutic Pools	13 17 23	
	Whirlpool Tubs	13 17 33	
	Pool Plumbing Systems	22 51 00	
	Pool Equipment		
	Pool Water Treatment	22 51 19	
	Pool Pumps	22 51 16	
	Pool Equipment Controls	22 51 23	
	Pool Piping System Pool Specialties See Also: Underwater Lighting: D5040.50. Swimming Pool Equipment: F1050. Special Activity Rooms: F1010.	22 51 13	
F1050.20	Interior Fountains	13 12 23	Includes: Interior decorative or functional manufactured fountains.
	Interior Fountains Performance Requirements Interior Fountain Plumbing Systems Interior Fountain Equipment	01 88 13 22 52 00	
	Interior Fountain Water Treatment	22 52 19	
	Interior Fountain Pumps	22 52 16	
	Interior Fountain Equipment Controls	22 52 23	
	Interior Fountain Piping System Interior Fountain Specialties See Also: Underwater Lighting: D5040.50.	22 52 13	
	Exterior Fountains: G2060.10.		
F1050.30	Interior Water Features		Includes: Interior water features other than fountains such as water curtains.
	Decorative Water Curtains		
F1050.40	Aquariums	13 13 00	Includes: Tubs, bowls, and other containers for containing and displaying of aquatic animals and plants.
F1050.50	Amusement Park Structures and Equipment	13 14 00	Includes: Fabricated or pre-engineered components, field assembled for sport or recreational purposes.
	Water Slides	13 14 13	
	Wave Generating Equipment Amusement Park Rides	13 14 16 13 14 23	

NUMBER	Тпше	MF NUMBER	EXPLANATION
=1050.60	Ice Rinks	13 18 00	Includes: Freezing equipment, piping, floor systems, and surrounding enclosures for ice rinks.
1050.70	Animal Containment	13 19 00	Includes: Enclosures, gates, and feeding devices for kennels and animal shelters.
	See Also: Agricultural Equipment: E1090. Fences and Gates: G2060.		
1060	Athletic and Recreational Special Construction	13 28 00	Includes: Special construction for athletic and recreational activities that are directly related to the adjacent construction.
1060.10	Indoor Soccer Boards	13 28 13	
	Safety Netting	13 28 16	
1060.30	Arena Football Boards	13 28 19	
1060.40	Floor Sockets	13 28 26	
	Athletic and Recreational Court Walls	13 28 33	
1060.60	Demountable Athletic Surfaces  See Also:  Athletic Flooring: C2030.80.	13 28 66	
	Athletic Equipment: E1070.50. Athletic Rooms: F1010.50. Athletic Areas: G2050.10.		
	Swimming Pools: F1050.10.		
	Recreational Areas: G2050.30.		
1080	Special Instrumentation	13 50 00	Includes: Instrumentation for measuring and recording phenomena such as stresses in structures, solar and wind energy, and effects of earthquakes.
1080.10	Stress Instrumentation	13 51 00	•
1080.20	Seismic Instrumentation	13 52 00	
1080.40	Meteorological Instrumentation	13 53 00	
	Solar Instrumentation	13 53 13	
	Wind Instrumentation	13 53 23	
1080.60	Earth Movement Monitoring		
<b>-20</b>	FACILITY REMEDIATION		
2010	Hazardous Materials Remediation	02 80 00	Includes: Remediation for abatement and removal and disposal of contaminated materials within structures.
	Hazardous Materials Remediation Performance Requirements		
	See Also: Decontamination Equipment: E1090.60.		
	Site Remediation: G1050.		
2010.10	Transportation and Disposal of Hazardous Materials	02 81 00	Includes: Transporting and disposal of hazardous materials within structures.
2010.20	Asbestos Remediation	02 82 00	Includes: Abatement or removal of asbestos material within structures.
	Asbestos Abatement	02 82 13	
	Engineered Control of Asbestos Containing	02 82 16	
2010.30	Removal and Disposal of Asbestos Containing Lead Remediation	02 82 33 02 83 00	Includes: Abatement or removal of lead material within structures.
	Lead Hazard Control Activities	02 83 13	
	Lead Hazard Control Activities Lead-Based Paint Remediation	02 83 13 02 83 19	

NUMBER	Тпше	MF NUMBER	EXPLANATION
F2010.40	Polychlorinate Biphenyl Remediation	02 84 00	Includes: Abatement or removal of polychlorinated biphenyl material within structures.
	Handling of Lighting Ballasts and Lamps Removal and Disposal of Polychlorinate	02 84 16 02 84 33	
F2010.50	Mold Remediation	02 85 00	Includes: Remediation of areas and materials contaminated by mold, mildew, or fungus.
	Precautions for Mold Remediation Mold Remediation Preparation and Containment Mold Remediation Clearance Air Sampling Removal and Disposal of Materials with Mold	02 85 13 02 85 16 02 85 19 02 85 33	
F30	DEMOLITION		
	See Also:		
	Site Elements Demolition: G1020.		
F3010	Structure Demolition	02 41 16	Includes: Complete removal and disposal of structures.
	Building Demolition	02 41 16.13	
	Tower Demolition	02 41 16.23	
	Bridge Demolition	02 41 16.33	
	Dam Demolition	02 41 16.43	
F3030	Selective Demolition	02 41 19	Includes: Removal and disposal of parts of structures.
	Selective Building Demolition	02 41 19.13	
	Selective Interior Demolition	02 41 19.16	
	Selective Bridge Demolition	02 41 19.33	
F3030.70	Selective Historic Demolition See Also: Historic Restoration Requirements:	02 41 91	
	1030.70.		
	Building Demolition: F3010.10.		
	Historic Treatment Procedures: Z1020.70.		
F3050	Structure Moving	02 43 00	Includes: Preparation and processes of relocating and raising structures.
	Structure Moving Performance Requirements  See Also:  Site Element Relocations: G1030.		
F3050 10	Structure Relocation	02 43 13	
	Structure Raising	02 43 16	
. 0000.00	Off dotars Traising	0 <u>2</u> 70 10	

Site Construction Performance Requirements 01 89 00

Number	TITLE	MF Number	EXPLANATION
G10	SITE PREPARATION		
	Site Preparation Performance Requirements	01 89 13	
G1010	Site Clearing	31 10 00	Includes: Removal of vegetation from the site, including stripping of sod and soil, and tree pruning for site clearing.
	Clearing and Grubbing	31 11 00	
G1010.30	Tree and Shrub Removal and Trimming  See Also:  Shrub and Tree Transplanting:  G2080.  Temporary Tree and Plant  Protection: Z1050.	31 13 00	
G1010.50	Earth Stripping and Stockpiling	31 14 00	
	Soil Stripping and Stockpiling	31 14 13	
	Sod Stripping and Stockpiling	31 14 16	
G1020	Site Elements Demolition		Includes: Removal of above and below grade site improvements.
	See Also:		
C1020 10	Demolition: F30.		
	Utility Demolition Infrastructure Demolition		
	Selective Site Demolition	02 41 13	
G1020.30	Site Element Relocations	02 41 13	
01000	See Also:		
	Structure Moving: F3050.		
G1030.10	Utility Relocation		Includes: Relocation of utility systems.
G1050	Site Remediation	02 50 00	Includes: Remediation of contaminated sites.
	Site Remediation Performance Requirements See Also:	01 89 13	
	Decontamination Equipment: E1090.60.		
	Facility Remediation: F20.		
	Contaminated Site Special		
04050.40	Procedures: Z1020.70.	00.54.00	Includes. Ocil decembracio etica bumbunical
G1050.10	Physical Decontamination	02 51 00	Includes: Soil decontamination by physical treatment processes.
	Coagulation and Flocculation Decontamination	02 51 13	
	Reverse-Osmosis Decontamination	02 51 16	
	Solidification and Stabilization Decontamination  Mechanical Filtration Decontamination	02 51 19	
	Radioactive Decontamination	02 51 23 02 51 26	
	Surface Cleaning Decontamination	02 51 20	
	Surface Removal Decontamination	02 51 23	
G1050 15	Chemical Decontamination	02 51 00	Includes: Soil decontamination by chemical
3.000.10	Chemical Precipitation Decontamination	02 52 13	treatment processes.
	Ion Change Decontamination	02 52 13	
	Neutralization Decontamination	02 52 10	
G1050.20	Thermal Decontamination	02 52 19	Includes: Soil decontamination by thermal
		J_ 22 <b>33</b>	treatment processes.
	Incineration Decontamination	02 53 13	·

Number		ME N	EVPLANATION
NUMBER	TITLE	MF Number	EXPLANATION
	Thermal Desoption Decontamination	02 53 16	
	Vitrification Decontamination	02 53 19	
G1050.25	Biological Decontamination	02 54 00	Includes: Soil decontamination by biological treatment processes.
	Aerobic Processes Decontamination	02 54 13	
	Anaerobic Processes Decontamination	02 54 16	
	Bioremediation Decontamination	02 54 19	
	Soil Washing through Separation/Solubilization	02 54 23	
	Organic Decontamination	02 54 26	
G1050.30	Remediation Soil Stabilization	02 55 00	Includes: Insiu and exsitu soil stabilization for remediation.
G1050.40	Site Containment	02 56 00	Includes: Containment of contaminated site materials.
	Waste Containment	02 56 13	
	Gas Containment	02 56 19	
G1050.45	Sinkhole Remediation	02 57 00	Includes: Remediation of underground voids in soluble rock created by groundwater.
	Sinkhole Remediation by Grouting	02 57 13	, <b>,</b>
	Sinkhole Remediation by Backfilling	02 57 16	
G1050.50	Hazardous Waste Drum Handling	02 86 00	Includes: The handling of drums containing material contaminated with toxic and hazardous materials.
G1050.60	Contaminated Site Material Removal	02 60 00	Includes: Removal and disposal of contaminated site materials.
	Removal and Disposal of Contaminated Soils	02 61 00	Includes: Removal of toxic and hazardous site materials including polychlorinate biphenyl, asbestos, and organically contaminated soils.
	Hazardous Waste Recovery Processes	02 62 00	Includes: Removal of hazardous and toxic materials from soil.
	See Also:		
	Transportation and Disposal of Hazardous Materials: F2010.10.		
	Underground Storage Tank Removal	02 65 00	Includes: Removal of underground tanks and appurtenances which have been used to store toxic and hazardous materials.
	Landfill Construction and Storage	02 66 00	Includes: Construction of landfills and storage of hazardous materials.
G1050.80	Water Remediation	02 70 00	Includes: Remediation of contaminated water.
	Groundwater Treatment	02 71 00	
	Water Decontamination	02 72 00	
G1070	Site Earthwork	31 20 00	Includes: Moving earth to establish new contours and elevations.
	Site Earthwork Performance Requirements	01 89 13	-
	Degree of Compaction	01 89 13	
G1070.10		31 22 00	Includes: Earthmoving to reshape contours.
	Rough Grading	31 22 13	3 to 100
	Fine Grading	31 22 16	
	Finish Grading	31 22 19	
G1070.20	Excavation and Fill	31 23 00	Includes: Excavation and fill for foundations, structures, pavement, railways, ditches, channels, culverts, drains, and utilities.
	See Also:		
	Building Substructure Excavation: A9010.		

Building Backfill and Compaction: A9010.10.

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			G SITEWORK
Number	TITLE	MF NUMBER	EXPLANATION
	Excavation	31 23 16	
	Rock Removal	31 23 16.26	
	Fill	31 23 23	
	Backfill	31 23 23.13	
	Compaction	31 23 23.23	
	Flowable Fill	31 23 23.33	
	Geofoam	31 23 23.43	
	Trenching and Backfilling	31 23 33	
G1070.30	Embankments	31 24 00	Includes: Soil and rock embankments for
			support or containment and protection purposes.
	Roadway Embankments	31 24 13	
	Railway Embankments	31 24 16	
G1070.35	Erosion and Sedimentation Controls	31 25 00	Includes: Construction of permanent erosion checks and controls.
	See Also:		
	Temporary Erosion and Sediment Control: Z1050.50.		
G1070.40	Soil Stabilization	31 32 00	Includes: Addition and integration of material in and on soil to stabilize and strengthen soil material and the construction of which it is a part. Includes fully grouted, passive (nontensioned) soil nails used to resist failure forces
			on slopes.
	Soil Mixing Stabilization	31 32 13	
	Chemical Treatment Soil Stabilization	31 23 16	
	Geosynthetic Soil Stabilization	31 32 19	
	Pressure Grouting Soil Stabilization	31 32 23	
	Shotcrete Soil Slope Stabilization	31 32 33	
	Soil Nailing	31 32 36	
G1070.45	Rock Stabilization	31 33 00	Includes: Various technologies to make an unstable rock slope more stable.
	Rock Bolting and Grouting	31 33 13	
	Rock Slope Netting	31 33 23	
	Rock Slope Wire Mesh	31 33 26	
	Shotcrete Rock Slope Stabilization	31 33 33	
	Vegetated Rock Slope Stabilization	31 33 43	
G1070.50	Soil Reinforcement	31 34 00	Includes: Various technologies to reinforce the strength and stability of soils.
	Geosynthetic Soil Reinforcement	31 34 19	
	Fiber Soil Reinforcement See Also:	31 34 23	
	Reinforced Soil Retaining Walls: G2060.60		
G1070.55	Slope Protection	31 35 00	Includes: Various technologies to protect slopes from erosion.
	Geosynthetic Slope Protection	31 35 19	
	Slope Protection with Slope Paving	31 35 23	
	Containment Barriers	31 35 26	
G1070.60		31 36 00	Includes: Wire baskets filled with rock used for a variety of purposes.
	Gabion Boxes	31 36 13	
	Gabion Mattresses	31 36 19	
	See Also:		
	Gabion Retaining Walls: G2060.60.		
G1070.65	Riprap	31 37 00	Includes: Cover of rock used to stabilized slopes subject to water erosion intended to be permanent.

G SHEWO				F
NUMBER	TITLE		MF NUMBER	EXPLANATION
G1070.70	Wetlands		32 70 00	Includes: Construction and restoration of excavated basis with purposely placed wetland vegetation to enhance pollutant removal from stormwater runoff.
		d Wetlands	32 71 00	
04070.00	Wetlands F	Restoration	32 72 00	
G1070.80	Earth Dams	See Also: Storm Drainage Ponds and Reservoirs: G3030.70	35 73 13	Includes: Dams constructed of earth.
G1070.90	Site Soil Treatr	ment	31 31 00	Includes: Soil treatment to resist invasion of adjoining structure by pests and growth of vegetation.
	Rodent Co		31 31 13	
	Termite Co		31 31 16	
	Vegetation	Control See Also: Soil Treatment: A9040.	31 31 19	
G20	SITE IMPR	OVEMENTS		
020		vements Performance Requirements See Also: Site Improvements Grounding:	01 89 16	
00040	<b>5</b>	G4010.70.		Includes Developed with a said without
G2010	Roadways			Includes: Pavement, curbs and gutters, appurtenances, lighting, and vehicle fare collection for roadways.  May Include: Site earthwork.
	Roadways	Performance Requirements	01 89 16	way moldde. One earthwork.
	Live Lo	pad Capacity g Levels	01 89 16 01 89 16	
	<b>–</b> .9	See Also: Site Earthwork: G1070. Parking Lots: G2020. Pedestrian Plazas and Walkways:	0.00.10	
		G2030. Airfields: G2040.		
		Athletic, Recreational, and Playfield Areas: G2050. Temporary Roads: Z1050.35.		
G2010.10	Roadway Pave		32 10 00	
0_0	-	Base Courses	32 11 00	Includes: Prepared and compacted soil and granular layers placed before installation of roadway pavement.
	Flexible Ro	padway Pavement	32 12 00	Includes: Finished roadway pavement of granular and asphaltic materials. Seal coats and restoration of existing pavements.
	Rigid Road	lway Pavement	32 13 00	Includes: Finished roadway pavement with hig bending resistance, usually of concrete.
	Roadway l	Jnit Pavement	32 14 00	Includes: Blocks or tiles used for roadway pavement. Includes unit pavers set in mastic, sand, or mortar.
		See Also:		
	Deed (	Unit Pavers: B3040.	20.45.00	
	Koadway A	Aggregate Surfacing	32 15 00	

Number	TITLE	MF Number	EXPLANATION
G2010.20	Roadway Curbs and Gutters	32 16 13	Includes: Construction at perimeter of roadway pavements to separate pavements from adjacent surfaces, provide vehicular restraint, and facilitate drainage.
G2010.40	Roadway Appurtenances	32 17 00	Includes: Accessories for roadway construction.
	Speed Bumps	32 17 16	
	Pavement Snow Melting Systems See Also: Snow Melting: D3070.10.	32 17 43	
	Roadway Construction	34 71 00	
	Vehicle Barriers	34 71 13	
	Impact Attenuating Devices	34 71 16	
	Vehicle Delineators	34 71 19	
	Traffic Signage	10 14 53	
	Roadway Signaling and Control Equipment	34 41 00	
	Traffic Signals	34 41 13	
	Traffic Control Equipment	34 41 16	
	Roadway Monitoring Equipment	34 41 23	
	Pavement Markings	32 17 23	
G2010.70	Roadway Lighting	26 56 19	
	See Also:		
	Site Lighting: G4050.		
G2010.80	Vehicle Fare Collection	34 52 00	Includes: Equipment associated with the control of movement of vehicles on roadways and is integral system with equipment to dispense tickets and collect fares for vehicles.
	Vohiolo Tiekoting Equipment	34 52 16	dispersed tionete and concet fares for vernoles.
	Vehicle Ticketing Equipment Vehicle Fare Collection Equipment	34 52 16	
	Vehicle Fare Collection Equipment  Vehicle Fare Gates	34 52 33	
G2020	Parking Lots	0 <del>+</del> 02 00	Includes: Pavement, curbs and gutters,
01010			appurtenances, lighting, and parking control equipment for parking lots.
			May Include: Site earthwork.
	Parking Lots Performance Requirements	01 89 16	
	Live Load Capacity	01 89 16	
	Lighting Levels  See Also: Site Earthwork: G1070.  Roadways: G2010.  Pedestrian Plazas and Walkways: G2030.	01 89 16	
	Airfields: G2040.		
	Athletic, Recreational, and Playfield		
	Areas: G2050.		
	Temporary Parking Areas: Z1050.35.		
G2020.10	Parking Lot Pavement	32 10 00	
	Parking Lot Base Courses	32 11 00	Includes: Prepared and compacted soil and granular layers placed prior to installation of parking lot pavement.
	Flexible Parking Lot Pavement	32 12 00	Includes: Finished parking lot pavement of granular and asphaltic materials.
	Rigid Parking Lot Pavement	32 13 00	Includes: Finished parking lot pavement with high bending resistance, usually of concrete.

	MF NUMBER	EXPLANATION
arking Lot Unit Pavement	32 14 00	Includes: Blocks or tiles used for parking lot pavement. Unit pavers set in mastic, sand, or mortar.
See Also:		
Unit Pavers: B3040.		
	32 15 00	
ng Lot Curbs and Gutters	32 16 13	Includes: Construction at perimeter of parking lot pavement to separate pavement from adjacent surfaces, provide vehicular restraint, and facilitate drainage.
	32 17 00	Includes: Accessories for parking lot construction.
See Also:		
Bicycle Racks: G2060.		
See Also:	32 17 43	
<del>-</del>	10 14 52	
See Also:	20 30 10	
	11 12 00	Includes: Equipment associated with the control of movement of vehicle parking.
xterior Parking Key and Card Control Units	11 12 13	· •
	11 12 16	
· · · · · · · · · · · · · · · · · · ·	11 12 23	
xterior Parking Fee Collection Equipment	11 12 26.13	
xterior Parking Gates	11 12 33	
See Also:		
Interior Parking Control Equipment: E1010.30.		
strian Plazas and Walkways		Includes: Pavement, curbs and gutters, appurtenances, lighting, and pedestrian control equipment for pedestrian plazas and walkways. Includes exterior steps and ramps.  May Include: Site earthwork.
edestrian Plazas and Walkways Performance	01 89 16	May morade. One carriwork.
Lighting Levels See Also: Site Earthwork: G1070. Roadways: G2010. Parking Lots: G2020. Airfields: G2040. Athletic, Recreational, and Playfield	01 89 16	
	00.40.00	Includes Demonder of the St. Co.
strian Pavement	32 10 00	Includes: Prepared and compacted soil and granular layers placed before installation of pedestrian pavement.
	32 11 00	
	32 12 00	Includes: Finished pedestrian pavement of granular and asphaltic materials.
igid Pedestrian Pavement	32 13 00	Includes: Finished pedestrian pavement with high bending resistance, usually of concrete.
	Unit Pavers: B3040. Farking Lot Aggregate Surfacing and Lot Curbs and Gutters  See Also: Bicycle Racks: G2060.  Farking Bumpers  Farking Bumpers  Farking Lot Traffic Signage  Farking Lot Pavement Markings  Farking Lot Lighting  Farking Control Equipment  Farking Control Equipment  Farking Parking Key and Card Control Units exterior Parking Ticket Dispensers exterior Parking Gates  Farking Gates  Farking Control Equipment  Farking Gates  Farking Gates  Farking Gates  Farking Gates  Farking Control Equipment:  Farking Gates  Farking Control Equipment:  Farking Gates  Farking Control Equipment:  Farking Levels  Farking Control Equipment:  Farking Levels  Farking Levels  Farking Lots: G2020.  Farking Lots: G2020.  Airfields: G2040.	See Also: Unit Pavers: B3040.  arking Lot Aggregate Surfacing ng Lot Curbs and Gutters  See Also: Bicycle Racks: G2060.  arking Bumpers avement Snow Melting Systems See Also: Snow Melting: D3070.10.  arking Lot Pavement Markings 10 14 4 53 arking Lot Pavement Markings 10 12 32 17 23 ang Lot Lighting See Also: Site Lighting: G4050.  ior Parking Control Equipment 11 12 00  xterior Parking Key and Card Control Units xterior Parking Meters xterior Parking Fee Collection Equipment xterior Parking Gates Interior Parking Control Equipment: E1010.30.  strian Plazas and Walkways  redestrian Plazas and Walkwa

			O OHEWORK
NUMBER	Тпше	MF NUMBER	EXPLANATION
	Pedestrian Unit Pavement	32 14 00	Includes: Blocks or tiles used for pedestrian pavement. Unit pavers which may be set in mastic, sand, or mortar.
	See Also:		
	Unit Pavers: B3040.		
G2030.20	Pedestrian Aggregate Surfacing Pedestrian Pavement Curbs and Gutters	32 15 00 32 16 13	Includes: Construction at perimeter of pedestrian pavements to separate pavement from adjacent surfaces and facilitate drainage.
G2030.30	Exterior Steps and Ramps		Includes: Steps and ramps in exterior locations including applied finishes such as coatings and tile and railings.
	See Also: Snow Melting: D3070.10. Stair: B1080.		
G2030.40	Pedestrian Pavement Appurtenances	32 17 00	Includes: Accessories for pedestrian pavement construction.
	Pavement Markings	32 17 23	
	Tactile Warning Surfacing	32 17 26	
	Pavement Snow Melting Systems See Also:	32 17 43	
00000 70	Snow Melting: D3070.10.	00 50 00	
G2030.70	Plaza and Walkway Lighting  See Also:	26 56 33	
G2030.80	Site Lighting: G4050. Exterior Pedestrian Control Equipment	11 14 00	Includes: Equipment associated with the
	Exterior Pedestrian Gates	11 14 13	control of movement of pedestrians.
	Exterior Money-Changing Equipment	11 14 16	
	Exterior Pedestrian Fare Collection Equipment	11 14 26	
	Exterior Pedestrian Detection Equipment	11 14 43	
	Exterior Pedestrian Security Equipment	11 14 53	
	See Also: Exterior Security Gates: B2050.70.		
	Electronic Safety and Security: D70.		
	Interior Pedestrian Security		
	Equipment: E1010.70.		
	Security Equipment: E1040.60.		
	Security Procedures: Z1020.70. Temporary Security Barriers &		
	Enclosures: Z1050.40.		
G2040	Airfields		Includes: Pavement, curbs and gutters, appurtenances, lighting, and airfield signally and control equipment for airfields.
			May Include: Site earthwork.
	Airfields Performance Requirements	01 89 16	,
	Live Load Capacity	01 89 16	
	Lighting Levels See Also: Site Earthwork: G1070. Roadways: G2010. Parking Lots: G2020. Pedestrian Plazas and Walkways: G2030.	01 89 16	
	Athletic, Recreational, and Playfield Areas: G2050. Airport Special Procedures: Z1020.70.		

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NUMBER	Тіпце	MF NUMBER	EXPLANATION
G2040.10	Aviation Pavement	32 10 00	Includes: Prepared and compacted soil and granular layers placed before installation of airfield pavement.
	Aviation Pavement Base Courses Flexible Aviation Pavement Rigid Aviation Pavement	32 11 00 32 12 00 32 13 00	
	Aviation Aggregate Surfacing	32 15 00	
G2040.20	Aviation Pavement Curbs and Gutters	32 16 13	Includes: Construction at perimeter of airfield pavements to separate pavement from adjacent surfaces and facilitate drainage.
G2040.40	Aviation Pavement Appurtenances	32 17 00	Includes: Accessories for aviation pavement construction.
	Airfield Pavement Markings	32 17 23	
	Pavement Snow Melting Systems  See Also:  Snow Melting: D3070.10.	32 17 43	
	Airfield Traffic Signage	10 14 53	
G2040.70	Airfield Lighting	26 56 00	
	See Also:		
G2040 90	Site Lighting: G4050. Airfield Signaling and Control Equipment	34 43 00	Includes equipment associated with airfield
G2040.60	Affiled Signaling and Control Equipment	34 43 00	signaling, landing, and traffic control including weather observation equipment.
	Airfield Signals	34 43 13	
	Airfield Landing Equipment	34 43 16	
	Airfield Traffic Control Tower Equipment	34 43 19	
	Weather Observation Equipment Airfield Control Equipment	34 43 23 34 43 26	
G2050	Athletic, Recreational, and Playfield Areas	54 45 Z0	Includes: Surfacing, fencing, equipment, grandstands and bleachers, and lighting for athletic, recreational, and playfield areas.
			May Include: Site earthwork.
	See Also:		
	Site Earthwork: G1070.		
	Roadways: G2010.		
	Parking Lots: G2020. Pedestrian Plazas and Walkways:		
	G2030.		
	Airfields: G2040.		
G2050.10	Athletic Areas		Includes: Exterior surfacing, fencing, equipment, and lighting for athletic areas.
	Athletic Areas Performance Requirements	01 89 16	
	Lighting Levels Athletic Surfaces	01 89 16 32 18 00	
	Baseball Field Surfacing	32 18 23.13	
	Field Sport Surfacing	32 18 23.23	
	Running Track Surfacing	32 18 23.33	
	Tennis Court Surfacing	32 18 23.53	
	Athletic Court Fencing	00.04.45.55	
	Tennis Court Wind Procker	32 31 13.26	
	Tennis Court Wind Breaker Athletic Equipment	32 31 13.29	
	Athletic Field Equipment	11 68 33	
	Exterior Athletic Equipment	11 68 23	
	Exterior Scoreboards	11 68 43	

			G SHEWORK
Number	Тпше	MF NUMBER	EXPLANATION
	Exterior Athletic Lighting See Also: Athletic Flooring: C2030.80. Athletic Equipment: E1070.50. Athletic Rooms: F1010.50. Grandstands and Bleachers: F1020.40. Athletic & Recreational Special Construction: F1060. Site Lighting: G4050.	26 56 68	
G2050.30	Recreational Areas		Includes: Exterior surfacing, fencing, equipment and structures, and lighting for recreational areas.
	Recreational Areas Performance Requirements Lighting Levels Recreational Surfaces Recreational Court Surfacing Recreational Court Fences and Gates Recreational Area Lighting See Also: Site Lighting: G4050.	01 89 16 01 89 16 32 18 00 32 18 23.43 32 31 13.23 26 56 00	
G2050.50	Playfield Areas		Includes: Exterior surfacing, equipment and
<b>G2060</b> G2060.10	Play Areas Performance Requirements Lighting Levels Playfield Surfacing Synthetic Resilient Surfacing Playfield Equipment and Structures Playground Equipment Play Structures Playfield Lighting See Also: Site Lighting: G4050.  Site Development Exterior Fountains  Exterior Fountains Performance Requirements Exterior Fountain Plumbing Systems Exterior Fountain Equipment Exterior Fountain Water Treatment Exterior Fountain Pumps Exterior Fountain Equipment Controls	01 89 16 01 89 16 32 18 16 11 68 00 11 68 13 11 68 16 26 56 00 13 12 13 01 89 16 22 52 00 22 52 19 22 52 16 22 52 23	Includes: Exterior decorative or functional manufactured fountains.
	Exterior Fountain Piping System Exterior Fountain Specialties See Also: Interior Fountains: F1050.20.	22 52 13	
G2060.20	Fences and Gates	32 31 00	Includes: Exterior fences and gates. Also includes cattle guards.
	Fences and Gates Performance Requirements Security Level Gate Operators Chain Link Fences and Gates Welded Wire Fences and Gates Decorative Metal Fences and Gates Plastic Fences and Gates Wire Fences and Gates Wood Fences and Gates	01 89 16 32 31 11 32 31 13 32 31 16 32 31 19 32 31 23 32 31 26 32 31 29	morados oditio guards.

Number		ME N	EVDI ANATION
NUMBER	TITLE	MF NUMBER	EXPLANATION
	Cattle Guards	32 31 53	
	See Also:		
	Exterior Gates: B2050.70		
	Interior Gates: C1040.50		
C2060 25	Temporary Fencing: Z1050.40.	12.02.00	Included Manufactured site furniture and
G2060.25	Site Furnishings	12 93 00	Includes: Manufactured site furniture and fixtures.
	See Also:		lixtures.
	Planting Accessories: G2080.		
	Tree Grates: G2080.		
	Bicycle Racks	12 93 13	
	Trash and Litter Receptors	12 93 23	
	Planters	12 93 33	
	Site Seating and Tables	12 93 43	
G2060.30	Exterior Signage	10 14 00	Includes: Exterior signs with the exception of
			roadway and parking lot signage.
	See Also:		
	Traffic Signage: G2010.		
	Parking Lot Traffic Signage: G2020.		
	Temporary Project Signage:		
00000 05	Z1050.70.	40.75.00	Includes Plane 1 ( )
G2060.35	Flagpoles	10 75 00	Includes: Flagpoles of metal, wood, and
			fiberglass, including concrete bases and accessories.
	Elagnolas Porformanas Paguiromenta	01 89 16	accessories.
	Flagpoles Performance Requirements Wind Load Capacity	01 89 16	
	Automatic Flagpoles	10 75 13	
	Ground-Set Flagpoles	10 75 16	
	Nautical Flagpoles	10 75 19	
	Wall-Mounted Flagpoles	10 75 23	
	See Also:		
	Interior Flags and Banners:		
	C1090.90.		
G2060.40	Covers and Shelters	10 73 00	Includes: Manufactured covers and shelters.
	See Also:		
	Parking Lot Appurtenances: G2020.		
	Covers and Shelters Performance Requirements		
	Load Capacity	01 89 16	
	Attendant Booths		
	Site Constructed Attendant Booths		
	Manufactured Attendant Booths	10.70.00	
	Car Shelters	10 73 23	
	Walkway Coverings Transportation Stop Shelters	10 73 26 10 73 43	
G2060 4F	Exterior Gas Lighting	10 73 43	
G2000.45	See Also:	10 04 13	
	Interior Gas Lighting: C1090.45.		
G2060.50	Site Equipment		Includes: Equipment located on the site, such
	15 1 - 5 - 5		as car washing, banking, theater equipment,
			and other freestanding equipment.
	Banking Equipment		-
	Automatic Banking Systems	11 17 16	
G2060.60	Retaining Walls	32 32 00	Includes: Retaining walls associated with site
			construction. Includes Subdrainage.
	Retaining Walls Performance Requirements	01 89 16	
	Lateral Earth Pressures	01 89 16	
	Cast-In-Place Concrete Retaining Walls	32 32 13	
	Precast Concrete Retaining Walls	32 32 16	

				G SHEWORK
Number	TITLE		MF NUMBER	EXPLANATION
	Unit Masor	nry Retaining Walls	32 32 19	
		Retaining Walls	32 32 23	
		Retaining Walls	32 32 26	
		taining Walls	32 32 29	
		_	32 32 29	
	Reillioicea	Soil Retaining Walls	32 32 34	
		See Also:		
		Reinforced Soil: G1070.50.		
	Gabion Re	taining Walls	32 32 36	
		See Also:		
		Gabions: G1070.60.		
	Soldier-Bea	am Retaining Walls	32 32 43	
	Stone Reta	aining Walls	32 32 53	
	Retaining V	Wall Subdrainage	33 46 33	
		See Also:		
		Subdrainage: G3030.60.		
G2060.70	Site Bridges		32 34 00	Includes: Fabricated and constructed brides for
	A. 5.11			foot and vehicular travel on a facility site.
	_	s Performance Requirements	01 89 16	
		oad Capacity	01 89 16	
	Pedestrian	Bridges	32 34 13	
	Vehicular E	Bridges	32 34 23	
		See Also:		
		Temporary Bridges: Z1050.25.		
G2060.80	Site Screening	Devices	32 35 00	Includes: Self-supporting walls for noise control
	Screens ar	ad Louwers	32 35 13	and privacy.
	ocieciis ai	See Also:	32 33 13	
		Louvered Equipment Screens:		
		B2010.60.		
		Exterior Door Louvers: B2050.90.		
		Exterior Fixed Grilles and Screens:		
		B2080.10.		
		Interior Louvers: C1090.15.		
		Interior Door Louvers: C2030.90.		
	Sound Bar		32 35 16	
G2060.85	Site Specialties		32 39 00	
	Metal Bolla	ards	32 39 13	
G2080	Landscaping			
		See:		
		Horticultural Equipment: E1090.40.		
G2080.10	Planting Irrigati		32 84 00	Includes: Excavation and backfill, piping,
				equipment, and accessories.
	Planting Irr	igation Performance Requirements	01 89 16	
	Irrigation P	-	32 82 00	
	Drip Irrigati	· · · · · ·	32 84 13	
	Sprinkler S		32 84 23	
	Oprilikier O	See Also:	32 04 23	
		Agricultural Irrigation: E1090.40.		
		-		
		Site Irrigation Water Distribution: G3010.50.		
G2080 20	Turf and Grass		32 92 00	Includes: Lawns and grasses including seeding
G2000.20	run anu Giass		JZ JZ UU	and sodding.
	Hydro-Mulo	ching	32 92 13	-
	Plugging	<u> </u>	32 92 16	
	Seeding		32 92 19	
	Sodding		32 92 23	
	Sprigging		32 92 26	
	Sprigging		JZ JZ ZU	

G SHEWO			
Number	Тітье	MF NUMBER	EXPLANATION
G2080.30	Plants	32 93 00	Includes: Ground covers, plants and bulbs, shrubs, and trees. Includes planting accessories such as tree grates and prefabricated planters.
	Ground Covers	32 93 13	
	Plants and Bulbs	32 93 23	
	Shrubs	32 93 33	
	Trees	32 93 43	
G2080.50	Planting Accessories	32 94 00	Includes: Accessories to separate and protect exterior plants.
	Landscape Edging	32 94 13	•
	Landscape Timbers	32 94 16	
	Planters	32 94 33	
	Tree Grates	32 94 43	
	Tree Grids	32 94 46	
	Decorative Landscape Boulders Vertical Planting Nets and Grids		
G2080 70	Landscape Lighting	26 56 26	
02000.10	See Also: Site Lighting: G4050.	20 00 20	
G2080.80	Landscaping Activities		
	Planting Preparation	32 91 00	
	Transplanting	32 96 00	Includes: Relocation of existing shrubs and trees including excavation and replanting.
	See Also:		area meraamig enearamen ama replammig.
	Tree and Shrub Removal and Trimming: G1010. Temporary Tree and Plant Protection: Z1050.		
G30	LIQUID AND GAS SITE UTILITIES		
030	Site Plumbing Utilities Performance  See Also:	01 89 19	
00040	Utilities Grounding: G4010.70.	00.40.00	Landa de la Matan distribuction for de mantin
G3010	Water Utilities	33 10 00	Includes: Water distribution for domestic consumption, fire fighting, and irrigation for a facility site and for multiple facilities. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.
	See Also:		
	Trenching and Backfilling: G1070.20.		
	Supplementary Components: G3090.10.		
G3010.10	Site Domestic Water Distribution		Includes: Supply wells, piping, equipment, storage tanks, and water ponds and reservoirs.
	Site Domestic Water Distribution Performance Requirements	01 89 19	
	Water Supply Wells	22 24 22	
	Water Supply Wells	33 21 00	
	Water Distribution Piping	33 11 00	
	Water Distribution Equipment	33 12 00	
	Water Service Connections	33 12 13	
	Water Distribution Valves	33 12 16	
	Fire Hydrants	33 12 19	
	Water Pumping Stations	33 12 23	
	Water Metering	33 12 33	

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NUMBER	TITLE	MF NUMBER	EXPLANATION
	Disinfecting of Water Distribution	33 13 00	
	Water Storage Tanks	33 16 00	
	Water Distribution Ponds	33 47 19.13	
	Water Distribution Pond Liners	33 47 13.13	
	Water Distribution Fond Covers	33 47 16.13	
		33 47 10.13	
	See Also:		
	Domestic Water Distribution:		
00040.00	D2010.		
G3010.30	Site Fire Protection Water Distribution		Includes: Supply wells, piping, equipment, storage tanks, and water ponds and reservoirs.
	Site Fire Protection Water Distribution	01 89 19	storage tarks, and water portes and reservoirs.
	Water Utility Service	01 03 13	
	Water Supply Wells	33 21 00	
	Water Distribution Piping	33 11 19	
	Water Distribution Equipment	33 12 00	Includes: Systems for transmission and
	water distribution Equipment	33 12 00	Includes: Systems for transmission and distribution of fire protection water outside the
			building. Utility piping materials, utility
			structures, valves, hydrants, excavation,
			bedding, backfill, and compaction. Testing and
			flushing.
	Water Service Connections	22 12 12	naoning.
		33 12 13	
	Water Distribution Valves	33 12 16	
	Fire Hydrants	33 12 19	
	Water Pumping Stations	33 12 23	
	Water Metering	33 12 33	
	Water Storage Tanks	33 16 00	
	Fire Protection Water Ponds	33 47 19.33	
	Water Pand Cavers	33 47 13.13	
	Water Pond Covers	33 47 16.13	
	See Also:		
	Water Based Fire-Suppression:		
00040.50	D4010.10.		la de de complexe de la cipia de continue de
G3010.50	Site Irrigation Water Distribution		Includes: Supply wells, piping, equipment, storage tanks, and water ponds and reservoirs.
	Site Irrigation Water Distribution Performance	01 89 19	storage tanks, and water ponds and reservoirs.
	Water Utility Service	01 00 10	
	Irrigation Water Wells	33 21 16	
	Water Distribution Piping	33 11 00	
	Water Distribution Equipment	33 12 00	
	Water Service Connections	33 12 13	
	Water Distribution Valves	33 12 16	
	Water Pumping Stations Water Metering	33 12 23 33 12 33	
	<del>-</del>	33 16 00	
	Water Storage Tanks Water Ponds and Reservoirs	33 16 00	
	Water Ponds and Reservoir Liners	33 47 19	
	Water Pond and Reservoir Covers	33 47 16	
	See Also:		
CSUSU	Planting Irrigation: G2080.10.	33 30 00	Includes: Capitary sources for a facility site
G3020	Sanitary Sewerage Utilities	33 30 00	Includes: Sanitary sewerage for a facility site and for multiple facilities. Includes piping,
			septic tanks that serve multiple facilities,
			structures, and lagoons. Includes trenching and
			backfilling. Includes Liquid and Gas Site
			Utilities Supplementary Components as
			appropriate.

