

TEHNIČKE SPECIFIKACIJE RADOVA (Posebni uslovi za izvođenje)

Kod pravilno organizovane projektne dokumentacije, Tehničke specifikacije treba da predhode predmeru i predračunu radova. Pritom, mora postojati jasna veza između ova tri dela projekta, tj. nomenklatura koja je korišćena kod izrade tehničkih specifikacija treba da se pojavi ikod predmerskih odnosno predračunskih pozicija.

Postoji više načina organizacije pisanja tehničkih specifikacija – pritom sistem obeležavanja je veoma bitan jer se iz upotrebljene standardne šifre može odmah indentifikovati o kojoj vrsti rada se radi. Svaka pozicija, opisana u tehničkim specifikacijama mora da ima jednoznačno definisane sledeće elemente:

1. Rad na koji se odnosi pozicija
2. Tražena (uslovljena) tehnologija izvođenja predmetnog rada
3. Potencijalni rizici po bezbednost i zdravlje ljudi na radu i potrebne preventivne mere
4. Potencijalni rizici po zaštitu životne sredine i potrebne preventivne mere
5. Način obračuna (napr. m²) – svi elementi koji su obuhvaćeni obračunskom jedinicom moraju biti taksativno navedeni (napr. nabavka materijala, transport, gradilišna manipulacija, ugradnja, konačna ispitivanja)
6. Garancije
7. Svaki element obuhvaćen u tački 5) mora biti povezan sa odgovarajućim standardom (ako postoji).

Jedan od sistema obeležavanja koji se najčešće koristi je Master Format - izvod je dat u prilogu.

Standardizacija tehničkih specifikacija je od ogromne pomoći projektantima, naročito u oblasti visokogradnje. Naime, u svetu je uobičajeno da standardne tehničke specifikacije za pojedine pozicije pripremaju i objavljuju zainteresovani proizvođači građevinskih materijala. To praktično znači da projektant sakupi standardne tehničke specifikacije za one pozicije koje se javljaju u njegovom projektu, i prekontroliše ih u smislu sadržaja navedenog u tačkama 1 – 7, odnosno ukloni indentifikaciju proizvođača. Najčešće, time je on bez velikog truda, pripremio bar 70% konačnih tehničkih specifikacija.

Drugi vid standardizacije tehničkih specifikacija trebalo bi da se javlja kod velikih privrednih sistema i javnih preduzeća jer se time može znatno poboljšati kvalitet konačnog proizvoda i smanjiti troškovi održavanja.

MASTERFORMAT™

2004 EDITION NUMBERS & TITLES

6/8/ 20 04 (revised August 2004, November 2004, October 2005)

*The numbers and titles presented here are identical to the MasterFormat™ 2004 Edition Numbers and Titles that were distributed on June 8, 2004 and revised in August 2004, save for additional selected title corrections that were made in the process of copy editing the MasterFormat publication. These corrections are listed separately on <http://www.csinet.org/MasterFormat>. **The numbers and titles presented here are identical to the numbers and titles presented in the full MasterFormat 2004 Edition (2nd printing, October 2005) publication available for purchase from CSI and CSC.***

MasterFormat™ is the specifications-writing standard for most commercial building design and construction projects in North America. It lists titles and section numbers for organizing data about construction requirements, products, and activities. By standardizing such information, MasterFormat facilitates communication among architects, specifiers, contractors and suppliers, which helps them meet building owners' requirements, timelines and budgets.

This revision of MasterFormat is the most significant in the product's 40-year history, and reflects the growing volume and complexity of information generated for commercial construction projects.

MasterFormat 2004 Edition: Numbers & Titles was developed by a team of individuals representing all stakeholders in the industry – owners, architects, engineers, contractors, manufacturers and facility managers. MasterFormat is intended to address specification requirements through the entire built lifecycle.

The Numbers and Titles are intentionally structured for anticipated growth and expansion in the future. CSI encourages all interested parties to provide input to CSI so that as the built environment evolves so can MasterFormat.

To learn more about MasterFormat 2004 Edition, go to [http://www.csinet.org/ MasterFormat](http://www.csinet.org/MasterFormat) for education programs, training, certification and local chapter information.