Number	TITLE	MF Number	EXPLANATION
	Sanitary Sewerage Utility Performance See Also: Sanitary Drainage: D2020. Trenching and Backfilling: G1070.20. Supplementary Components: G3090.10.	01 89 19	
	Sanitary Sewerage Utility Connection		
G3020.20	Sanitary Sewerage Piping	33 31 00	
	Low Pressure Sanitary Sewerage	33 33 00	
	Sanitary Sewerage Force Mains	33 34 00	
G3020.40	Utility Septic Tanks	33 36 00	Includes: Systems for collecting sanitary waste on-site. Piping materials, excavation, bedding, backfill, compaction, and testing.
	Septic Tanks and Effluent Wet Wells	33 36 13	
	Septic Tank Effluent Pumps	33 36 16	
	Drainage Field	33 36 33	
	See Also:		
	Facility Septic Tanks: D2020.10.		
G3020.50	Sanitary Sewerage Structures	33 39 00	
	Sewerage Manholes, Frames, and Covers	33 39 13	
C2020 C0	Sewerage Cleanouts	33 39 23	
G3020.60 G3030	Sanitary Sewerage Lagoons Storm Drainage Utilities	33 47 23 33 40 00	Includes: Storm drainage for surface or
33030	Storm Brainage Officies	33 40 00	combination of surface and subsurface water for a facility site or for multiple facilities. Includes piping, culverts, water drains, drainage pumps, Subdrainage, and storm drainage ponds and reservoirs. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.
	Storm Drainage Utility Performance See Also: Trenching and Backfilling:	01 89 19	
	G1070.20. Supplementary Components: G3090.10.		
G3030 10	Storm Drainage Utility Connection		
	Storm Drainage Piping	33 41 00	
G3030.30		33 42 00	
	Pipe Culverts	33 42 13	
	Concrete Culverts	33 42 16	
G3030.40	Site Storm Water Drains	33 44 00	
	Area Drains	33 44 13	
	Trench Drains	33 44 16	
	Storm Water Treatment See Also: Facility Stormwater Drains: D2030.30.	33 44 19	
G3030.50	Storm Drainage Pumps	33 45 00	
G3030.60	Site Subdrainage	33 46 00	Includes: Subdrainage for interception and removal of water.
	Subdrainage Piping	33 46 16	
	Drainage Layers	33 46 23	

			- Onework
Number	Тіпце	MF NUMBER	EXPLANATION
	Geotextile Subsurface Drainage Filtration See Also: Foundation Drainage: A6010.10. Underslab Drainage: A6010.20. Retaining Wall Drainage: G2060.60.	33 46 26	
G3030.70	Storm Drainage Ponds and Reservoirs Stabilization Ponds Retention Basins Leaching Pits Water Pond and Reservoir Liners See Also: Earth Dams: G1070.	33 47 26 33 47 26.13 33 47 26.16 33 47 26.19 33 47 13	
G3050	Site Energy Distribution		Includes: Energy distribution for a facility site or multiple facilities. Includes hydronic heating, steam energy, and hydronic cooling distribution. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.
	See Also: Facility Distribution Systems: D3050.		
	Trenching and Backfilling: G1070.20. Supplementary Components:		
	G3090.10.		
G3050.10	Site Hydronic Heating Distribution	33 61 00	Includes: Hot water piping, valves, piping specialties, pumps, and other components serving a facility site or multiple facilities.
	Site Hydronic Heating Distribution Performance Requirements	01 89 23	
	Heating Utility Connection	00.04.40	
	Underground Heating Distribution Aboveground Heating Distribution	33 61 13 33 61 23	
G3050.20	Site Steam Energy Distribution	33 63 00	Includes: Steam and condensate piping, valves, piping specialties, and other components serving a facility site or multiple facilities.
	Site Steam Distribution Performance Requirements	01 89 23	
G3050.40	Steam Utility Connection Underground Steam and Condensate Aboveground Steam and Condensate Site Hydronic Cooling Distribution	33 63 13 33 63 23 33 61 00	Includes: Chilled condenser piping, valves, piping specialties, pumps, and other
			components serving a facility site or multiple facilities.
	Site Hydronic Cooling Distribution Performance Requirements	01 89 23	
	Cooling Utility Connection Underground Cooling Distribution	33 61 13	
	Aboveground Cooling Distribution	33 61 23	

NUMBER	Тітье	MF NUMBER	EXPLANATION
G3060	Site Fuel Distribution		Includes: Gas, fuel-oil, gasoline, diesel fuel, and aviation fuel distribution for a facility site or multiple facilities. Includes trenching and backfilling. Includes Liquid and Gas Site Utilities Supplementary Components as appropriate.
	See Also: Facility Fuel Systems: D3010. Trenching and Backfilling: G1070.20. Supplementary Components:		
	G3090.10.		
G3060.10	Site Gas Distribution	33 51 00	Includes: Gas piping, valves, piping specialties, pumps, storage tanks, and other components serving a facility site or multiple facilities.
	Site Gas Distribution Performance Requirements Gas Utility Connection	01 89 23	
	Natural-Gas Distribution Liquefied Petroleum Gas Distribution	33 51 00	
	Compressed Gases Storage Tanks  See Also:	33 56 53	
	Fuel-Gas Detection and Alarm: D7050.30.		
G3060.20	Site Fuel-Oil Distribution	33 52 13	Includes: Fuel-oil water piping, valves, piping specialties, pumps, storage tanks, and other components serving a facility site or multiple facilities.
	Site Fuel-Oil Distribution Performance	01 89 23	
	Fuel-Oil Piping	33 52 13.13	
	Fuel-Oil Pumps	33 52 13.23	
	Fuel-Oil Storage Tanks See Also: Fuel-Oil Detection and Alarm:	33 56 00	
	D7050.40.		
G3060.30	Site Gasoline Distribution	33 52 16	Includes: Gasoline piping, valves, piping specialties, pumps, storage tanks, and other components serving a facility site or multiple facilities.
	Site Gasoline Distribution Performance	01 89 23	
	Gasoline Piping	33 52 16.13	
	Gasoline Pumps	33 52 16.23	
G3060.40	Gasoline Storage Tanks Site Diesel Fuel Distribution	33 56 00 33 52 19	Includes: Diesel fuel piping, valves, piping specialties, pumps, storage tanks, and other components serving a facility site or multiple facilities.
	Site Diesel Fuel Distribution Performance	01 89 23	
	Diesel Fuel Piping	33 52 19.13	
	Diesel Fuel Storage Tanks	33 52 19.23 33 56 00	
G3060.60	Diesel Fuel Storage Tanks Site Aviation Fuel Distribution	33 56 00	Includes: Aviation fuel piping, valves, piping specialties, pumps, storage tanks, and other components serving a facility site or multiple facilities.
	Site Aviation Fuel Distribution Performance	01 89 23	
	Aviation Fuel Piping	33 52 43.13	
	Aviation Fuel Pumps	33 52 43.23	
	Aviation Fuel Grounding	33 52 43.19	

			G SITEWORK
Number	Тітье	MF NUMBER	EXPLANATION
G3090	Liquid and Gas Site Utilities Supplementary Components		Includes: Common work results for utilities and instrumentation and control to be included in liquid and gas utility elements above as appropriate.
G3090.10	Supplementary Components Common Work Results for Utilities Manholes and Structures Utility Structures Pressure Piping Tied Joint Restraint System Trenchless Utility Installations Utility Identification Instrumentation and Control	33 05 00 33 05 13 33 05 16 33 05 19 33 05 23 33 05 26 33 09 00	
G40	<b>ELECTRICAL SITE IMPROVEMENTS</b>		
	Site Electrical Utilities Performance	01 89 26	
G4010	Site Electric Distribution Systems		Includes: Equipment and related facilities for site transformation from site service voltage to site distribution voltage, including unit substations, transformers, circuit breakers, interrupter switches, cutouts and fuses, associated switchgear and accessories, concrete foundations, metal framing, fence enclosures, line structures, surface pavement, insulators, lightning arrestors, and grounding systems.
	Site Electric Distribution System Performance Requirements	01 89 26	
	See Also: Building Electrical Service and Distribution: D5020. Demonstration and Training: Z1070. Startup and Adjusting: Z1070.		
G4010.10	Electrical Utility Services	33 71 73	
G4010.20	Electric Transmission and Distribution	33 71 00	Includes: Structures and wiring to distribute electrical power to and across sites.
	Electrical Utility Towers  See Also:  Towers: F1020.70  Towers Grounding: G4010.70.  Communications Towers:  G5010.10.	33 71 13	
	Electrical Utility Poles  See Also:  Communications Utility Poles:  G5010.10.	33 71 16	
	Underground Ducts and Manholes	33 71 19	
	Insulators and Fittings	33 71 23	
	Transmission and Distribution Equipment	33 71 26	
	Wiring	33 71 39	
	Direct Current Transmission	33 71 49 33 71 53	
	Transmission and Distribution Specialties	33 71 83	
G4010.30	Electrical Substations	33 72 00	Includes: Assembly of structures, switches, circuit breakers, buses, and transformers to switch circuits and convert power from transmission voltages to distribution voltage.
	Deadend Structures	33 72 13	
	Structural Bus Supports	33 72 23	

Number Title		MF NUMBER	EXPLANATION
.5	Substation Bus Assemblies	33 72 26	
-	Control House Equipment	33 72 33	
	Substation Control Wiring	33 72 43	
	rical Transformers	33 73 00	Includes: Transformers for substation
			applications to transform transmission voltage to distribution voltage.
	rical Switchgear and Protection Devices	33 75 00 33 77 00	
	Circuit Breakers		
	Fusible Interrupter Switchgear	33 77 26	
	Cutouts	33 77 33	
	Tuses		
	Surge Arresters Shunt Arresters		
	Reclosers	33 77 53	
G4010.70 Site (		33 79 00	Includes: Conducting connection between an
04010.70 Oile (	Stourium	33 73 00	element and a ground electrode placed in the earth to provide a safe path for the dissipation of fault currents, lightning strikes, static
			discharges, EMI and RFI signals and interference.
	See Also:		
	Facility Grounding: D5020.70.		
S	Site Improvements Grounding	33 79 13	
	See Also:		
т	Site Improvements: G20.	33 79 16	
'	ower Grounding See Also:	33 /9 10	
	Towers: F1020.70.		
ι	Itilities Grounding	33 79 19	
	See Also:	00.10.10	
	Liquid and Gas Site Utilities: G30		
L	Itility Substation Grounding	33 79 23	
	See Also:		
	Electrical Substations: G4010.20.		
	Site Grounding Conductors	33 79 83	
S	Site Lightning Protection  See Also:	33 79 93	
C4040.00 Fl4	Lightning Protection: D5080.10.	22.00.70	
	rical Distribution System Instrumentation and	33 09 70	
<b>G4050 Site</b> G4050.10 Area	Lighting Lighting	26 56 29 26 56 23	Includes: Underground and overhead electric
G4030.10 Alea	Lighting	20 30 23	feeders and branch circuits. Transformers, wire, conduits, ductbanks, manholes, poles, luminaries, controls, grounding system, excavation, backfilling, and compaction.
^	uroa Lighting Porformance Poquiromente		oxogration, backlining, and compaction.
P	Area Lighting Performance Requirements Lighting Levels		
	See Also:		
	Interior Lighting: D5040.		
	Roadway Lighting: G2010.70		
	Parking Lot Lighting: G2020.70.		
	Pedestrian Plaza and Walkway		
	Lighting: G2030.70.		
	Airfield Lighting: G2040.70.		
	Athletic, Recreation, and Playfield		
	Area Lighting: G2050.		
	Landscape Lighting: G2080.70.		

			G SHEWORK
Number	Тітье	MF NUMBER	EXPLANATION
G4050.20	Flood Lighting	26 56 36	
	Building Illumination		
G4050.90	Exterior Lighting Supplementary Components		
	Lighting Poles and Standards	26 56 13	
	Site Lighting Instrumentation and Controls	26 09 00	
G50	SITE COMMUNICATIONS		
G5010	Site Communications Systems	33 80 00	Includes: Communications distribution for a
			facility site or multiple facilities.
	See Also:		
	Data Communications Systems:		
	D6010.		
	Voice Communications Systems: D6020.		
	Audio-Video Communications:		
	D6030.		
	Distributed Communications and		
	Monitoring: D6060.		
G5010.10	Site Communications Structures	33 81 00	Includes: Structures for aboveground and
			underground distribution of communications
		00.04.40	cables and signals.
	Communications Transmission Towers Antenna Towers	33 81 13 33 81 16	
	See Also:	33 61 16	
	Towers: F1020.70		
	Electrical Utility Towers: G4010.20.		
	Towers Grounding: G4010.70.		
	Communications Utility Poles	33 81 19	
	See Also:		
	Electrical Utility Poles: G4010.20.		
	Aerial Cable Installation Hardware	33 81 23	
	Communications Underground Ducts, Manholes, and Handholes	33 81 26	
	Communications Vaults, Pedestal, and	33 81 29	
	Enclosures	33 01 23	
	Communications Blowers, Fans, and	33 81 33	
	Ventilation	-	
G5010.30	Site Communications Distribution	33 82 00	Includes: Copper and optical fiber outside
			cable plant.
	Copper Communications Distribution Cabling	33 82 13	
	Optical Fiber Communications Distribution	33 82 23	
	Coaxial Communications Distribution Cabling	33 82 33 33 82 43	
	Grounding and Bonding for Communications Cable Pressurization Equipment	33 82 43 33 82 46	
	Cleaning, Lubrication, and Restoration Chemicals		
G5010.50	Wireless Communications Distribution	33 83 00	Includes: External wireless communications
		<del>-</del>	systems.
	Laser Transmitter and Receivers	33 83 13	
	Microwave Transmitter and Receivers	33 83 16	
	Infrared Transmitter and Receivers	33 83 19	
F- 0" -	UHF/VHF Transmitter and Receivers	33 83 23	
For Site E	Electronic Safety and Security Systems		
	See Also: Access Control and Intrusion		
	Detection: D7010.		
	Electronic Surveillance: D7030.		
	Detection and Alarm: D7050.		
	Electronic Monitoring and Control:		
	D7070.		

Number	TITLE	MF NUMBER	Explanation
G90	MISCELLANEOUS SITE CONSTRUC	TION	
030	Other Site Construction Performance	01 89 29	
G9010	Tunnels	31 70 00	Includes: Vehicular, pedestrian, and service tunnels. Includes tunnel boring, bracing and jacking work, linings and casing, grouting support systems, boring machines, and control and spoil removal systems. Includes Tunnel Construction Related Activities as appropriate.
G9010.10	Tunnel Performance Requirements Vehicular Tunnels	01 89 29	Includes: Tunnels to allow for movement of
	Vahigular Tunnal Support Systems	21 72 00	vehicles.
	Vehicular Tunnel Support Systems Rock Reinforcement and Initial Support	31 72 00 31 72 13	
	Steel Ribs and Lagging	31 72 13	
	Vehicular Tunnel Grouting	31 72 10	
	Cement Tunnel Grouting	31 73 13	
	Chemical Tunnel Grouting	31 73 16	
	Vehicular Tunnel Construction	31 74 00	
	Cast-In-Place Concrete Tunnel Lining	31 74 00	
	Precast Concrete Tunnel Lining	31 74 16	
	Shotcrete Tunnel Lining	31 74 19	
	Shaft Construction	31 75 00	
	Cast-In-Place Concrete Shaft Lining	31 75 13	
	Precast Concrete Shaft Lining	31 75 16	
	Vehicular Submersible Tube Tunnels	31 77 00	
G9010.20	Pedestrian Tunnels		Includes: Tunnels to allow for the movement of pedestrians.
	Pedestrian Tunnel Support Systems	31 72 00	1
	Rock Reinforcement and Initial Support	31 72 13	
	Steel Ribs and Lagging	31 72 16	
	Pedestrian Tunnel Grouting	31 73 00	
	Cement Tunnel Grouting	31 73 13	
	Chemical Tunnel Grouting	31 73 16	
	Pedestrian Tunnel Construction	31 74 00	
	Cast-In-Place Concrete Tunnel Lining	31 74 13	
	Precast Concrete Tunnel Lining	31 74 16	
	Shotcrete Tunnel Lining	31 74 19	
	Shaft Construction	31 75 00	
	Cast-In-Place Concrete Shaft Lining	31 75 13	
	Precast Concrete Shaft Lining	31 75 16	
G9010.40	Pedestrian Submersible Tube Tunnels Service Tunnels	31 77 00	Includes: Tunnels to house utility systems and
	Candon Tunnal Cunnart Cuntares	24 72 00	to connect different facilities on site.
	Service Tunnel Support Systems	31 72 00	
	Rock Reinforcement and Initial Support	31 72 13	
	Steel Ribs and Lagging	31 72 16	
	Service Tunnel Grouting	31 73 00 31 73 13	
	Cement Tunnel Grouting Chemical Tunnel Grouting	31 73 13	
	Service Tunnel Construction	31 73 10	
	Cast-In-Place Concrete Tunnel Lining	31 74 00	
	Precast Concrete Tunnel Lining	31 74 13	
	Shotcrete Tunnel Lining	31 74 10	
	Shaft Construction	31 75 00	
	Cast-In-Place Concrete Shaft Lining	31 75 13	
	Precast Concrete Shaft Lining	31 75 16	
	Service Submersible Tube Tunnels	31 77 00	

NUMBER	TITLE	MF Number	EXPLANATION
G9010.90	Tunnel Construction Related Activities		Includes: Tunnel excavation and other activities related to tunnel construction to be included with tunnel construction above as appropriate.
	Tunnel Excavation	31 71 00	
	Shield Driving Tunnel Excavation	31 71 13	
	Tunnel Drilling and Blasting	31 71 16	
	Tunnel Boring Machine	31 71 19	
	Tunnel Cut and Cover	31 71 23	

NUMBER	Тітье	MF NUMBER	EXPLANATION
Z10	GENERAL REQUIREMENTS  See Also: Project Summary: 1010. Project Program: 1020. Project Criteria: 1030. Existing Conditions: 1040.	01 00 00	
Z1010	Owner's Work: 1050.  Price and Payment Procedures	01 20 00	
Z1010.10	Allowances	01 21 00	Includes: Allowances included in the elemental estimate or the contract for systems or assemblies that are not defined at the time the estimate or contract is prepared.
	Cash Allowances	01 21 13	
	Contingency Allowances	01 21 16	
	Testing and Inspection Allowances	01 21 19	
	Installation Allowances	01 21 23	
	Product Allowances	01 21 26	
	Quantity Allowances	01 21 29	
74040.00	Time Allowances	01 21 43	
Z1010.20	Unit Prices	01 22 00	Includes: Unit prices included in the elemental estimate or the contract for portions of work with quantities that are not defined at the time the estimate or contract is prepared.
	Unit Price Measurement	01 22 13	
	Unit Price Payment	01 22 16	
Z1010.30	Alternates	01 23 00	Includes: Alternates included in the elemental estimate or the contract to add or delete work from the base project.
Z1010.40	Value Analysis	01 24 00	Includes: Analysis of components for elemental estimate or the contract on basis of value versus cost and time.
	Value Engineering	01 24 13	
Z1010.50	Substitution Procedures	01 25 00	Includes: Requirements for consideration of substitutions.
Z1010.60	Contract Modification Procedures	01 26 00	Includes: Requirements for making clarifications and proposals for change, and modifications to the contract documents.
	Requests for Interpretation	01 26 13	
	Clarification Notices	01 26 19	
	Minor Changes in the Work	01 26 33	
	Supplemental Instructions	01 26 36	
	Field Orders	01 26 39	
	Amendments	01 26 43	
	Construction Change Directives	01 26 46	
	Work Change Directives	01 26 49	
	Proposal Worksheet Summaries	01 26 53 01 26 54	
	Proposal Worksheet Summaries Change Order Requests	01 26 54	
	Change Order Requests  Change Orders	01 26 57	
Z1010.70	Payment Procedures	01 29 00	Includes: Requirements for process or schedules of values, progress payments, and final payment.

Schedule of Values   Progress Payment Procedures   Progress Procedures   Progress Payment Procedures   Progress Progress Progress   Progress Progress Progress Progress   Progress Progress Progress   Progress Progress Progress   Progress Progress Progress   Progress Progress Progress   Progress Progress Progress   Progress Progress Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress   Progress	Number	Тпш	MF NUMBER	EXPLANATION
Progress Payment Procedures for Testing Laboratory   12.9 87		Calcadula of Values	04 00 70	
Payment Procedures for Tosting Laboratory   29 83   Services   S				
2102.0.1 b         Administrative Requirements         01 30 00 on 13 100 o		•	01 23 00	
Project Management and Coordination   21 31 00   Includes: Requirements for administration of construction contracts and coordination and scheduling of various parts of the work among the contractors and subcontractors and the owner.	<i>7</i> 1020		01 30 00	
construction contracts and coordination and scheduling of various parts of the work among the contractors and subcontractors. Includes coordination with separate contractors and the owner.  Project Coordination				Includes: Requirements for administration of
the contractors and subcontractors. Includes' coordination with separate contractors and the owner.  Project Management Field Supervision Footback State of		, 3		
coordination with separate contractors and the owner.  Project Management   01 31 00   Field Supervision   01 31 14   Multiple Contract Coordination   01 31 16   Project Web Site   01 31 23   Electronic Communication Protocols   01 31 26   Electronic Communication Protocols   01 32 00   Electronic Communication Progress Documentation   01 32 00   Submittal Schedule   01 32 13   Construction Progress Schedule   01 32 16   Submittals Schedule   01 32 16   Submittal Schedule   01 32 16   Submittal Procedures   01 33 16   Field Test Reporting   01 32 26   Photographic Documentation   01 32 28   Photographic Documentation   01 32 33   Video Monitoring and Documentation   01 33 13   Design Data   01 33 13   Design Data   01 33 13   Design Data   01 33 16   Field Test Reporting   01 33 26   Sustainable Design Requirements:				scheduling of various parts of the work among
owner.  Project Management   101 31 00   Field Supervision   131 14   Facility Services Coordination   131 14   Multiple Contract Coordination   131 14   Multiple Contract Coordination   131 16   Project Meetings   01 31 19   Forgiet Web Site   01 31 23   Electronic Communication Protocols   01 31 23   Electronic Communication Protocols   01 32 00   Forgiet Web Site   01 31 23   Electronic Communication Protocols   01 32 00   Forgiet Web Site   01 32 13   Construction Progress Documentation   01 32 00   Submittals Schedule   01 32 16   Submittals Schedule   01 32 16   Submittals Schedule   01 32 16   Survey and Layout Data   01 32 23   Construction Progress Reporting   01 32 26   Periodic Work Observation   01 32 33   Video Monitoring and Documentation   01 32 33   Video Monitoring and Documentation   01 32 33   Video Monitoring and Documentation   01 33 13   Design Data   01 33 13   Design Data   01 33 13   Design Data   01 33 16   Field Test Reporting   01 33 16   Sustainable Design Reporting   01 33 26   Sustainable Des				
Project Management				
Field Supervision				owner.
Project Coordination		· · · · · · · · · · · · · · · · · · ·	01 31 00	
Facility Services Coordination		·	04 04 40	
Multiple Contract Coordination				
Project Web Site Electronic Communication Protocols 01 31 23   Electronic Communication Protocols 01 31 26   Electronic Communication Protocols 01 32 20    Scheduling of Work 01 32 13   Construction Progress Documentation 01 32 13   Endough Schedule 01 32 14   Endough Schedule 01 32 19   Endough Survey and Layout Data 01 32 23   Endough End				
Project Web Site Electronic Communication Protocols 01 31 23 Electronic Communication Protocols 01 31 26 Electronic Communication Protocols 01 32 20 Uncludes: Requirements for scheduling, recording, and reporting progress.  Scheduling of Work 01 32 13 Construction Progress Schedule 01 32 19 Submittals Schedule 01 32 19 Survey and Layout Data 01 32 23 Construction Progress Reporting 01 32 25 Periodic Work Observation 01 32 29 Photographic Documentation 01 32 29 Photographic Documentation 01 32 36 Video Monitoring and Documentation 01 32 36 Video Monitoring and Documentation 01 33 13 Video Monitoring and Documentation 01 33 13 Design Data 01 33 16 Field Test Reporting 01 33 16 Field Test Reporting 01 33 16 Source Quality Control Reporting 01 33 26 Source Quality Control Reporting 01 35 00 Source Quality Control Reporting 01 35 00 Source Quality Control Reporting 01 35 00 Source Quality Control Reporting 01 35 13 Source Quality Control Reporti				
Electronic Communication Protocols  21020.30 Construction Progress Documentation  21020.30 Construction Progress Documentation  21020.30 Construction Progress Documentation  21020.30 Scheduling of Work  21020.30 Construction Progress Schedule  21020.30 Submittals Schedule  21020.30 Construction Progress Schedule  21020.30 Construction Progress Reporting  21020.30 Periodic Work Observation  21020.30 Photographic Documentation  21020.30 Submittal Procedures  21020.30 Submittal Procedures  21020.30 Certificates  21020.30 Design Data  21020.30 Field Test Reporting  21020.30 Shop Drawings, Product Data, and Samples  21020.30 Source Quality Control Reporting  21020.30 Sustainable Design Reporting  21020.30 Sustainable Design Requirements:  21020.30 Sustainable Design Requirements:  21020.30 Special Procedures  21020.30 Spe				
Scheduling of Work Construction Progress Schedule Submittals Schedule Survey and Layout Data Construction Progress Reporting Periodic Work Observation Photographic Documentation Office 3 2 33 Video Monitoring and Documentation Office 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		•	01 31 26	
Scheduling of Work	Z1020.30	Construction Progress Documentation	01 32 00	Includes: Requirements for scheduling,
Construction Progress Schedule Submittals Schedule Survey and Layout Data Construction Progress Reporting Periodic Work Observation Video Monitoring and Documentation Video Monitoring in Video Monitoring Includes: Requirements for processing of submittals during the construction stage.  Certificates Design Data Pield Test Reporting Shop Drawings, Product Data, and Samples Video Test Reporting Source Quality Control Reporting Video Test Video				recording, and reporting progress.
Submittals Schedule				
Survey and Layout Data Construction Progress Reporting Periodic Work Observation Photographic Documentation Video Monitoring and Documentation O1 32 36  Z1020.50 Submittal Procedures O1 33 00 Includes: Requirements for processing of submittals during the construction stage.  Certificates Design Data Periodic Work Observation O1 32 36  Certificates O1 33 13 Design Data Periodic Work Observation O1 32 36  Certificates O1 33 13 Design Data Periodic Work Observation Obegin Data Periodic Work Observation Obegin Data Obegin Data Obegin Data Obegin Data Obegin Data Obegin Data Obegin Product Data, and Samples Source Quality Control Reporting O1 33 19 Sustainable Design Reporting O1 33 29 See Also: Sustainable Design Requirements: 1030.50. Sustainable Design Requirements: 1030.50. Sustainable Design Closeout Documentation: Z1070.70.  Z1020.70 Special Project Procedures O1 35 13 Airports O1 35 13.13 See Also: Airfields: G2040. Detention Facilities See Also: Exterior Detention Windows: B2020.50. Exterior Detention Doors:		<u> </u>		
Construction Progress Reporting Periodic Work Observation Photographic Documentation Of 32 29 Photographic Documentation Of 32 33 Video Monitoring and Documentation Of 32 36  Z1020.50 Submittal Procedures Of 33 13 Design Data Field Test Reporting Shop Drawings, Product Data, and Samples Of 33 13 Source Quality Control Reporting Sustainable Design Requirements: 1030.50 Sustainable Design Requirements: 1030.50 Sustainable Design Requirements: 1030.50 Sustainable Design Closeout Documentation: Z1070.70.  Z1020.70 Special Procedures Of 35 13 Airports See Also: Airfields: G2040. Detention Facilities See Also: Exterior Detention Doors:				
Periodic Work Observation				
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Z1020.50 Submittal Procedures 01 33 00 Includes: Requirements for processing of submittals during the construction stage.  Certificates		- ·		
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Special Project Procedures  Airports  O1 35 13  O1 35 13.13  See Also:  Airfields: G2040.  Detention Facilities  See Also:  Exterior Detention Windows:  B2020.50.  Exterior Detention Doors:	Z1020.70	Special Procedures	01 35 00	
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Detention Facilities 01 35 13.16  See Also:  Exterior Detention Windows:  B2020.50.  Exterior Detention Doors:		See Also:		
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Exterior Detention Doors:				
D2000.10.				
Interior Detention Windows:				
C1020.50.				
Interior Detention Doors: C1030.70.				

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NUMBER	Тітье	MF NUMBER	EXPLANATION	
	Detention Lighting: D5040.50. Detention Monitoring and Control: D7070. Detention Equipment: E1040.70. Detention Furniture: E2050.30.			
	Detention Cell Modules: F1010.10. Healthcare Facilities	01 35 13.19		
	See Also: Healthcare Plumbing Fixtures: D2010.60.			
	Process Support Plumbing Systems: D2060.			
	Healthcare Lighting: D5040.50. Healthcare Communications & Monitoring: D6060.30.			
	Healthcare Equipment: E1040.20. Healthcare Casework: E2010.30. Healthcare Furniture: E2050.30.			
	Clean Rooms	01 35 13.26		
	See Also:			
	Clean Rooms: F1010.50.			
	Contaminated Sites	01 35 13.43		
	See Also:			
	Site Remediation: G1050.	04.05.40		
	Alteration Project Procedures	01 35 16		
	Owner Safety Requirements	01 35 23 01 35 26		
	Governmental Safety Requirements Health, Safety, and Emergency Response	01 35 26		
	Procedures			
	Infection Control Procedures	01 35 33		
	Environmental Procedures	01 35 43		
	Indoor Air Quality Procedures	01 35 46		
	See Also:			
	Indoor Air Quality Requirements: 1030.56.			
	Security Procedures See Also:	01 35 53		
	Exterior Security Windows: B2020.50.			
	Exterior Security Doors: B2050.40. Exterior Security Gates: B2050.70. Interior Security Windows: C1020.50.			
	Interior Security Doors: C1030.70. Interior Security Gates: C1040.50. Security Ceiling Systems: C1070.70.			
	Security Mirrors and Domes: C1090.90.			
	Security Plumbing Fixtures: D2010.60.			
	Security Lighting: D5040.50. Electronic Safety and Security: D70. Interior Pedestrian Security			
	Equipment: E1010.70.			

Number	Тппе	MF Number	EXPLANATION
	Security Equipment: E1040.60.		
	Exterior Pedestrian Security		
	Equipment: G2030.80.		
	Temporary Security Barriers &		
	Enclosures: Z1050.40. Sustainability Certification Project Procedures	01 35 66	
	Historic Treatment Procedures	01 35 00	
	See Also:		
	Historic Restoration Requirements: 1030.70.		
	Selective Historic Demolition: F3030.70.		
Z1040	Quality Requirements	01 40 00	Includes: Procedures to measure and report the quality and performance of construction. Qualifications for fabricators, installers, manufacturers testing agencies and others involved in the construction. Field and source
			quality control.
Z1040.10	Regulatory Requirements	01 41 00	Includes: Information require for conformance to regulatory requirements including building
			codes, mechanical codes, electrical codes, zoning, and other regulations.
	Codes	01 41 13	
	Laws	01 41 16	
	Rules	01 41 19	
	Fees	01 41 23	
	Permits	01 41 26	
Z1040.30	References	01 42 00	Includes: Reference standards applicable to the project.
	Abbreviations and Acronyms	01 42 13	
	Definitions	01 42 16	
	Reference Standards	01 42 19	
Z1040.40	Quality Assurance	01 43 00	Includes: Requirements for proactive activities to assure the quality of construction before and during the execution of the work.
	Manufacturer Qualifications	01 43 13	-
	Supplier Qualifications	01 43 16	
	Fabricator Qualifications	01 43 19	
	Installer Qualifications	01 43 23	
	Testing and Inspecting Agency Qualifications	01 43 26	
	Code-Required Special Inspector Qualifications	01 43 29	
	Manufacturer's Field Services	01 43 33	
	Field Samples	01 43 36	
74040.00	Mockups	01 43 39	Includes Description of the proof of the section of
Z1040.80	Quality Control	01 45 00	Includes: Requirement for reactive activities to evaluate completed activities and elements for conformance with the requirements.
	Source Quality Control Procedures	01 45 13	
	Field Quality Control Procedures	01 45 16	
	Testing and Inspecting Services	01 45 23	
	Plant Inspection Procedures	01 45 26	
	Testing Laboratory Services	01 45 29	
	Code-Required Special Inspections and Procedures	01 45 33	

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NUMBER	TITLE	MF NUMBER	EXPLANATION
Z1050	Temporary Facilities and Controls	01 50 00	Includes: Requirements for installation, maintenance, and removal of temporary utilities, controls, and construction aids during construction.
Z1050.10	Temporary Utilities	01 51 00	Includes: Requirements for utilities used on site during construction.
	Temporary Electricity	01 51 13	-
	Temporary Fire Protection	01 51 16	
	Temporary Fuel Oil	01 51 19	
	Temporary Heating, Cooling, and Ventilating	01 51 23	
	Temporary Lighting	01 51 26	
	Temporary Natural Gas	01 51 29	
	Temporary Telecommunications	01 51 33	
	Temporary Water	01 51 36	
Z1050.20	Construction Facilities	01 52 00	Includes: Requirements for facilities used on site during construction.
	Field Offices and Sheds	01 52 13	
	First Aid Facilities	01 52 16	
	Sanitary Facilities	01 52 19	
Z1050.25	Temporary Construction	01 53 00	Includes: Requirements for temporary access facilities required during construction.
	Temporary Bridges	01 53 13	
	See Also: Site Bridges: G2060.70.		
	Temporary Decking	01 53 16	
	Temporary Overpasses	01 53 19	
	Temporary Ramps	01 53 23	
	Temporary Runarounds	01 53 26	
Z1050.30	Construction Aids	01 54 00	Includes: Requirements related to using tools and equipment during construction.
	Temporary Elevators	01 54 13	
	Temporary Hoists	01 54 16	
	Temporary Cranes	01 54 19	
	Temporary Scaffolding and Platforms	01 54 23	
	Temporary Swing Staging See Also:	01 54 26	
	Vertical Conveying Equipment: D1010.		
71050 05	Material Handling Systems: D1050.	01 55 00	Included: Dequirements for access and medicine
21050.35	Temporary Vehicular Access and Parking	01 55 00	Includes: Requirements for access and parking facilities required to accommodate construction of the owner's operations during construction.
	Temporary Access Roads	01 55 13	The second service ser
	Haul Routes	01 55 15	
	Temporary Parking Areas	01 55 10	
	See Also:	0.0010	
	Parking Lots: G2020.	01 55 00	
	Temporary Roads  See Also:  Roadways: G2010	01 55 23	
	Roadways: G2010. Traffic Control	01 55 26	
	Staging Areas	01 55 26	
Z1050.40	Temporary Barriers and Enclosures	01 55 29	Includes: Requirements and procedures for
21030.40	Temperary Damers and Endosures	01 00 00	protection of public, occupants, and spaces during construction.
	Temporary Air Barriers	01 56 13	-
	Temporary Dust Barriers	01 56 16	
	Temporary Noise Barriers	01 56 19	

Number	TITLE	MF Number	EXPLANATION
	Temporary Barricades	01 56 23	
	Temporary Fencing	01 56 26	
	See Also:		
	Fences and Gates: G2060.20.	04 50 00	
	Temporary Protective Walkways Temporary Security Barriers	01 56 29 01 56 33	
	Temporary Security Enclosures	01 56 36	
	See Also:		
	Exterior Security Windows: B2020.50.		
	Exterior Security Doors: B2050.40.		
	Exterior Security Gates: B2050.70.		
	Interior Security Windows:		
	C1020.50. Interior Security Doors: C1030.70.		
	Interior Security Gates: C1040.50.		
	Security Ceiling Systems:		
	C1070.70.  Electronic Safety and Security: D70.		
	Interior Pedestrian Security		
	Equipment: E1010.70.		
	Security Equipment: E1040.60.		
	Security Procedures: Z1020.70. Temporary Tree and Plant Protection	01 56 39	
Z1050.50	Temporary Controls	01 57 00	Includes: Requirements for environment
			controls during construction.
	Temporary Erosion and Sediment Control See Also:	01 57 13	
	Erosion and Sedimentation Controls:	•	
	G1070.35.		
	Temporary Pest Control	01 57 16	
	See Also: Pest Control Devices: C1090.90.		
	Temporary Environmental Controls	01 57 19	
	Temporary Storm Water Pollution Control	01 57 23	
Z1050.70	Project Identification	01 58 00	Includes: Signage identifying the project and
	Temporary Project Signage	01 58 13	the project team during construction.
	Temporary Interior Signage	01 58 16	
	See Also:		
Z1060	Exterior Signage: G2060.30.  Product Requirements	01 60 00	
Z1060.10	Common Product Requirements	01 61 00	Includes: General requirements for products
	·		used in construction.
Z1060.20	Product Options	01 62 00	Includes: General requirements for contractor's
Z1060 30	Owner-Furnished Products	01 64 00	options in selecting products.  Includes: General requirements for products
000.00		5. 5. 50	that are furnished by the owner.
Z1060.40	Product Delivery Requirements	01 65 00	Includes: General requirements for packing,
71000 50	Droduct Storage and Handling Descriptor	04 66 00	shipping, delivery, and acceptance of products.
∠1060.50	Product Storage and Handling Requirements	01 66 00	Includes: General requirements for storage and handling of products.
	Hazardous Materials	01 66 13	
	Toxic Materials	01 66 16	
Z1070	Execution and Closeout Requirements	01 70 00	Includes: Requirements for final acceptance of
			project by the Owner.

			Z GENERAL
Number	TITLE	MF Number	EXPLANATION
Z1070.10	Examination and Preparation	01 71 00	Includes: General requirements for determining acceptable conditions for installation. Includes general requirements for preparing to install, erect, or apply products.
	Mobilization	01 71 13	
	Acceptance of Conditions	01 71 16	
	Field Engineering	01 71 23	
	Protection of Adjacent Construction	01 71 33	
Z1070.20	Execution	01 73 00	Includes: General requirements of installing, applying, or erecting projects.
	Application	01 73 13	
	Erection	01 73 16	
	Installation	01 73 19	
	Bracing and Anchoring	01 73 23	
	Existing Products	01 73 26	
	Cutting and Patching	01 73 29	
	Construction Equipment Costs		
	Small Tools and Consumable Costs		
Z1070.30	Cleaning and Waste Management	01 74 00	Includes: Requirements for maintaining site in clean and neat condition during construction. Includes final cleaning prior to turning the project over to the owner.
	Progress Cleaning	01 74 13	
	Site Maintenance	01 74 16	
	Construction Waste Management and Disposal	01 74 19	
	Final Cleaning	01 74 23	
Z1070.40	Starting and Adjusting	01 75 00	Includes: Requirements for checkout, startup, and adjusting procedures to ensure safe operation during acceptance testing and commissioning.
	Checkout Procedures	01 75 13	
	Startup Procedures	01 75 16	
Z1070.50	Protecting Installed Construction	01 76 00	Includes: General requirements for protecting installed construction.
Z1070.60	Closeout Procedures	01 77 00	Includes: Requirements for completion of the project including substantial and final completion steps.
	Preliminary Closeout Reviews	01 77 13	
	Final Closeout Review	01 77 16	
	Closeout Requirements	01 77 19	
	Demobilization		
Z1070.70	Closeout Submittals	01 78 00	Includes: Requirements for the processing closeout submittals at completion of the project.
	Completion and Correction List	01 78 13	
	Maintenance Contracts	01 78 19	
	Operation and Maintenance Data	01 78 23	
	Final Site Survey	01 78 29	
	Bonds	01 78 33	
	Warranties	01 78 36	
	Project Record Documents	01 78 39	
	Spare Parts	01 78 43	
	Extra Stock Materials	01 78 46	
	Sustainable Design Closeout Documentation See Also:	01 78 53	
	Sustainable Design Requirements: 1030.50.		
	Sustainable Design Reporting: Z1020.50.		

Z GENERA	NL		
Number	TITLE	MF Number	EXPLANATION
Z1070.80	Demonstration and Training	01 79 00	Includes: Requirements and procedures for demonstration of the products and systems of the facility and training the owner's operating and maintenance personnel.
Z1090	Life Cycle Activities	01 90 00	
Z1090.10	-	01 91 00	Includes: Requirements for commissioning facilities and facility systems.
	General Commissioning Requirements	01 91 13	
	Facility Substructure Commissioning	01 91 16	
	Facility Shell Commissioning	01 91 19	
	Interiors Commissioning	01 91 23	
Z1090.30	Facility Operation	01 92 00	Includes: Requirements for operating facility after commissioning.
	Facility Operation Procedures	01 92 13	•
Z1090.50	Facility Maintenance	01 93 00	Includes: Requirements for maintaining facility after commissioning.
	Facility Maintenance Procedures	01 93 13	-
	Recycling Programs	01 93 16	
Z1090.80	Facility Decommissioning	01 94 00	Includes: Requirement for deactivating a facility or portion of it from operation.
	Facility Decommissioning Procedures	01 94 13	
<b>Z</b> 70	TAXES, PERMITS, INSURANCE AND	BONDS	
Z7010	Taxes	BONDO	Includes: Cost of taxes on project construction.
Z7030	License Fees		Includes: Cost of license fees required for the construction of the project.
Z7050	Permit Costs		Includes: Cost of permits required for the construction of the project.
	See Also:		
	Permits: 2020.		
Z7070	Bond Fees		Includes: Cost of bonds required for construction of the project.
<b>Z</b> 90	FEES AND CONTINGENCIES		
Z9010	Overhead		Includes: Contractor's office and field overhead
			costs in construction the project. Includes definition of overhead costs.
Z9030	Profit		Includes: Contractor's profit for constructing the project. Includes definition of profit.
Z9050	Construction Contingencies	01 21 16	
	See Also:		
	Budget Construction Contingencies 2080.20.	:	
Z9050.10	Design Contingencies	01 21 16	Includes: Risk factor applied to the project budget, cost estimate, or contract to compensate for extent of available design definition.
	See Also: Budget Design Contingencies: 2080.10.		
Z9050.30	Bidding Contingencies	01 21 16	Includes: Risk factor applied to the project budget, cost estimate, or contract to compensate for the results of the bidding process.

Number	TITLE	MF NUMBER	EXPLANATION
Z9050.50	Escalation Contingencies	01 21 16	Includes: Risk factor applied to the project budget, cost estimate, or contract to compensate for the change in monetary value during time between the preparation of the estimate and the scheduled start of construction.
Z9090	Financing Costs		Includes: Summary of the owner's project financing costs.
	See Also:		inalicing costs.

Budget Financing: 2090.

## **KEY WORD INDEX**

#### INFORMATION

The alphabetical subject list on the following pages will enable the user of *UniFormat* ™ to find the proper location for most subjects for a building construction project.

Each page of the index is divided into two main columns and subdivided into three smaller columns. The alphabetical subject list in the first smaller column was created using terms taken from the *UniFormat* Level 1-4 titles and the detailed listings under them.

The second smaller column contains the *UniFormat* Level 1-4 numbers related to the subject. There are some more general categorization terms created to help organize the index that often do not have *UniFormat* numbers associated with them.

The third smaller column contains MasterFormat<sup>TM</sup> numbers from the 2010 edition related to each subject. Not all of the subject terms have related MasterFormat numbers.

It should be noted that subject relationships are drawn to the highest level appropriate *MasterFormat* number. The user should reference the complete *MasterFormat* listing for more detailed titles that may occur under the *MasterFormat* number referenced.

#### For example:

- The key word index refers to 04 20 00 Unit Masonry, but does not include references to the lower level listings
  of 04 21 00 Clay Unit Masonry, 04 22 00 Concrete Unit Masonry, 04 23 00 Glass Unit Masonry, and 04 24 00
  Adobe Unit Masonry.
- The key word index refers to 08 50 00 Windows, but does not include references to the lower level listings of 08 51 00 Metal Windows, 08 52 00 Wood Windows, 08 53 00 Plastic Windows, and 08 54 00 Composite Windows.

A   Abbreviations and Acronyms	KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Abbreviations and Acronyms	_			Agreement Form Supplements	4010.35	00 54 00
Acceps Control         C7010.10         28 13 00         Equipment irrigation         E1099.04         32 86 00           Access Control         O7010.10         28 13 13         Hardware         E1099.04         32 86 00           Hardware         D7010.10         28 13 13         Hardware         E1099.04         11 92 02           Interfaces         D7010.10         28 13 34         Hardware         E1090.00         17 27 00           Interfaces         D7010.10         28 13 33         Remote Devices         D7010.10         28 13 26         Remote Devices         D7010.10         28 13 26         Remote Devices         P07010.10         28 13 26         Remote Devices         Roofing         B3010.90         07 27 00           Systems Infrastructure         D7010.10         28 13 63         Alforest Stantistion         Alforest Stantistion         Alforest Stantistion         B1020.90         07 27 00           Access Dors and Panels         C1090.10         28 13 63         Alforest Stantistion         Alforest Stantistion         P1070.01         28 13 63         Alforest Stantistion         Alforest Stantistion         P108 00 00         P108 00 <td></td> <td></td> <td></td> <td>_</td> <td>4010.30</td> <td>00 52 00</td>				_	4010.30	00 52 00
Access Control   O7010.10   28 13 00   Inrigation   E1090.40   32 8 8 00   Masta Clean-Up Equipment   E1090.30   11 92 23   23   Marthware   O7010.10   28 13 45   Exterior Wall   E2010.80   O7 27 00   Air Barriers   O7 27 00   O7 27 00   Air Barriers   O7 27 00   Air Barriers   O7 27 00   O7 27 00   Air Barriers   O7 27 00   Air Barriers   O7 27 00   Air Barriers   O7 27 00   O7				_		
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Hardware   D7010.10   08 74 00   Identification Management   D7010.10   28 13 34   Systems   D7010.10   28 13 32 6   Remote Devices   D7010.10   28 13 32 6   Remote Devices   D7010.10   28 13 36   Roding   B3010.90   07 27 00   Rod Construction   B1020.90   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00   07 20 00						
Identification Management   D7010.10   28 13 14 3   Systems   Interfaces   D7010.10   28 13 33   Remote Devices   D7010.10   28 13 33   Remote Devices   D7010.10   28 13 36   Roofing   B3010.90   07 27 00						
Systems						
Interfaces	•	D7010.10	28 13 43			
Remote Devices   D7010.10   28 13 26   Systems and Database   D7010.10   28 13 16   Management   Systems Infrastructure   D7010.10   28 13 16   Management   Systems Infrastructure   D7010.10   28 13 61   Management   D7010.10   28 13 63   Management   D7010   28 10 00   Management   D7010   D8 13 100   Management   D70		D7040.40	00.40.00			
Systems and Database   D7010.10   28 13 16   Management   Systems Infrastructure   D7010.10   28 13 19   Access Control and Intrusion   D7010.10   28 13 16   HVAC Outside Air   D3060.70   23 40 00   Detection   Access Plooring   C1030.80   08 31 00   Interior   Access Flooring   C1060.10   09 69 00   Interior   Access Flooring   C2080.50   32 94 00   Interior   Access Flooring   E2010.90   12 92 43   Interior   Access Flooring   E2010.90   12 92 43   Interior   Access Flooring   E2010.90   12 92 43   Interior   Accessories   E2080.40   12 40 00   Interior Landscaping   E2010.90   12 92 43   Interior   Accessories   E2080.40   12 40 00   Interior Landscaping   E2010.90   12 92 43   Interior   Accessories   E3080.50   32 94 00   Interior Landscaping   E2010.90   12 92 43   Interior   Accessories   D3060.50   23 33 00   Interior   Accessories   D3060.50   23 33 00   Interior Partitions   C1010.50   10 22 33   Accessories   D3060.50   23 33 00   Interior Partitions   C1010.90   98 100   Interior Partitions   C1010.90   98 100   Interior Partitions   C1070.20   09 81 00   Ceilings   C1070.10   09 81 00   Accessories   D3030.70   23 81 13   Interior Partitions   C2050.80   O9 80 10   Interior Pa						
Management   Systems Infrastructure   D7010.10   28 13 19   Vehicle Identification System   D7010.10   28 13 63   HVAC   D3050.50   23 40 00   Access Control and Intrusion   Detection   D7010   28 10 00   Access Doors and Panels   C1030.80   08 31 00   Heating   D3020.70   23 82 16   December   D7010				•		
Systems Infrastructure	-	D7010.10	28 13 16		21050.40	
Access Control and Intrusion   D7010   28 13 83   Access Control and Intrusion   D7010   28 10 00   Access Control and Intrusion   D7010   28 10 00   Access Control and Intrusion   D7010   28 10 00   Access Doors and Panels   C1030.80   08 31 00   Interior   D3030.70   23 82 16   C300		D7010 10	20 12 10	_	D2050 50	
Access Control and Intrusion   D7010   28 10 00   Detection   Detection   Cooling   D3303.70   23 82 16   Access Doors and Panels   C1030.80   06 31 00   Heating   D3020.70   23 82 16   Access Flooring   C1060.10   09 69 00   Accessories   E2050.40   12 40 00   Roler of Landscaping   E2010.90   12 92 43   Detection   Role of Landscaping   E2010.90   12 92 43   Detection   D3050.50   D3307.00   D3050.50   D3050.50	-					
Detection						
Access Doors and Panels   C1030.80   08 31 00   Heating   D3020.70   23 82 16   Interior   Access Flooring   C1060.10   09 69 00   Access Flooring   E2010.90   12 92 43   Planting   G2080.50   32 94 00   Roof   Roof   Roof   Roof   Roof   Roof   Roof   Roof   Sample   Roof   Accustic Insulation   Roof   Roof   Roof   Roof   Plaster and Gypsum Board   C1070.20   09 81 00   Ceilings   Suspended Ceilings   C2010.80   09 84 00   Underlayment, Flooring   C2030.90   09 80 13   Wall Coating   C2050.80   Roof   Roof   Roof   Roof   Roof   Metal Pocking   B1020.20   05 34 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   B1020.20   05 34 00   Shells   C1070.10   09 51 00   Metal Roof Decking   C1070.10   09 51		D7010	28 10 00			
Access Flooring		C1030.80	08 31 00	•		
Access Flooring         C1060.10         09 69 00         Receivers, General Service         Air Distribution, HVAC         D 3050.50		01030.00	00 31 00			
Accessories		C1060 10	09 69 00		D2000	22 10 10
Planting	<b>G</b>				D3050 50	
Planting   G2080.50   32 94 00   Roof   Roof   B3020.10   0772 00   Planums and Chases   D3050.50   23 37 00   Roof   Toilet, Bath, and Laundry   C1090.40   10 28 00   Accordion Folding Partitions   C1010.50   10 22 33   Acid-Resistant Flooring   C2030.30   09 62 35   Acid-Resistant Flooring   C2030.30   09 62 35   Acid-Resistant Flooring   C2030.30   09 81 00   Interior Partitions   C1010.90   09 81 00   Plaster and Gypsum Board   C1070.20   09 81 00   Plaster and Gypsum Board   C2010.90   09 81 00   Room Components   C2050.80   09 84 00   Sulp-declared   C2010.80   O9 84 00   Self-Contained   D3030.70   23 81 19   Self-Contained   D3030.70   23 81 26   Acoustical   C2050.80   O9 84 00   Self-Contained   D3030.70   23 81 26   Acoustical   C2050.80   O9 84 00   Self-Contained   D3030.70   23 81 19   Self-Contained   D3030.70   23 81 26   Acoustical   C2050.80   O5 34 00   Self-Contained   D3030.70   C3 81 19   Self-Contained   D3030.70   C3 81 19   Self-Contained   D3030.70   D						
Roof   B3020.10   07 72 00   Plenums and Chases   D3050.50   23 32 00						
Toilet, Bath, and Laundry	_					
Accordion Folding Partitions						
Acid-Resistant Flooring						
Acoustic Insulation				Air-Borne Particulate Collection		
Interior Partitions	· ·					
Ceilings Suspended Ceilings         C1070.10         09 81 00         Packaged Terminal Room         D3030.70         23 80 13           Acoustic         Room Components         C2050.80         09 84 00         Self-Contained         D3030.70         23 81 19           Underlayment, Flooring Wall Coating         C2030.90         09 60 13         Aircraft Passenger Loading         D1030.50         34 77 13           Acoustical         Ceiling Treatment         C2050.80          Airfields         G2040.80         34 43 26           Metal Decking         C2050.80          Control Equipment         G2040.80         34 43 16           Metal Ploor Decking Metal Roof Decking         B1010.20         05 34 00         Lighting         G2040.80         34 43 16           Suspended Ceilings         C1070.10         09 51 00         Signaling and Control         G2040.80         34 43 10           Sull Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 13           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 13           Advertisements         3020.10         00 11 00         Air-Handling Units         D3050.50            Aeriolic Processes	Interior Partitions	C1010.90	09 81 00		D3030.70	
Ceilings Suspended Ceilings         C1070.10         09 81 00         Packaged Terminal Room         D3030.70         23 80 13           Acoustic         Room Components         C2050.80         09 84 00         Self-Contained         D3030.70         23 81 19           Underlayment, Flooring Wall Coating         C2030.90         09 60 13         Aircraft Passenger Loading         D1030.50         34 77 13           Acoustical         Ceiling Treatment         C2050.80          Airfields         G2040.80         34 43 26           Metal Decking         C2050.80          Control Equipment         G2040.80         34 43 16           Metal Ploor Decking Metal Roof Decking         B1010.20         05 34 00         Lighting         G2040.80         34 43 16           Suspended Ceilings         C1070.10         09 51 00         Signaling and Control         G2040.80         34 43 10           Sull Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 13           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 13           Advertisements         3020.10         00 11 00         Air-Handling Units         D3050.50            Aeriolic Processes	Plaster and Gypsum Board	C1070.20	09 81 00	Computer-Room	D3030.70	23 81 23
Acoustic Room Components         C2050.80         09 84 00 09 84 00 Wall Coating         Self-Contained Split-System         D3030.70         23 81 19 23 81 26           Acoustical Ceiling Treatment Metal Decking         C2010.80         09 83 13 020.10         Airfields         G2040					D3030.70	23 80 13
Room Components	Suspended Ceilings	C1070.10	09 81 00	Room	D3030.70	23 81 16
Underlayment, Flooring   C2030.90   09 60 13   Wall Coating   C2010.80   09 83 13	Acoustic			Self-Contained	D3030.70	23 81 19
Wall Coating         C2010.80         09 83 13         Bridges           Acoustical         Airfields         G2040            Ceiling Treatment         C2050.80          Control Equipment         G2040.80         34 43 26           Metal Decking         B1010.20         05 34 00         Landing Equipment         G2040.80         34 43 16           Metal Roof Decking         B1020.20         05 34 00         Lighting         G2040.70         26 56 00           Metal Roof Decking         B1020.20         05 34 00         Lighting         G2040.80         34 43 16           Metal Roof Decking         B1020.20         05 34 00         Lighting         G2040.80         34 43 00           Shells         E1070.10         11 61 13         Equipment         G2040.80         34 43 10           Suspended Ceilings         C1070.10         09 51 00         Signals         G2040.80         34 43 13           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 19           Administrative Requirements         Z1020         01 30 00         Air-Handling Units         D3050.50            Advertisements         3020.10         00 11 00         Air-Source Heat Pumps	Room Components	C2050.80	09 84 00	Split-System	D3030.70	23 81 26
Acoustical         Ceiling Treatment         C2050.80          Airfields         G2040            Metal Decking         C2050.80         05 34 00         Landing Equipment         G2040.80         34 43 26           Metal Floor Decking         B1010.20         05 34 00         Lighting         G2040.70         26 56 00           Metal Roof Decking         B1020.20         05 34 00         Lighting         G2040.80         34 43 16           Shells         E1070.10         11 61 13         Equipment         G2040.80         34 43 00           Suspended Ceilings         C1070.10         09 51 00         Signaling and Control         G2040.80         34 43 10           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 13           Administrative Requirements         Z1020         01 30 00         Air-Handling Units         D3050.50            Advertisements         3020.10         00 11 00         Air-Suprot Special Procedures         Z1020.70         01 35 13.13           Avertisements         3020.10         00 11 00         Air-Suproted Fabric         F1020.10         13 31 13           Aerial Cable Installation         G5010.10         33 81 23         Structures	Underlayment, Flooring	C2030.90	09 60 13	Aircraft Passenger Loading	D1030.50	34 77 13
Ceiling Treatment         C2050.80          Control Equipment         G2040.80         34 43 26           Metal Decking         C2050.80         05 34 00         Landing Equipment         G2040.80         34 43 16           Metal Floor Decking         B1010.20         05 34 00         Lighting         G2040.70         26 56 00           Metal Roof Decking         B1020.20         05 34 00         Signaling and Control         G2040.80         34 43 00           Shells         E1070.10         11 61 13         Equipment         G2040.80         34 43 10           Suspended Ceilings         C1070.10         09 51 00         Equipment         G2040.80         34 43 13           Suspended Ceilings         C1070.10         09 51 00         Equipment         G2040.80         34 43 13           Suspended Ceilings         C1070.10         09 51 00         Equipment         G2040.80         34 43 13           Suspended Ceilings         C1070.10         09 51 00         Equipment         G2040.80         34 43 13           Administrative Requirements         Z1020         01 30 00         Equipment         Air-Handling Units         D3050.50            Advertisements         3020.10         00 11 00         Air-Source Heat Pumps <td< td=""><td>Wall Coating</td><td>C2010.80</td><td>09 83 13</td><td>Bridges</td><td></td><td></td></td<>	Wall Coating	C2010.80	09 83 13	Bridges		
Metal Decking         C2050.80         05 34 00         Landing Equipment         G2040.80         34 43 16           Metal Floor Decking         B1010.20         05 34 00         Lighting         G2040.70         26 56 00           Metal Roof Decking         B1020.20         05 34 00         Signaling and Control         G2040.80         34 43 00           Shells         E1070.10         11 61 13         Equipment         G2040.80         34 43 10           Suspended Ceilings         C1070.10         09 51 00         Signals         G2040.80         34 43 13           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 13           Administrative Requirements         Z1020         01 30 00         Equipment         Equipment           Adobe Unit Masonry:         See Unit          04 24 00         Air-Handling Units         D3050.50            Masonry         Airesource Heat Pumps         D3030.70         23 81 43         34 43 19           Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Aerial Cable Installation         G5010.10         33 81 23         Structures         AII Glass           D						
Metal Floor Decking         B1010.20         05 34 00         Lighting         G2040.70         26 56 00           Metal Roof Decking         B1020.20         05 34 00         Signaling and Control         G2040.80         34 43 00           Shells         E1070.10         11 61 13         Equipment         G2040.80         34 43 00           Suspended Ceilings         C1070.10         09 51 00         Signals         G2040.80         34 43 13           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 13           Administrative Requirements         Z1020         01 30 00         Equipment         Air-Handling Units         D3050.50            Adobe Unit Masonry:         See Unit          04 24 00         Air-Handling Units         D3050.50            Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Advertising         2050.10          Air-Supported Fabric         F1020.10         13 31 13           Aerial Cable Installation         G5010.10         33 81 23         Structures         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aggregate Surfacing </td <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td>	<u> </u>					
Metal Roof Decking Shells         B1020.20         05 34 00 11 61 13         Signaling and Control Equipment         G2040.80         34 43 00           Shells         E1070.10         11 61 13         Equipment         Equipment         34 43 13           Suspended Ceilings         C1070.10         09 51 00         Signals         G2040.80         34 43 13           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 19           Administrative Requirements         Z1020         01 30 00         Equipment         Equipment           Adobe Unit Masonry:         See Unit          04 24 00         Air-Handling Units         D3050.50            Masonry         Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Advertising         2050.10          Air-Supported Fabric         F1020.10         13 31 13           Aerial Cable Installation         G5010.10         33 81 23         Structures           Hardware         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aggregate Surfacing          32 15 00         Exterior         B2050.10         08 42 26           Aviati						
Shells         E1070.10         11 61 13         Equipment           Suspended Ceilings         C1070.10         09 51 00         Signals         G2040.80         34 43 13           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 19           Administrative Requirements         Z1020         01 30 00         Equipment           Adobe Unit Masonry:         See Unit          04 24 00         Air-Handling Units         D3050.50            Masonry         Airesport Special Procedures         Z1020.70         01 35 13.13         Airesource Heat Pumps         D3030.70         23 81 43           Advertising         2050.10          Airesupported Fabric         F1020.10         13 31 13           Aerial Cable Installation         G5010.10         33 81 23         Structures           Hardware         Airesory Recovery         D2020.60         23 72 00           Aerial Cable Installation         G5010.25         02 54 13         All Glass           Decontamination         Entrances         Enterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking L						
Suspended Ceilings         C1070.10         09 51 00         Signals         G2040.80         34 43 13           Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 19           Administrative Requirements         Z1020         01 30 00         Equipment           Adobe Unit Masonry: See Unit Masonry: See Unit Masonry          04 24 00         Air-Handling Units         D3050.50            Masonry Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Advertisements Advertising Aerial Cable Installation         G5010.10         33 81 23         Structures         F1020.10         13 31 13           Aerobic Processes Aerobic Processes         G1050.25         02 54 13         Structures         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aggregate Surfacing Aviation Arising Lot Parking Lot Parking Lot Pedestrian         G2040.10         32 15 00         Exterior Storefronts         Exteriors         B2050.10         08 42 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00	_				G2040.80	34 43 00
Wall Treatment         C2010.80          Traffic Control Tower         G2040.80         34 43 19           Administrative Requirements         Z1020         01 30 00         Equipment           Adobe Unit Masonry: See Unit Masonry: See Unit Masonry          04 24 00         Air-Handling Units         D3050.50            Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Advertising         2050.10          Air-Supported Fabric         F1020.10         13 31 13           Aerial Cable Installation         G5010.10         33 81 23         Structures           Hardware         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aerobic Processes         G1050.25         02 54 13         All Glass           Decontamination         Entrances         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00 <td></td> <td></td> <td></td> <td></td> <td>00040.00</td> <td>04.40.40</td>					00040.00	04.40.40
Administrative Requirements         Z1020         01 30 00         Equipment           Adobe Unit Masonry: See Unit Masonry: See Unit Masonry          04 24 00         Air-Handling Units         D3050.50            Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Advertising         2050.10          Air-Source Heat Pumps         D3030.70         23 81 43           Aerial Cable Installation         G5010.10         33 81 23         Structures           Hardware         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aerobic Processes         G1050.25         02 54 13         AII Glass           Decontamination         Entrances         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00				_		
Adobe Unit Masonry:         See Unit          04 24 00         Air-Handling Units         D3050.50            Masonry         Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Advertising         2050.10          Air-Source Heat Pumps         D3030.70         23 81 43           Aerial Cable Installation         G5010.10         33 81 23         Structures           Hardware         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aerobic Processes         G1050.25         02 54 13         All Glass           Decontamination         Entrances         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2030.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00					G2040.80	34 43 19
Masonry         Airport Special Procedures         Z1020.70         01 35 13.13           Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Advertising         2050.10          Air-Supported Fabric         F1020.10         13 31 13           Aerial Cable Installation         G5010.10         33 81 23         Structures           Hardware         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aerobic Processes         G1050.25         02 54 13         All Glass           Decontamination         Entrances         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2030.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00					D2050 50	
Advertisements         3020.10         00 11 00         Air-Source Heat Pumps         D3030.70         23 81 43           Advertising         2050.10          Air-Supported Fabric         F1020.10         13 31 13           Aerial Cable Installation         G5010.10         33 81 23         Structures           Hardware         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aerobic Processes         G1050.25         02 54 13         All Glass           Decontamination         Entrances         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00	-		04 24 00	_		
Advertising       2050.10        Air-Supported Fabric       F1020.10       13 31 13         Aerial Cable Installation       G5010.10       33 81 23       Structures         Hardware       Air-to-Air Energy Recovery       D2020.60       23 72 00         Aerobic Processes       G1050.25       02 54 13       All Glass         Decontamination       Entrances         Aggregate Surfacing        32 15 00       Exterior       B2050.10       08 42 26         Aviation       G2040.10       32 15 00       Interior       C1030.20       08 42 26         Parking Lot       G2020.10       32 15 00       Storefronts: See Storefronts        08 43 26         Pedestrian       G2030.10       32 15 00       Allowances       Z1010.10       01 21 00	•	3020 10	00 11 00			
Aerial Cable Installation         G5010.10         33 81 23         Structures           Hardware         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aerobic Processes         G1050.25         02 54 13         All Glass           Decontamination         Entrances         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00				•		
Hardware         Air-to-Air Energy Recovery         D2020.60         23 72 00           Aerobic Processes         G1050.25         02 54 13         All Glass           Decontamination         Entrances           Aggregate Surfacing          32 15 00         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00	3				1 1020.10	10 01 10
Aerobic Processes         G1050.25         02 54 13         All Glass           Decontamination         Entrances           Aggregate Surfacing          32 15 00         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00		03010.10	33 01 23		D2020 60	23 72 00
Decontamination         Entrances           Aggregate Surfacing          32 15 00         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00		G1050 25	02 54 13		D2020.00	20 72 00
Aggregate Surfacing          32 15 00         Exterior         B2050.10         08 42 26           Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00		01000.20	02 0 1 10			
Aviation         G2040.10         32 15 00         Interior         C1030.20         08 42 26           Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00			32 15 00		B2050.10	08 42 26
Parking Lot         G2020.10         32 15 00         Storefronts: See Storefronts          08 43 26           Pedestrian         G2030.10         32 15 00         Allowances         Z1010.10         01 21 00		G2040.10				
Pedestrian G2030.10 32 15 00 Allowances Z1010.10 01 21 00						
	<del>-</del>				Z1010.10	
				Alteration Project Procedures		

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Alternates	Z1010.30	01 23 00	Asbestos	F2010.20	
Aluminum			Abatement	F2010.20	02 82 13
Decking: See Metal Decking		05 33 00	Remediation	F2010.20	02 82 00
Framed Storefronts: See Storefronts		08 43 13	Asphalt Unit Pavement: See Unit Pavement		32 14 23
Doors: See Exterior and		08 11 16	Assessment	1040.30	02 20 00
Interior Doors			Existing Conditions	1040.30	02 22 00
Joists: See Metal Joists	B1010.10	05 25 00	Existing Material	1040.30	02 25 00
Windows: See Exterior and		08 51 13	Hazardous Material	1040.30	02 26 00
Interior Windows			Assistive Listening Systems	D6060.10	27 51 26
Amendments	Z1010.60	01 26 43	Athletic and Recreational		
Amusement Park	F1050.50		Court Walls	F1060.50	13 28 33
Rides	F1050.50	13 14 23	Special Construction	F1060	13 28 00
Structures and Equipment	F1050.50	13 14 00	Athletic		
Anaerobic Processes	G1050.25	02 54 16	Areas	G205010	
Decontamination			Court Fencing	G205010	
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Animal Containment	F1050.70	13 19 00	Field Equipment	G205010	11 68 33
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Ventilation	D3060.90	23 05 63	Attendant Booths	G2060.40	
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Emitters			Site Constructed	G2060.40	
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Distribution Systems	D3050.90	23 05 66	Attorneys	2030.60	
Heating System	D3020.90	23 05 66	Audience Seating		
Ventilation	D3060.90	23 05 66	Fixed	E2010.70	12 61 00
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Roof	B3020		Equipment	E1040.10	11 52 00
Aquariums	F1050.40	13 13 00	Furniture	E2050.30	12 56 52
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Contingencies, Budget	2080.20	01 21 16	Copings		07 71 13
Dewatering	A9020	31 23 19	Horizontal Waterproofing	B3040.90	07 71 13
Dewatering, Substructure	A9020	31 23 19	Roofing	B3010.90	07 71 13
Equipment Costs	Z1070.20		Copper Communications	G5010.30	33 82 13
Facilities	Z1050.20	01 52 00	Distribution Cabling		
Management	3010.10		Corner Guards	C1090.35	10 26 13
Progress	Z1020.30		Cost Plus a Fee Method of	3010.50	00 52 33
Documentation	Z1020.30	01 32 00			00 52 36
Reporting	Z1020.30	01 32 26			00 72 33
Schedule	Z1020.30	01 32 16			00 72 36
Temporary	Z1050.25	01 53 00	Payment		
Waste Management and	Z1070.30	01 74 19	With a GMP	3010.50	
Disposal			Counterflashing Systems		
Consultants	2030.30		Horizontal Waterproofing	B3040.90	07 71 16
Containment Barriers	G1070.55	31 35 26	Roofing	B3010.90	07 71 16
Contaminated	0.4050.00		Countertops	E2010.30	12 36 00
Site Material Removal	G1050.60	02 60 00	Covers and Shelters	G2060.40	10 73 00
Site Special Procedures	Z1020.70	01 35 13.43	Cranes	D1050.10	41 22 13
Contingencies, Project, Budget	2080	01 01 16	Temporary	Z1050.30	01 54 19
Contingency Allowances	Z1010.10	01 21 16	Crematorium Equipment	E1040.20	11 78 16
Continuous Footings	A1010.10	01 26 00	Cribbing and Walers	A9030.40	31 53 00
Contract Modification Procedures	Z1010.60	01 20 00	Cubicles Culverts	C1090.25 G3030.30	10 21 23 33 42 00
Contracting			Cupolas	B3020.30	10 74 23
Definitions	4030.10	00 71 00	Curbs and Gutters		32 16 00
Forms and Supplements	4010	00 71 00	Parking Lot	G2020.20	32 16 13
Requirements	40	00 00 00	Pedestrian Pavement	G2030.20	32 16 13
Control House Equipment, Site	G4010.30	33 72 33	Roadway	G2010.20	32 16 13
Electrical	04010.50	33 72 33	Curbs, Roof	B3020.10	07 72 13
Controlled Environment Rooms	F1010.50	13 21 00	Curtain Wall Assemblies	B2010.40	08 44 00
Convection		23 82 00	Curtains and Drapes	E2010.40	12 22 00
Cooling Units	D3030.70	23 82 00	Curtains, Stage	E1070.10	11 61 43
Heating Units	D3030.70	23 82 00	Custom Elevator Cabs and	D1010.10	14 27 00
· · · · · · · · · · · · · · · · · · ·			Doors	3 . 3 . 10	
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Customer Relationship	D6010.50	27 25 26	Decontamination		
Management Software			Biological	G1050.25	02 54 00
Custom-Packaged Outdoor	D3050.50	23 75 00	Chemical	G1050.15	02 52 00
HVAC Equipment			Equipment	E1090.60	
Cut and Cover, Tunnel	G9010.90	31 71 23	Physical	G1050.10	02 51 00
Cutouts, Site Electrical	G4010.50	33 77 33	Thermal	G1050.20	02 53 00
Cutting and Patching	Z1070.20	01 73 29	Decorative		
<b>D</b>			Landscape Boulders	G2080.50	
D			Towers	F1020.70	
Dams			Water Curtains	F1050.30	
Demolition	F3010.70	02 41 16.43	Decorative Metal		05 70 00
Earth	G1070.80	36 73 13	Exterior Fabrications	B2080.70	05 70 00
Dampproofing	 D0040.00	07 11 00	Exterior Fixed Grilles and	B2080.10	05 70 00
Exterior Wall	B2010.80	07 11 00	Screens	00000 00	00.04.40
Standard Foundation	A1010.90	07 11 00	Fences and Gates	G2060.20	32 31 19
Subgrade Enclosure Wall	A2010.90	07 11 00	Railings	 D2000 F0	05 73 00
Darkroom Deers Interior	C1030.70	08 34 36	Exterior Balcony Interior	B2080.50 C1090.10	05 73 00 05 73 00
Doors, Interior Processing Equipment	E1030.70	11 27 13	Stair	B1080.50	05 73 00
Data Communications	D6010	27 20 00	Stairs	B1080.30	05 71 00
Desktops	D6010 D6010.20	07 22 23	Interior	C2020	05 70 00
Firewalls	D6010.20	27 21 13	Dedicated 911 Systems	D6020.50	27 35 23
Handhelds	D6010.10	07 22 29	Definitions	Z1040.30	01 42 16
Hardware	D6010.20	27 22 00	Deluge Fire-Suppression	D4010.10	21 13 26
Integration Requirements	D6010.20	27 26 26	Sprinkler Systems	D-1010.10	21 10 20
Laptops	D6010.00	07 22 26	Demobilization	Z1070.60	
Mainframes	D6010.20	07 22 13	Demolition	F30	02 41 00
Network Equipment	D6010.10	27 21 00	Selective	F3030	02 41 19
Network Management	D6010.10	27 21 29	Demonstration and Training	Z1070.80	01 79 00
Peripheral Data Equipment	D6010.30	27 24 00	Demountable		
Program and Integration	D6010.60	27 26 00	Athletic Surfaces	F1060.60	13 28 66
Services			Composite Partitions	C1010.40	10 22 19.43
Routers, CSU/DSU,	D6010.10	27 21 16	Gypsum Partitions	C1010.40	10 22 19.53
Multiplexers, Codecs, and			Metal Partitions	C1010.40	10 22 19.13
Modems			Partitions, Interior	C1010.40	10 22 19
Servers	D6010.20	07 22 19	Plastic Partitions	C1010.40	10 22 19.33
Software	D6010.50	27 25 00	Wood Partitions	C1010.40	10 22 19.23
Storage and Backup	D6010.20	07 22 16	Dental Equipment	E1040.20	11 74 00
Switches and Hubs	D6010.10	27 21 29	Derricks	D1050.30	41 22 33
Wireless Access Points	D6010.10	27 21 33	Design Contingencies	Z9050.10	
Database			Budget	2080.10	01 21 16
Development	D6010.60	27 26 16	Design		
Software	D6010.50	27 25 33	Data	Z1020.50	01 33 16
Deadend Structures, Site	G4010.30	33 72 13	Loads	1030.40	
Electrical			Professionals	2030.20	
Deaerators	D3020.10	23 53 16	Design-Bid Build	3010.10	
Deal Drawers	E1040.60	11 18 13	Design-Build	3010.10	00 52 53
Decentralized-HVAC	 D2020 70	23 80 00			00 52 56
Cooling	D3030.70	23 80 00			00 72 53
Heating  Deck Insulation	D3020.70	23 80 00	Design Negatiote Build	2010 10	00 72 56
	 D2040.00	07 20 00	Design-Negotiate Build	3010.10	
Horizontal Waterproofing	B3040.90	07 20 00 07 22 00	Detection Intrusion	D7010 50	28 16 00
Roofing Decks, Slabs, and Sheathing,	B3010.90 B1020.20		Security Access	D7010.50 D7010.10	28 16 00 28 13 53
Roof	51020.20	_	Detection and Alarm	D7010.10 D7050	28 30 00
Decks, Slabs, and Toppings,	B1010.20		Fire	D7050.10	28 31 00
Floor	21010.20		Fuel-Gas	D7050.10	28 33 00
			Fuel-Oil	D7050.30	28 34 00
			. 55. 5	2.000.10	_5 5 . 50

KEY WORD	LIE NUMBER	ME NUMBER	KEY WORD	LIE NUMBER	MF NUMBER
KEY WORD		MF NUMBER	KEY WORD		
Radiation	D7050.20	28 32 00	Heat Exchangers	D2010.20	22 35 00
Refrigeration	D7050.50	28 35 00	Heaters	D2010.20	
Water Intrusion	D7050.60	23 36 00	Piping	D2010.40	22 11 16
Detention	<b>5</b> 404040	10 10 00	Piping Specialties	D2010.40	22 11 19
Cell Modules	F1010.10	13 42 63	Pumps	D2010.20	22 11 23
Doors, Exterior	B2050.40	08 34 63	Site	G3010.10	
Doors, Interior	C1030.70	08 34 63	Softeners	D2010.20	22 31 00
Equipment	E1040.70	11 19 00	Supplementary Components	D2010.90	10.26.22
Facility Special Procedures Furniture	Z1020.70 E2050.30	01 35 13.16 12 55 00	Door and Frame Protection  Door Frames	C1090.35	10 26 33 08 10 00
Gun Lockers	E2050.30 E1040.70	12 55 00	Exterior	B2050.90	08 10 00
Lighting	D5040.50	26 55 23	Interior	C1030.90	08 10 00
Pass-Through Doors	E1040.70	11 19 13	Doors and Grilles, Exterior	B2050	
Windows		08 56 63	Doors and Gilles, Exterior	D2030	08 10 00
Exterior	B2020.50	08 56 63	Exterior	B2050	08 10 00
Interior	C1020.50	08 56 63	Interior	C1030	08 10 00
Diesel Fuel	G3060.40		Dormitory	01000	00 10 00
Distribution, Site	G3060.40	33 52 19	Furniture	E2050.30	12 56 43
Piping, Site	G3060.40	33 52 19.13	Unit Modules	F1010.10	13 42 43
Pumps, Site	G3060.40	33 52 19.23	Downspouts	B3020.70	07 71 23
Storage Tanks, Site	G3060.40	33 56 00	Drainage	20020.70	0 20
Digital	000000		Field	G3020.40	33 36 33
Addressable Fire-Alarm	D7050.10	28 31 11	Layers, Site	G3030.60	33 46 23
Systems			Foundation	A6010.10	33 46 13
Video Recorders and Analog	D7030.10	28 23 19	Underslab	A6010.20	33 46 19
Recording Devices			Drains		
Voice Announcers	D6020.50	27 35 13	Area	D2030.30	22 14 26.13
Direct Current Transmission,	G4010.20	33 71 53	Facility Stormwater	D2030.30	22 14 26
Site Electrical			Roof	D2030.30	22 14 26.16
Directories	C1090.20	10 13 00	Sanitary	D2020.30	22 13 19.13
Disaster Recovery Equipment	D6010.30	27 24 29	Site Storm Drainage	G3030.40	33 44 00
Discreet-Distributed	D7070.10	28 46 29	Trench	D2030.30	22 14 26.19
Intelligence Detention			Drench Hoses, Hand-Held	D2010.60	22 45 29
Monitoring and Control			Emergency		
Systems			Drilling and Blasting, Tunnel	G9010.90	31 71 16
Discreet-Logic Detention	D7070.10	28 46 26	Drinking Fountains	D2010.60	22 47 13
Monitoring and Control			Drip Irrigation	G2080.10	32 84 13
Systems			Driven Piles	A1020.10	31 62 00
Dishwashers, Commercial	E1030.80	11 48 13	Dry Cleaning Equipment	E1030.35	11 23 13
Disinfecting of Site Water	G3010.10	33 13 00	Dry-Chemical Fire-	D4010.50	21 24 00
Distribution			Extinguishing Systems	E4000.05	44.00.40
Display	04000 00	40.40.00	Drying and Conditioning	E1030.35	11 23 16
Cases	C1090.20	10 12 00	Equipment	D4040.40	24 42 40
Casework	E2010.30	12 35 59	Dry-Pipe Sprinkler Systems	D4010.10	21 13 16
Equipment, Refrigerated	E1030.30	11 22 00	Ducts, Electrical	 DE020.10	26 05 43
Lighting Turntables	D5040.50 D1030.30	26 55 59 14 73 59	Branch Wiring Electrical Distribution	D5030.10 D5020.30	26 05 43 26 05 43
Disposers, Residential	D1030.30 D2010.60	22 41 26	Lighting Branch Wiring	D5020.30 D5040.20	26 05 43
Disposers, Residential  Distributed	D2010.00	22 41 20	Duct Accessories, HVAC		23 33 00
Audio-Video	D6060.10		Air	D3050.50	23 33 00
Communications and	D6060	27 50 00	Exhaust Air	D3060.30	23 33 00
Monitoring	D0000	27 30 00	Outside Air	D3060.40	23 33 00
Systems	D6060.50	27 53 00	Return Air	D3060.40	23 33 00
Distribution Systems, HVAC	D3050		Supply Air	D3060.10	23 33 00
Supplementary Components	D3050.90		Ducts and Casings, Air		23 31 00
Domestic Water Distribution	D2010	22 11 00	Exhaust Air	D3060.30	23 31 00
Equipment	D2010.20		HVAC	D3050.50	23 31 00
Filtration Equipment	D2010.20	22 32 00	Outside Air	D3060.40	23 31 00
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Return Air	D3060.20	23 31 00	Electromagnetic		
Supply Air	D3060.10	23 31 00	Field Protection	F1030.50	
Dumbwaiters	D1010.50	14 10 00	Interference Filters	D5010.60	26 35 23
Dust Barriers, Temporary	Z1050.40	01 56 16	Electronic		
Dwelling Unit Modules	F1010.10	13 42 33	Air Cleaners	D3050.50	23 43 00
_			Communication Protocols	Z1020.10	01 31 13
<u>E</u>			Detention Monitoring and	D7070.10	23 46 00
Early Streamer Emission	D5080.10	26 41 19	Control		
Lightning Protection			Digital Systems	D6030.50	27 42 00
Earth Dams	G1070.80	35 73 13	Monitoring and Control	D7070	28 46 00
Earth Movement Monitoring	F1080.60		Surveillance	D7030	28 20 00
Earth Stripping and Stockpiling	G1010.50	31 14 00	Electronic Personal	D7030.50	28 26 00
Earthwork, Site	G1070	31 20 00	Protection		
Educational and Scientific	E1040.10	11 50 00	Safety Alarm Annunciation	D7030.50	28 26 16
Equipment			and Control Systems	D7000 50	00.00.40
Educational	E0040.00	40.05.50	Safety Detection Systems	D7030.50	28 26 13
Casework	E2010.30	12 35 50	Safety Emergency Aid	D7030.50	28 26 23
Furniture	E2050.30	07.24.00	Devices	D7020 F0	20 26 40
EIFS, Exterior Walls	B2010.10	07 24 00	Safety Interfaces to Remote	D7030.50	28 26 19
Elastomeric Liquid Flooring Electric Distribution Systems,	C2030.70 G4010	09 67 13	Monitoring Electronic Safety and	D70	28 00 00
Site	G4010		Security	D70	20 00 00
Electric Domestic Water	D2010.20	22 33 00	Supplementary Components	D7090.10	
Heaters	D2010.20	22 33 00	Elevating Platforms	D1080.10	14 83 00
Electric Heating Boilers	D3020.10	23 52 13	Elevators	D1000.30	14 20 00
Electric Traction Elevators	D3020.10 D1010.10	14 21 00	Equipment and Controls	D1010.10	14 28 00
Freight	D1010.10	14 21 13	Telephones	D6020.20	27 32 23
Passenger	D1010.10	14 21 23	Temporary	Z1050.30	01 54 13
Residential	D1010.10	14 21 33	Email Software	D6010.50	27 25 19
Service	D1010.10	14 21 43	Embankments	G1070.30	31 24 00
Electric Transmission and	G4010.20	33 71 00	Emergency	01070.00	0.2.00
Distribution, Site	0.0.0.20		Access and Information	C1090.60	10 41 00
Electrical	D50	26 00 00	Cabinets		
Cabinets and Enclosures	D5020.30	26 27 16	Aid Specialties	C1090.60	10 43 00
Distribution Equipment	D5020.30	26 27 00	Fixture Water-Tempering	D2010.60	22 45 36
Distribution System	G4010.90	33 09 70	Equipment		
Instrumentation and Controls			Lighting	D5040.50	26 52 00
Service	D5020.10	26 21 00	Plumbing Fixtures	D2010.60	22 45 00
Site Improvements	G40		Safety Appliances	E1040.10	11 53 33
Substations, Site	G4010.30	33 72 00	Enclosures		
Switchgear and Protection	G4010.50	33 75 00	Exterior Horizontal	B30	
		33 77 00	Exterior Vertical	B20	
Devices, Site			Overhead Exterior	B3080	
Systems, Integrated	D8010.60	25 56 00	Subgrade	A20	
Automation Control			Traffic Bearing Horizontal	B3040	
Transformers, Site	G4010.40	33 73 00	Energy Distribution, Site	G3050	
Wiring System	D5020.30		Engine	<b>D</b> 0000 00	00.05.40
Electrical Service and	D5020		Exhaust Systems	D3060.30	23 35 16
Distribution	DE000 00		Generators	D5010.10	26 32 13
Supplementary Components	D5020.90		Engineered Control of	F2010.20	02 82 16
Electrical Utility	C4040 20	22 74 46	Asbestos Containing Materials	F1070	
Poles, Site Services, Site	G4010.20 G4010.10	33 71 16 33 71 73	Entertainment and Recreational Equipment	E1070	
Towers, Site	G4010.10 G4010.20	33 71 73	Entertainment Turntables	D1030.30	14 74 00
Electricity	G-010.20	33 / 1 13	Entrance	D 1000.00	17 17 00
Metering, Facility	D5020.10	26 16 00	Doors		08 42 00
Temporary	Z1050.10	01 51 13	Exterior	B2050.10	08 42 00
· Simporary	_1000.10	51 51 15	Interior	C1030.20	08 42 00
				3.000.20	-5 .= 55