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INTRODUCTION

Over the last forty years, *MasterFormat™* has become the leading standard for organizing commercial construction specifications, and is now almost omnipresent in the AEC industry, thanks to the many applications to which it has been put. In 2001, the Construction Specifications Institute (CSI), along with sister organization Construction Specifications Canada (CSC), charged the *MasterFormat* Expansion Task Team with examining whether there was a need to revise and possibly expand the 1995 edition of *MasterFormat* to accommodate changes that have taken place in the industry since that version was published. The task team worked to develop a revised and expanded version of *MasterFormat*, consulting with all types of users, creating and distributing drafts, collecting and evaluating commentary, and attempting to bring all of this information into line with a vision of the construction industry that equally addresses the needs of next year and those of forty years from today. The 2004 edition of *MasterFormat* promises to be the most dramatic revision in the document's forty-year history, and one that will position it to excel at organizing construction information for a wider array of project types and currently unforeseen technology for the next forty years and beyond.

MasterFormat 2004 Edition: Numbers and Titles is a master list of numbers and subject titles for organizing information about construction work results, requirements, products, and activities into a standard sequence. Construction projects use many different delivery methods, products, and installation methods. Successful completion of projects requires effective communication among the people

involved. Information retrieval is nearly impossible without a standard filing system familiar to each user. *MasterFormat Numbers and Titles* facilitate standard filing and retrieval schemes throughout the construction industry. *MasterFormat Numbers and Titles* are suitable for use in project manuals, for organizing cost data, reference keynotes on drawings, for filing product information and other technical data, for identifying drawing objects and for presenting construction market data.

Each *MasterFormat* number and title defines a “section,” arranged in “levels” depending on their breadth of coverage. The broadest collections of related construction products and activities are level one titles, otherwise known as “divisions.” Each division in the *MasterFormat 2004 Edition: Numbers and Titles* is made up of level two, level three, and occasionally level four numbers and titles assigned by *MasterFormat*, each of which delineate a gradually more detailed area of work results to be specified. Work results are defined as traditional construction practices that typically result from an application of skills to construction products or resources. A further explanation of how to use each of the individual titles listed in *MasterFormat 2004 Edition: Numbers and Titles* is provided in the complete *MasterFormat 2004 Edition* publication, available from CSI and CSC in late 2004. Along with these scope and usage notes, the complete publication includes other added information designed to make its use easier, including a keyword index of requirements, products, and activities to help users find appropriate numbers and titles for construction subjects and an application guide to advise users of best practices for the use of *MasterFormat* titles and numbers.

MASTERFORMAT 2004 EDITION DEVELOPMENT:

The *MasterFormat* Expansion Task Team started their work in April 2001 by reaching out to the AEC industry and soliciting commentary on the proposal to revise and expand *MasterFormat*. Based on this commentary, the task team embarked on the long process of revising and developing content for the 2004 edition. Throughout its work, the task team’s progress from draft to draft was driven by evaluating the commentary given by *MasterFormat*’s users, and integrating that with the central challenge – maintaining a balance between meeting the needs of today and working to help implement a broader vision of an integrated construction information marketplace that will soon be pervasive in the way we conduct our everyday work. The task team explored many possible options for maintaining this balance between the demands of the present and those of the near future, and the need that underlies it, to create All contents copyright © 2004, The Construction Specifications Institute and Construction Specifications Canada. All rights reserved.

the best and most flexible and forward-thinking expansion, and do so without taking this effort beyond the bounds of user acceptance. For just as it would be senseless to create a 2004 edition of *MasterFormat* that was not flexible or forward-thinking and was thus ill-equipped to meet the challenges and needs that lie ahead, so too would it be pointless to create one that was so forward-thinking that it was unacceptable to today’s users and as a result was not implemented. Having incorporated the input of literally hundreds of individuals and organizations into their work, the task team is proud to now present the title and number contents and organization of the next edition of this industry standard, *MasterFormat 2004 Edition: Numbers and Titles*.

MASTERFORMAT 2004 EDITION NUMBERING REVISION EXPLAINED:

One of the most significant changes in the *MasterFormat 2004 Edition* is the adoption of a six-digit numbering system in place of the familiar five-digit system that has been used in *MasterFormat* since the 1978 edition. This six-digit system was first introduced in drafts issued in early 2003, and then accepted by the task team for all subsequent drafts, and provides exponentially more expansion spaces per level than the five-digit system, all but eliminating concerns about future expansion.

The familiar five-digit numbers in *MasterFormat 1995 Edition* are divided in the following fashion:

03 2 0 0 – Concrete Reinforcement

The first two digits, in this case “03” represent the division number, otherwise known as “level one.”

Each of the next three digits are taken individually, each representing one level of classification, or levels two, three, and four. Typically in *MasterFormat*, level four numbers are not assigned and are left as zero, to provide maximum flexibility for individual users.