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Flooring	C2030.85		Expansion Control		
Gratings	C2030.85	12 48 19	Exterior Wall	B2010.80	07 95 00
Grids	C2030.85	12 48 23	Floor Construction	B1010.90	07 95 00
Grilles	C2030.85	12 48 16	Horizontal Waterproofing	B3040.90	07 71 29
Mats and Frames	C2030.85	12 48 13	Interior Partitions	C1010.90	07 95 00
Tile	C2030.85	12 48 26	Roof Construction	B1020.90	07 95 00
Environmental	02030.03	12 40 20	Roofing	B3010.90	07 71 29
Assessment Information	3040.40	00 31 24	Expansion Fittings and	D3010.30	07 71 23
Controls, Temporary	Z1050.50	01 57 19	Loops		
Procedures	Z1020.70	01 35 43	Building Support Plumbing	D2030.90	22 05 16
Requirements, Facility	1030.53	01 81 16	Distribution Systems, HVAC	D3050.90	23 05 16
Epoxy-Marble Chip Flooring	C2030.70	09 67 16	Domestic Water	D2010.90	22 05 16
Equipment	E10	11 00 00	Fire Suppression	D4010.90	21 05 16
Screens	B2010.60		Sanitary Drainage	D2020.90	22 05 16
Site	G2060.50		Exterior	D2020.30	22 03 10
Equipment and Furnishings	E		Bulkheads	B3080.30	
Erection	Z1070.20	01 73 16	Ceilings	B3080.30	
Erosion and Sedimentation	G1070.20	31 25 00	Enclosures, Overhead	B3080.10	
Controls	G1070.33	31 23 00	Finish Carpentry	B2010.10	06 20 13
	71050 50	01 57 13	Gas Lighting	G2060.45	10 84 13
Temporary	Z1050.50 Z9050.50	01 37 13	Gas Lighting Grilles	B2050	10 64 13
Escalation Contingencies Escalators	D1010.30	14 31 00	Horizontal Enclosures	B30	
Escape Chutes	D1010.30 D1050.60	14 91 23	Insulation and Finish	B2010.10	07 24 00
•				D2010.10	07 24 00
Evaporative Air-Cooling	D3030.30	23 76 00	Systems	D2070	00 00 00
Examination and Preparation	Z1070.10	01 71 00	Louvers and Vents	B2070	08 90 00
Examination and Treatment	E1040.20	11 72 00	Opening Protection Devices	B2080.30	40.74.00
Equipment	C4070 00	24 22 00	Protection	B2080.30	10 71 00
Excavation and Fill, Site	G1070.20	31 23 00	Signage Soffits	G2060.30	10 14 00
Excavation	10000 10	04 54 40		B3080.20	
Rock Anchors	A9030.10	31 51 16	Steps and Ramps	G2030.30	40.74.42
Soil Anchors	A9030.10	31 51 13	Sun Control Devices	B2080.30	10 71 13
Site	G1070.20	31 23 16	Vertical Enclosures	B20	
Substructure	A9010	31 23 16	Exterior Athletic	C205040	11 60 00
Support, Substructure	A9030	31 50 00	Equipment	G205010	11 68 23
Tunnel	G9010.90	31 71 00	Lighting	G205010	26 56 68
Execution Execution and Closeout	Z1070.20 Z1070	01 73 00	Exterior Doors	B2050	
	21070	01 70 00	Supplementary Components	B2050.90 B2010	
Requirements	E1070 50	11 66 13	Exterior Wall Air Barrier	B2010.80	07 27 00
Exercise Equipment  Exhaust Air	E1070.50			B2010.60 B2080	
Duct Accessories	D3060.30 D3060.30	23 33 00	Appurtenances Construction	B2000 B2010.20	
Ducts and Casings	D3060.30	23 33 00	Dampproofing	B2010.20 B2010.80	07 11 00
HVAC Fans	D3060.30	23 34 00	Expansion Joints	B2010.80 B2010.80	07 11 00
Inlets	D3060.30	23 37 00	Grouting	B2010.80	03 60 00
Plenums and Chases	D3060.30	23 32 00	Insulation	B2010.80	07 20 00
Exhibit	D3000.30	23 32 00	Interior Skin	B2010.30	
Equipment	E1040.10	11 59 00	Specialties	B2010.30 B2080.90	10 74 00
Turntables	D1030.30	14 73 00	Vapor Retarder	B2000.90 B2010.80	07 26 00
Existing Conditions	1040	02 00 00	Vapor Retarder Veneer	B2010.00 B2010.10	
Assessment	1040.30	02 00 00	Weather Barrier	B2010.10 B2010.80	07 25 00
Information	3040.30	02 22 00	Exterior Wall Opening	D2010.00	01 20 00
Existing Hazardous Material	3040.50	00 31 19	Flashing	B2010.90	07 60 00
Information	3040.30	00 31 20	Joint Sealants	B2010.90 B2010.90	07 92 00
Existing Material			Lintels	B2010.90 B2010.90	
Assessment	1040.30	02 25 00	Sills	B2010.90 B2010.90	
Information	3040.45	02 23 00	Exterior Windows	B2010.90 B2020	08 50 00
Existing Products, Installation	Z1070.20	01 73 26	Supplementary Components	B2020.90	
Exit Signs	D5040.50	26 53 00	External Devices	D6010.30	27 24 19
Exit Oigno	20070.00	_0 00 00	Zatomai Bovioco	20010.00	_, _ <del>,</del> 10

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Extra Stock Materials	Z1070.70	01 78 46	Fans		
Eye/Face Wash Equipment	D2010.60	22 45 26	HVAC	D3050.50	23 34 00
Eyewash Equipment	D2010.60	22 45 16	Residential Ceiling	E1060.70	11 34 00
			Fats, Oils, and Grease	D2020.30	22 13 19.23
F			Disposal Systems		
Fabric Structures	F1020.10	13 31 00	Faucets, Healthcare	D2010.60	22 43 39
Fabricated Exterior Wall	B2010.40		Feedwater Equipment, Heating	D3020.10	23 53 00
Assemblies			Boiler		
Faced Panel Assemblies	B2010.40	07 44 63	Fees	Z1040.10	01 41 23
Wall Panel Assemblies	B2010.40	07 42 63	Fees and Contingencies	Z90	
Fabricated Rooms	F1010.50	13 20 00	Fences and Gates	G2060.20	32 31 00
Fabrications			Recreational Court	G2050.30	32 31 13.23
Exterior	B2080.70		Temporary	Z1050.40	01 56 26
Interior	C2020		Tennis Court	G205010	32 31 13.26
Fabricator Qualifications	Z1040.40	01 43 19	Fiber Soil Reinforcement	G1070.50	31 34 23
Fabric-Wrapped Wall Panels	C2010.60	09 77 23	Field		
Facade			Engineering	Z1070.10	01 71 23
Access Equipment	D1080.50	11 24 23	Offices and Sheds	Z1050.20	01 52 13
Support Truss Assemblies	B2010.10	05 19 13	Orders	Z1010.60	01 26 39
Faced Panels	 Doogo oo	07 44 00	Quality Control Procedures	Z1040.80	01 45 16
Exterior Bulkheads	B3080.30	07 44 00	Samples	Z1040.40	01 43 36
Exterior Ceilings	B3080.10	07 44 00	Services, Manufacturer's	Z1040.40	01 43 33
Exterior Soffits	B3080.20	07 44 00	Sport Surfacing	G205010	32 18 23.23
Exterior Walls	B2010.10	07 44 00	Supervision	Z1020.10	04.00.40
Facility	Z1090.80	01 94 00	Test Reporting Fill, Site	Z1020.50 G1070.20	01 33 19 31 23 23
Decommissioning Procedures	Z1090.80 Z1090.80	01 94 00	Film Transfer Cabinets	E1030.60	11 27 16
Fuel Systems	D3010	23 10 00	Filtration Equipment, Domestic	D2010.20	22 32 00
Fuel-Oil Pumps	D3010.30	23 10 00	Water	D2010.20	22 32 00
Gasoline Dispensing Pumps	D3010.30	23 12 16	Final		
Grounding	D5010.30	26 05 26	Cleaning	Z1070.30	01 74 00
HVAC Distribution Systems	D3050		Closeout Review	Z1070.60	01 77 16
Hydronic Distribution	D3050.10		Site Survey	Z1070.70	01 78 29
Maintenance	Z1090.50	01 93 00	Financing		
Procedures	Z1090.50	01 93 13	Budget	2090	
Operation	Z1090.30	01 92 00	Costs	Z9090	
Procedures	Z1090.30	01 92 13	Fine Grading	G1070.10	31 22 16
Packaged, Sewerage	D2020.10	22 13 43	Finish Grading	G1070.10	31 22 19
Pumping Stations			Finishes, Interior	C20	
Potable-Water Storage	D2010.10	22 12 00	Ceiling	C2050	09 50 00
Tanks			Stair	C2040	
Program	1020.50		Wall	C2010	09 70 00
Remediation	F20		Finishing Equipment	E1030.35	11 23 19
Septic Tanks	D2020.10	22 13 53	Finned-Tube Radiation Heaters	D3020.70	23 82 36
Services Coordination	Z1020.10	01 31 14	Fire Alarm	D7050.10	
Shell Commissioning	Z1090.10	01 91 19	Integrated Audio Visual	D7050.10	28 31 63
Steam Distribution	D3050.30		Evacuation Systems		
Stormwater Drains	D2030.30	22 14 26	Initiating Devices	D7050.10	28 31 53
Substructure Commissioning	Z1090.10	01 91 16	Fire Detection and Alarm	D7050.10	28 31 00
Facility Power Generation	D5010		Annunciation Panels and	D7050.10	28 31 23
Supplementary Components	D5010.90	07.00.00	Fire Stations	00.04.40	
Facsimiles and Modems	D6020.20	27 32 29	Control, GUI and Logic	28 31 13	
Servers	D6020.30	27 33 26	Systems Interfaces	D7050 10	20 21 22
Fan Coil Units	D3030 70	22 82 40	Fire Detection Sensors	D7050.10 D7050.10	28 31 33 28 31 43
Cooling Heating	D3030.70 D3020.70	23 82 19 23 82 19	Fire Escapes	B1080.60	05 51 23
i icaliiy	D3020.70	20 02 13	Fire Extinguishers	D4030.30	10 44 16
			Accessories	D4030.30 D4030.70	10 44 43
			, 10000001100	2 1000.70	.0 . 7 70

Size Domestic Water	KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Site   Domestic Water   Garden   Gard	Fire Hydrants		33 12 10	Supplementary Components	B1010 90	
Site Fire Protection					D1010.90	
Fire Protection					B1010 20	
Cabinets   D4030-10   0.4 4.13   Specialties   D4030-10   0.4 4.00   Temporary   2.105.10   0.151.16   Structural Frame   B1010-10						
Specialities		-	10 44 13			
Temporary   1960.10   01 51 16   Fire Pumps   D4010.10   21 30 00   Supplementary Components   D4010.90			-			13 28 26
Fire Pumps         D4010.10         21 30 0.00         Turseass         B1010.10         0.90 0.9 60 0.00           Supplementary Components         D4010.50         21 20 0.00         Enteractinguishing         D4010.50         21 20 0.00         Entrance         C2030.65            Fire-Extinguishing         D4010.50         21 20 0.00         Entrance         C2030.05            Fireprofing          0.78 00.00         Rose Construction         B1010.90         0.78 00.00         Turseament         C2030.10         0.96 10.0         96 10.0           Firestopping          0.78 00.00         78 00.00         Firestopping          0.78 00.00         78 00.00         Firestopping          0.78 40.00         Firestopping			01 51 16	Structural Frame		
Supplementary Components				Trusses		
Fire-Extinguishing         D4010.50         21 20 00         Entrance         C2030.85	Fire Suppression	D4010	21 00 00	Flooring	C2030	09 60 00
Supplementary Components	Supplementary Components	D4010.90		Access	C1060.10	09 69 00
Specialties	Fire-Extinguishing	D4010.50	21 20 00	Entrance	C2030.85	
Fireprofing	Fireplaces and Stoves	C1090.50	10 30 00	Supplementary Components	C2030.90	
Floor Construction	•	C1090.50	10 32 00			
Roof Construction						
Firestopping						
Floor Construction		B1020.90				
Interior Partitions   C1010,90   O7 84 00   Rod Construction   B1020,90   O7 84 00   Fire-Suppression, Water-Based   Piping   D4010,10   21 11 00   Piping   D4010,10   21 11 300   Sprinkler Systems   D4010,10   21 11 300   Standpipes   D4010,10   21 13 300   Exterior   B2080,60   O8 35 16   Sprinkler Systems   D4010,10   21 13 300   Exterior   B2080,60   O8 35 16   Standpipes   D4010,10   21 14 000   Parklings   D4010,10   D4100   Parklings   D4010,10   D4100   Parklings   D4010,10   D4100   D4100   Parklings   D4010,10   D4100   D						
Fire-Suppression, Water						
Fire-Suppression, Water-   D4010.10   Z1 10 00   Poors, Interior   C1030.30   08 35 13   Dassed   Piping   D4010.10   Z1 11 00   Sprinkler Systems   D4010.10   Z1 13 00   Standpipes   D4010.10   Z1 12 00   Interior   C1040.50   08 35 16   Sprinkler Systems   D4010.10   Z1 12 00   Interior   C1040.10   08 35 16   Standpipes   D4010.10   Z1 12 00   Interior   C1040.10   08 35 16   Interior   C1040.10   08 35 16   Interior   C1040.10   08 35 16   Interior   C1040.10   C1040.50   C				=		
Doors, Interior					D4010.10	21 13 39
Piping		D4010.10	21 10 00	<u> </u>	C1020.20	00 25 12
Sprinkler Systems		D4010 10	21 11 00			
Sprinkler Systems	. 0			· · · · · · · · · · · · · · · · · · ·		
Standpipes						
Water Storage						
Fire Suppression Systems, Integrated Automation Control Frood Frood Frized Automation Control First Aid Facilities						
Integrated Automation Control   First Aid Facilities   Z1050.20   01 52 16   Cooking Equipment   E1030.80   11 44 00   Delivery Carts   E1030.80   11 44 13   Delivery Carts   E1030.80   11 41 13   Delivery Carts   E1030.80   11 43 00   Conveyors   Partitions, Interior   C1010.10   C						
First Aid Facilities		200.0.00		-		
Prixed   Furnishings   E2010     B2080.10   10.82.13   Delivery Carts and   E1030.80   11.41.13   Delivery Carts and   E1030.80   11.43.00   Conveyors   Partitions, Interior   C1010.10     Delivery Conveyors   E1030.80   11.41.16   Delivery Conveyors   E1030.80   11.41.16   Delivery Conveyors   E1030.80   E1	_	Z1050.20	01 52 16		E1030.80	11 44 00
Grilles and Screens, Exterior Partitions, Interior         B2080.10         10 82 13         Conveyors         E1030.80         11 41 16           Windows, Exterior Windows, Interior         B2020.20         08 50 00         Dilivery Conveyors         E1030.80         11 41 16           Windows, Interior         C1020.20         08 50 00         Preparation Equipment         E1030.80         11 46 00           Flagpoles         G2060.35         10 75 00         Service Shelving         E1030.80         11 41 00           Flags and Banners         C1090.90         10 83 00         Storage Equipment         E1030.80         11 41 00           Flashing          07 60 00         Foodservice Equipment         E1030.80         11 41 00           Flat Fillers         B2010.90         07 60 00         Foodservice Equipment         E1030.80         11 41 00           Flat Fillers         E1090.40         11 93 26         Footings         Footings           Flexible Flashing          07 65 00         Forms         A1101.10            Flexible Pavement          32 12 00         Agreement Supplements         4010.30         00 52 00           Paking Lot         G2020.10         32 12 00         Bond         4020.30         00	Fixed				E1030.80	11 41 13
Partitions, Interior         C1010.10          Delivery Conveyors         E1030.80         11 41 16           Windows, Exterior         B2020.20         08 50 00         Dispensing Equipment         E1030.80         11 46 00           Windows, Interior         C1020.20         08 50 00         Preparation Equipment         E1030.80         11 42 00           Flagpoles         G2060.35         10 75 00         Service Shelving         E1030.80         11 41 00           Flashing          07 60 00         Storage Equipment         E1030.80         11 41 00           Flashing          07 60 00         Fodservice Equipment         E1030.80         11 41 00           Flashing          07 60 00         Fodservice Equipment         E1030.80         11 41 00           Flat Fillers         B2010.90         07 60 00         Fodservice Equipment         E1030.80         11 41 00           Flat Fillers         E1090.40         11 93 26         Storage Equipment         E1030.80         11 41 00           Flat Fillers         E1090.40         11 93 26         Spread         A1010.10            Flexible Flashing          07 65 00         Agreement         4010.30         00 52 00	Furnishings	E2010		•	E1030.80	11 43 00
Windows, Exterior Windows, Interior         B2020.20         08 50 00 Windows, Interior         Dispensing Equipment Preparation Equipment         E1030.80 Equipment         11 46 00 Equipment           Flagpoles         G2060.35 10 75 00 Service Shelving         Service Shelving         E1030.80 11 42 00           Flashing         07 60 00 Exterior Wall Openings         B2010.90 07 60 00         Foodservice Equipment         E1030.80 11 41 00           Exterior Wall Openings         B2010.90 07 60 00         Foodservice Equipment         E1030.80 11 41 00           Horizontal Openings         B3060.90 07 60 00         Footings         A1010.10           Flexible Flashing         07 65 00         Spread         A1010.30           Roofing         B3040.90 07 65 00         Agreement         4010.30 00 52 00           Roofing         B3010.90 07 65 00         Agreement         4010.30 00 52 00           Flexible Pavement         32 12 00         Bid         3050.10 00 41 00           Aviation         G2040.10 32 12 00         Bond         4020.10 00 61 00           Pedestrian         G2030.10 32 12 00         Certificates         4020.30 00 62 00           Roadway         G2010.10 32 12 00         Closeout         4020.50 00 63 00           Flexible Wood Sheet Wall         C2010.30 09 74 00         Contr	Grilles and Screens, Exterior	B2080.10	10 82 13	Conveyors		
Windows, Interior         C1020.20         08 50 00         Preparation Equipment         E1030.80         11 42 00           Flagpoles         G2060.35         10 75 00         Service Shelving         E1030.80         11 41 00           Flags and Banners         C1090.90         10 83 00         Storage Equipment         E1030.80         11 41 00           Flashing          07 60 00         Foodservice Equipment         E1030.80         11 40 00           Exterior Wall Openings         B3060.90         07 60 00         Footings         A1010.10            Flat Fillers         E1090.40         11 93 26         Spread         A1010.30            Flexible Flashing          07 65 00         Forms         Agreement         4010.30         00 52 00           Roofing         B3010.90         07 65 00         Agreement Supplements         4010.30         00 52 00           Flexible Pavement          32 12 00         Bid         3050.10         00 41 00           Aviation         G2040.10         32 12 00         Bond         4020.10         00 61 00           Pedestrian         G2020.10         32 12 00         Certificates         4020.30         00 62 00 <td< td=""><td>Partitions, Interior</td><td>C1010.10</td><td></td><td>Delivery Conveyors</td><td>E1030.80</td><td>11 41 16</td></td<>	Partitions, Interior	C1010.10		Delivery Conveyors	E1030.80	11 41 16
Flagpoles	Windows, Exterior	B2020.20	08 50 00		E1030.80	11 46 00
Flags and Banners			08 50 00			
Flashing						
Exterior Wall Openings         B2010.90         07 60 00         Footings           Horizontal Openings         B3060.90         07 60 00         Continuous         A1010.10            Flat Fillers         E1090.40         11 93 26         Spread         A1010.30            Flexible Flashing          07 65 00         Forms         Agreement         4010.30         00 52 00           Roofing         B3010.90         07 65 00         Agreement Supplements         4010.35         00 54 00           Flexible Pavement          32 12 00         Bid         3050.10         00 41 00           Aviation         G2040.10         32 12 00         Bond         4020.10         00 61 00           Parking Lot         G2020.10         32 12 00         Certificates         4020.30         00 62 00           Pedestrian         G2030.10         32 12 00         Clarification         4020.50         00 63 00           Roadway         G2010.10         32 12 00         Closeout         4020.70         00 65 00           Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Floor Lighting         G4050.20         26 56 36	<del>-</del>	C1090.90		- · · · ·		
Horizontal Openings   B3060.90   07 60 00   Continuous   A1010.10	_				E1030.80	11 40 00
Flat Fillers         E1090.40         11 93 26         Spread         A1010.30            Flexible Flashing          07 65 00         Forms           Horizontal Waterproofing         B3040.90         07 65 00         Agreement         4010.30         00 52 00           Roofing         B3010.90         07 65 00         Agreement Supplements         4010.35         00 54 00           Flexible Pavement          32 12 00         Bid         3050.10         00 41 00           Aviation         G2040.10         32 12 00         Bond         4020.10         00 61 00           Parking Lot         G2020.10         32 12 00         Certificates         4020.30         00 62 00           Pedestrian         G2030.10         32 12 00         Clarification         4020.50         00 63 00           Roadway         G2010.10         32 12 00         Closeout         4020.70         00 65 00           Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Covering         Modification         4020.50         00 63 00           Floor Lighting         G4050.20         26 56 36         Notice of Award         4010.50         00 55 00	· · · · · · · · · · · · · · · · · · ·			_	1101010	
Horizontal Waterproofing	· · · · · · · · · · · · · · · · · · ·					
Horizontal Waterproofing   B3040.90   07 65 00   Agreement   4010.30   00 52 00				•	A1010.30	
Roofing         B3010.90         07 65 00         Agreement Supplements         4010.35         00 54 00           Flexible Pavement          32 12 00         Bid         3050.10         00 41 00           Aviation         G2040.10         32 12 00         Bond         4020.10         00 61 00           Parking Lot         G2020.10         32 12 00         Certificates         4020.30         00 62 00           Pedestrian         G2030.10         32 12 00         Clarification         4020.50         00 63 00           Roadway         G2010.10         32 12 00         Closeout         4020.70         00 65 00           Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Covering         Modification         4020.50         00 63 00           Flood Lighting         G4050.20         26 56 36         Notice of Award         4010.10         00 51 00           Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Proposal         3050.20         00 42 0	•				4010 20	00 52 00
Flexible Pavement          32 12 00         Bid         3050.10         00 41 00           Aviation         G2040.10         32 12 00         Bond         4020.10         00 61 00           Parking Lot         G2020.10         32 12 00         Certificates         4020.30         00 62 00           Pedestrian         G2030.10         32 12 00         Clarification         4020.50         00 63 00           Roadway         G2010.10         32 12 00         Closeout         4020.70         00 65 00           Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Covering         Modification         4020.50         00 63 00           Flood Lighting         G4050.20         26 56 36         Notice of Award         4010.10         00 51 00           Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Proposal         3050.20         00 42 00				~		
Aviation         G2040.10         32 12 00         Bond         4020.10         00 61 00           Parking Lot         G2020.10         32 12 00         Certificates         4020.30         00 62 00           Pedestrian         G2030.10         32 12 00         Clarification         4020.50         00 63 00           Roadway         G2010.10         32 12 00         Closeout         4020.70         00 65 00           Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Covering         Modification         4020.50         00 63 00           Flood Lighting         G4050.20         26 56 36         Notice of Award         4010.10         00 51 00           Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00						
Parking Lot         G2020.10         32 12 00         Certificates         4020.30         00 62 00           Pedestrian         G2030.10         32 12 00         Clarification         4020.50         00 63 00           Roadway         G2010.10         32 12 00         Closeout         4020.70         00 65 00           Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Covering         Modification         4020.50         00 63 00           Flood Lighting         G4050.20         26 56 36         Notice of Award         4010.10         00 51 00           Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00						
Pedestrian         G2030.10         32 12 00         Clarification         4020.50         00 63 00           Roadway         G2010.10         32 12 00         Closeout         4020.70         00 65 00           Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Covering         Modification         4020.50         00 63 00           Flood Lighting         G4050.20         26 56 36         Notice of Award         4010.10         00 51 00           Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00						
Roadway         G2010.10         32 12 00         Closeout         4020.70         00 65 00           Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Covering         Modification         4020.50         00 63 00           Flood Lighting         G4050.20         26 56 36         Notice of Award         4010.10         00 51 00           Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00	_					
Flexible Wood Sheet Wall         C2010.30         09 74 00         Contracting         4010         00 50 00           Covering         Modification         4020.50         00 63 00           Flood Lighting         G4050.20         26 56 36         Notice of Award         4010.10         00 51 00           Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00						
Covering         Modification         4020.50         00 63 00           Flood Lighting         G4050.20         26 56 36         Notice of Award         4010.10         00 51 00           Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00		C2010.30			4010	
Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00	Covering			G	4020.50	00 63 00
Floor and Wall Cleaning         E1030.40         11 24 13         Notice to Proceed         4010.50         00 55 00           Equipment         Procurement         3050            Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00	•	G4050.20	26 56 36	Notice of Award	4010.10	00 51 00
Floor Construction         B1010          Project         4020         00 60 00           Balcony         B1010.30          Proposal         3050.20         00 42 00		E1030.40	11 24 13	Notice to Proceed	4010.50	00 55 00
Balcony B1010.30 Proposal 3050.20 00 42 00	• •			Procurement	3050	
·	Floor Construction					
Mezzanine B1010.40	_			Proposal	3050.20	00 42 00
	Mezzanine	B1010.40				

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Foundations	A10		Integrated Audio Evacuation	D7050.30	28 33 23
Anchors	A1020.40	31 68 00	Systems		
Column	A1010.30		Fuel-Oil		
Drainage	A6010.10	33 46 13	Detection and Alarm	D7050.40	28 34 00
Raft	A2010.60	03 71 00	GUI and Logic Systems	D7050.40	28 34 13
Special	A1020	31 60 00	Integrated Audio	D7050.40	28 34 23
Standard	A1010		Evacuation Systems	D=0=0 40	00.04.00
Walls	A1010.10		Detection Sensors	D7050.40	28 34 33
Fountains	C2060 40		Piping, Site	G3060.20	33 52 13.13
Equipment Exterior	G2060.10 G2060.10		Pumps, Site Storage Tanks, Site	G3060.20 G3060.20	33 52 13.23 33 56 00
Interior	F1050.20		Fume Hood Exhaust	D3060.20	23 38 16
Equipment Controls	1 1030.20	22 52 23	Fume Hoods, Laboratory	E1040.10	11 53 13
Exterior	G2060.10	22 52 23	Functional Towers	F1020.70	
Interior	F1050.20	22 52 23	Funding	1090	
Exterior	G2060.10	13 12 13	Budget	1090.10	00 31 16
Interior	F1050.20	13 12 23	Cash Flow	1090.50	
Piping System		22 52 13	Sources	1090.30	
Exterior	G2060.10	22 52 13	Funiculars	D1030.70	34 13 00
Interior	F1050.20	22 52 13	Furnaces	D3020.10	23 54 00
Plumbing Systems		22 52 00	Furnishings	E20	12 00 00
Exterior	G2060.10	22 52 00	Accessories	E2050.40	12 46 00
Interior	F1050.20	22 52 00	Movable	E2050	
Pumps		22 52 16	Site	G2060.25	12 93 00
Exterior	G2060.10	22 52 16	Furniture	E2050.30	12 50 00
Interior	F1050.20	22 52 16	Fuses, Site Electrical	G4010.50	
Specialties Exterior	G2060.10		Fusible Interrupter Switchgear, Site Electrical	G4010.50	33 77 26
Interior	F1050.20		Site Electrical		
Water Treatment	1 1030.20	22 52 19	G		
Exterior	G2060.10	22 52 19	Gabions	G1070.60	31 36 00
Interior	F1050.20	22 52 19	Boxes	G1070.60	31 36 13
Framed Fabric Structures	F1020.10	13 31 33	Mattresses	G1070.60	31 36 19
Framed Skylights	B3060.10		Retaining Walls	G2060.60	32 32 36
Frames			Game Room Equipment	E1070.60	11 67 53
		00 10 00	Cormont Convovers Henring	E4020.25	44.00.40
Exterior Doors	B2050.90	08 10 00	Garment Conveyors, Hanging	E1030.35	11 23 43
Exterior Doors Horizontal Openings	B2050.90 B3060.90		Garment Conveyors, Hanging Gas	E1030.35	11 23 43
Horizontal Openings Interior Doors		 08 10 00		G1050.40	02 56 19
Horizontal Openings Interior Doors Interior Windows	B3060.90 C1030.90 C1020.90	 08 10 00 08 50 00	Gas Containment Distribution, Site	G1050.40 G3060.10	
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In	B3060.90 C1030.90 C1020.90 E1030.80	 08 10 00 08 50 00 11 41 26	Gas Containment Distribution, Site Equipment	G1050.40 G3060.10 D2060.30	02 56 19 33 51 00
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10	08 10 00 08 50 00 11 41 26 14 20 00	Gas Containment Distribution, Site Equipment Lighting, Exterior	G1050.40 G3060.10 D2060.30 G2060.45	02 56 19 33 51 00  10 84 13
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters	B3060.90 C1030.90 C1020.90 E1030.80	 08 10 00 08 50 00 11 41 26	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45	02 56 19 33 51 00  10 84 13 10 84 16
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation	G1050.40 G3060.10 D2060.30 G2060.45	02 56 19 33 51 00  10 84 13 10 84 16 
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60	02 56 19 33 51 00  10 84 13 10 84 16  22 63 13
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60	02 56 19 33 51 00  10 84 13 10 84 16  22 63 13
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30	02 56 19 33 51 00  10 84 13 10 84 16  22 63 13  22 63 19
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60	02 56 19 33 51 00  10 84 13 10 84 16  22 63 13  22 63 19
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection Gas Systems	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10	02 56 19 33 51 00  10 84 13 10 84 16  22 63 13  22 63 19  22 63 00
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping Pumps	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00 23 12 00	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection Gas Systems Healthcare	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10	02 56 19 33 51 00  10 84 13 10 84 16  22 63 13  22 63 19  22 63 00 22 63 00
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection Gas Systems	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10	02 56 19 33 51 00  10 84 13 10 84 16  22 63 13  22 63 19  22 63 00
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping Pumps Storage Tanks	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00 23 12 00	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection Gas Systems Healthcare Laboratory	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10	02 56 19 33 51 00  10 84 13 10 84 16  22 63 13  22 63 19  22 63 00 22 63 00
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping Pumps Storage Tanks Fuel-Fired	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10 D3010.30 D3010.50	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00 23 12 00 23 13 00	Gas Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection Gas Systems Healthcare Laboratory Gasoline	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10  D2060.30 D2060.30	02 56 19 33 51 00 10 84 13 10 84 16 22 63 13 22 63 19 22 63 00 22 63 00 22 63 00
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping Pumps Storage Tanks Fuel-Fired Domestic Water Heaters	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10 D3010.30 D3010.50	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00 23 12 00 23 13 00	Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection  Gas Systems Healthcare Laboratory  Gasoline Distribution, Site	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10  D2060.30 D2060.30	02 56 19 33 51 00 10 84 13 10 84 16 22 63 13 22 63 19 22 63 00 22 63 00 22 63 00 33 52 16
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping Pumps Storage Tanks Fuel-Fired Domestic Water Heaters Heating Boilers Fuel-Gas Detection and	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10 D3010.30 D3010.50	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00 23 12 00 23 13 00 22 34 00 23 55 00	Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection  Gas Systems Healthcare Laboratory  Gasoline Distribution, Site Piping, Site Pumps, Site Storage Tanks, Site	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10  D2060.30 D2060.30 G3060.30 G3060.30	02 56 19 33 51 00 10 84 13 10 84 16 22 63 13 22 63 19 22 63 00 22 63 00 22 63 00 22 63 00 33 52 16 33 52 16.13 33 52 16.23 33 56 00
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping Pumps Storage Tanks Fuel-Fired Domestic Water Heaters Heaters Heating Boilers Fuel-Gas Detection and Alarm	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10 D3010.30 D3010.50 D2010.20 D3020.10 D3020.10 D3020.10 D7050.30	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00 23 12 00 23 13 00 22 34 00 23 55 00 23 52 00 28 33 00	Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection  Gas Systems Healthcare Laboratory  Gasoline Distribution, Site Piping, Site Pumps, Site	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10  D2060.30 D2060.30 G3060.30 G3060.30 G3060.30	02 56 19 33 51 00 10 84 13 10 84 16 22 63 13 22 63 19 22 63 00 22 63 00 22 63 00 22 63 00 33 52 16 33 52 16.13 33 52 16.23
Horizontal Openings Interior Doors Interior Windows Freezers, Walk-In Freight Elevators Frequency Converters Fuel Cells Distribution, Site Heat Generation Oil, Temporary Piping Pumps Storage Tanks Fuel-Fired Domestic Water Heaters Heaters Heating Boilers Fuel-Gas Detection and	B3060.90 C1030.90 C1020.90 E1030.80 D1010.10 D5010.10 D5010.40 G3060 D3020.10 Z1050.10 D3010.10 D3010.30 D3010.50	08 10 00 08 50 00 11 41 26 14 20 00 26 32 26 48 18 00  01 51 19 23 11 00 23 12 00 23 13 00 22 34 00 23 55 00 23 52 00	Containment Distribution, Site Equipment Lighting, Exterior Lighting, Interior Mitigation Piping Site Utilities Storage Tanks Utility Connection  Gas Systems Healthcare Laboratory  Gasoline Distribution, Site Piping, Site Pumps, Site Storage Tanks, Site	G1050.40 G3060.10 D2060.30 G2060.45 C1090.45 A60 G30 D2060.30 G3060.10  D2060.30 D2060.30 G3060.30 G3060.30 G3060.30 G3060.30	02 56 19 33 51 00 10 84 13 10 84 16 22 63 13 22 63 19 22 63 00 22 63 00 22 63 00 22 63 00 33 52 16 33 52 16.13 33 52 16.23 33 56 00

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Gates			Glazed		
Exterior	B2050.70		Partitions, Interior	C1010.20	
Parking	G2020.80	11 12 33	Structures	F1020.40	13 34 13
Pedestrian	G2030.80	11 14 13	Glazing		08 80 00
Interior	C1040.50		Exterior		08 80 00
Parking	E1010.30	11 12 33	Doors	B2050.90	08 80 00
Pedestrian	E1010.70	11 14 13	Windows	B2020.90	08 80 00
Operators	G2060.20	32 31 11	Horizontal Openings	B3060.90	08 80 00
Recreational Court	G2050.30	32 31 13.23	Interior		08 80 00
Roadway Vehicle Fare	G2010.80	34 52 33	Doors	C1030.90	08 80 00
Tennis Court	G205010	32 31 13.26	Windows	C1020.90	08 80 00
General	Z		Glued-Laminated		
Commissioning	Z1090.10	01 91 13	Balcony Construction	B1010.30	06 18 00
Requirements			Canopy Construction	B1020.30	06 18 00
Conditions	4030.30	00 72 00	Columns Supporting		06 18 16
Requirements	Z10	01 00 00	Floors	B1010.10	06 18 16
General Purpose Electrical	D5030		Roofs	B1020.10	06 18 16
Power			Floor Decks	B1010.20	06 18 00
Supplementary Components	D5030.90		Floor Girders and Beams	B1010.10	06 18 13
General Service	D2050		Mezzanine Construction	B1010.40	06 18 00
Compressed-Air	Dooro	22.45.40	Ramps	B1010.50	06 18 00
Packaged Air Compressors and Receivers	D2050	22 15 19	Roof Decks Roof Girders and Beams	B1020.20 B1020.10	06 18 00 06 18 13
	D2050	22 15 13		Z1020.70	01 35 26
Piping Valves	D2050 D2050	22 15 15	Governmental Safety Requirements	21020.70	01 33 20
General-Duty Valves	D2030	22 13 10	Grade Beams	A1020.80	
Cooling System	D3030.90	23 05 23	Grading	G1070.10	31 22 00
Distribution Systems	D3050.90	23 05 23	Grandstands and Bleachers	G205010	13 34 16
Fire Suppression	D4010.90	21 05 23	Exterior	F1020.40	13 34 16
Heating System	D3020.90	23 05 23	Graphics/Multimedia Software	D6010.50	27 25 23
Geodesic			Grasses	G2080.20	32 92 00
Domes	F1020.30	13 33 13	Gratings		
Structures	F1020.30	13 33 00	Entrance Floor	C2030.85	12 48 19
Geofoam	G1070.20	31 23 23.43	Metal	B1080.70	05 53 00
Geophysical _			Gravel Stops and Fascias		07 71 19
Data	3040.55	00 31 31	Horizontal Waterproofing	B3040.90	07 71 19
Investigations	1040.50	02 31 00	Rooting	B3010.90	07 71 19
Geosynthetic Slope Protection	C1070 FF	24 25 40	Gravel, Roofing	B3010.50	
Soil Reinforcement	G1070.55 G1070.50	31 35 19 31 34 19	Gray Water Systems Equipment	D2030.60 D2030.60	
Soil Stabilization	G1070.30 G1070.40	31 32 19	Piping System	D2030.60 D2030.60	
Geotechnical	G1070.40	31 32 19	Specialties	D2030.60	
Data	3040.60	00 31 32	Tanks	D2030.60	22 13 63
Engineers	2030.30		Treatment Equipment	D2030.60	
Investigations	1040.50	02 32 00	Grease Removal Devices	D2020.30	22 13 19.26
Geotextile Subsurface	G3030.60	33 46 26	Green Roofing: See Vegetated	B3010.50	07 55 63
Drainage Filtration			Low-Slope Roofing		
Geothermal Heat Generation	D3020.10		Grilles		
Girders and Beams			Exterior	B2050	
Floor	B1010.10		Operating	B2050.60	
Roof	B1020.10		Interior	C1040.10	
Glass Unit Masonry: See Unit		04 23 00	Grilles and Gates, Interior	C1040	
Masonry Glass-Fiber-Reinforced		03 49 00	Grilles and Screens Exterior Fixed	B2080.10	10 82 13
Concrete		00 <del>4</del> 8 00	Interior Fixed	C1010.70	10 82 13
Exterior Fabrications	B2080.70	03 49 00	Ground Covers	G2080.30	32 93 13
Interior Fabrications	C2020	03 49 00	Ground Freezing	A9030.60	31 54 00
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Grounding and Bonding			Process Support Plumbing	D2060.90	22 05 29
Communications	D6090.10	27 05 26	Sanitary Drainage	D2000.90	22 05 29
Communications Distribution	G5010.30	33 82 43	Ventilation	D3060.90	23 05 29
Electrical Service and	D5020.90	26 05 26	Hardware	20000.00	20 00 20
Distribution	20020.00	_0 00 _0	Exterior		
Electronic Safety and	D7090.10	28 05 26	Doors	B2050.90	08 71 00
Security			Windows	B2020.90	08 75 00
Facility Power Generation	D5010.90	26 05 26	Horizontal Openings	B3060.90	08 75 00
General Purpose Power	D5030.90	26 05 26	Interior		
Integrated Automation	D8010.90	27 05 26	Doors	C1030.90	08 71 00
Lighting	D5040.90	26 05 26	Windows	C1020.90	08 75 00
Miscellaneous Electrical	D5080.90	26 05 26	Hard-Wired Detention	D7070.10	28 46 13
Grounding, Site	G4010.70	33 79 00	Monitoring and Control		
Ground-Set Flagpoles	G2060.35	10 75 16	Systems		
Groundwater Treatment	G1050.80	02 71 00	Harmonic Filters	D5010.60	26 35 26
Grouting		03 60 00	Hat and Coat Racks	C1090.70	10 57 13
Exterior Wall	B2010.80	03 60 00	Hatches, Roof	B3060.50	07 72 33
Floor Construction	B1010.90	03 60 00	Haul Routes	Z1050.35	01 55 16
Roof Construction	B1020.90	03 60 00	Hazard Warning Lighting	D5040.50	26 55 33
Gun Ports	E1040.60	11 18 16	Hazardous Materials		
Gutters	B3020.70	07 71 23	Assessment	1040.30	02 26 00
Gymnasium			Remediation	F2010	02 80 00
Dividers	E1070.50	11 66 53	Requirements	Z1060.50	01 66 13
Equipment	E1070.50	11 66 33	Hazardous Waste	04050 50	00.00.00
Gypsum Board	04070.00	09 20 00	Drum Handling	G1050.50	02 86 00
Ceilings, Suspended	C1070.20	09 20 00	Recovery Processes	G1050.60	02 62 00
Exterior	D2000 20	00 00 00	Health, Safety, and Emergency	Z1020.70	01 35 29
Bulkheads Wall Interior Skin	B3080.30	09 20 00	Response Procedures  Healthcare		
	B2010.30 B3080.10	09 20 00 09 20 00	Casework	E2010.30	12 35 70
Ceilings Soffits	B3080.10	09 20 00	Casework Chemical-Waste Systems	D2060.40	22 66 00
Finish, Ceilings	C2050.10	09 20 00	Communications and	D6060.30	27 52 00
Interior Partitions	C1010.10	09 20 00	Monitoring	D0000.50	21 32 00
Stair Soffits	B1080.30	09 20 00	Compressed-Air Systems	D2060.10	22 61 00
Subgrade Enclosure Wall	A2010.20	09 20 00	Equipment	E1040.20	11 70 00
Interior Skin	712010.20	00 20 00	Facility Special Procedures	Z1020.70	01 35 13.19
			Furniture	E2050.30	12 56 70
Н			Gas Systems	D2060.30	22 63 00
Hand-Held Emergency Drench	D2010.60	22 45 29	Imaging Systems	D6060.30	27 52 19
Hoses			Lighting	D5040.50	26 55 70
Handling of Lighting Ballasts	F2010.40	02 84 16	Metal Supports	E1040.20	05 45 23
and Lamps Containing			Plumbing Fixtures	D2010.60	22 43 00
Mercury or PCB			Processed Water Systems	D2060.50	22 67 00
Hangar Doors	B2050.30	08 34 16	Seating	E2050.30	12 52 70
Hangers and Supports			Vacuum Systems	D2060.20	22 62 00
Building Support Plumbing	D2030.90	22 05 29	Heat Exchangers		
Communications	D6090.10	27 05 29	Domestic Water	D2010.20	22 35 00
Cooling System	D3030.90	23 05 29	HVAC	D3020.10	23 57 00
Distribution Systems	D3050.90	23 05 29	Heat Generation	D3020.10	
Domestic Water	D2010.90	22 05 29	Biomass	D3020.10	
Electrical Service and	D5020.90	26 05 29	Fuel-Fired	D3020.10	
Distribution			Geothermal	D3020.10	
Facility Power Generation	D5010.90	26 05 29	Solar	D3020.10	23 56 00
Fire Suppression	D4010.90	21 05 29	Heat Pumps	D3030.70	
General Purpose Power	D5030.90	26 05 29	Air-Source	D3030.70	23 81 43
Heating System	D3020.90	23 05 29	Unitary	D3030.70	22 94 46
Lighting Miscellaneous Electrical	D5040.90 D5080.90	26 05 29 26 05 29	Water-Source	D3030.70	23 81 46
MISCENALIEUUS EIECUICAI	D9000.90	20 00 28	I		

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Heat Tracing			Membrane	B3040.30	07 10 00
<b>Building Support Plumbing</b>	D2030.90	22 05 33	Sheet Metal Flashing and	B3040.90	07 62 00
Distribution Systems	D3050.90	23 05 33	Trim		
Domestic Water	D2010.90	22 05 33	Substrate Board	B3040.90	09 28 00
Fire Suppression	D4010.90	21 05 33	Vapor Retarder	B3040.90	07 26 00
Process Support Plumbing	D2060.90	22 05 33	Horticultural Equipment	E1090.40	11 93 00
Sanitary Drainage	D2020.90	22 05 33	Hospital Unit Modules	F1010.10	13 42 25
Heaters, Domestic Water	D2010.20	22 33 00	Hospitality		
		22 34 00	Casework	E2010.30	12 35 25
Heating Boilers	D3020.10	23 52 00	Equipment	E1030.50	11 25 00
Electric	D3020.10	23 52 13	Furniture	E2050.30	12 54 00
Feedwater Equipment	D3020.10	23 53 00	Turntables	D1030.30	14 72 00
Fuel-Fired	D3020.10	23 52 00	Hot Tubs	F1050.10	13 17 13
Heating Solar Collectors	D3020.10	23 56 13	Hotel and Motel Furniture	E2050.30	12 54 13
Heating Systems	D3020		Housekeeping Carts	E1030.40	11 24 16
Supplementary Components	D3020.90		Humidity Control	D3050.50	23 84 00
Heating Utility Connection	G3050.10		HVAC	D30	23 00 00
Heating, Cooling, and	Z1050.10	01 51 23	Air		
Ventilating, Temporary			Cleaning	D3060.70	23 40 00
Heating, Ventilation, and Air	D30	23 00 00	Cleaning Devices	D3050.50	23 40 00
Conditioning: See HVAC			Distribution	D3050.50	
Heavy Timber			Distribution Components	D3050.50	23 30 00
Balcony Construction	B1010.30	06 13 00	Ducts and Casings	D3050.50	23 31 00
Canopy Construction	B1020.30	06 13 00	Heat Exchangers	D3020.10	23 57 00
Columns Supporting		06 13 00	Systems, Integrated	D8010.50	25 55 00
Floors	B1010.10	06 13 00	Automation Control		
Roofs	B1020.10	06 13 00	HVAC Fans	D3050.50	23 34 00
Floor			Exhaust Air	D3060.30	23 34 00
Girders and Beams	B1010.10	06 13 00	Outside Air	D3060.40	23 34 00
Trusses	B1010.10	06 13 26	Return Air	D3060.20	23 34 00
Mezzanine Construction	B1010.40	06 13 00	Supply Air	D3060.10	23 34 00
Ramps	B1010.50	06 13 00	Hydraulic Elevators		14 24 00
Roof			Freight	D1010.10	14 24 13
Girders and Beams	B1020.10	06 13 00	Passenger	D1010.10	14 24 23
Trusses	B1020.10	06 13 26	Residential	D1010.10	14 24 33
Helipad Lighting	D5040.50	26 55 39	Service	D1010.10	14 24 43
High Energy Magnetic Pulse	F1030.50		Hydro-Mulching	G2080.20	32 92 13
Protection			Hydronic		
Historic			Cooling Distribution, Site	G3050.40	33 61 00
Restoration Requirements	1030.70	01 35 91	Distribution, Facility	D3050.10	
Treatment Procedures	Z1020.70	01 35 91	Heating Distribution, Site	G3050.10	33 61 00
Hoists	D1050.20	41 22 23	Piping	D3050.10	23 21 13
Temporary	Z1050.30	01 54 16	Pumps	D3050.10	23 21 23
Hollow Metal Doors: See		08 11 13	Hydroponic Growing Systems	E1090.40	11 93 13
Exterior and Interior Doors			Hydro-Turbine Generators	D5010.10	26 32 19
Horizontal Conveying	D1030		Hyperbaric Rooms	F1010.50	13 21 16
Horizontal Enclosures,	B30		,,		
Exterior			1		
Traffic Bearing	B3040		Ice		
Horizontal Openings	B3060		Machines	E1030.80	11 47 00
Supplementary Components	B3060.90		Rinks	F1050.60	13 18 00
Horizontal Waterproofing	20000.00		Storage	D3030.50	23 71 19
Copings	B3040.90	07 71 13	Identification	20000.00	
Counterflashing Systems	B3040.90	07 71 16	Building Support Plumbing	D2030.90	22 05 53
Deck Insulation	B3040.90	07 20 00	Communications	D6090.10	27 05 53
Expansion Joints	B3040.90	07 71 29	Cooling System	D3030.90	23 05 53
Flexible Flashing	B3040.90	07 65 00	Distribution Systems	D3050.90	23 05 53
Gravel Stops and Fascias	B3040.90	07 71 19	Domestic Water	D2010.90	22 05 53
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Electrical Service and	D5020.90	26 05 53	Instrumentation and Control		
Distribution			Building Support Plumbing	D2030.90	22 09 00
Electronic Safety and	D7090.10	27 05 53	Cooling System	D3030.90	23 09 00
Security			Distribution Systems	D3050.90	23 09 00
Facility Power Generation	D5010.90	26 05 53	Domestic Water Systems	D2010.90	22 09 00
Fire Suppression	D4010.90	21 05 53	Electrical Service and	D5020.90	26 09 00
Integrated Automation	D8010.90	27 05 53	Distribution		
General Purpose Power	D5030.90	26 05 53	Facility Power Generation	D5010.90	26 09 00
Heating System	D3020.90	23 05 53	Fire Suppression	D4010.90	21 09 00
Lighting	D5040.90	26 05 53	General Purpose Power	D5030.90	26 09 00
Miscellaneous Electrical	D5080.90	26 05 53	Heating System	D3020.90	23 09 00
Process Support Plumbing	D2060.90	22 05 53	Lighting	D5040.90	26 09 00
Sanitary Drainage	D2020.90	22 05 53	Liquid and Gas Site Utilities	G3090.10	03 09 00
Ventilation	D3060.90	23 05 53	Miscellaneous Electrical	D5080.90	26 09 00
Impact Attenuating Devices	G2010.40	34 71 16	Process Support Plumbing	D2060.90	22 09 00
Incineration Decontamination	G1050.20	02 53 13	Sanitary Drainage	D2020.90	22 09 00
Incinerators	E1090.10	11 81 19	Site Lighting	G4050.90	26 09 00
Indoor Air Quality			Ventilation	D3060.90	23 09 00
Procedures	Z1020.70	01 35 46	Instrumentation, Special	F1080	13 50 00
Requirements	1030.56	01 81 19	Insulated Rooms	F1010.50	13 21 23
Indoor Central-Station Air-	D3050.50	23 73 00	Insulation		
Handling Units			Building Support Plumbing	D2030.90	22 07 00
Indoor Soccer Boards	F1060.10	13 28 13	Cooling System	D3030.90	23 07 00
Induction Units			Distribution Systems	D3050.90	23 07 00
Cooling	D3030.70	23 82 26	Domestic Water	D2010.90	22 07 00
Heating	D3020.70	23 82 26	Exterior Wall	B2010.80	07 20 00
Industrial	04000 70	00.04.40	Fire Suppression	D4010.90	21 07 00
Doors, Interior	C1030.70	08 34 19	Floor Construction	B1010.90	07 20 00
Exterior	B2050.40	08 34 19	Heating System	D3020.90	23 07 00
Furniture	E2050.30	12 57 00	Process Support Plumbing	D2060.90	22 07 00
Turntables	D1030.30	14 71 00	Roof Construction	B1020.90	07 20 00
Infection Control Procedures	Z1020.70	01 35 33	Sanitary Drainage	D2020.90	22 07 00
Information	2040 40	00 24 24	Slab-On-Grade	A4090.10	07 21 00
Environmental Assessment	3040.40	00 31 24	Standard Foundation	A1010.90	07 21 00
Existing Condition	3040.30 3040.50	00 31 19	Subgrade Enclosure Wall Ventilation	A2010.90	07 20 00
Existing Hazardous Material Existing Material	3040.50	00 31 26 00 31 25	Insulators and Fittings, Site	D3060.90 G4010.20	23 07 00 33 71 23
Geophysical Data	3040.45	00 31 25	Electrical	G4010.20	33 / 1 23
Geophysical Data  Geotechnical Data	3040.60	00 31 31	Integrated Audio-Video	D6030.10	27 41 16
Specialties	C1090.20	10 10 00	Systems and Equipment	D0030.10	21 41 10
Survey	3040.35	00 31 21	Integrated Automation	D80	25 00 00
Informational Kiosks	C1090.20	10 18 00	Control of	D00	25 00 00
Infrared and Radio Frequency	D6060.50	27 53 16	Communication Systems	D8010.70	25 57 00
Tracking Systems	D0000.00	27 00 10	Conveying Equipment	D8010.20	25 52 00
Infrared Transmitter and	G5010.50	33 83 19	Electrical Systems	D8010.20	25 56 00
Receivers	00010.00	00 00 10	Electronic Safety and	D8010.80	25 58 00
Infrastructure Demolition	G1020.30		Security Systems	D0010.00	20 00 00
Inlets, Exhaust Air	D3060.30	23 37 00	Equipment	D8010.10	25 51 00
Insect Control Devices	C1090.90	10 81 16	Facility Controls	D8010	25 50 00
Installation	Z1070.20	01 73 19	Fire-Suppression Systems	D8010.30	25 53 00
Allowances	Z1010.10	01 21 23	HVAC Systems	D8010.50	25 55 00
Installer Qualifications	Z1040.40	01 43 23	Plumbing Systems	D8010.40	25 54 00
Institutional	21010.10	01 10 20	Integrated	20010.10	200100
Equipment	E1040	11 50 00	Ceiling Assemblies	C1070.70	09 58 00
Furniture	E2050.30	12 56 00	Construction	F1010	
Instructions	3030.10	00 21 00	Project Delivery	3010.10	00 52 95
Procurement	3030	00 20 00		55.5.15	00 72 95
			Interactive Voice Response	D6020.30	27 33 23
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Interceptors, Sanitary Waste	D2020.10	22 13 23	Remote Devices and	D7010.50	28 16 19
Intercommunications and	D6060.10	27 51 23	Sensors	טט.טוטזע	20 10 13
Program Systems	200000		Systems Infrastructure	D7010.50	28 16 16
Interior			Investigations		
Construction	C10		Geophysical	1040.50	02 31 00
Demountable Partitions	C1010.40	10 22 19	Geotechnical	1040.50	02 32 00
Designers	2030.20		Subsurface	1040.50	02 30 00
Door Frames	C1030.90	08 10 00	Invitations	3020.10	00 11 00
Door Glazing	C1030.90	08 80 00	Ion Change Decontamination	G1050.15	02 52 16
Door Hardware	C1030.90	08 70 00	Ironing Equipment, Commercial	E1030.35	11 23 23
Door Louvers	C1030.90	08 91 26	Irrigation	E4000 40	22.00.00
Door Specialty Frames Doors	C1030.90 C1030	08 30 00 08 10 00	Agricultural Planting	E1090.40 G2080.10	32 86 00 32 84 00
Finish Schedules	C2090		Pumps	G2080.10 G2080.10	32 82 00
Finishes	C2030		i umps	02000.10	32 02 00
Fixed Partitions	C1010.10		J		
Gas Lighting	C1090.45	10 84 16	Joint Sealants		
Glazed Partitions	C1010.20		Exterior Wall Openings	B2010.90	07 92 00
Lighting	D5040.50	26 51 00	Horizontal Openings	B3060.90	07 92 00
Money-Changing Equipment	E1010.70	11 14 16	Joists		
Operable Partitions	C1010.50		Floor	B1010.10	
Parking			Roof	B1020.10	
Control Equipment	E1010.30	11 12 00	V		
Fee Collection Equipment	E1010.30	11 12 26	K		
Gates	E1010.30	11 12 33	Kilns	E1040.10	11 95 13
Key and Card Control	E1010.30	11 12 13	Kiosks, Informational	C1090.20	10 18 00
Units Meters	E1010.30	11 12 23	Kitchen Appliances, Residential	E1060.10	11 31 13
Ticket Dispensers	E1010.30	11 12 23	L		
Planters and Artificial Plants,	E2050.90	12 92 00	Laboratory		
Movable	22000.00	12 02 00	Casework	E2010.30	12 35 53
Railings and Handrails	C1090.10		Chemical-Waste Systems	D2060.40	22 66 00
Scoreboards	E1070.50	11 66 43	Compressed-Air Systems	D2060.10	22 61 00
Screens	C1010.70		Equipment	E1040.10	11 53 00
Skin, Subgrade Enclosure	A2010.20		Fume Hoods	E1040.10	11 53 13
Wall			Furniture	E2050.30	12 56 53
Specialties	C1090		Gas Systems	D2060.30	22 63 00
Windows	C1020	08 50 00	Incubators	E1040.10	11 53 16
Interior Partitions	C1010	10 22 00	Processed Water Systems	D2060.50	22 67 00
Supplementary Components	C1010.90		Refrigerators	E1040.10	11 53 23
Interior Pedestrian Control Equipment	E1010 70	11 14 00	Sterilizers	E1040.10 D2060.20	11 53 19 22 62 00
Detection Equipment	E1010.70 E1010.70	11 14 00	Vacuum Systems Ladders	B1080.80	05 51 23
Fare Collection Equipment	E1010.70	11 14 26	Roof	B3020.10	05 51 33
Gates	E1010.70	11 14 13	Lagoons, Sanitary Sewerage	G3020.60	33 47 23
Security Equipment	E1010.70	11 14 53	Land/Project Development	2030.70	
Interiors	С		Landfill Construction and	G1050.60	02 66 00
Commissioning	Z1090.10	01 91 23	Storage		
Internal Cellular, Paging, and	D6060.50	27 53 19	Landscape		
Antenna Systems			Architects	2030.20	
Internet	_		Edging	G2080.50	32 94 13
Conferencing Software	D6010.50	27 25 39	Lighting	G2080.70	26 56 26
Protocol Voice Switches	D6020.10	27 31 23	Timbers	G2080.50	32 94 16
Intrusion Detection	D7010.50	28 16 00	Landscaping	G2080	40.00.40
Control, GUI and Logic	D7010.50	28 16 13	Accessories, Interior Fixed	E2010.90	12 92 43
Systems Interfaces	D7010.50	28 16 33	Accessories, Interior Movable Activities	E2050.90 G2080.80	12 92 43 
monaccs	21010.00	20 10 00	, touvidos	J2000.00	

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Laser Transmitter and	G5010.50	33 83 13	Site	G4010.70	33 79 93
Receivers	000.000	33 33 .3	Lightproof Doors, Interior	C1030.70	08 34 33
Laundry			Lights, Loading Dock	E1010.50	11 13 26
Accessories	C1090.40	10 28 23	Lightweight Concrete Roof	B1020.20	03 52 00
Appliances, Residential	E1060.10	11 31 23	Insulation		
Chutes	D1050.60	14 91 33	Limited-Use/Limited Application	D1010.10	14 26 00
Equipment, Coin-Operated	E1030.35	11 23 33	Elevators		
Laundry Trays	D2010.60		Linen Chutes	D1050.60	14 91 33
Commercial	D2010.60	22 42 36	Lintels, Exterior Wall Openings	B2010.90	
Residential	D2010.60	22 41 36	Liquefied Petroleum Gas	G3060.10	
Lavatories	D2010.60		Distribution, Site		
Commercial	D2010.60	22 42 16	Liquid and Gas Site Utilities	G30	
Residential	D2010.60	22 41 16	Supplementary Components	G3090	
Security	D2010.60	22 46 16	Loading Bridges	D1030.50	34 77 13
Laws	Z1040.10	01 41 16	Aircraft Passenger	D1030.50	34 77 13
Leaching Pits	G3030.70	33 47 26.19	Ship Passenger	D1030.50	34 77 13
Lead	<b>5</b> 0040.00	00.00.40	Loading Dock Equipment	E1010.50	11 13 00
Based Paint Remediation	F2010.30	02 83 19	Bumpers	E1010.50	11 13 13
Hazard Control Activities	F2010.30	02 83 13	Levelers	E1010.50	11 13 19.13
Remediation	F2010.30	02 83 00	Lifts	E1010.50	11 13 19.23
Lean Concrete Slurry Walls	A9030.70	31 56 23	Lights	E1010.50	11 13 26
Lecture Hell Section Fixed	E2050.30	12 56 39 	Seals and Shelters	E1010.50	11 13 16
Lecture Hall Seating, Fixed Levelers, Loading Dock	E2010.70 E1010.50	11 13 19.13	Loans Construction	2090.10	
Library	E1010.50	11 13 19.13	Permanent	2090.10	
Casework	E2010.30	12 35 50	Locker Room Benches	C1090.70	10 51 53
Equipment	E1040.10	11 51 00	Lockers	C1090.70	10 51 55
Furniture	E2050.30	12 56 51	Louvered Equipment	B2010.60	08 92 00
Stack Systems	E1040.10	11 51 23	Enclosures	D2010.00	00 32 00
License Fees	Z7030		Louvers		08 91 00
Life Cycle Activities	Z1090	01 90 00	Exterior	B2070.10	08 91 00
Lifts	D1010.20	14 40 00	Exterior Door	B2050.90	08 91 26
Loading Dock	E1010.50	11 13 19.23	Interior	C1090.15	08 91 00
Mortuary	E1040.20	11 78 19	Interior Doors	C1030.90	08 91 26
Lighting	D5040	26 50 00	Low Pressure Sanitary	G3020.20	33 33 00
Airfield	G2040.70	26 56 00	Sewerage		
Area	G4050.10	26 56 23	Low-Slope Roofing	B3010.50	
Control	D5040.10	26 09 23			
Control Devices	D5040.10	26 09 23	M		
Control Panels	D5040.10	26 09 26	Magnesium-Oxychloride	C2030.70	09 67 19
Fixtures	D5040.50	26 50 00	Flooring		
Flood	G4050.20	26 56 36	Mail	_	
Interior	D5040.50	26 51 00	Boxes	C1090.70	10 55 23
Landscape	G2080.70	26 56 26	Chutes	C1090.70	10 55 91
Parking Lot	G2020.70	26 56 16	Maintenance	74070 70	04.70.40
Playfield	G2050.50	26 56 00	Contracts	Z1070.70	01 78 19
Plaza and Walkway	G2030.70	26 56 33	Equipment	E1030.40	11 24 00
Poles and Standards, Site Recreational Area	G4050.90	26 56 13 26 56 00	Manholes Communications	C5010 10	22 04 26
Recreational Area Roadway	G2050.30 G2010.70	26 56 19	Liquid and Gas Site Utilities	G5010.10 G3090.10	33 81 26 03 05 13
Site	G4050	26 56 00	Sanitary Drainage	D2020.30	22 05 73
Supplementary Components	D5040.90	20 30 00	Sewerage	G3020.50	33 39 13
Temporary	Z1050.10	01 51 26	Site Electrical	G3020.30 G4010.20	33 71 19
Lightning Protection	D5080.10	26 41 00	Stormwater Drainage	D2030.20	22 05 73
Dissipation	D5080.10	26 41 16	Manufactured	2200.20	00 10
Structures	D5080.10	26 41 13	Fireplace Chimneys	C1090.50	10 31 13
Surge Arresters and	D5080.10	26 41 23	Fireplaces	C1090.50	10 31 00
Suppressors		5		2 : 500.00	
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Masonry Exterior Wall	B2010.10	04 70 00	Canopy Construction	B1020.30	05 20 00
Veneer	D2010.10	017000	Floor Construction	B1010.10	05 20 00
Rooms	F1010.50	13 20 00	Mezzanine Construction	B1010.40	05 20 00
Manufacturer			Ramps	B1010.50	05 20 00
Engineered Structures	F1020.40	13 34 00	Roof Construction	B1020.10	05 20 00
Field Services	Z1040.40	01 43 33	Metal Railings		05 52 00
Qualifications	Z1040.40	01 43 13	Exterior Balcony	B2080.50	05 52 00
Markerboards	C1090.20	10 11 16	Interior	C1090.10	05 52 00
Masonry			Metal Stairs	B1080.10	05 51 00
Fireplaces	C1090.50	04 57 00	Railings	B1080.50	05 52 00
Flooring	C2030.40	09 63 00	Treads and Nosings	B1080.10	05 55 00
Stair finish	C2040.40	09 63 00	Metal Supports		05 45 16
Veneer, Exterior Walls	B2010.10	04 26 13	Electrical Service and	D5020.90	05 45 16
Master Antenna Television	D6030.10	27 41 33	Distribution		
Systems			Facility Power Generation	D5010.90	05 45 16
Material Handling	D1050		General Purpose Power	D5030.90	05 45 16
Mechanical Filtration	G1050.10	02 51 23	Lighting	D5040.90	05 45 16
Decontamination			Metal-Framed Skylights	B3060.10	08 63 00
Mechanical Metal Supports		05 45 13	Metal-Web Wood Joists		06 17 36
Building Support Plumbing	D2030.90	05 45 13	Floor	B1010.10	06 17 36
Cooling System	D3030.90	05 45 13	Roof	B1020.10	06 17 36
Distribution Systems	D3050.90	05 45 13	Meteorological Instrumentation	F1080.40	13 53 00
Domestic Water	D2010.90	05 45 13	Meters and Gages	B0000 00	00.05.40
Fire Suppression	D4010.90	05 45 13	Building Support Plumbing	D2030.90	22 05 19
Heating System	D3020.90	05 45 13	Cooling System	D3030.90	23 05 19
Process Support Plumbing	D2060.90	05 45 13	Distribution Systems	D3050.90	23 05 19
Sanitary Drainage Ventilation	D2020.90	05 45 13 05 45 13	Domestic Water	D2010.90	22 05 19
	D3060.90 E1040.20	05 45 13 11 71 00	Fire Suppression Heating System	D4010.90	21 05 19 23 05 19
Medical Sterilizing Equipment Meetings, Project	Z1020.10	01 31 19	Sanitary Drainage	D3020.90 D2020.90	22 05 19
MEP Engineers	2030.20		Methane Mitigation	A6020.50	31 21 16
Mercantile and Service	E1030.10	11 21 00	Methods of Payment	3010.50	
Equipment	L 1000.10	11 21 00	Mezzanine Floor Construction	B1010.40	
Mercantile Storage Assemblies	C1090.70	10 56 33	Microwave Transmitter and	G5010.50	33 83 16
Metal		05 00 00	Receivers	200.0.00	00 00 .0
Balconies	B1010.30	05 59 13	Milkers	E1090.30	11 92 13
Bollards	G2060.85	32 39 13	Minor Changes in the Work	Z1010.60	01 26 33
Building Systems	F1020.40	13 34 19	Mirrors, Unframed	C1090.90	08 83 00
Catwalks	B1080.70	05 51 36.13	Miscellaneous Electrical	D5080	
Crib Retaining Walls	G2060.60	32 32 26	Systems		
Detention Enclosures	F1010.50	05 59 63	Supplementary Components	D5080.90	
Doors: See Exterior and		08 11 00	Miscellaneous Site	G90	
Interior Doors			Construction		
Exterior Fabrications	B2080.70	05 50 00	Mitigation		
Fabrications, Interior	C2020	05 50 00	Gas	A60	
Floor Decking	B1010.20	05 30 00	Methane	A6020.50	31 21 16
Gratings	B1080.70	05 53 00	Off-Gassing	A6020	31 21 00
Ramps	B1010.50	05 51 36.16	Radon	A6020.10	31 21 13
Roof Decking	B1020.20	05 30 00	Water	A60	
Walkways	B1080.70	05 51 36	Mobilization	Z1070.10	01 71 13
Windows: See Exterior and		08 51 00	Mockups	Z1040.40	01 43 39
Interior Windows		00 22 42	Modems	D6020.20	27 32 29
Metal Furring	C2050.90	09 22 13 09 22 13	Modifications Forms	4040 4020.50	00 90 00 00 63 00
Ceilings Wall Finish	C2050.90 C2010.90	09 22 13	Modular	4020.30	00 03 00
Metal Joists	C2010.90 	05 20 00	Dimming Control	D5040.10	26 09 36
Balcony Construction	B1010.30	05 20 00	Mezzanines	F1010.70	13 44 00
Dailotty Conditional	21010.00	30 20 00	Service Walls	C1090.30	10 25 16
			3000 .700	2.300.00	.0 _0 10

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBE
Mold Remediation	F2010.50	02 85 00	Office		
Clearance Air Sampling	F2010.50	02 85 19	Accessories	E2050.40	12 41 00
Preparation and	F2010.50	02 85 16	Equipment	E1030.75	11 28 00
Containment			Furniture	E2050.30	12 51 00
Money Cart Pass-Through	E1030.25	11 17 33	Seating	E2050.30	12 52 23
Money Handling Equipment	E1030.25	11 17 23	Shelters and Booths	F1010.50	13 22 00
Money-Changing Equipment		11 14 16	Openings, Horizontal	B3060	
Exterior	G2030.80	11 14 16	Operable		
Interior	E1010.70	11 14 16	Access Systems	D1080	
Monorails	D1030.70	34 12 00	Partitions, Interior	C1010.50	
Mortuary			Operating Room Equipment	E1040.20	11 76 00
Equipment	E1040.20	11 78 00	Operating System Software	D6010.50	27 25 29
Lifts	E1040.20	11 78 19	Operating Windows		08 50 00
Refrigerators	E1040.20	11 78 13	Exterior	B2020.10	08 50 00
Motor-Control Centers	D5020.30	26 24 19	Interior	C1020.10	08 50 00
Movable Furnishings	E2050		Operation and Maintenance	Z1070.70	01 78 23
Moving			Data		
Ramps	D1010.60	14 33 00	Optical Fiber Communications	G5010.30	33 82 23
Walks	D1030.10	14 32 00	Distribution Cabling		
Mud Slab, Slab-On-Grade	A4090.50	03 30 00	Optometry Equipment	E1040.20	11 75 00
Multi-Leaf Vertical Lift Doors		08 36 19	Orchestra Lifts	D1010.20	14 43 13
Exterior	B2050.30	08 36 19	Organic Decontamination	G1050.25	02 54 26
Interior	C1030.50	08 36 19	Organs	E1070.20	11 62 19
Multiple Contracts	3010.30		Ornamental Woodwork		06 44 00
Coordination	Z1020.10	01 31 16	Exterior Fabrications	B2080.70	06 44 00
Summaries	1010.30	01 12 00	Interior	C2020	06 44 00
Multiple Seating		12 60 00	Other		
Fixed	E2010.70	12 60 00	Fixed Furnishings	E2010.90	12 90 00
Movable	E2050.60	12 60 00	Interior Specialties	C1090.90	10 80 00
Multiple-Use Seating		12 65 00	Movable Furnishings	E2050.90	12 90 00
Fixed	E2010.70	12 65 00	Outlets and Inlets		23 37 00
Portable	E2050.60	12 65 00	Air	D3050.50	23 37 00
Murals	E2010.10	12 11 00	Outside Air	D3060.40	23 37 00
Musical Equipment	E1070.20	11 62 00	Return Air	D3060.20	23 37 00
			Supply Air	D3060.10	23 37 00
N			Outline Lighting	D5040.50	26 55 23
Natural-Gas Distribution	G3060.10	33 51 00	Outside Air	D3060.40	
Temporary	Z1050.10	01 51 29	Duct Accessories	D3060.40	23 33 00
Nautical Flagpoles	G2060.35	10 75 19	Ducts and Casings	D3060.40	23 31 00
Network			HVAC Fans	D3060.40	23 34 00
Integration Requirements	D6010.60	27 26 23	Outlets and Inlets	D3060.40	23 37 00
Lighting Control	D5040.10	26 09 43	Plenums and Chases	D3060.40	23 32 00
Neutralization Decontamination	G1050.15	02 52 19	Terminal Units	D3060.40	23 36 00
Noise Barriers, Temporary	Z1050.40	01 56 19	Ovens, Commercial	E1030.80	11 44 16
Notice of Award	4010.10	00 51 00	Overhead	Z9010	
Notice to Proceed	4010.50	00 55 00	Overhead Exterior Enclosures	B3080	
Nuclear Radiation Protection	F1030.50		Oversize Doors, Exterior	B2050.30	
Number of Construction	3010.30		Owner		
Contracts			Activities	2050	
Nurse Call/Code Blue Systems	D6060.30	27 52 23	Development	20	
_			Safety Requirements	Z1020.70	01 35 23
0			Owner's Work	1050	01 11 16
Observation Windows, Interior	C1020.50		Owner-Build	3010.10	
Observatories	F1020.40	13 34 56	Owner-Furnished Products	Z1060.30	01 64 00
Equipment	E1040.10	11 56 00			
			P		
Obstruction Lighting	D5040.50	26 55 36			