The new six-digit *MasterFormat 2004* numbers work in a slightly different fashion:

03 20 00 – Concrete Reinforcing

As was the case with the old numbers, the first two digits, in this case also “03,” still represent the division

number, otherwise still known as “level one.” But here’s where the difference comes in. The next *pair* of numbers, in this case “20” represents level two, and the third pair, “00,” represents level three. Generally, level four numbers are not defined by the listed *MasterFormat* numbers, but when they are, an additional pair of digits is attached to the end, preceded by a “dot.” Level four numbers have only been used at locations in which the amount of detail merits the additional level of classification. Level four numbers appear like this:

03 52 16.13 Lightweight Cellular Insulating Concrete

Additional recommendations for the use of level four and level five will be included in the *MasterFormat 2004 Edition* application guide and throughout the full publication, preserving a level of user modifiable numbers for flexibility. More importantly, because each level of classification is represented by a pair of digits, there is room to address over ten times as many subjects at *each level*, providing flexibility and room for expansion that the five digit numbers could never provide, and providing it where it will have the most impact in addressing future needs for expansion to address new subject matter.

MASTERFORMAT 2004 EDITION DIVISION CONTENTS:

Though changes too numerous to list have been incorporated into the 2004 edition of *MasterFormat*, the following is a summary that compares the contents of the divisions that will compose *MasterFormat 2004 Edition* with *MasterFormat 1995 Edition*:

Division 00 – Procurement and Contracting Requirements: Essentially the same scope as *MasterFormat 1995 Edition*.

Division 01 – General Requirements: Area for performance requirements added to allow for writing performance requirements for elements that overlap work sections (building envelope, structure, etc.). This allows for a mixture of broad performance specifications and prescriptive specifications in a project manual.

Division 02 – Existing Conditions: This division is now limited to “existing conditions,” construction practices that relate to items at the site at the commencement of work – selective demolition, subsurface and other investigation, surveying, site decontamination, and site remediation, among others. All site construction as well as heavy civil and infrastructure subject matter, including utility and pavement work, has been relocated to the Site and Infrastructure Subgroup.

Divisions 03 – Concrete, 04 – Masonry, and 05 – Metals: Essentially the same scope as *MasterFormat 1995 Edition*.

Division 06 – Wood, Plastics, and Composites: Essentially the same scope as *MasterFormat 1995 Edition* with expansion in the areas of plastics and composites.

Division 07 – Thermal and Moisture Protection: Essentially the same as *MasterFormat 1995 Edition*.

Division 08 – Openings: Renamed but with essentially the same scope of as *MasterFormat 1995 Edition* with the addition of some other openings such as louvers and grilles.

Divisions 09 – Finishes and 10 – Specialties: Essentially the same scope as *MasterFormat 1995 Edition*.

Division 11 – Equipment: Equipment related to process engineering has been relocated to the Process Equipment Subgroup and equipment related to infrastructure has been relocated to the Site and Infrastructure Subgroup.

Division 12 – Furnishings: Essentially the same scope as *MasterFormat 1995 Edition*.

Division 13 – Special Construction: Special construction related to process engineering has been relocated to the Process Equipment Subgroup. Security access, building automation, detection and alarm, and fire suppression subjects have been relocated to the Facility Services Subgroup.

Division 14 – Conveying Equipment: Renamed with process related material handling subjects relocated to the Process Equipment Subgroup.

Division 15 – Mechanical: Division 15 has been reserved for future expansion and material has been relocated to Division 22 – Plumbing and Division 23 – Heating, Ventilating, and Air Conditioning in the Facility Services Subgroup.

Division 16 - Electrical: Division 16 has been reserved for future expansion and material has been relocated to Divisions 26 – Electrical and 27 – Communications in the Facility Services Subgroup.

Facility Services Subgroup: This subgroup retains the same basic content as published in Draft 4, but

with some new divisions, arranged in a revised order.

21 – Fire Suppression: Fire suppression subjects relocated from Division 13 in *MasterFormat 1995 Edition*.

22 – Plumbing: Plumbing subjects relocated from Division 15 in *MasterFormat 1995 Edition*.

23 – Heating Ventilating and Air Conditioning: HVAC subjects relocated from Division 15 in *MasterFormat 1995 Edition*.

25 – Integrated Automation: Expanded integrated automation subjects relocated from Division 13 in *MasterFormat 1995 Edition*.

26 – Electrical: Electrical and lighting subjects relocated from Division 16 in *MasterFormat 1995 Edition*.

27 – Communications: Expanded communications subjects relocated from Division 16 in *MasterFormat 1995 Edition*.

28 – Electronic Safety and Security: Expanded electronic safety and security subjects relocated from Division 13 in *MasterFormat 1995 Edition*.