V=v Wonn	UE Number	ME Number	VEV WORD	UE Number	ME Number
KEY WORD	UF NUMBER	MF NUMBER	KEY WORD		MF NUMBER
Packaged			Partitions, Interior	C1010	10 22 00
Compressor and Condenser	D3030.10	23 62 00	Demountable	C1010.40	10 22 19
Units Generator Assemblies	D5010.10	26 32 00	Fixed Glazed	C1010.10 C1010.20	
Outdoor HVAC Equipment	D3010.10 D3050.50	23 74 00	Operable	C1010.20 C1010.50	
Solar Heating Equipment	D3030.30 D3020.10	23 56 16	Pass Windows		08 56 19
Terminal Air-Conditioners	D3030.70	23 81 13	Exterior	B2020.50	08 56 19
Submersible Sewerage Pump	D2020.10	22 13 33	Interior	C1020.50	08 56 19
Units			Passenger		
Wastewater Pump Units	D2020.10	22 13 36	Elevators	D1010.10	14 21 00
Packaging Equipment	E1030.70	11 29 23	Loading Bridges	D1030.50	34 77 13
Paging Systems	D6060.10	27 51 13	Passive Cathodic Protection	D5080.40	
Painting and Coating		09 90 00	for		
Ceilings	C2050.70	09 90 00	Underground and	D5080.40	26 42 13
Exterior			Submerged Piping		
Bulkheads	B3080.30	09 90 00	Underground Storage Tanks	D5080.40	26 42 16
Ceilings	B3080.10	09 90 00	Pathways	D0000 40	27.05.20
Soffits Walls	B3080.20	09 90 00	Communications	D6090.10	27 05 28
Wall	B2010.10 C2010.70	09 90 00 09 90 00	Electronic Safety and Security	D7090.10	28 05 28
Paintings	E2010.70	12 12 00	Integrated Automation	D8010.90	25 05 28
Panel Doors		08 36 00	Patient	D0010.90	23 03 20
Exterior	B2050.30	08 36 00	Bed Service Walls	C1090.30	10 25 13
Interior	C1030.50	08 36 00	Care Equipment	E1040.20	11 73 00
Panelboards	D5020.30	26 24 16	Monitoring and Telemetry	D6060.30	27 52 13
Paneling			Systems		
Ceiling	C2050.20		Pavement		
Wall	C2010.20		Appurtenances, Aviation	G2040.40	32 17 00
Parapets	B2010.50		Aviation	G2040.10	32 10 00
Parking Areas, Temporary	Z1050.35	01 55 19	Curbs and Gutters, Aviation	G2040.20	32 16 13
Parking Bumpers, Parking Lot	G2020.40	32 17 13	Markings		32 17 23
Parking Control Equipment		11 12 00	Airfield	G2040.40	32 17 23
Exterior	G2020.80	11 12 00	Parking Lot	G2020.40	32 17 23
Interior	E1010.30	11 12 00	Pedestrian	G2030.40	32 17 23
Parking Fee Collection		11 12 26	Roadway	G2010.40	32 17 23
Equipment	G2020.80	11 12 26	Parking Lot	G2020.10 G2030.10	32 10 00 32 10 00
Exterior Interior	E1010.30	11 12 26	Pedestrian Roadway	G2030.10 G2010.10	32 10 00
Parking Gates		11 12 20	Snow Melting		32 17 43
Exterior	G2020.80	11 12 33	Pavers, Roofing	B3010.50	07 76 13
Interior	E1010.30	11 12 33	Paving, Slope Protection	G1070.55	31 35 23
Parking Key and Card		11 12 13	Payment Procedures	Z1010.70	01 29 00
Control Units			for Testing Laboratory	Z1010.70	01 29 83
Exterior	G2020.80	11 12 13	Services		
Interior	E1010.30	11 12 13	PDX/Key Systems	D6020.10	27 31 13
Parking Lots	G2020		Pedestrian		
Appurtenances	G2020.40	32 17 00	Bridges	G2060.70	32 34 13
Curbs and Gutters	G2020.20	32 16 13	Plazas and Walkways	G2030	
Lighting	G2020.70	26 56 16	Tunnels	G9010.10	
Pavement	G2020.10	32 10 00	Pedestrian Control		11 14 00
Parking Meters		11 12 23	Equipment	00000 00	44 44 00
Exterior	G2020.80	11 12 23	Exterior	G2030.80	11 14 00
Interior	E1010.30	11 12 23 11 12 16	Interior Pedestrian Detection	E1010.70	11 14 00 11 14 43
Parking Ticket Dispensers Exterior	G2020.80	11 12 16	Equipment		11 1 <del>4 4</del> 3
Interior	E1010.30	11 12 16	Exterior	G2030.80	11 14 43
Particulate Air Filtration	D3050.50	23 41 00	Interior	E1010.70	11 14 43
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Pedestrian Fare Collection		11 14 26	Walls	B2010	01 83 16
Equipment			Windows	B2020	01 83 16
Exterior	G2030.80	11 14 26	Fabric Structures	F1020.10	01 88 13
Interior	E1010.70	11 14 26	Facility		
Pedestrian Gates		11 14 13	Fuel Systems	D3010	
Exterior	G2030.80	11 14 13	Power Generation	D5010	01 86 26
Interior	E1010.70	11 14 13	Services	D	01 86 00
Pedestrian Pavement	G2030.10		Shell	В	01 83 00
Appurtenances	G2030.40	32 17 00	Fences and Gates	G2060.20	
Curbs and Gutters	G2030.20	32 16 13	Fire Detection and Alarm	D7050.10	
Pedestrian Security		11 14 53	Fire Suppression	D4010	01 86 13
Equipment			Flagpoles	G2060.35	
Exterior	G2030.80	11 14 53	Floor Construction	B1010	01 83 13
Interior	E1010.70	11 14 53	Flooring	C2030	01 84 19
People Lifts	D1010.20	14 41 00	Foundations	A10	01 82 13
People Movers	D1030.70		Fuel-Gas Detection and	D7050.30	
Performance Requirements		01 80 00	Alarm		
Access Control and Intrusion	D7010	01 86 33	Fuel-Oil Detection and Alarm	D7050.40	
Detection			Furnishings	E20	01 87 16
Airfields	G2040	01 89 16	Gas Systems	D2060.30	
Area Lighting	G4050.10	01 89 26	General Purpose Electrical	D5030	01 86 26
Athletic Areas	G205010	01 89 16	Power	Dooro	
Audio-Video Communication	D6030	01 86 29	General Service	D2050	
Basement Construction	A20	01 82 16	Compressed-Air	E4000 00	
Building Modules	F1010.10	01 88 13 01 86 16	Geodesic Structures	F1020.30	
Building Support Plumbing	D2030	01 86 16	Hazardous Materials Remediation	F2010	
Systems Cathodic Protection	D5080.40	01 86 26		D3020	01 86 19
Califodic Protection Ceiling Finishes	C2050	01 84 19	Heating Systems Horizontal Conveying	D3020 D1030	01 85 00
Chemical-Waste Systems	D2060.40	01 86 16	Horizontal Exterior Enclosure	B30	01 83 16
Communications	D2000.40	01 86 29	Horizontal Openings	B3060	
Compressed-Air Systems	D2060.10	01 86 16	HVAC	D20	01 86 19
Construction Dewatering	A9020	01 82 00	HVAC Air Distribution	D3050.50	01 86 19
Conveying Equipment	D10	01 84 00	Hydronic Distribution	D3050.10	01 86 19
Cooling Systems	D3030	01 86 19	Integrated Automation	D80	01 86 23
Covers and Shelters	G2060.40	01 89 16	Facility Controls	D8010	
Data Communication	D6010	01 86 29	Interior		
Detection and Alarm	D7050	01 86 33	Construction	C10	01 84 13
Detention Equipment	E1040.70	01 87 13	Doors	C1030	01 84 13
<b>Distributed Communications</b>	D6060	01 86 29	Finishes	C20	01 84 19
and Monitoring			Fountains	F1050.20	01 88 13
<b>Domestic Water Distribution</b>	D2010	01 86 16	Louvers	C1090.15	01 84 13
Dumbwaiters	D1010.50	01 85 00	Partitions	C1010	01 84 13
Electrical	D50	01 86 26	Railings and Handrails	C1090.10	01 84 13
Service and Distribution	D5020	01 86 26	Windows	C1020	01 84 13
Electronic			Interiors	С	01 84 00
Monitoring and Control	D7070	01 86 33	Lifts	D1010.20	01 85 00
Safety and Security	D70	01 86 33	Lighting	D5040	01 86 26
Surveillance	D7030	01 86 33	Lightning Protection	D5080.10	01 86 26
Elevators	D1010.10	01 85 00	Manufactured Canopy	F1020.60	01 88 13
Equipment	E10	01 87 13	Manufactured/Fabricated	F1010.50	01 88 13
Equipment and Furnishings	E	01 87 00	Rooms	E4000 40	04.00.40
Escalators	D1010.30	01 85 00	Manufactured-Engineered	F1020.40	01 88 13
Excavation Support	A9030	01 82 00	Structures Metarial Handling	D4050	04.05.00
Exterior	B2050	01 92 16	Material Handling	D1050	01 85 00
Doors Fountains	B2050 G2060.10	01 83 16 01 89 16	Modular Mezzanines Moving Ramps	F1010.70 D1010.60	01 88 13 01 85 00
Fountains Louvers	B2070.10	01 89 16	Moving Ramps  Moving Walks	D1010.60 D1030.10	01 85 00
Louvers	52010.10	01 00 10	WOVING WAIRS	D 1030.10	01 00 00

KEY WORD	LIE NUMBER	ME NUMBER	Kry Word	UE Number	ME Number
KEY WORD		MF NUMBER	KEY WORD		MF NUMBER
Off-Gassing Mitigation	A6020	01 82 00	Special Construction	F10	01 88 13
Operable Access Systems	D1080	01 85 00	Special Structures	F1020	01 88 13
Other Site Construction	G90	01 89 29	Stair Finish	C2040	01 84 19
Overhead Exterior	B3080	01 83 16	Stairways	B1080	01 84 16
Enclosures			Steam Distribution	D3050.30	01 86 19
Parking Lots	G2020	01 89 16	Storm Drainage Utility	G3030	01 89 19
Passenger Loading Bridges	D1030.50	01 85 00	Structure Moving	F3050	
Pedestrian Plazas and	G2030	01 89 16	Subdrainage Systems	A6010	01 82 00
Walkways	D4000 70	04.05.00	Substructure	A	01 82 00
People Mover	D1030.70	01 85 00	Superstructure	B10 C1070	01 83 13 01 84 13
Planting Irrigation Play Areas	G2080.10 G2050.50	01 89 16 01 89 16	Suspended Ceiling Construction	C1070	01 64 13
Plumbing	D20	01 86 16	Towers	F1020.70	01 88 13
Pools	F1050.10	01 88 13	Traffic Bearing Horizontal	B3040	01 83 16
Processed Water Systems	D2060.50	01 86 16	Enclosures	D3040	01 03 10
Radiation Detection and	D7050.20	01 86 33	Tunnels	G9010	01 89 29
Alarm	D7000.20	01 00 00	Turntables	D1030.30	01 85 00
Radiation Protection	F1030.50	01 88 13	Vacuum Systems	D2060.20	01 86 16
Raised Floor Construction	C1060	01 84 13	Ventilation	D3060	01 86 19
Recreational Areas	G2050.30	01 89 16	Vertical Exterior Enclosure	B20	01 83 16
Refrigeration Detection and	D7050.50	01 86 33	Voice Communication	D6020	01 86 29
Alarm			Wall Finishes	C2010	01 84 19
Retaining Walls	G2060.60	01 89 16	Water Intrusion Detection	D7050.60	01 86 33
Roadways	G2010	01 89 16	and Alarm		
Roof Construction	B1020	01 83 13	Perimeter Security Systems	D7010.50	28 16 43
Roofing	B3010	01 83 19	Periodic Work Observation	Z1020.30	01 32 29
Sanitary Drainage	D2020	01 86 16	Permits	2020	00 31 46
Sanitary Sewerage Utility	G3020	01 89 19		Z1040.10	01 41 26
Security Equipment	E1040.60	01 87 13	Application	3040.90	00 31 43
Seismic Control	F1030.30	01 88 13	Building	2020.30	01 41 26
Site			Costs	Z7050	
Aviation Fuel Distribution	G3060.60	01 89 23	Planned Unit Development	2020.15	
Bridges	G2060.70	01 89 16	Zoning	2020.10	01 35 63
Construction	G	01 89 00	Pest Control		
Diesel Fuel Distribution	G3060.40	01 89 23	Devices	C1090.90	10 81 00
Domestic Water	G3010.10	01 89 19	Temporary	Z1050.50	01 57 16
Distribution	C4040	04.00.06	Pews and Benches Fixed	 F2010 70	12 67 00
Electric Distribution System Electrical Utilities	G4010 G40	01 89 26	Portable	E2010.70 E2050.60	12 67 00 12 67 00
Fire Protection Water	G3010.30	01 89 26 01 89 19	Photographic	E2030.00	12 67 00
Fuel-Oil Distribution	G3010.30 G3060.20	01 89 19	Documentation	Z1020.30	01 32 33
Gas Distribution	G3060.20	01 89 23	Processing Equipment	E1030.60	11 27 00
Gasoline Distribution	G3060.10	01 89 23	Photovoltaic Collectors	D5010.30	26 31 00
Hydronic Cooling	G3050.40	01 89 23	Physical Decontamination	G1050.10	02 51 00
Distribution	00000	0.0020	Piers, Column	A1010.30	
Hydronic Heating	G3050.10	01 89 23	Piles	7.1.0.10.00	
Distribution			Bored	A1020.15	31 63 00
Improvements	G20	01 89 16	Caps	A1020.70	
Irrigation Water	G3010.50	01 89 19	Driven	A1020.10	31 62 00
Plumbing Utilities	G30	01 89 19	Pipe Culverts	G3030.30	33 42 13
Preparation	G10	01 89 13	Piping Specialties, Stormwater	D2030.20	22 14 23
Remediation	G1050	01 89 13	Drainage		
Steam Distribution	G3050.20	01 89 23	Piping System, Gray Water	D2030.60	
Slabs-On-Grade	A40	01 82 00	Piping		
Solid Waste Handling	E1090.10	01 87 13	Compressed-Air	D2060.10	22 61 13
Equipment			Domestic Water	D2010.40	22 11 16
Sound and Vibration Control	F1030.10	01 88 13	Fire-Suppression	D4010.10	21 11 00
Space Frames	F1020.20	01 88 13	Fuel	D3010.10	23 11 00

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Gas		22 63 13	Exterior Fabrications	B2080.70	06 60 00
General Service	D2050	22 15 13	Exterior Fixed Grilles and	B2080.10	06 60 00
Compressed-Air			Screens		
Healthcare Chemical-Waste	D2060.40	22 66 70	Fabrications, Interior	C2020	06 60 00
Hydronic	D3050.10	23 21 13	Fences and Gates	G2060.20	32 31 23
Laboratory Chemical-Waste	D2060.40	22 66 53	Floor Decking	B1010.20	06 53 00
Processed Water	D2060.50	22 67 13	Framed Skylights	B3060.10	08 64 00
Sanitary Sewerage	D2020.30		Paneling, Ceilings	C2050.20	06 64 00
Sanitary Waste and Vent	D2020.30	22 13 16	Paneling, Walls	C2010.20	06 64 00
Site			Railings, Exterior Balcony	B2080.50	06 63 00
Aviation Fuel	G3060.60	33 52 43.13	Railings, Interior	C1090.10	06 63 00
Diesel Fuel	G3060.40	33 52 19.13	Roof Decking	B1020.20	06 53 00
Fuel-Oil Gasoline	G3060.20	33 52 13.13	Stair Railings Windows: See Exterior and	B1080.50	06 63 00
	G3060.30 G3030.20	33 52 16.13 33 41 00	Interior Windows		08 53 00
Storm Drainage Steam	D3050.30	23 22 13	Platform Lifts	D1010.20	14 43 00
Stormwater Drainage	D2030.20	22 14 13	Platform/Stage Floors	C1060.30	
Vacuum	D2060.20	22 62 13	Platforms, Elevating	D1080.30	14 83 00
Waste Anesthesia-Gas	D2060.20	22 62 23	Play Structures	G2050.50	11 68 16
Pits and Bases	A4040		Players and Recorders	E1040.10	11 52 19
Planetariums	F1010.50	13 23 00	Playfield Areas	G2050.50	
Equipment	E1040.10	11 55 00	Equipment and Structures	G2050.50	11 68 00
Pendulums	E1040.10	11 55 16	Lighting	G2050.50	26 56 00
Projectors	E1040.10	11 55 13	Surfacing	G2050.50	
Planned Unit Development			Playground Equipment	G2050.50	11 68 13
Permits	2020.15		Plaza and Walkway Lighting	G2030.70	26 56 33
Requirements	1030.15		PLC Electronic Detention	D7070.10	28 46 19
Plant Inspection Procedures	Z1040.80	01 45 26	Monitoring and Control		
Planters and Artificial Plants,	E2010.90	12 92 00	Systems		
Fixed Interior			Plenums and Chases, Air	D3050.50	23 32 00
Planters	00000 50	00.04.00	Exhaust Air	D3060.30	23 32 00
Exterior	G2080.50	32 94 33	Outside Air	D3060.40	23 32 00
Fixed Interior	E2010.90	12 92 33 12 92 33	Return Air	D3060.20	23 32 00
Movable Interior Site	E2050.90 G2060.25	12 92 33	Supply Air	D3060.10 G2080.20	23 32 00 32 92 16
Planting	G2000.25	12 93 33	Plugging Plumbing	D20	22 00 00
Accessories	G2080.50	32 94 00	Plumbing Fixtures	D2010.60	22 40 00
Irrigation	G2080.10	32 84 00	Commercial	D2010.60	22 42 00
Preparation	G2080.80	32 91 00	Emergency	D2010.60	22 45 00
Plants and Bulbs	G2080.30	32 93 23	Healthcare	D2010.60	22 43 00
Plants, Exterior	G2080.30	32 93 00	Residential	D2010.60	22 41 00
Plaster			Security	D2010.60	22 46 00
Ceilings, Suspended	C1070.20	09 20 00	Supports, Security	D2010.60	22 46 53
Exterior Bulkheads	B3080.30	09 20 00	Trim		
Exterior Ceilings	B3080.10	09 20 00	Commercial	D2010.60	22 42 39
Exterior Fabrications	B2080.70	09 27 00	Residential	D2010.60	22 41 39
Exterior Soffits	B3080.20	09 20 00	Security	D2010.60	22 46 39
Exterior Wall Interior Skin	B2010.30	09 20 00	Plumbing Systems		
Fabrications, Interior	C2020	09 27 00	Integrated Automation	D8010.40	25 54 00
Finish, Ceilings	C2050.10	09 20 00	Control	E4050 00	00.50.00
Interior Partitions	C1010.10	09 20 00	Interior Fountain	F1050.20	22 52 00
Stair Soffits	B1080.30	09 20 00	Pool Proumatio Tubo Systems	F1050.10	22 51 00
Subgrade Enclosure Wall Interior Skin	A2010.20	09 20 00	Pneumatic Tube Systems Point of Sale Systems	D1050.70 D6030.50	14 92 00 27 42 13
Plastic			Polychlorinate Biphenyl	F2010.40	02 84 00
Blocks, Walls	C2010.60	09 76 00	Remediation	1 2010.40	02 0 <del>4</del> 00
Doors: See Exterior and		08 15 00	. tomodiadon		
Interior Doors		30 .0 00			
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Ponds, Site Domestic Water	G3010.10	33 47 19.13	Roof Girders and Beams	B1020.10	03 40 00
Covers	G3010.10	33 47 19.13	Shaft Lining	B1020.10	03 40 00
Site Domestic Water	G3010.10	33 47 16.13	Pedestrian Tunnels	G9010.20	31 75 16
Site Irrigation Water	G3010.50	33 47 16.13	Service Tunnels	G9010.40	31 75 16
Liners			Vehicular Tunnels	G9010.10	31 75 16
Site Domestic Water	G3010.10	33 47 13.13	Splash Blocks	B3020.70	03 48 16
Site Irrigation Water	G3010.50	33 47 13.13	Stair Treads	B1080.10	03 48 19
Ponds and Reservoirs,	G3030.70	33 47 26	Stairs	B1080.10	03 41 23
Storm Drainage			Subgrade Enclosure	A2010.10	03 40 00
Liners, Storm Drainage	G3030.70	33 47 13.13	Tunnel Lining		
Pools	F1050.10		Pedestrian	G9010.20	31 74 16
Equipment	F1050.10		Service	G9010.40	31 74 16
Equipment Controls	F1050.10	22 51 23	Vehicular	G9010.10	31 74 16
Piping System	F1050.10	22 51 13	Unit Pavement: See Unit		32 14 13
Plumbing Systems	F1050.10	22 51 00	Pavement		
Pumps	F1050.10	22 51 16	Precautions for Mold	F2010.50	02 85 13
Specialties	F1050.10		Remediation		
Water Treatment	F1050.10	22 51 19	Precontract Revisions	4040.10	00 91 00
Portable	_		Prefinished Paneling		06 25 00
Audio-Video Equipment	D6030.10	27 41 19	Ceilings	C2050.20	06 25 00
Lamps	E2050.40	12 43 00	Walls	C2010.20	06 25 00
Partitions, Screens and	C1010.70	10 22 23	Preliminary		
Panels	00000	00.00.40	Closeout Reviews	Z1070.60	01 77 13
Portland Cement Terrazzo	C2030.60	09 66 13	Schedules	3040.10	00 31 13
Flooring		00.44.40	Pressure Grouting Soil	G1070.40	31 32 23
Porous Unit Pavement: See		32 14 43	Stabilization	C2000 40	22.05.40
Unit Pavement			Pressure Piping Tied Joint	G3090.10	33 05 19
Postal	E1030.70	11 29 55	Restraint System  Pressure-Resistant		
Equipment Packaging, and Shipping	E1030.70	11 29 33	Doors		08 39 00
Equipment	E1030.70	11 29 00	Exterior	B2050.40	08 39 00
Specialties	C1090.70	10 55 00	Interior	C1030.70	08 39 00
Potting Machines	E1090.40	11 93 23	Glazing	B2020.50	08 88 39
Power	£ 1000.10	11 00 20	Windows, Exterior	B2020.50	08 55 00
Distribution, Facility	D5020.30	26 20 00	Price and Payment Procedures	Z1010	01 20 00
Factor Correction Equipment	D5010.60	26 35 33	Printers		0. 20 00
Filtering and Conditioning	D5010.60	26 35 00	Communications	D6010.30	27 24 13
Powered Scaffolding	D1080.40	14 84 00	Office	E1030.75	11 28 16
Preaction Sprinkler Systems	D4010.10	21 13 19	Procedures		
Precast Concrete		03 40 00	Alteration Project	Z1020.70	01 35 16
Balcony Construction	B1010.30	03 40 00	Checkout	Z1070.40	01 75 13
Canopy Construction	B1020.30	03 40 00	Closeout	Z1070.60	01 77 00
Cofferdams	A9030.20	31 52 19	Contract Modification	Z1010.60	01 26 00
Columns Supporting Floors	B1010.10	03 40 00	Environmental	Z1020.70	01 35 43
Columns Supporting Roofs	B1020.10	03 40 00	Facility		
Equipment Screens	B2010.60	03 40 00	Decommissioning	Z1090.80	01 94 13
Exterior Balcony Walls	B2080.50	03 40 00	Maintenance	Z1090.50	01 93 13
Exterior Wall Construction	B2010.20	03 40 00	Operation	Z1090.30	01 92 13
Exterior Wall Veneer	B2010.10	03 40 00	Field Quality Control	Z1040.80	01 45 16
Floor Decks	B1010.20	03 40 00	Health, Safety, and	Z1020.70	01 35 29
Floor Girders and Beams	B1010.10	03 40 00	Emergency Response		
Foundation Walls	A1010.10	03 40 00	Historic Treatment	Z1020.70	01 35 91
Interior Partitions	C1010.10	03 40 00	Indoor Air Quality	Z1020.70	01 35 46
Mezzanine Construction	B1010.40	03 40 00	Infection Control	Z1020.70	01 35 33
Parapets	B2010.50	03 40 00	Payment	Z1010.70	01 29 00
Ramps	B1010.50	03 40 00	Plant Inspection	Z1040.80	01 45 26
Retaining Walls	G2060.60	32 32 16	Price and Payment	Z1010	01 20 00
Roof Decks	B1020.20	03 40 00	Procurement Substitution	3030.70	00 26 00

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Progress Payment	Z1010.70	01 29 76	Program	1020	
Security	Z1020.70	01 35 53	Record Documents	Z1070.70	01 78 39
Source Quality Control	Z1040.80	01 45 13	Summary	1010	01 10 00
Special	Z1020.70	01 35 00	Web Site	Z1020.10	01 31 23
Special Project	Z1020.70	01 35 13	Projection Screens	E1040.10	11 52 13
Startup	Z1070.40	01 75 16	Projectors	E1040.10	11 52 16
Submittal	Z1020.50	01 33 00	Promotion	2050.10	
Substitution	Z1010.50	01 25 00	Proposal		
Sustainability Certification	Z1020.70	01 35 66	Forms	3050.20	00 42 00
Project			Requests	Z1010.60	01 26 53
Process Support Plumbing	D2060		Worksheet Summaries	Z1010.60	01 26 54
Systems			Protected Membrane Roofing	B3010.50	07 55 00
Supplementary Components	D2060.90		Protecting Installed	Z1070.50	01 76 00
Processed Water			Construction		
Equipment	D2060.50	22 67 19	Protection Devices	D5020.10	26 18 00
Piping	D2060.50	22 67 13			26 28 00
Systems, Healthcare	D2060.50	22 67 00	Protection of Adjacent	Z1070.10	01 71 33
Systems, Laboratory	D2060.50	22 67 00	Construction		
Procurement			Protective		
Definitions	3030.20	00 23 00	Walkways, Temporary	Z1050.40	01 56 29
Form Supplements	3050.30	00 43 00	Wall Covering	C1090.35	10 26 23
Forms and Supplements	3050		Public Address and Mass	D6060.10	27 51 16
Instructions	3030	00 20 00	Notification Systems		
Meetings	3030.50	00 25 00	Public Information Systems	D6030.50	27 42 19
Requirements	30	00 00 00	Pumping Stations, Facility	D2020.10	22 13 43
Scopes	3030.30	00 24 00	Sewerage		
Substitution Procedures	3030.70	00 26 00	Pumps	<b>D</b> 0000 40	00 50 40
Product	74040.40	04.04.00	Boiler Feedwater	D3020.10	23 53 13
Allowances	Z1010.10	01 21 26	Domestic Water	D2010.20	22 11 23
Data	Z1020.50	01 33 23	Exterior Fountain	G2060.10	22 52 16
Delivery Requirements Options	Z1060.40 Z1060.20	01 65 00 01 62 00	Facility Fuel-Oil Facility Gasoline Dispensing	D3010.30 D3010.30	23 12 13 23 12 16
Requirements	Z1060.20 Z1060	01 62 00	Fire	D3010.30 D4010.10	21 30 00
Storage and Handling	Z1060.50	01 66 00	Fuel	D3010.30	23 12 00
Requirements	21000.50	01 00 00	Hydronic	D3010.30 D3050.10	23 21 23
Professional Services	2030		Interior Fountain	F1050.20	22 52 16
Profit	Z9030		Irrigation	G2080.10	32 82 00
Program	20000		Pool	F1050.10	22 51 16
Facility	1020.50		Sanitary Waste	D2020.10	22 13 29
Project	1020		Site		
Site	1020.10		Aviation Fuel	G3060.60	33 52 43.23
Progress Cleaning	Z1070.30	01 74 13	Diesel Fuel	G3060.40	33 52 19.23
Progress Payment Procedures	Z1010.70	01 29 76	Fuel-Oil	G3060.20	33 52 13.23
Project			Gasoline	G3060.30	33 52 16.23
Alliances	3010.10		Steam Condensate	D3050.30	23 22 23
Budget Information	3040.15	00 31 16	Storm Drainage	G3030.50	33 45 00
Contingencies, Budget	2080		Stormwater Drainage	D2030.10	22 14 33
Coordination	Z1020.10	01 31 13			22 14 36
Criteria	1030				
Delays, Budget	2080.60		Q		
Delivery Methods	3010.10		Qualifications	Z1040.40	01 43 00
Description	10		Quality		
Forms	4020	00 60 00	Assurance	Z1040.40	01 43 00
Identification	Z1050.70	01 58 00	Control	Z1040.80	01 45 00
Management and	Z1020.10	01 31 00	Requirements	Z1040	01 40 00
Coordination	0005.15		Quantity Allowances	Z1010.10	01 21 29
Managers	2030.10		Quartz Flooring	C2030.70	09 67 26
Meetings	Z1020.10	01 31 19	l		

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
			Raft Foundations	A2010.60	03 71 00
R			Railings	7.20.0.00	
Raceway Decking Assemblies		05 35 00	Exterior Balcony	B2080.50	05 52 00
Assemblies			•		05 73 00
Floor	B1010.20	05 35 00	Interior	C1090.10	
Roof	B1020.20	05 35 00	Stair	B1080.50	
Raceways and Boxes		26 05 33	Railway Embankments	G1070.30	31 24 16
Electrical Service and	D5020.90	26 05 33	Rainwater		
Distribution			Leaders	D2030.20	22 14 16
Facility Power Generation	D5010.90	26 05 33	Management	B3020.70	
General Purpose Power	D5030.90	26 05 33	Storage Tanks	D2030.10	22 14 53
Lighting	D5040.90	26 05 33	Raised Floor Construction	C1060	40.05.00
Miscellaneous Electrical	D5080.90	26 05 33 26 05 33	Rammed Earth Construction Walls	F1020.65 F1020.65	13 35 00 13 35 13
Raceways and Enclosures Branch Wiring	D5030.10	26 05 33	Ramps	B1010.50	13 33 13
Electrical Distribution	D5030.10 D5020.30	26 05 33	Metal	B1010.30 B1080.70	05 51 36.16
Lighting Branch Wiring	D5040.20	26 05 33	Temporary	Z1050.25	01 53 23
Raceways, Facility Grounding	D5020.70	26 05 33	Ranges, Commercial	E1030.80	11 44 13
Radiant Heating	20020.70	20 00 00	Reception Casework	E2010.30	
Electric Cables	D3070.10	23 83 13	Reclosers, Site Electrical	G4010.50	33 77 53
Hydronic Piping	D3070.10	23 83 16	Record	<b>C</b> 1010.00	00 / / 00
Units	D3020.70	23 83 00	Clarifications and Proposals	4040.30	00 93 00
Radiation Detection and	D7050.20	28 32 00	Modifications	4040.50	00 94 00
Alarm			Recreational		
Detection Sensors	D7050.20	28 32 33	Area Lighting	G2050.30	26 56 00
Dosimeters	D7050.20	28 32 43	Areas	G2050.30	
GUI and Logic Systems	D7050.20	28 32 13	Court Fences and Gates	G2050.30	32 31 13.23
Integrated Audio Evacuation	D7050.20	28 32 23	Court Surfacing	G2050.30	32 18 23.43
Systems			Equipment	E1070.60	11 67 00
Radiation Protection	F1030.50	13 49 00	Surfaces	G2050.30	32 18 00
Radiation Resistant Glazing		08 88 49	Recycled-Rubber Pavement:		32 14 29
Exterior Windows	B2020.50	08 88 49	See Unit Pavement		
Exterior Doors	B2050.40	08 88 49	Recycling		
Interior Windows	C1020.50	08 88 49	Equipment	E1090.10	11 82 23
Interior Doors	C1030.70	08 88 49	Programs	Z1090.50	01 93 16
Radiation Shielding		00 04 40	References	Z1040.30	01 42 00
Doors	 B2050 40	08 34 49	Standards	Z1040.30	01 42 19
Exterior Interior	B2050.40 C1030.70	08 34 49 08 34 49	Refractory Masonry	C1090.50	04 50 00
Windows	C1030.70	08 56 49	Refrigerant Compressors	D3030.10	23 61 00
Exterior	B2020.50	08 56 49	Conferences	D3030.10 D3030.10	23 63 00
Interior	C1020.50	08 56 49	Refrigerated	D3030.10	23 03 00
Radiators	D3020.70	23 82 29	Display Equipment	E1030.30	11 22 00
Radio Communications	D6020.20	27 32 43	Food Storage Cases	E1030.80	11 41 13
Equipment			Refrigeration Detection and	D7050.50	28 35 00
Radio Frequency Protection	F1030.50		Alarm		
Radioactive Decontamination	G1050.10	02 51 26	Detection Sensors	D7050.50	28 35 33
Radio-Frequency-			GUI and Logic Systems	D7050.50	28 35 13
Interference			Integrated Audio Evacuation	D7050.50	28 35 23
Filters	D5010.60	26 35 46	Systems		
Shielding Doors			Refrigerators		
Exterior	B2050.40	08 34 46	Laboratory	E1040.10	11 53 23
Interior	C1030.70	08 34 46	Mortuary	E1040.20	11 78 13
Shielding Windows			Registration Equipment	E1030.50	11 25 13
Exterior	B2020.50	08 56 46	Regulatory		
Interior	C1020.50	08 56 46	Required Permits	2020.50	01 41 00
Radiology Equipment	E1040.20	11 77 00	Requirements	Z1040.10	01 41 00
Radon Mitigation	A6020.10	31 21 13	Reinforced Soil Retaining Walls	G2060.60	32 32 34

KEY WORD	HE NUMBER	MF NUMBER	KEY WORD	HE NUMBER	MF NUMBER
Related Activities	OI NOWIDER	WII NOWBER		Z1040.10	01 41 00
Substructure	A90		Regulatory Sustainable Design	1030.50	01 41 00
Tunnel Construction	G9010.90		Toxic Materials	Z1060.50	01 66 16
Relational Contracts	3010.10		Zoning	1030.10	01 41 00
Relay-Logic Detention	D7070.10	28 46 16	Reservoirs, Site Irrigation	G3010.50	33 47 19
Monitoring and Control	D7070.10	20 40 10	Water	00010.00	00 47 10
Systems			Residential		
Relief Vents	B3020.10	07 72 23	Appliances	E1060.10	11 31 00
Religious	20020.10	0.7220	Casework	E2010.30	12 35 30
Art			Ceiling Fans	E1060.70	11 34 00
Fixed	E2010.10	12 19 00	Elevators	D1010.10	14 20 00
Movable	E2050.10	12 19 00	Equipment	E1060	11 30 00
Casework	E2010.30	12 35 91	Furniture	E2050.30	12 58 00
Equipment	E1040.40	11 91 00	Kitchen Appliances	E1060.10	11 31 13
Relocations	2050.30		Laundry Appliances	E1060.10	11 31 23
Disruptions	2050.30		Plumbing Fixtures	D2010.60	22 41 00
Moving	2050.30		Resilient Flooring	C2030.50	09 65 00
Temporary	2050.30		Athletic	C2030.80	09 65 66
Remediation			Stair Finish	C2040.50	09 65 00
Asbestos	F2010.20	02 82 00	Resinous Flooring	C2030.70	09 67 23
Facility	F20		Matrix Terrazzo	C2030.60	09 66 23
Lead	F2010.30	02 83 00	Restaurant		
Mold	F2010.50	02 85 00	Furniture	E2050.30	12 54 16
Polychlorinate Biphenyl	F2010.40	02 84 00	Turntables	D1030.30	14 72 25
Sinkhole	G1050.45	02 57 00	Retail Furniture	E2050.30	12 53 00
Site	G1050	02 50 00	Retaining Walls	G2060.60	32 32 00
Soil Stabilization	G1050.30	02 55 00	Subdrainage	G2060.60	33 46 33
Water	G1050.80	02 70 00	Retention Basins	G3030.70	33 47 26.16
Removal and Disposal of	F0040.00	00.00.00	Retractable Stairs	E1060.50	11 33 00
Asbestos Containing	F2010.20	02 82 33	Return Air	D3060.20	
Materials Contaminated Soils	G1050.60	02 61 00	Duct Accessories Ducts and Casings	D3060.20 D3060.20	23 33 00 23 31 00
Materials Containing Lead	F2010.30	02 83 33	HVAC Fans	D3060.20 D3060.20	23 34 00
Materials with Mold	F2010.50 F2010.50	02 85 33	Outlets and Inlets	D3060.20	23 37 00
Polychlorinate Biphenyls	F2010.40	02 84 33	Plenums and Chases	D3060.20	23 32 00
Representations and	3050.50	00 45 00	Reverse-Osmosis	G1050.10	02 51 16
Certifications	0000.00	00 40 00	Decontamination	G1000.10	02 01 10
Requests for Interpretation	Z1010.60	01 26 13	Revisions	4040	00 90 00
Requirements	21010.00	0.20.0	Precontract	4040.10	00 91 00
Administrative	Z1020	01 30 00	Revolving Door Entrances		08 42 33
Closeout	Z1070.60	01 77 19	Exterior	B2050.10	08 42 33
Contracting	40	00 00 00	Interior	C1030.20	08 42 33
Environmental, Facility	1030.53	01 81 16	Rezoning	2050.50	
Execution and Closeout	Z1070	01 70 00	Ridge Vents	B3020.10	07 72 26
General Commissioning	Z1090.10	01 91 13	Rigging Systems and Controls	E1070.10	11 61 33
Governmental Safety	Z1020.70	01 35 26	Rights-of-Way and Easements	2010.40	
Hazardous Materials	Z1060.50	01 66 13	Rigid Pavement		32 13 00
Historic Restoration	1030.70	01 35 91	Aviation	G2040.10	32 13 00
Indoor Air Quality	1030.56	01 81 19	Horizontal Waterproofing	B3040.50	32 13 00
Owner Safety	Z1020.70	01 35 23	Parking Lot	G2020.10	32 13 00
Planned Unit Development	1030.15		Pedestrian	G2030.10	32 13 00
Procurement	30	00 00 00	Roadway	G2010.10	32 13 00
Product	Z1060	01 60 00	Ring-Down Emergency	D6020.20	27 32 26
Product Delivery	Z1060.40	01 65 00	Telephones	<b></b>	
Product Storage and	Z1060.50	01 66 00	Riprap	G1070.65	31 37 00
Handling	74040	04 40 00	Roads, Temporary	Z1050.35	01 55 23
Quality	Z1040	01 40 00			
Regulatory	2020.50	01 40 00			

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Roadways	G2010		Room	0	
Appurtenances	G2010 G2010.40	32 17 00	Air-Conditioners	D3030.70	23 81 16
Construction	G2010.40 G2010.40	34 71 00	Finish Schedule	C2090	09 06 00.13
Curbs and Gutters	G2010.40 G2010.20	32 16 13	Rope Climbers	D1080.20	14 82 00
Embankments	G2010.20 G1070.30	31 24 13	Rotary Converters	D5010.10	26 32 29
Lighting	G2010.70	26 56 19	Rough Grading	G1070.10	31 22 13
Monitoring Equipment	G2010.70 G2010.40	34 41 23	Rugs and Mats, Moveable	E2050.40	12 48 00
Pavement	G2010.40	32 10 00	Rules	Z1040.10	01 41 19
Rock	02010.10	02 10 00	Running Track Surfacing	G205010	32 18 23.33
Anchors, Excavation	A9030.10	31 51 16	Training Train Carraining	0_000.0	02 .0 20.00
Bolting and Grouting	G1070.45	31 33 13	S		
Removal	G1070.20	31 23 16.26	Safe Deposit Boxes	E1030.20	11 16 13
Stabilization	G1070.45	31 33 00	Safes	E1030.20	11 16 16
Rock Reinforcement and		31 72 13	Safety		
Initial Support			Netting	F1060.20	13 28 16
Pedestrian Tunnels	G9010.20	31 72 13	Specialties	C1090.60	10 40 00
Service Tunnels	G9010.40	31 72 13	Samples	Z1020.50	01 33 23
Vehicular Tunnels	G9010.10	31 72 13	Field	Z1040.40	01 43 36
Rock Slope			Sanitary Drainage	D2020	22 13 00
Netting	G1070.45	31 33 23	Drains	D2020.30	22 13 19.13
Wire Mesh	G1070.45	31 33 26	Facilities	Z1050.20	01 52 19
Rodent Control	G1070.90	31 31 13	Manholes	D2020.30	22 05 73
Devices	C1090.90	10 81 19	Piping Cleanouts	D2020.30	22 05 76
Soil Treatment	A9040	31 31 13	Supplementary Components	D2020.90	
Roof			Sanitary Sewerage		
Accessories	B3020.10	07 72 00	Equipment	D2020.10	
Appurtenances	B3020		Force Mains	G3020.20	33 34 00
Curbs	B3020.10	07 72 13	Lagoons	G3020.60	33 47 23
Decks, Slabs, and Sheathing	B1020.20		Piping	D2020.30	33 31 00
Drains	D2030.30	22 14 26.16		G3020.20	
Girders and Beams	B1020.10		Pumps	D2020.10	22 13 29
Hatches	B3060.50	07 72 33	Structures	G3020.50	33 39 00
Joists	B1020.10		Utilities	G3020	33 30 00
Ladders	B3020.10	05 51 33	Utility Connection	G3020.10	
Panels	B3010.10	07 41 00	Sanitary Sewers	D2020.30	22 13 13
Pavers, Horizontal	B3040.50	07 76 00	Sanitary Waste	D0000 40	00.40.00
Waterproofing	D2020 20	10.74.00	Interceptors	D2020.10	22 13 23
Specialties Structural Frame	B3020.30 B1020.10	10 74 00	Piping Specialties Separators	D2020.30 D2020.10	22 13 19 22 13 26
Tiles	B3010.10	07 32 00	Sanitary Waste and Vent	D2020.10 D2020.30	22 13 26
Trusses	B1020.10		Piping	D2020.30	22 13 10
Walkways	B3020.10	07 72 46	Saunas	F1010.50	13 24 16
Windows	B3060.10	08 61 00	Sawdust Collection Systems	D3060.30	23 35 13.13
Roof Construction	B1020		Scaffolding	20000.00	20 00 10.10
Supplementary Components	B1020.90		Powered	D1080.40	14 84 00
Roofing	B3010		Suspended	D1080.10	14 81 00
Ballast	B3010.50	07 50 00	Window Washing	D1080.40	14 84 13
Canopy	B3010.70		Scaffolding and Platforms,	Z1050.30	01 54 23
Coatings	B3010.50		Temporary		
Gravel	B3010.50		Scales	C1090.90	10 88 00
Low-Slope	B3010.50		Scanners	D6010.30	27 24 16
Membrane, Low-Slope	B3010.50	07 50 00	Schedule of Values	Z1010.70	01 29 73
Pavers	B3010.50	07 76 13	Schedules		
Shingles and Shakes	B3010.10	07 31 00	Room Finish	C2090	09 06 00.13
Steep Slope	B3010.10	07 30 00	Interior Finish	C2090	
Supplementary Components	B3010.90		Preliminary	3040.1	00 31 13
			Scheduling of Work	Z1020.30	01 32 13

KEY WORD	UF NUMBER	MF NUMBER	KFY WORD	UF NUMBER	MF NUMBER
Scoreboards	Of HOMBER	IIII ITOINEEN	Sensors	OI HOMBER	WII HOWBER
Exterior	G205010	11 68 43	Carbon-Monoxide Detection	D7050.10	28 31 49
Interior	E1070.50	11 66 43	Fire Detection	D7050.10 D7050.10	28 31 43
Screening Devices, Site	G2060.80	32 35 00	Fuel-Gas Detection	D7050.10	28 33 33
Screens and Louvers, Site	G2060.80	32 35 13	Fuel-Oil Detection	D7050.40	28 34 33
Screens	02000.00	02 00 10	Radiation Detection	D7050.20	28 32 33
Equipment	B2010.60		Refrigerant Detection	D7050.50	28 35 33
Interior	C1010.70		Smoke Detection	D7050.10	28 31 46
Sculptures	0.0.0		Water Detection	D7050.60	28 36 33
Fixed	E2010.10	12 14 00	Separators, Sanitary Waste	D2020.10	22 13 26
Movable	E2050.10	12 14 00	Septic Tanks		
Scuppers	B3020.70	07 71 33	Effluent Pumps	G3020.40	33 36 16
Seals and Shelters, Loading	E1010.50	11 13 16	Facility	D2020.10	22 13 53
Dock			Utility	G3020.40	33 36 00
Seat and Table Assemblies			Septic Tanks and Effluent Wet	G3020.40	33 36 13
Fixed	E2010.70	12 68 00	Wells		
Portable	E2050.60	12 68 00	Service		
Seating	E2050.30	12 52 00	Elevators	D1010.10	14 20 00
Seating and Tables, Site	G2060.25	12 93 43	Fittings and Accessories	E1040.10	11 53 43
Sectional Doors		08 36 13	Line Equipment	E1030.80	11 46 16
Exterior	B2050.30	08 36 13	Tunnels	G9010.40	
Interior	C1030.50	08 36 13	Walls	C1090.30	10 25 00
Security			Services	D	
Access Detection	D7010.10	28 13 53	Sewerage		
Barriers, Temporary	Z1050.40	01 56 33	Cleanouts	G3020.50	33 39 23
Ceiling Assemblies	C1070.70	09 57 53	Manholes, Frames, and	G3020.50	33 39 13
Doors, Exterior	B2050.40	08 34 53	Covers		
Doors, Interior	C1030.70	08 34 53	Sewers, Sanitary	D2020.30	22 13 13
Enclosures, Temporary	Z1050.40	01 56 36	Shaft Construction		
Equipment	E1040.60	11 18 00	Pedestrian Tunnels	G9010.20	31 75 00
Gates, Interior	C1040.50	08 34 56	Service Tunnels	G9010.40	31 75 00
Lighting	D5040.50	26 55 53	Vehicular Tunnels	G9010.10	31 75 00
Mirrors and Domes	C1090.90	10 86 00 22 46 00	Shampoo Bowls	D2010.60	22 42 29
Plumbing Fixtures Procedures	D2010.60		Sheathing	D1010 20	06 16 00
Windows, Exterior	Z1020.70 B2020.50	01 35 53 08 56 53	Balcony Canopy	B1010.30 B1020.30	06 16 00
Windows, Interior	C1020.50	08 56 53	Exterior Balcony Walls	B2080.50	06 16 00
Seeders	E1090.40	11 93 16	Exterior Walls	B2000.30 B2010.20	06 16 00
Seeding	G2080.20	32 92 19	Floor	B1010.20	06 16 00
Segmental Retaining Walls	G2060.60	32 32 23	Mezzanine	B1010.40	06 16 00
Security Glazing		08 88 53	Parapets	B2010.50	06 16 00
Exterior Windows	B2020.50	08 88 53	Ramps	B1010.50	06 16 00
Exterior Doors	B2050.40	08 88 53	Roof	B1020.20	06 16 00
Interior Windows	C1020.50	08 88 53	Sheet Carpeting	C2030.75	09 68 16
Interior Doors	C1030.70	08 88 53	Sheet Metal Flashing and		
Seismic			Trim		
Control	F1030.30	13 48 00	Horizontal Waterproofing	B3040.90	07 62 00
Instrumentation	F1080.20	13 52 00	Roofing	B3010.90	07 62 00
Selective			Sheet Metal Roofing	B3010.10	07 61 00
Bridge Demolition	F3030.50	02 41 19.33	Specialties	B3010.10	07 63 00
Building Demolition	F3030.10	02 41 19.13	Sheet Piling Cofferdams	A9030.20	31 52 13
Demolition	F3030	02 41 19	Shell	В	
Historic Demolition	F3030.70	02 41 91	Shelving	_	
Interior Demolition	F3030.30	02 41 19.16	Closet and Utility	C1090.70	10 57 33
Site Demolition	G1020.50	02 41 13	Food Service	E1030.80	11 41 33
Self-Contained Air-conditioners	D3030.70	23 81 19	Shield Driving Tunnel	G9010.90	31 71 13
			Excavation		
		J			

New Norb   UF NUMBER MF NUMBER   KEY WORD   UF NUMBER MF NUMBER   Norbighing Equipment   E1030,70   11 29 33   Shipp Passenger Loading   D1030,50   11 67 23   Shipping Equipment   E1030,70   11 29 33   Available   Available   Norbighing Equipment   E1030,70   11 29 33   Available   Available						
Bridges   Shipping Equipment	KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Shipping Equipment	Ship Passenger Loading	D1030.50	34 77 13	Residential	D2010.60	22 41 16
Shooling Range Equipment   E1070.60   11 67 23   Availation   Availation   Availation   Capoble   Capobl				-	D2010.60	22 46 16
Shop Drawings						
Shop-Fabricated Structural     66 17 00   Wood   Wood   Sackprop Construction   B1010.30   06 17 00   Clearing   Cloaring   Cloaring   Construction   G1050.40   02 56 00   Constructed Fireplaces   C1090.50     Containment   G2060     Contai				-		
Shop-Fabricated Structural   Wood   Balcony Construction   B1010.30   06 17 00   Constructed Fireplaces   C1090.50     C0nstructed Fireplaces   C1090.50     C1090.		Z1020.50	01 33 23			
Mood   Balcony Construction   Baltony Construction   Const	•		00.47.00	•		
Balcony Construction	-		06 17 00	=		
Canopy Construction   B1020.30   06 17 00   Mezzanine Construction   B1010.40   06 17 00   Ramps   B1010.50   06 17 00   Earthwork   G1070   33 52 19   Earthwork   G1070   31 20 00   G176 51   Electric Distribution Systems   G4010     Electric Distribution   G3050		D1010 20	06 17 00	· · · · · · · · · · · · · · · · · · ·		
Mezzanine Construction   Ramps   B1010.50   06 17 00   Shop-Fabricated Wood     06 17 53   Earthwork   G1070   33 22 00 00						
Ramps         B1010.50         06 17 00         Earthwork         G1070         31 20 00           Shop-Fabricated Wood          06 17 53         Electric Distribution Systems         G1007         31 20 00           Floor         B1010.10         06 17 53         Electric Distribution         G2060            Rock Slope         G1070.40         31 33 33         SOII Slope         G1070.40         31 33 33         Furnishing         G2060.50            Shotcrete Tunnel Lining          31 74 19         Fuel-Oil Distribution         G3060.0            Service         G9010.40         31 74 19         Furnishings         G2060.25         12 93 00           Shower A Dressing         C1090.25         10 21 16         Furnishings         G2060.25         12 93 00           Shower S Dressing         C2010.60         22 42 23         Furnishings         G2060.25         12 93 00           Shower S Dressing         D2010.60         22 42 23         Furnishings         G4050.00         33 52 16           Shower S Dressing         D2010.60         22 42 23         Furnishings         G4050.00         26 65 00           Shund Arresters, Site Electrical         D2010.60         22 44 13         Fur				•		
Shop-Fabricated Wood   Floor Trusses   Floor Bl020.10   0617 53   Rod   Bl020.10   0617 53   Floor Shotcrete Stabilization   Floor Shotcrete Stabilization   Floor Shotcrete Stabilization   Floor Shotcrete Stabilization   Floor Shotcrete Trunel Lining						
Ploor Trusses	•					
Floor   Roof   B1020.10   06 17 53   Equipment   G2060.50			00 17 00	<u> </u>		
Roof   Shotcrete Stabilization   Rock Slope   G1070.45   31 33 33   Distribution   G3060.20   33 52 13   Soil Slope   G1070.40   31 32 33   Distribution   G3060.20   33 52 13   Pueblication   G3060.20   G3060.20		B1010 10	06 17 53	T		
Shotcrete Stabilization   Rock Slope   G1070.45   31 33 33   Silope   G1070.40   31 32 33   Fuel Distribution   G3060.20   33 52 13   Fuel Distribution   G3060.20   33 52 13   Fuel Distribution   G3060.20   33 52 13   Fuel Distribution   G3060.25   12 93 00   Fuel Distribution   G3060.25   12 93 00   G3060.01   33 41 00   G306				~ -		
Rock Slope   G1070.45   31 33 33   Sil Slope   G1070.40   31 32 33   Shotcrete Tunnel Lining     31 74 19   Pedestrian   G9010.20   31 74 19   Service   G9010.40   31 74 19   Vehicular   G9010.10   31 74 19   Gasoline Distribution   G3060.10   33 41 100   Vehicular   G9010.10   31 74 19   Gasoline Distribution   G3060.10   33 41 100   Vehicular   G9010.10   31 74 19   Gasoline Distribution   G3060.10   33 41 100   Vehicular   G9010.10   31 74 19   Gasoline Distribution   G3060.10   33 41 100   Vehicular   G9010.10   31 74 19   Gasoline Distribution   G3060.10   33 41 100   Gasoline Distribution   G3060.10   33 52 18   Gasoline Distribution   G3060.10   33 52 18   Gasoline Distribution   G3060.10   33 52 18   Gasoline Distribution   G3060.10   33 52 16   Gasoline Distribution		2.0200				
Soil Slope		G1070.45	31 33 33			
Shotcrete Tunnel Lining          31 74 19         Fuel-Oil Distribution         G3060.20         33 52 13           Pedestrian         G9010.20         31 74 19         Furnishings         G2060.25         12 93 00           Service         G9010.10         31 74 19         Gas Distribution         G3060.10         33 41 00           Shower & Dressing         C1090.25         10 21 16         Grounding         G3060.10         33 52 16           Shower & Dressing         C2050.40         12 44 16         Grounding         G3010.50            Shower Curtains         E2050.40         12 44 16         Lease         2010.20            Showers         D2010.60         22 42 23         Maintenance         21070.30         01 74 16           Emergency         D2010.60         22 42 23         Preparation         G10            Healthcare         D2010.60         22 43 23         Program         1020.10            Residential         D2010.60         22 41 23         Program         1020.10            Shrubs         G2080.30         32 93 33         Remediation         G1050         02 50 00           Shutters, Interior         E2010.20         12	•				G3060	
Pedestrian   G9010.20   31 74 19   Service   G9010.40   31 74 19   Vehicular   G9010.10   31 74 19   Gasoline Distribution   G3060.10   33 41 00   Vehicular   G9010.10   31 74 19   Gasoline Distribution   G3060.30   33 52 16   Grounding   G4010.70   33 79 00   Irrigation Water Distribution   G3060.30   33 79 00   Irrigation Water Distribution   G3010.50     Shower   Cutrains   D2010.60   C2 42 23   Lighting   G4050   C6 66 00   C6 66 00   C6 60 00   C7 41 60   C7 41						33 52 13
Service		G9010.20	31 74 19			
Shower & Dressing   C1090.25   10 21 16   Compartments   E2050.40   12 44 16   Lease   2010.20     Showers   D2010.60   22 42 23   Lighting   G4050   26 56 00   Commercial   D2010.60   22 42 23   Lighting   G4050   26 56 00   Commercial   D2010.60   22 42 23   Lighting   G4050   26 56 00   Commercial   D2010.60   22 45 13   Program   G10     Commercial   D2010.60   22 45 13   Program   G10   Commercial   D2010.60   22 45 13   Program   G10   Commercial   D2010.60   22 45 13   Program   G10   Commercial   D2010.60   22 41 23   Program   G10   Commercial   D2010.60   C2 41 23   Program   G10   Commercial   D2010.60   C2 45 13   Program   G10   Commercial   C1050   Commercial   D2010.60   C2 41 23   Program   G102.01   Commercial   D2010.60   C2 41 41 41 41 41 41 41 41 41 41 41 41 41	Service	G9010.40	31 74 19	Gas Distribution	G3060.10	33 41 00
Irrigation Water Distribution	Vehicular	G9010.10	31 74 19	Gasoline Distribution	G3060.30	33 52 16
Shower Curtains         E2050.40         12 44 16         Lease         2010.20	Shower & Dressing	C1090.25	10 21 16	Grounding	G4010.70	33 79 00
Showers         D2010.60          Lighting         G4050         26 600           Commercial         D2010.60         22 42 23         Maintenance         Z1070.30         01 74 16           Emergency         D2010.60         22 43 23         Preparation         G10            Healthcare         D2010.60         22 41 23         Program         1020.10            Residential         D2010.60         22 41 23         Purchase         2010.10            Shrubs         G2080.30         32 93 33         Remediation         G1050         02 50 00           Shunt Arresters, Site Electrical         G4010.50          Screening Devices         G2060.80         32 35 00           Shunt Arresters, Site Electrical         G4010.50          Screening Devices         G2060.80         32 35 00           Shunt Arresters, Site Electrical         G4010.20         12 23 00         Soil Treatment         G1050         23 35 00           Shutters, Interior         E2010.20         12 23 00         Stormwart Water Drains         G3030.40         33 44 00           Signage         Exterior Wall Setterior         G2060.30         10 14 00         Survey, Final         Z1070.70         01 78 29	Compartments			Irrigation Water Distribution	G3010.50	
Commercial   D2010.60   22 42 23   Emergency   D2010.60   22 45 13   Preparation   G10     Freparation   G208.33   33   33   33   33   33   33   33	Shower Curtains	E2050.40	12 44 16	Lease	2010.20	
Emergency	Showers	D2010.60		Lighting	G4050	26 56 00
Healthcare   D2010.60   22 43 23   Program   1020.10	Commercial	D2010.60	22 42 23	Maintenance	Z1070.30	01 74 16
Residential   D2010.60   22 41 23   Purchase   2010.10	Emergency	D2010.60	22 45 13	Preparation	G10	
Shrubs         G2080.30         32 93 33         Remediation         G1050         02 50 00           Shutt Arresters, Site Electrical         G4010.50          Screening Devices         G2060.80         32 35 00           Shutters, Interior         E2010.20         12 23 00         Soil Treatment         G1070.90         31 31 00           Sidewalk Lifts         D1010.20         14 44 00         Specialties         G2060.85         32 39 00           Siding, Exterior Walls         B2010.10         07 46 00         Storm Water Drains         G3030.40         33 44 00           Signage         Exterior         G2060.30         10 14 00         Subdrainage         G3030.60         33 46 00           Exterior         G2060.30         10 14 00         Survey, Final         Z1070.70         01 78 29           Interior         C1090.20         10 14 00         Site Communications         G5010         33 80 00           Exterior         Project         Z1050.70         10 1 8 13         Systems         Systems           Signaling and Control         G2010.40         34 41 00         Site Communications         G5010.30         33 80 00           Exterior Wall Vener         B2010.90          Site Image Systems         Demolition		D2010.60		_	1020.10	
Shunt Arresters, Site Electrical         G4010.50          Screening Devices         G2060.80         32 35 00           Shutters, Interior         E2010.20         12 23 00         Soil Treatment         G1070.90         31 31 00           Sidewalk Lifts         D1010.20         14 44 00         Specialties         G2060.85         32 39 00           Siding, Exterior Walls         B2010.10         07 46 00         Storm Water Drains         G3030.40         33 44 00           Signage         C3060.30         10 14 00         Subdrainage         G3030.60         33 46 00           Exterior         G2060.30         10 14 00         Survey, Final         Z1070.70         01 78 29           Interior         C1090.20         10 14 00         Survey, Final         Z1070.70         01 78 29           Signaling and Control         G2010.40         34 41 00         Site Communications         G5010         33 80 00           Equipment, Roadway         Site Limprovements         G5010.10         33 81 00         Structures         G5010.10         33 81 00           Sills, Exterior Wall Openings         B2010.10         06 61 00         Relocations         G1020            Fabrications, Exterior         B2080.70         06 61 00         Relocat						
Shutters, Interior         E2010.20         12 23 00         Soil Treatment         G1070.90         31 31 00           Sidewalk Lifts         D1010.20         14 44 00         Specialties         G2060.85         32 39 00           Siding, Exterior Walls         B2010.10         07 46 00         Storm Water Drains         G3030.40         33 44 00           Signage         Subdrainage         G3030.60         33 46 00           Exterior         C1090.20         10 14 00         Survey, Final         Z1070.70         01 78 29           Interior         C1090.20         10 14 00         Survey, Final         Z1070.70         01 78 29           Interior         C1090.20         10 14 00         Site Communications         G5010         33 80 00           Temporary Project         Z1050.70         01 58 13         Systems         Site Communications         G5010.30         33 82 00           Equipment, Roadway         B2010.90          Site Elements         Site Elements         Site Elements           Simulated Stone          06 61 00         Relocations         G1030            Fabrications, Exterior         B2080.70         06 61 00         Grounding         G3050.40         33 61 00           Sing			32 93 33			
Sidewalk Lifts         D1010.20         14 44 00 siding, Exterior Walls         Specialties         G2060.85 siding, 32 39 00 siding, Exterior Walls         32 39 00 siding, Exterior Walls         Specialties         G2060.85 siding, 32 39 00 siding, Exterior Walls         Specialties         G2060.85 siding, 32 39 00 siding, Exterior Walls         Siding, Exterior Walls         Siding, Exterior Wall Composed Project         Siding, Exterior Project         Siding, Exterior Siding, Exterior Project         Si				<u> </u>		
Siding, Exterior Walls         B2010.10         07 46 00         Storm Water Drains         G3030.40         33 44 00           Signage         Exterior         G2060.30         10 14 00         Subdrainage         G3030.60         33 46 00           Exterior         C1090.20         10 14 00         Survey, Final         Z1070.70         01 78 29           Interior         C1090.20         10 14 00         Site Communications         G5010         33 80 00           Temporary Project         Z1050.70         01 58 13         Systems         Systems           Signaling and Control         G2010.40         34 41 00         Systems         Stystems           Signaling and Control         G2010.40         34 41 00         Systems         Stystems           Signaling and Control         G2010.40         34 41 00         Systems         Stystems           Signaling and Control         G2010.40         34 41 00         Stystems         Stystems           Sill Equipment, Roadway         Site Elements         Structures         G5010.10         33 81 00           Sill Elements         Site Elements         Site Improvements         G20						
Signage         Subdrainage         Subdrainage         G3030.60         33 46 00           Exterior         G2060.30         10 14 00         Survey, Final         Z1070.70         01 78 29           Interior         C1090.20         10 14 00         Site Communications         G5010         33 80 00           Temporary Project         Z1050.70         01 58 13         Systems         Site Communications         G5010.30         33 82 00           Equipment, Roadway         Site Elements         Structures         G5010.10         33 81 00           Simulated Stone          06 61 00         Site Elements           Simulated Stone         B2010.10         06 61 00         Relocations         G1030            Fabrications, Exterior         B2080.70         06 61 00         Relocations         G1030            Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Purposed Entities         3010.10          Site Hydronic Cooling         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Honderground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16				•		
Exterior   G2060.30   10 14 00   Survey, Final   Z1070.70   01 78 29	_	B2010.10	07 46 00			
Interior		00000 00	40.44.00	_		
Temporary Project         Z1050.70         01 58 13         Systems           Signaling and Control         G2010.40         34 41 00         Distribution         G5010.30         33 82 00           Equipment, Roadway         Structures         G5010.10         33 81 00           Sills, Exterior Wall Openings         B2010.90          Site Elements           Simulated Stone          06 61 00         Pemolition         G1020            Exterior Wall Veneer         B2010.10         06 61 00         Relocations         G1030            Fabrications, Exterior         B2080.70         06 61 00         Grounding         G20            Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Contract         3010.30          Site Hydronic Cooling         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Aboveground         G3050.10         33 61				• .		
Signaling and Control         G2010.40         34 41 00         Distribution         G5010.30         33 82 00           Equipment, Roadway         B2010.90          Site Elements         Site Elements           Simulated Stone          06 61 00         Demolition         G1020            Exterior Wall Veneer         B2010.10         06 61 00         Relocations         G1030            Fabrications, Exterior         B2080.70         06 61 00         Site Improvements         G20            Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Contract         3010.30          Site Hydronic Cooling         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 13         Underground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13					G5010	33 80 00
Equipment, Roadway         Structures         G5010.10         33 81 00           Sills, Exterior Wall Openings         B2010.90          Site Elements           Simulated Stone          06 61 00         Demolition         G1020            Exterior Wall Veneer         B2010.10         06 61 00         Relocations         G1030            Fabrications, Exterior         B2080.70         06 61 00         Site Improvements         G20            Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Contract         3010.30          Site Hydronic Cooling         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.10         33 61 00           Sinkhole Remediation         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Undergroun				-	G5010 20	33 82 00
Sills, Exterior Wall Openings         B2010.90          Site Elements           Simulated Stone          06 61 00         Demolition         G1020            Exterior Wall Veneer         B2010.10         06 61 00         Relocations         G1030            Fabrications, Exterior         B2080.70         06 61 00         Site Improvements         G20            Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Contract         3010.30          Grounding         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.10         33 61 00           Sinkhole Remediation         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 16         Aboveground         G3050.10         33 61 13           Sinks         D2010.60	-	G2010.40	J+ +1 UU			
Simulated Stone          06 61 00         Demolition         G1020            Exterior Wall Veneer         B2010.10         06 61 00         Relocations         G1030            Fabrications, Exterior         B2080.70         06 61 00         Site Improvements         G20            Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Contract         3010.30          Site Hydronic Cooling         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 13         Underground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          Commercial         D2010.60         22 42 16		B2010 90			55010.10	33 01 00
Exterior Wall Veneer         B2010.10         06 61 00         Relocations         G1030            Fabrications, Exterior         B2080.70         06 61 00         Site Improvements         G20            Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Contract         3010.30          Site Hydronic Cooling         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.40         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          D2010.60         10 00000000000000000000000000000000000					G1020	
Fabrications, Exterior         B2080.70         06 61 00         Site Improvements         G20            Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Contract         3010.30          Site Hydronic Cooling         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.40         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          Commercial         C0010.60         22 42 16         Underground         G3050.10         33 61 13						
Fabrications, Interior         C2020         06 61 00         Grounding         G4010.70         33 79 13           Single Contract         3010.30          Site Hydronic Cooling         G3050.40         33 61 00           Single Purposed Entities         3010.10          Distribution         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.40         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          D2010.60         22 42 16         Underground         G3050.10         33 61 13						
Single Contract         3010.30          Site Hydronic Cooling         G3050.40         33 61 00           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.40         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          Underground         C000000000000000000000000000000000000				-		
Single Purposed Entities         3010.10          Distribution           Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.10         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          Underground         Commercial         Commercial         D2010.60         22 42 16	•			•		
Single-Panel Doors          08 36 16         Aboveground         G3050.40         33 61 23           Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.10         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          Underground         Commercial         Commercial         C2 42 16	_			-	· · ·	
Exterior         B2050.30         08 36 16         Underground         G3050.40         33 61 13           Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.10         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          Underground         Commercial         Commercial         D2010.60         22 42 16			08 36 16		G3050.40	33 61 23
Interior         C1030.50         08 36 16         Site Hydronic Heating         G3050.10         33 61 00           Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          Commercial         D2010.60         22 42 16         Underground         Canal Commercial         Ca		B2050.30		_		
Sinkhole Remediation         G1050.45         02 57 00         Distribution           Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          D2010.60         22 42 16	Interior		08 36 16	_	G3050.10	
Backfilling         G1050.45         02 57 16         Aboveground         G3050.10         33 61 23           Grouting         G1050.45         02 57 13         Underground         G3050.10         33 61 13           Sinks         D2010.60          D2010.60         22 42 16	Sinkhole Remediation	G1050.45		-		
Sinks         D2010.60            Commercial         D2010.60         22 42 16				Aboveground	G3050.10	33 61 23
Sinks         D2010.60            Commercial         D2010.60         22 42 16	_	G1050.45	02 57 13	~	G3050.10	33 61 13
	_			-		
Healthcare D2010.60 22 43 16	Commercial	D2010.60	22 42 16			
	Healthcare	D2010.60	22 43 16			

Site Steam Energy         G3050.20         33 63 00         Telemanagement         D6020.40           Distribution         G3050.20         33 63 23         Virtual Private Network         D6010.50           Piping, Aboveground         G3050.20         33 63 23         Virus Protection         D6010.50           Sitework         G          Anchors, Excavation         A9030.10           Skylights         B3060.10         08 66 00         Mixers         E1090.40           Protection and Screens         B3060.10         08 66 00         Mixers         E1090.40           Slab Trenches         A4030          Nailing         G1070.40           Standard         A4010         03 30 00         Stabilization         G1070.40           Structural         A4020         03 30 00         Remediation         G1070.40           Supplementary Components         A4090          Stripping and Stockpiling         G1070.30           Sliding         Doors, Interior         C1030.25         08 11 73         Site         G1070.90           Separation/Solubilization         G1050.25         Separation/Solubilization         Solar           Metal Grilles, Interior         C1040.10         08 11 74         Collectors, Heating<	27 25 37 27 25 13 31 51 13
Piping, Aboveground Piping, Underground         G3050.20         33 63 23 363 13         Virus Protection         D6010.50           Skylights         B3060.10         08 60 00         Mixers         E1090.40           Protection and Screens         B3060.10         08 67 00         Mixing Stabilization         G1070.40           Slab Trenches         A4030          Nailing         G1070.40           Slabs-On-Grade         A40          Reinforcement         G1070.50           Structural         A4020         03 30 00         Stabilization         G1070.40           Structural         A4090          Stabilization         G1070.40           Spephementary Components         A4090          Stabilization         G1070.40           Sliding          Stripping and Stockpiling         G1010.50           Speparation         C1030.25         08 32 00         Washing through         G1050.35           Exterior         B2050.10         08 32 00         Washing through         G1050.25           Metal Grilles, Interior         C1040.10         08 11 74         Collectors, Heating         D3020.10           Partitions         C1010.50         10 22 43         Heat Generation         D3020.10 </td <td>27 25 13</td>	27 25 13
Piping, Underground   G3050.20   33 63 13   Sitework   G	31 51 13
Sitework         G          Anchors, Excavation         A9030.10           Skylights         B3060.10         08 60 00         Mixers         E1090.40           Protection and Screens         B3060.10         08 67 00         Mixing Stabilization         G1070.40           Slabs-On-Grade         A40          Reinforcement         G1070.50           Standard         A4010         03 30 00         Reinforcement         G1070.40           Structural         A4020         03 30 00         Remediation         G1050.30           Supplementary Components         A4090          Stripping and Stockpiling         G1010.50           Sliding         Treatment         A9040         Washing through         G1050.30           Site         G1070.90         Washing through         G1050.25           Exterior         B2050.10         08 32 00         Separation/Solubilization         Solar           Exterior Interior         C1040.10         08 11 73         Collectors, Heating         D3020.10           Exterior         B2050.10         08 43 29         Solider-Beam Retaining Walls         G2060.60           Exterior         B2050.10         08 43 29         Solid Waste         Bins         E1090.10	
Skylights         B3060.10         08 60 00         Mixers         E1090.40           Protection and Screens         B3060.10         08 67 00         Mixing Stabilization         G1070.40           Slab Trenches         A4030          Nailing         G1070.40           Slabs-On-Grade         A401         03 30 00         Reinforcement         G1070.50           Standard         A4010         03 30 00         Remediation         G1050.30           Structural         A4020         03 30 00         Remediation         G1050.30           Supplementary Components         A4090          Stripping and Stockpiling         G1010.50           Sliding         Treatment         A9040         Stripping and Stockpiling         G1010.50           Sliding         Treatment         A9040         Stripping and Stockpiling         G1010.50           Boors          08 32 00         Washing through         G1050.25           Exterior         B2050.10         08 32 00         Solar         Solar           Partitions         C1010.50         10 22 43         Heat Generation         D3020.10           Storefronts          08 43 29         Solicitation         Solicitation         Solicitation </td <td></td>	
Protection and Screens   B3060.10   08 67 00   Slab Trenches   A4030	
Slab Trenches	
Slabs-On-Grade         A40          Reinforcement         G1070.50           Standard         A4010         03 30 00         Stabilization         G1070.40           Structural         A4020         03 30 00         Remediation         G1050.30           Supplementary Components         A4090          Stripping and Stockpiling         G1070.90           Sliding         Treatment         A9040           Doors, Interior         C1030.25         08 11 73         Site         G1070.90           Glass Doors          08 32 00         Washing through         G1070.90           Exterior         B2050.10         08 32 00         Separation/Solubilization           Interior         C1030.25         08 32 00         Solar           Metal Grilles, Interior         C1040.10         08 11 74         Collectors, Heating         D3020.10           Partitions         C1010.50         10 22 43         Heat Generation         D3020.10           Storefronts          08 43 29         Soldier-Beam Retaining Walls         G2060.60           Interior         C1030.20         08 43 29         Solid Waste         Solid Waste           Slip-Resistant Flooring         C2030.10         09 61 13	
Standard         A4010         03 30 00         Stabilization         G1070.40           Structural         A4020         03 30 00         Remediation         G1050.30           Supplementary Components         A4090          Stripping and Stockpiling         G1010.50           Sliding         Treatment         A9040         A9040         Stripping and Stockpiling         G1010.50           Glass Doors          08 32 00         Washing through         G1050.25           Exterior         B2050.10         08 32 00         Washing through         G1050.25           Exterior         C1030.25         08 32 00         Separation/Solubilization         Solar           Partitions         C1040.10         08 11 74         Collectors, Heating         D3020.10           Partitions         C1010.50         10 22 43         Heat Generation         D3020.10           Storefronts          08 43 29         Instrumentation         F1080.40           Exterior         B2050.10         08 43 29         Solicitation         Solidier-Beam Retaining Walls         G2060.60           Slip-Resistant Flooring         C1030.20         08 43 29         Solid Waste         Bins         E1090.10           Slope Protection	
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Vehicular	G9010.10	31 77 00	Slab-On-Grade	A4090	
Submittals			Standard Foundation	A1010.90	
Procedures	Z1020.50	01 33 00	Subgrade Enclosure Wall	A2010.90	
Schedule	Z1020.30	01 32 19	Support Plumbing	D2030.90	
Substation	G4010.30		Ventilation	D3060.90	
Bus Assemblies, Site	G4010.30	33 72 26	Wall Finish	C2010.90	
Electrical			Supplementary Conditions	4030.35	00 73 00
Control Wiring, Site Electrical	G4010.30	33 72 43	Supplementary Instructions	3030.15	00 22 00
Substations, Facility	D5020.10	26 11 00	Supplier Qualifications	Z1040.40	01 43 16
Substitution Procedures	Z1010.50	01 25 00	Supply Air	D3060.10	
Substrate Board	 Doo 40 00	09 28 00	Duct Accessories	D3060.10	23 33 00
Horizontal Waterproofing	B3040.90	09 28 00	Ducts and Casings	D3060.10	23 31 00
Roofing	B3010.90	09 28 00	HVAC Fans	D3060.10	23 34 00
Substructure	A	24 22 22	Outlets	D3060.10	23 37 00
Backfill and Compaction Excavation	A9010.10 A9010	31 23 23 31 23 16	Plenums and Chases Terminal Units	D3060.10 D3060.10	23 32 00 23 36 00
Excavation Support	A9010 A9030	31 50 00	Surface Cleaning	G1050.10	02 51 29
Related Activities	A9030		Decontamination	G 1030.10	02 31 29
Subsurface Investigation	1040.50	02 30 00	Surface Removal	G1050.10	02 51 33
Summary of Work	1010.10	01 11 00	Decontamination	G 1000.10	02 01 00
Sump Pumps, Stormwater	D2030.10	22 14 29	Surfaces		
Drainage	220000		Athletic	G205010	32 18 00
Sun Control Devices, Exterior	B2080.30	10 71 13	Recreational	G2050.30	32 18 00
Superstructure	B10		Playfield	G2050.50	
Supplemental Instructions	Z1010.60	01 26 36	Surge Arresters, Site Electrical	G4010.50	
Supplementary Components			Surveillance, Electronic	D7030	28 20 00
Ceiling Finish	C2050.90		Surveillance, Video	D7030.10	28 23 00
Communications	D6090		Survey and Layout Data	Z1020.30	01 32 23
Cooling System	D3030.90		Survey Information	3040.35	00 31 21
Domestic Water Distribution	D2010.90		Surveyors	2030.30	
Electrical Service and	D5020.90		Surveys	1040.30	02 21 00
Distribution			Suspended Ceilings		
Electronic Safety and	D7090		Acoustical	C1070.10	09 51 00
Security			Construction	C1070	
Exterior Door	B2050.90		Plaster and Gypsum Board	C1070.20	09 20 00
Exterior Lighting	G4050.90		Suspension Systems	C1070.20	09 22 26

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Sound Isolation	C1070.90	13 48 00	Temporary		
Special Function	C1070.70	09 57 00	Access Roads	Z1050.35	01 55 13
Specialty	C1070.50	09 54 00	Air Barriers	Z1050.40	01 56 13
Suspension Systems	C1070.90		Barricades	Z1050.40	01 56 23
Suspended Decorative	E2010.10		Barriers and Enclosures	Z1050.40	01 56 00
Elements			Bridges	Z1050.25	01 53 13
Suspended Scaffolding	D1080.10	14 81 00	Construction	Z1050.25	01 53 00
Sustainability Certification	Z1020.70	01 35 66	Controls	Z1050.50	01 57 00
Project Procedures			Cranes	Z1050.30	01 54 19
Sustainable Design			Decking	Z1050.25	01 53 16
Closeout Documentation	Z1070.70	01 78 53	Dust Barriers	Z1050.40	01 56 16
Consultants	2030.30		Electricity	Z1050.10	01 51 13
Reporting	Z1020.50	01 33 29	Elevators	Z1050.30	01 54 13
Requirements	1030.50	01 81 13	Environmental Controls	Z1050.50	01 57 19
Swimming Pools	F1050.10	13 11 00	Erosion and Sediment	Z1050.50	01 57 13
Swing Staging, Temporary	Z1050.30	01 54 26	Control		
Swinging Doors, Interior	C1030.10	08 10 00	Facilities and Controls	Z1050	01 50 00
Switchboards and	D5020.30	26 24 00	Fencing	Z1050.40	01 56 26
Panelboards			Fire Protection	Z1050.10	01 51 16
Switchgear and Switchboards,	D5020.10	26 13 00	Fuel Oil	Z1050.10	01 51 19
Facility		26 23 00	Heating, Cooling, and	Z1050.10	01 51 23
Synthetic Resilient Surfacing,	G2050.50	32 18 16	Ventilating	7405000	0.4 = 4.40
Playfield	<b>5</b> 00 <b>5</b> 0 00	40.50.00	Hoists	Z1050.30	01 54 16
Systems Furniture	E2050.30	12 59 00	Interior Signage	Z1050.70	01 58 16
T			Lighting	Z1050.10	01 51 26
	<b>5</b> 00 <b>5</b> 0 10	10.10.00	Natural Gas	Z1050.10	01 51 29
Table Accessories	E2050.40	12 42 00	Noise Barriers	Z1050.40	01 56 19
Table Games Equipment	E1070.60	11 67 43	Overpasses	Z1050.25	01 53 19
Tackboards	C1090.20	10 11 23	Parking Areas	Z1050.35	01 55 19
Tactile Warning Surfacing	G2030.40	32 17 26	Pest Control	Z1050.50	01 57 16
Tanks Chemical-Waste	D2060 40	22.66.02	Project Signage	Z1050.70	01 58 13 01 56 29
	D2060.40 D2030.60	22 66 83 22 13 63	Protective Walkways	Z1050.40 Z1050.25	01 56 29
Gray Water Tapestries	E2010.10	12 12 23	Ramps Roads	Z1050.25 Z1050.35	01 55 23
Taxes	Z7010.10	12 12 23	Runarounds	Z1050.35 Z1050.25	01 53 25
Taxes, Permits, Insurance and	Z7010 Z70		Scaffolding and Platforms	Z1050.25 Z1050.30	01 53 26
Bonds	210		Security Barriers	Z1050.30 Z1050.40	01 54 23
Telecommunications,	Z1050.10	01 51 33	Security Barriers Security Enclosures	Z1050.40 Z1050.40	01 56 36
Temporary	21030.10	01 31 33	Storm Water Pollution	Z1050.50	01 57 23
Telemanagement Software	D6020.40	27 34 16	Control	21000.00	01 07 20
Telemedicine Systems	D6060.30	27 52 16	Swing Staging	Z1050.30	01 54 26
Telephones	20000.00	27 02 10	Telecommunications	Z1050.10	01 51 33
Elevator	D6020.20	27 32 23	Tree and Plant Protection	Z1050.40	01 56 39
Ring-Down Emergency	D6020.20	27 32 26	Utilities	Z1050.10	01 51 00
Sets	D6020.20	27 32 13	Vehicular Access and	Z1050.35	01 55 00
Specialties	C1090.20	10 17 00	Parking		0.000
Telescopes	E1040.10	11 56 13	Water	Z1050.10	01 51 36
Telescoping Stands	E2010.70	12 66 00	Tennis Court		
Telescoping Vertical Lift		08 36 23	Fences and Gates	G205010	32 31 13.26
Doors			Surfacing	G205010	32 18 23.53
Exterior	B2050.30	08 36 23	Wind Breaker	G205010	32 31 13.29
Interior	C1030.50	08 36 23	Tensioned Fabric Structures	F1020.10	13 31 23
Television Systems, Master	D6030.10	27 41 33	Terminal Units	-	
Antenna			Air	D3050.50	23 36 00
Teller and Service Equipment	E1030.25	11 17 00	Outside Air	D3060.40	23 36 00
Teller Equipment Systems	E1030.25	11 17 13	Supply Air	D3060.10	23 36 00
-			Termite Control	G1070.90	31 31 16
			Soil Treatment	A9040	31 31 16

Terrazzo Flooring	KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Stair Finish   C2040.60   09 66 00   Tile   C2030.60   09 66 10   C2030.60   09 66 10   C2030.60   09 66 16   C2030.60   C2030.60	-					
Testing and Inspecting	_					
Testing and Inspecting   Allowances   Z1010,10   01 21 19   Agency Qualifications   Z1040,40   01 43 26   Services   Z1040,80   01 45 29   Testing, Adjusting, and						
Allowances		02030.00	03 00 10		03010.10	33 01 13
Agency Qualifications		71010 10	01 21 19		F3010.30	02 41 16 23
Services						
Testing Laboratories	- ·			<u> </u>		
Services						
Balancing				_	B3040.10	07 18 00
Balancing   Cooling System				<u> </u>	B3040	
Equipment, Roadway   G2010.40   34 41 16   Traffic Dors						01 55 26
Distribution Systems   D3050.90   23 05 93   Heating System   D3002.90   23 05 93   Venililation   D3060.90   23 05 93   Venililation   D3060.90   23 05 93   Exterior Gelling     09 95 60 0   Exterior Cellings   B3080.30   09 56 00   Exterior Soffitis   B3080.20   09 50 00	_	D3030.90	23 05 93	Equipment, Roadway	G2010.40	34 41 16
Ventilation		D3050.90	23 05 93			08 38 00
Exterior Bulkheads	Heating System	D3020.90	23 05 93	Exterior	B2050.40	08 38 00
Exterior Ceilings   B3080.30   09 56 00   Exterior Ceilings   B3080.10   09 56 00   Exterior Coffits   B3080.20   09 56 00   Parking Lot   G2020.40   10 14 53   Exterior Coffits   B3080.20   09 56 00   Parking Lot   G2020.40   10 14 53   Exterior Coffits   B3080.20   09 56 00   Parking Lot   G2020.40   10 14 53   G2010.40   G2	Ventilation	D3060.90	23 05 93	Interior	C1030.70	08 38 00
Exterior Cellings   B308.010   09 56 00   Exterior Soffitis   B308.020   09 56 00   Exterior Soffitis   B308.020   09 56 00   Roadway   G2010.40   10 14 53   Suspended Cellings   C1070.50   09 56 00   Traffic Signals, Roadway   G2010.40   34 41 13   Trafficial   Traffic Signals, Roadway   Traffic Signals, Roadway   G2010.40   34 41 13   Traffic Signals, Roadway   Traffic Signals, Roadway   G2010.40   34 41 13   Traffic Signals, Roadway   G2010.40   34 41 13   Traffic Signals, Roadway   Traffic Signals, Roadway   G2010.40   34 41 13   Traffic Signals, Roadway   Traffic Signals, Roadway   G2010.40   34 41 13   Traffic Praffic Signals, Roadway   G2010.40   34 41 13   Traffic Praffic Signals, Roadway   G2010.40   D26 36 00   Traffic Signals, Roadway   Traffic Praffic Pr	Textured Ceiling		09 56 00	Traffic Signage		10 14 53
Exterior Soffits   B3080,20   09 56 00   Suspended Ceillings   C1070.50   09 56 00   Traffic Signals, Roadway   G2010.40   34 41 13   Traffic Signals, Roadway   C1070.80   01 79 00   179 00   Transitros   C1070.80   01 79 00   C1070.80   01 79 00   C1070.80   01 79 00   C1070.80   C1	Exterior Bulkheads	B3080.30	09 56 00	Airfield	G2040.40	10 14 53
Transpart   Color	Exterior Ceilings	B3080.10	09 56 00	Parking Lot	G2020.40	10 14 53
Theater and Stage Equipment Theatrical Lighting         E1070.10         11 61 00         Training Transfer Switches         Z1070.80         0179 00           Lighting         D5040.50         26 55 61         Lighting Control         D5040.10         26 09 61         26 22 00           Therapeutic Pools         F1050.10         13 17 23         Transformers, Facility         D5080.70         26 43 00           Therape Equipment         E1040.20         11 79 00         Transformers, Facility         D5080.70         26 43 00           Thermal         Cooling Storage         D3030.50         23 71 00         Desoption Decontamination         G1050.20         02 53 00         Desoption Decontamination         G1050.20         02 53 00         Equipment         G4010.20         33 71 26           Thermal Storage         D3030.50         23 71 13         Transplanters         E1004.02         33 71 26           Heat Storage         D3030.50         23 71 13         Transplanters         E1004.02         33 71 83           Thermal Storage         Chilled-Water         D3030.50         23 71 13         Transplanters         E1004.02         33 71 83           Tile          0930.00         Transplanters         G2060.40         10 73 43           Tile Carpeting	Exterior Soffits	B3080.20	09 56 00	Roadway	G2010.40	10 14 53
Transfer Switches	Suspended Ceilings	C1070.50	09 56 00	Traffic Signals, Roadway	G2010.40	34 41 13
Lighting         D5040.50         26 55 61         Transformers, Facility         D5020.10         26 12 00           Lighting Control         D5040.10         26 99 61         Transferrers, Facility         D5020.10         26 12 00           Therapy Equipment         E1060.10         13 17 23         Transient Voltage Suppression         D5080.70         26 43 00           Thermal         Total Storage         D3030.50         23 71 00         Transission and Distribution         Equipment         G4010.20         33 71 26           Decontamination Heat Storage         D3020.30         23 71 13         Transplanting         G4010.20         33 71 83           Thermal Storage         D3030.50         23 71 16         Equipment         G4010.20         33 71 83           Thermal Storage         D3030.50         23 71 16         Equipment         G4010.20         33 71 83           Transplanting         G2080.80         32 96 00           Thermal Storage         D3030.50         23 71 16         Transplanting         G2080.80         32 96 00           Thermal Storage         D3030.50         23 71 16         Transplanting         G2080.80         32 96 00           Thermal Storage         D3030.50         23 71 1	Theater and Stage Equipment	E1070.10	11 61 00			01 79 00
Lighting Control   D5040.10   26 09 61   Therapeutic Pools	Theatrical				D5010.70	26 36 00
Therapeutic Pools				Transformers, Facility	D5020.10	
Therapy Equipment						
Transmission and Distribution   Equipment   Goding Storage   D3030.50   23 71 00   Decontamination   G1050.20   02 53 016   Equipment   G4010.20   33 71 26   Desoption Decontamination   G1050.20   02 53 016   Equipment   G4010.20   33 71 83   Transplanters   E1090.40   11 93 19   Transplanters   E1090.40   10 73 43   Transplanters   E1090.40   10 8 10   Transplanters   E1090.40   10 28 13   Transplanters   E1090.40   10 28 10   Transplanters   E1090.40   E1090.40				- · · · · · · · · · · · · · · · · · · ·	D5080.70	
Cooling Storage         D3030.50         23 71 00         Descritamination         G1050.20         02 53 00         Equipment         G4010.20         33 71 26           Desoption Decontamination         G1050.20         02 53 16         Specialties, Site Electrical         G4010.20         33 71 26           Desoption Decontamination         G1050.20         02 53 16         Specialties, Site Electrical         G4010.20         33 71 26           Desoption Decontamination         G1050.20         02 53 16         Specialties, Site Electrical         G4010.20         33 71 26           Storage         D3030.50         23 71 16         Inample Transplanting         G2080.80         32 96 00           Transplanting         G2080.80         32 96 00         Transplanting         G2080.80         32 96 00           Transplanting         G2080.80         32 96 00         Transplanting         G2080.80         32 96 00           Title          09 300.00         Hazardous Materials         Transportation and Disposal of F2010.10         02 81 00           Title         Carpeting         C2030.75         09 68 13         Trash and Litter Receptors, G2060.25         12 93 23           Time Carpeting         C2030.75         09 68 13         Trash and Litter Receptors, G2080.30         32 93 43 <td></td> <td>E1040.20</td> <td>11 79 00</td> <td></td> <td>B2010.40</td> <td>08 45 00</td>		E1040.20	11 79 00		B2010.40	08 45 00
Decontamination   G1050.20   02 53 00   Desoption Decontamination   G1050.20   02 53 16   Specialties, Site Electrical   G4010.20   33 71 26   Specialties, Site Electrical   G4010.20   31 71 80   Specialties, Site Electrical   G4010.20   33 71 26   Specialties, Site Electrical   G4010.20   31 71 80   Specialties, Site Electrical   G4010.20   31 71 80   Specialties, Site Electrical   G4010.20   32 74 21 60   Specialties, Site Electrical   G4010.20   32 74 21 60   Specialties   G2080.80   32 94 80   Specialties   G2080.40   37 43   Specialties   G2080.40   Specialties   G2080.						
Desoption Decontamination   Heat Storage   D3020.30   23 71 13   Transplanters   E1090.40   11 93 19   Transplanters   E1090.40   12 93 19   Transplanters   E1090.40   10 28 13   Transplanters   E1090.40   12 8 13   Transplanters   E1090.40   13 9 19   Transplanters   E1090.40   13 9 19   Transplanters   E1090.40   11 93 19   Transplanters   E1090.40   11 93 19   Transplanters   E1090.40						
Heat Storage   D3020.30   23 71 13   Transplanters   E1090.40   11 93 19						
Thermal Storage         Transplanting         G2080.80         32 96 00           Chilled-Water         D3030.50         23 71 18         Transportation           Heat         D3020.30         23 71 18         Information Display Systems         D6030.50         27 42 16           Lice         D3030.50         23 71 19         Stop Shelters         G2060.40         10 73 43           Tile          09 30 00         Hazardous Materials         F2010.10         02 81 00           Stair Finish         C2040.20         09 30 00         Trash and Litter Receptors,         G2060.25         12 93 23           Wall Finish         C2010.10         09 30 00         Site         Trash Chutes         D1050.60         14 91 82           Timber         Treated Wood Foundations         A1010.10         06 14 00         14 91 82           Timber          08 43 11         Tree and Shrub Removal and Trimming         G2080.50         32 93 43           Cribwork         A9030.40         31 53 13         Trees         G2080.50         32 94 43           Retaining Walls         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Time-Changing Equipment						
Chilled-Water         D3030.50         23 71 16         Transportation           Heat         D3020.30         23 71 13         Information Display Systems         D6030.50         27 42 16           Ice         D3030.50         23 71 19         Stop Shelters         G2060.40         10 73 43           Tile          09 30 00         Transportation and Disposal of Hazardous Materials         F2010.10         02 81 00           Stair Finish         C2040.20         09 30 00         Hazardous Materials         G2060.25         12 93 23           Wall Finish         C2010.10         09 30 00         Site         Trash and Litter Receptors,         G2060.25         12 93 23           Timber         C2030.75         09 68 13         Trash Chutes         D1050.60         14 91 82           Timber         Treated Wood Foundations         A1010.10         06 14 00           Cribwork         A9030.40         31 53 13         Trea and Shrub Removal and Trimming         G1010.30         31 13 00           Framed Storefronts:         See          08 43 11         Trees         G2080.50         32 93 43           Storefronts         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Time-Changing Equ		D3020.30	23 /1 13			
Heat		D0000 50	00.74.40		G2080.80	32 96 00
Ice         D3030.50         23 71 19         Stop Shelters         G2060.40         10 73 43           Tile          09 30 00         Transportation and Disposal of Hazardous Materials         F2010.10         02 81 00           Stair Finish         C2040.20         09 30 00         Hazardous Materials         F3060.25         12 93 23           Wall Finish         C2010.10         09 30 00         Trash and Litter Receptors, Site         G2060.25         12 93 23           Tile Carpeting         C2030.75         09 68 13         Trash Chutes         D1050.60         14 91 82           Timber         Cofferdams         A9030.20         31 52 16         Treated Wood Foundations         A1010.10         06 14 00           Cribwork         A9030.40         31 53 13         Tree and Shrub Removal and         G1010.30         31 13 00           Framed Storefronts:         See          08 43 11         Trees         G2080.50         32 93 43           Storefronts         Retaining Walls         G2060.60         32 32 29         Trash Chutes         G2080.50         32 94 43           Tire-Changing Equipment         E1010.10         11 11 23         Trench Drains         D2030.30         22 14 26.19           Tiollet         Toilet					D6020 F0	27 42 46
Tile          09 30 00         Transportation and Disposal of Hazardous Materials         F2010.10         02 81 00           Stair Finish         C2030.20         09 30 00         Hazardous Materials         C2060.25         12 93 23           Wall Finish         C2010.10         09 30 00         Site         Trash and Litter Receptors,         G2060.25         12 93 23           Wall Finish         C2030.75         09 68 13         Trash Chutes         D1050.60         14 91 82           Timber         Trash Chutes         D1050.60         14 91 82         Trash Chutes         D1050.60         14 91 82           Timber         Trash Chutes         D1050.60         14 91 82         Trash Chutes         D1050.60         14 91 82           Timber         Treated Wood Foundations         A1010.10         06 14 00         Tree and Shrub Removal and         G1010.30         31 13 00           Cribwork         A9030.40         31 53 13         Trees         G2080.30         32 93 43           Storefronts         Grates         G2080.50         32 94 43           Retaining Walls         G2060.60         32 32 29         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Flooring   C2030.20   O9 30 00   Stair Finish   C2040.20   O9 30 00   Wall Finish   C2010.10   O9 30 00   Site   Trash and Litter Receptors,   G2060.25   12 93 23				•		
Stair Finish         C2040.20         09 30 00         Trash and Litter Receptors,         G2060.25         12 93 23           Wall Finish         C2010.10         09 30 00         Site           Tile Carpeting         C2030.75         09 68 13         Trash Chutes         D1050.60         14 91 82           Timber         Treated Wood Foundations         A1010.10         06 14 00           Cofferdams         A9030.20         31 52 16         Tree and Shrub Removal and         G1010.30         31 13 00           Cribwork         A9030.40         31 53 13         Trimming         Trees         G2080.30         32 93 43           Framed Storefronts:         See          08 43 11         Trees         G2080.50         32 94 43           Retaining Walls         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Tire-Changing Equipment         E1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Toilet         Accessories         C1090.40         10 28 13         Trenchless Utility Installations         G3090.10         33 05 23           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses         Floor         B1010.10 <td></td> <td></td> <td></td> <td></td> <td>F2010.10</td> <td>02 81 00</td>					F2010.10	02 81 00
Wall Finish         C2010.10         09 30 00         Site           Tile Carpeting         C2030.75         09 68 13         Trash Chutes         D1050.60         14 91 82           Timber         Treated Wood Foundations         A1010.10         06 14 00           Cofferdams         A9030.20         31 52 16         Tree and Shrub Removal and         G1010.30         31 13 00           Cribwork         A9030.40         31 53 13         Trimming         Trees         G2080.30         32 93 43           Framed Storefronts: See          08 43 11         Trees         G2080.50         32 94 43           Retaining Walls         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Tire-Changing Equipment         E1010.10         11 11 23         Trench Drains         D2030.30         22 14 26.19           Toilet         Accessories         C1090.40         10 28 13         Trenchless Utility Installations         G3090.10         33 05 23           Toilet, Bath, and Laundry         C1090.25         10 21 13         Liquid and Gas Site Utilities         Trusses           Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13         Roof         B	_				G2060.25	12 03 23
Tille Carpeting         C2030.75         09 68 13         Trash Chutes         D1050.60         14 91 82           Timber         Cofferdams         A9030.20         31 52 16         Tree and Shrub Removal and         G1010.30         31 13 00           Cribwork         A9030.40         31 53 13         Trime and Shrub Removal and         G1010.30         31 13 00           Framed Storefronts:         See          08 43 11         Trees         G2080.30         32 93 43           Storefronts         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Time Allowances         Z1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23         Trench Drains         D2030.30         22 14 26.19           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Compartments         C1090.40         10 28 13         Trenchless Utility Installations         G3090.10         33 05 23           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13 </td <td></td> <td></td> <td></td> <td>•</td> <td>02000.20</td> <td>12 33 23</td>				•	02000.20	12 33 23
Timber         A9030.20         31 52 16         Treated Wood Foundations         A1010.10         06 14 00           Cofferdams         A9030.20         31 52 16         Tree and Shrub Removal and         G1010.30         31 13 00           Cribwork         A9030.40         31 53 13         Trime and Shrub Removal and         G1010.30         31 13 00           Framed Storefronts:         See          08 43 11         Trees         G2080.30         32 93 43           Storefronts         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Time Allowances         Z1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23         Site Storm Drainage         G3030.40         33 44 16           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Compartments         C1090.25         10 21 13         Liquid and Gas Site Utilities           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Floor         B1010.10            Roof         B1020.10            TTY equipment         D6020.20         27 32 36					D1050 60	14 91 82
Cofferdams         A9030.20         31 52 16         Tree and Shrub Removal and Trimming         G1010.30         31 13 00           Cribwork         A9030.40         31 53 13         Triee and Shrub Removal and Trimming         G1010.30         31 13 00           Framed Storefronts:         See          08 43 11         Trees         G2080.30         32 93 43           Storefronts         G2060.60         32 32 29         Grates         G2080.50         32 94 46           Retaining Walls         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Time Allowances         Z1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23         Site Storm Drainage         G3030.40         33 44 16           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Compartments         C1090.40         10 28 13         Liquid and Gas Site Utilities           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Floor         B1010.10            Toll Fraud Equipment and         D6020.40         27 34 13         Roof         B1020.10		02000.70	00 00 10			
Cribwork         A9030.40         31 53 13         Trimming           Framed Storefronts: See          08 43 11         Trees         G2080.30         32 93 43           Storefronts         G2060.60         32 32 29         Grids         G2080.50         32 94 43           Retaining Walls         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Time Allowances         Z1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23         Site Storm Drainage         G3030.40         33 44 16           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Compartments         C1090.40         10 28 13         Liquid and Gas Site Utilities           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Accessories         Floor         B1010.10            Toll Fraud Equipment and         D6020.40         27 34 13         Roof         B1020.10            Software         Tub and Shower Doors         C1090.25         10 28 19		A9030.20	31 52 16			
Framed Storefronts:         See          08 43 11         Trees         G2080.30         32 93 43           Storefronts         Retaining Walls         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Time Allowances         Z1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23         Site Storm Drainage         G3030.40         33 44 16           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Compartments         C1090.40         10 28 13         Liquid and Gas Site Utilities           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Accessories         Floor         B1010.10            Toll Fraud Equipment and         D6020.40         27 34 13         Roof         B1020.10            Software         Type quipment         D6020.20         27 32 36         Tub and Shower Doors         C1090.25         10 28 19					01010.00	01.10.00
Storefronts         Geating Walls         G2060.60         32 32 29         Grates         G2080.50         32 94 43           Time Allowances         Z1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23         Site Storm Drainage         G3030.40         33 44 16           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Compartments         C1090.40         10 28 13         Trenchless Utility Installations         G3090.10         33 05 23           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Floor         B1010.10            Toll Fraud Equipment and         D6020.40         27 34 13         Roof         B1020.10            Software         Try equipment         D6020.20         27 32 36           Tub and Shower Doors         C1090.25         10 28 19					G2080.30	32 93 43
Retaining Walls         G2060.60         32 32 29         Grids         G2080.50         32 94 46           Time Allowances         Z1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23         Site Storm Drainage         G3030.40         33 44 16           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Compartments         C1090.40         10 28 13         Liquid and Gas Site Utilities           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13         Roof         B1020.10            Tyb and Shower Doors         C1090.25         10 28 19						
Time Allowances         Z1010.10         01 21 43         Trench Drains         D2030.30         22 14 26.19           Tire-Changing Equipment         E1010.10         11 11 23         Site Storm Drainage         G3030.40         33 44 16           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Accessories         C1090.40         10 28 13         Trenchless Utility Installations         G3090.10         33 05 23           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13         Roof         B1020.10            TTY equipment Doors         D6020.20         27 32 36         Tub and Shower Doors         C1090.25         10 28 19	Retaining Walls	G2060.60	32 32 29			
Tire-Changing Equipment         E1010.10         11 11 23         Site Storm Drainage         G3030.40         33 44 16           Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Accessories         C1090.40         10 28 13         Trenchless Utility Installations         G3090.10         33 05 23           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13         Roof         B1020.10            TTY equipment Tub and Shower Doors         C1090.25         10 28 19				Trench Drains		
Toilet         Trenching and Backfilling, Site         G1070.20         31 23 33           Accessories         C1090.40         10 28 13         Trenchless Utility Installations         G3090.10         33 05 23           Compartments         C1090.25         10 21 13         Liquid and Gas Site Utilities           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Accessories         Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13         Roof         B1020.10            TTY equipment Tub and Shower Doors         C1090.25         10 28 19	Tire-Changing Equipment	E1010.10	11 11 23			33 44 16
Compartments         C1090.25         10 21 13         Liquid and Gas Site Utilities           Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Accessories         Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13         Roof         B1020.10            TTY equipment Tub and Shower Doors         C1090.25         10 28 19				Trenching and Backfilling, Site	G1070.20	31 23 33
Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Accessories         Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13         Roof         B1020.10            TTY equipment Tub and Shower Doors         D6020.20         27 32 36         Tub and Shower Doors         C1090.25         10 28 19	Accessories	C1090.40	10 28 13	Trenchless Utility Installations	G3090.10	33 05 23
Toilet, Bath, and Laundry         C1090.40         10 28 00         Trusses           Accessories         Floor         B1010.10            Toll Fraud Equipment and Software         D6020.40         27 34 13         Roof         B1020.10            TTY equipment Tub and Shower Doors         D6020.20         27 32 36         Tub and Shower Doors         C1090.25         10 28 19	Compartments		10 21 13	_		
Toll Fraud Equipment and         D6020.40         27 34 13         Roof         B1020.10            Software         TTY equipment         D6020.20         27 32 36           Tub and Shower Doors         C1090.25         10 28 19		C1090.40	10 28 00	-		
Software         TTY equipment         D6020.20         27 32 36           Tub and Shower Doors         C1090.25         10 28 19				Floor	B1010.10	
Tub and Shower Doors C1090.25 10 28 19	Toll Fraud Equipment and	D6020.40	27 34 13	Roof	B1020.10	
	Software				D6020.20	27 32 36
Tubs and Pools F1050.10 13 17 00				Tub and Shower Doors	C1090.25	10 28 19
				Tubs and Pools	F1050.10	13 17 00

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Tunnel Construction	OI HOMBER	IIII ITOINBER	Unit Pavers, Horizontal	B3040.50	32 14 00
Pedestrian	G9010.20	31 74 00	Waterproofing	D3040.50	32 14 00
Related Activities	G9010.20 G9010.90	31 74 00	Unit Prices	Z1010.20	01 22 00
Service	G9010.90 G9010.40	31 74 00	Measurement	Z1010.20 Z1010.20	01 22 13
Vehicular	G9010.10	31 74 00	Method of Payment	3010.50	00 52 43
Tunnel Grouting		31 73 00	Welfied of Fayment	0010.00	00 52 46
Pedestrian	G9010.20	31 73 00			00 72 43
Service	G9010.40	31 73 00			00 72 46
Vehicular	G9010.10	31 73 00	Payment	Z1010.20	01 22 16
Tunnel Support Systems		31 72 00	Unit Skylights	B3060.10	08 62 00
Pedestrian	G9010.20	31 72 00	Unit Ventilators		23 82 23
Service	G9010.40	31 72 00	Cooling	D3030.70	23 82 23
Vehicular	G9010.10	31 72 00	Heating	D3020.70	23 82 23
Tunnels	G9010	31 70 00	Unitary Heat Pumps	D3030.70	
Pedestrian	G9010.10		Urinals	D2010.60	
Service	G9010.40		Commercial	D2010.60	22 42 13
Vehicular	G9010.10		Residential	D2010.60	22 41 13
Turf and Grasses	G2080.20	32 92 00	Security	D2010.60	22 46 13
Turntables	D1030.30	14 70 00	Utilities		33 00 00
11			Grounding	G4010.70	33 79 19
U			Temporary	Z1050.10	01 51 00
UHF/VHF Transmitter and	G5010.50	33 83 23	Utility		
Receivers			Demolition	G1020.10	
Underground	0.4040.00	00.74.40	Doors, Exterior	B2050.20	08 10 00
Ducts and Manholes, Site	G4010.20	33 71 19	Relocation	G1030.10	
Electrical	05040.40	00.04.00	Room Casework	E2010.30	12 35 33
Ducts, Manholes, and	G5010.10	33 81 26	Septic Tanks	G3020.40	33 36 00
Handholes, Communications	G1050.60	02 65 00	Structures, Liquid and Gas Site Utilities	G3090.10	33 05 16
Storage Tank Removal Underlayment, Flooring	C2030.90	02 05 00	Substation Grounding	G4010.70	33 79 23
Underpinning	A1020.50	31 48 00	Towers, Site Electrical	G4010.70 G4010.20	33 71 13
Underslab Drainage	A6010.20	33 46 19	Utility Identification	G4010.20	33 7 1 13
Underwater Lighting	D5040.50	26 55 29	Electrical Service and	D5020.90	26 05 46
Unforeseen Subsurface	2080.40		Distribution	20020.00	20 00 10
Conditions, Budget			Liquid and Gas Site Utilities	G3090.10	03 05 26
Unframed Mirrors	C1090.90	08 83 00	Site Electrical	G4010.20	33 71 16
Uninterruptible Power Systems	D5010.10	26 32 33	Utility Poles		
Unit Heaters	D3020.70	23 82 39	Communications	D6090.10	27 05 46
Unit Kitchens	E1030.55	11 26 00	Communications, Site	G5010.10	33 81 19
Unit Masonry		04 20 00			
Columns Supporting Floors	B1010.10	04 20 00	V		
Columns Supporting Roofs	B1020.10	04 20 00	Vacuum		
Equipment Screens	B2010.60	04 20 00	Cleaning Systems	E1030.40	11 24 19
Exterior Balcony Walls	B2080.50	04 20 00	Equipment	D2060.20	22 62 19
Exterior Wall			Piping	D2060.20	22 62 13
Construction	B2010.20	04 20 00	Systems, Healthcare	D2060.20	22 62 00
Panels	B2010.40	04 25 00	Systems, Laboratory	D2060.20	22 62 00
Veneer	B2010.10	04 20 00	Valance	<b></b>	23 82 13
Foundation Walls	A1010.10	04 20 00	Cooling Units	D3030.70	23 82 13
Interior Partitions	C1010.10	04 20 00	Heating Units	D3020.70	23 82 13
Parapets	B2010.50	04 20 00	Valuable Material Storage	E1040.60	11 18 23
Retaining Walls	G2060.60	32 32 19	Value Analysis	Z1010.40	01 24 00
Subgrade Enclosure	A2010.10	04 20 00	Value Engineering	Z1010.40	01 24 13
Unit Pavement	G2020 10	32 14 00	Valves Air-Admittance	D2020 20	22 12 10 26
Parking Lot Pedestrian	G2020.10 G2030.10	32 14 00 32 14 00	Air-Admittance Backwater	D2020.30 D2020.30	22 13 19.36 22 13 19.33
Roadway	G2030.10 G2010.10	32 14 00	Building Support Plumbing	D2020.30 D2030.90	22 05 23
. coamay	02010.10	32 1 <del>4</del> 00	Domestic Water	D2030.90 D2010.90	22 05 23
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KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
General Service	D2050	22 15 16	Vibration and Seismic		
Compressed-Air			Controls		
Process Support Plumbing	D2060.90	22 05 23	Communications	D6090.10	27 05 48
Sanitary Drainage	D2020.90	22 05 23	Cooling System	D3030.90	23 05 48
Vapor Retarders		07 26 00	Distribution Systems	D3050.90	23 05 48
Exterior Wall	B2010.80	07 26 00	Domestic Water	D2010.90	22 05 48
Floor Construction	B1010.90	07 26 00	Electrical Service and	D5020.90	26 05 48
Horizontal Waterproofing	B3040.90	07 26 00	Distribution		
Roof Construction	B1020.90	07 26 00	Electronic Safety and	D7090.10	28 05 48
Roofing	B3010.90	07 26 00	Security		
Slab-On-Grade	A4090.20	07 26 00	Facility Power Generation	D5010.90	26 05 48
Subgrade Enclosure Wall	A2010.90	07 26 00	Fire Suppression	D4010.90	21 05 48
Vaults	F1010.50	13 27 00	General Purpose Power	D5030.90	26 05 48
Doors, Interior	C1030.70	08 34 59	Heating System	D3020.90	23 05 48
Equipment	E1030.20	11 16 00	Integrated Automation	D8010.90	27 05 48
Ventilators	E1030.20	11 16 23	Lighting	D5040.90	26 05 48
Vaults, Pedestal, and	G5010.10	33 81 29	Miscellaneous Electrical	D5080.90	26 05 48
Enclosures, Communications			Process Support Plumbing	D2060.90	22 05 48
Vegetated	04070 45	04.00.40	Sanitary Drainage	D2020.90	22 05 48
Rock Slope Stabilization	G1070.45	31 33 43	Ventilation	D3060.90	23 05 48
Low-Slope Roofing	B3010.50	07 55 63	Video Monitoring and	Z1020.30	01 32 36
Vegetation Control	G1070.90	31 31 19	Documentation	D7000 40	00.00.00
Soil Treatment	A9040	31 31 19	Video Surveillance	D7030.10	28 23 00
Vehicle and Pedestrian	E1010	11 10 00	Control and Management	D7030.10	28 23 13
Equipment Vehicle			Systems Manitoring and Supervisory	D7020 40	20 22 46
	C2010 10	24 74 42	Monitoring and Supervisory Interfaces	D7030.10	28 23 16
Barriers Delineators	G2010.40 G2010.40	34 71 13 34 71 19	Remote Devices and	D7030.10	28 23 29
Fare Collection Equipment,	G2010.40 G2010.80	34 71 19	Sensors	D7030.10	20 23 29
Roadway	G2010.00	34 32 20	Remote Positioning	D7030.10	28 23 26
Fare Collection, Roadway	G2010.80	34 52 00	Equipment	D7030.10	20 23 20
Fare Gates, Roadway	G2010.80	34 52 33	Systems Infrastructure	D7030.10	28 23 23
Lifts	D1010.20	14 45 00	Virtual	D7 030.10	20 23 23
Lubrication Equipment	E1010.10	11 11 19	Private Network Software	D6010.50	27 25 37
Servicing Equipment	E1010.10	11 11 00	Reality Equipment	D6010.30	27 24 26
Ticketing Equipment,	G2010.80	34 52 16	Virus Protection Software	D6010.50	27 25 13
Roadway			Visual Conference Units	C1090.20	10 11 36
Turntables	D1030.30	14 71 11	Visual Display		
Washing Equipment	E1010.10	11 11 26	Fabrics	C1090.20	10 11 46
Vehicular			Rails	C1090.20	10 11 39
Bridges	G2060.70	32 34 23	Units	C1090.20	10 11 00
Tunnels	G9010.10		Wall Panels	C1090.20	10 11 43
Vending Equipment	E1030.10	11 21 23	Vitrification Decontamination	G1050.20	02 53 19
Ventilation	D3060		Vocational Shop Equipment	E1040.10	11 57 00
Supplementary Components	D3060.90		Voice Communications	D6020	27 30 00
Vents and Hatches	B3060.50		Messaging	D6020.30	27 33 00
Vents			Switching and Routing	D6020.10	27 31 00
Exterior	B2070.50	08 95 00	Equipment		
Relief	B3020.10	07 72 23	Terminal Equipment	D6020.20	27 32 00
Ridge	B3020.10	07 72 26	Voice Mail and Auto Attendant	D6020.30	27 33 16
Smoke	B3060.50	07 72 36	Void Forms, Standard	A1010.90	03 11 00
Soffit	B3080.20	08 95 13	Foundation	B=6.45 ==	00.05.55
Vertical	D. (C.)		Voltage Regulators	D5010.60	26 35 53
Conveying	D1010		W		
Enclosures, Exterior	B20				
Planting Nets and Grids	G2080.50		Waiting Area Seating	F2040 70	
			Fixed	E2010.70	
			Portable	E2050.60	

KEY WORD	UF NUMBER	MF NUMBER	KEY WORD	UF NUMBER	MF NUMBER
Walk-In			Water Distribution		33 12 00
Coolers	E1030.80	11 41 23	Equipment		
Freezers	E1030.80	11 41 26	Site Domestic Water	G3010.10	33 12 00
Walkways			Site Fire Protection	G3010.30	33 12 00
Coverings	G2060.40	10 73 26	Site Irrigation	G3010.50	33 12 00
Metal	B1080.70	05 51 36	Water Distribution Piping		
Roof	B3020.10	07 72 46	Site Domestic Water	G3010.10	33 11 00
Wall			Site Fire Protection	G3010.30	33 11 19
Carpeting	C2010.35	09 73 00	Site Irrigation	G3010.50	33 11 00
Coverings	C2010.30	09 72 00	Water Distribution Ponds, Site	G3010.10	33 47 19.13
Decorations, Fixed	E2010.10	12 12 00	Domestic Water		
Foundations	A1010.10		Water Distribution Valves		33 12 16
Hangings	E2010.10	12 12 26	Site Domestic Water	G3010.10	33 12 16
Paneling	C2010.20		Site Fire Protection	G3010.30	33 12 16
Specialties, Exterior	B2080.90	07 77 00	Site Irrigation	G3010.50	33 12 16
Veneer, Exterior	B2010.10		Water Distribution, Site	G3010.50	
Wall and Door Protection	C1090.35	10 26 00	Irrigation	E4050.00	
Wall Finishes	C2010	09 70 00	Water Features, Interior	F1050.30	
Supplementary Components	C2010.90		Water Intrusion Detection and	D7050.60	23 36 00
Wall Panels Exterior Bulkheads	 D2000 20	07 42 00	Alarm		22.42.22
	B3080.30	07 42 00	Water Metering Site Domestic Water	 C2040 40	33 12 33
Exterior Ceilings Exterior Walls	B3080.10	07 42 00		G3010.10	33 12 33
	B2010.10	07 42 00	Site Fire Protection	G3010.30	33 12 33
Wall-Mounted Flagpoles Walls	G2060.35	10 75 23	Site Irrigation	G3010.50	33 12 33
	A2010		Water Mitigation Water Ponds	A60	
Subgrade Enclosures Exterior	B2010		Covers, Fire Protection	G3010.30	33 47 16.13
Exterior Balcony	B2010 B2080.50		Fire Protection	G3010.30 G3010.30	33 47 19.33
Rammed Earth	F1020.65	13 35 13	Liners, Fire Protection	G3010.30 G3010.30	33 47 13.13
Slurry	A9030.70	31 56 00	Water Ponds and Reservoirs,	G3010.50	33 47 19
Wardrobe and Closet	C1090.70	10 57 00	Site Irrigation	G3010.30	33 47 19
Specialties	01030.70	10 07 00	Water Pumping Stations		33 12 23
Warranties, Closeout Submittal	Z1070.70	01 78 36	Site Domestic Water	G3010.10	33 12 23
Wash Fountains	D2010.60	22 42 33	Site Fire Protection	G3010.30	33 12 23
Washers and Extractors,	E1030.35	11 23 26	Water Pumping Stations, Site	G3010.50	33 12 23
Commercial			Irrigation		
Waste			Water Remediation	G1050.80	02 70 00
Balers, Facility	E1090.10	11 82 36	Water Repellents, Exterior Wall	B2010.10	07 19 00
Compactors and Destructors	E1090.10	11 82 26	Veneer		
Containment	G1050.40	02 56 13	Water Service Connections,		33 12 13
Management	Z1070.30	01 74 00	Site		
Construction	Z1070.30	01 74 19	Domestic Water	G3010.10	33 12 13
Shredders, Facility	E1090.10	11 82 33	Fire Protection	G3010.30	33 12 13
Waste Anesthesia-Gas Piping	D2060.20	22 62 23	Irrigation	G3010.50	33 12 13
Water Chillers	D3030.10	23 64 00	Water Slides	F1050.50	13 14 13
Water Closets	D2010.60		Water Spray Fixed Systems	D4010.10	21 13 29
Commercial	D2010.60	22 42 13	Water Storage Tanks, Site		33 16 00
Healthcare	D2010.60	22 43 13	Domestic Water	G3010.10	33 16 00
Residential	D2010.60	22 41 13	Fire Protection	G3010.30	33 16 00
Security	D2010.60	22 46 13	Irrigation	G3010.50	33 16 00
Water Coolers, Remote	D2010.60	22 47 23	Water Storage,	D4010.10	21 40 00
Water Decontamination	G1050.80	02 72 00	Fire-Suppression		00.04.00
Water Detection and Alarm	D7050.60	28 35 13	Water Supply Well, Site		33 21 00
Control, GUI and Logic			Domestic Water	G3010.10	33 21 00
Systems	D7050 00	20.25.22	Fire Protection	G3010.30	33 21 00
Water Detection Sensors	D7050.60	28 35 33	Water Treatment	C2060 40	22 52 40
			Exterior Fountain Hydronic Systems	G2060.10 D3050.10	22 52 19 23 25 00
			Trydronic Gysteins	D3030.10	20 20 00

KEY WORD	LIE NUMBER	ME NUMBER	Kry Word	UE Number	ME Number
KEY WORD		MF NUMBER	KEY WORD		MF NUMBER
Interior Fountain	F1050.20	22 52 19	Wire Rope Stair Railings	B1080.50	05 15 00
Pool	F1050.10	22 51 19	Wireless	05040.50	00.00.00
Steam Systems	D3050.30	23 25 19	Communications Distribution	G5010.50	33 83 00
Water Utilities	G3010	33 10 00	Transceivers	D6020.20	27 32 16
Water Utility Service, Site  Domestic Water	G3010.10		Wiring Branch Wiring	D5030.10	26 05 13 26 05 19
Fire Protection	G3010.10 G3010.30		Electrical Distribution	D5030.10 D5020.30	26 05 19
Irrigation	G3010.50 G3010.50		Facility Grounding	D5020.30 D5020.70	26 05 13
Water Wells, Site Irrigation	G3010.50 G3010.50	33 21 16	Lighting Branch Wiring	D5020.70	26 05 19
Water, Temporary	Z1050.10	01 51 36	Site Electrical	G4010.20	33 71 39
Water-Based Fire-Suppression	D4010.10	21 10 00	One Electrical	04010.20	33 71 49
Waterproofing		07 10 00	Wiring Connectors		26 05 83
Horizontal	B3040.30	07 10 00	Electrical Service and	D5020.90	26 05 83
Slab-On-Grade	A4090.30	07 10 00	Distribution		
Subgrade Enclosure Wall	A2010.90	07 10 00	Facility Power Generation	D5010.90	26 05 83
Water-Source Heat Pumps	D3030.70	23 81 46	General Purpose Power	D5030.90	26 05 83
Wave Generating Equipment	F1050.50	13 14 16	Lighting	D5040.90	26 05 83
Wear Surfaces, Horizontal	B3040.50		Miscellaneous Electrical	D5080.90	26 05 83
Waterproofing			Wiring Devices		26 27 26
Weather Barrier, Exterior Wall	B2010.80	07 25 00	Branch Wiring	D5030.50	26 27 26
Weather Observation	G2040.80	34 43 23	Lighting Branch Wiring	D5040.20	26 27 26
Equipment			Wood		
Weathervanes	B3020.30	10 74 33	Athletic Flooring	C2030.80	09 64 66
Web Development	D6010.60	27 26 13	Balcony Decking	B1010.30	06 15 00
Weighing and Wrapping	E1030.10	11 21 43	Canopy Decking	B1020.30	06 15 00
Equipment			Columns Supporting Floors	B1010.10	06 11 00
Welded Wire Fences and	G2060.20	32 31 16	Columns Supporting Roofs	B1020.10	06 11 00
Gates			Doors: See Exterior and		08 14 00
Welding			Interior Doors		
Benches	E2050.30	12 57 13	Exterior Fixed Grilles and	B2080.10	06 49 00
Screens	E2050.30	12 57 16	Screens	00000 00	00.04.00
Wet-Chemical Fire-	D4010.50	21 23 00	Fences and Gates	G2060.20	32 31 29
Extinguishing Systems Wetlands	G1070.70	32 70 00	Flooring Mezzanine Decking	C2030.45 B1010.40	09 64 00 06 15 00
Restoration	G1070.70 G1070.70	32 70 00	Wood Floor	D1010.40	00 13 00
Wet-Pipe Sprinkler Systems	D4010.10	21 13 13	Decking	B1010.20	06 15 00
Wheelchair Lifts	D4010.10 D1010.20	14 42 00	Girders and Beams	B1010.20	06 11 00
Whirlpool Tubs	F1050.10	13 17 33	Joists	B1010.10	06 11 00
Wind Energy Equipment	D5010.10	26 32 23	Trusses	B1010.10	06 11 00
Wind Instrumentation	F1080.40	13 53 23	Wood Framed		06 11 00
Window Treatments	E2010.20	12 20 00	Balcony Construction	B1010.30	06 11 00
Operating Hardware	E2010.20	12 25 00	Canopy Construction	B1020.30	06 11 00
Window Walls, Exterior	B2020.30		Exterior Balcony Walls	B2080.50	06 11 00
Window Washing			Exterior Walls	B2010.20	06 11 00
Scaffolding	D1080.40	14 84 13	Interior Partitions	C1010.10	06 11 00
Systems	E1030.40	11 24 23	Mezzanine Construction	B1010.40	06 11 00
Window Wells	B2080.90	10 74 46	Parapets	B2010.50	06 11 00
Windows		08 50 00	Ramps	B1010.50	06 11 00
Blinds	E2010.20	12 21 00	Wood Furring		06 10 00
Exterior	B2020		Ceilings	C2050.90	06 10 00
Interior	C1020		Flooring	C2030.90	06 10 00
Screens	B2020.10	08 51 66	Wall Finish	C2010.90	06 10 00
		08 52 66	Wood Paneling		06 42 00
		08 53 66	Ceilings	C2050.20	06 42 00
Chadaa	E0040.00	08 54 66	Walls	C2010.20	06 42 00
Shades	E2010.20	12 24 00	Wood Railings	 D2000 F0	06 43 00
Wire Meab Portitions	G2060.20	32 31 26	Exterior Balcony	B2080.50	06 43 16
Wire Mesh Partitions	C1010.10	10 22 13	Interior	C1090.10	06 43 16

KEY WORD	UF NUMBER	MF NUMBER		KEY WORD	KEY WORD UF NUMBER M
Wood Ramp Decking	B1010.50	06 15 00	ĺ		
Wood Roof	2.0.0.00	00.000			
Decking	B1020.20	06 15 00			
Girders and Beams	B1020.10	06 11 00	ı		
Joists	B1020.10	06 11 00			
Trusses	B1020.10	06 11 00			
Wood Stairs	B1080.10	06 43 00			
Finish	C2040.45	09 64 00	ı		
Railings	B1080.50	06 43 00			
Wood Unit Pavement: See Unit		32 14 26			
Pavement					
Wood Windows: See Exterior		08 52 00			
and Interior Windows					
Wood-I-Joists		06 17 33			
Floor Joists	B1010.10	06 17 33			
Roof Joists	B1020.10	06 17 33			
Work Change Directives	Z1010.60	01 26 49			
Work Restrictions	1010.50	01 14 00			
X-Y-Z					
X-Ray Protection	F1030.50				
Zoned Fire-Alarm Systems	D7050.10	28 31 12			
Zoning					
Permits	2020.10	01 35 63			
Requirements	1030.10	01 41 00			



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