Site and Infrastructure Subgroup: This subgroup contains heavy civil and utility subject matter, as well as site construction material moved from Division 2 in *MasterFormat 1995 Edition*.

Division 31 – Earthwork: Site construction subjects, chiefly below-grade, from Division 2 in *MasterFormat 1995 Edition*.

Division 32 – Exterior Improvements: Site construction subjects, chiefly above-grade, from Division 2 in *MasterFormat 1995 Edition*.

Division 33 – Utilities: Expanded utility subjects relocated from Division 2 in *MasterFormat 1995 Edition*.

Division 34 – Transportation: Expanded transportation subjects relocated from various Divisions in *MasterFormat 1995 Edition*.

Division 35 – Waterway and Marine Construction: Expanded waterway and marine subjects relocated from mainly Division 2 in *MasterFormat 1995 Edition*.

Process Equipment Subgroup: Some material in this subgroup is new to *MasterFormat 2004 Edition*, while some has been relocated from Divisions 11, 13, and 14 in *MasterFormat 1995 Edition*.

Division 40 – Process Integration: Process facilities are composed of a variety of subsystems, tied together and integrated by distribution pathways, control, and instrumentation. All of these systems must work together as a whole. This division includes elements used to tie these systems together: piping, heat tracing, insulation, and instrumentation and control systems, and also provides a place to specify commissioning requirements for the subsystems and the facility as a whole.

Division 41 – Material Processing and Handling Equipment: Equipment for processing and conditioning of raw materials; material handling equipment for bulk materials as well as discrete units; manufacturing equipment and machinery, test equipment, and packaging / shipping systems.

Division 42 – Process Heating, Cooling, and Drying Equipment: Equipment for process heating, cooling and drying of materials, liquids, gases and manufactured items and materials.

Division 43 – Process Gas and Liquid Handling, Purification and Storage Equipment: Equipment for handling, purification and storage of process liquids, gases, slurries; includes atmospheric tanks as well as pressure vessels.

Division 44 – Pollution Control Equipment: Equipment for controlling emission of contaminants from manufacturing processes and treatment of air, water, soils and noise contaminants.

Division 45 – Industry-Specific Manufacturing Equipment: A division in which users can specify equipment that is used only within a single industry. All industries currently identified within the North American Industry Classification System (NAICS) are allocated space within the division.

Division 48 – Electrical Power Generation: Plants and equipment for the generation and control of electrical power from fossil fuel, nuclear energy, hydroelectric, wind, solar energy, geothermal energy, electrochemical energy, and fuel cells.

Divisions not named above are explicitly reserved to provide space for future development and expansion. To minimize costs resulting from potential future expansions, it's not recommended that users populate these divisions with their own material.

MASTERFORMAT 2004 EDITION AND OTHER INDUSTRY CLASSIFICATION EFFORTS

The *MasterFormat* Expansion Task Team's work also envisions the expanded content of *MasterFormat* serving to inform Table 22 (Work Results) of the *OmniClass* Construction Classification System (OCCS),

a multi-table system for organizing information used by the AEC industry. CSI has worked with the crossindustry group responsible for the creation and maintenance of this standard, the OCCS Development Committee, to ensure that *MasterFormat* is compatible with *OmniClass*. As a result, the full version of *MasterFormat* will be one of the first applications of the OCCS. Once fully developed, the OCCS will be the basis for deriving relational applications, and will support and empower the transfer and use of information in the construction marketplace, ultimately serving all participants who work to sustain the built environment throughout the entire life cycle. *MasterFormat's* 2004 edition will play an important role in this activity.

The 2004 edition of *MasterFormat* replaces the 1995 edition and is produced jointly by The Construction Specifications Institute (CSI); (800) 689-2900, and Construction Specifications Canada (CSC); (416)777-2198. For those interested in more information about *MasterFormat* and its use in the construction industry contact CSI Member Service at (800) 689-2900 or consult the web at

Division Numbers and Titles

PROCUREMENT AND CONTRACTING REQUIREMENTS GROUP

Division 00 Procurement and Contracting Requirements

SPECIFICATIONS GROUP

GENERAL REQUIREMENTS SUBGROUP

Division 01 General Requirements FACILITY CONSTRUCTION SUBGROUP

Division 02 Existing Conditions

Division 03 Concrete

Division 04 Masonry

Division 05 Metals

Division 06 Wood, Plastics, and Composites

Division 07 Thermal and Moisture Protection

Division 08 Openings

Division 09 Finishes

Division 10 Specialties

Division 11 Equipment

Division 12 Furnishings

Division 13 Special Construction

Division 14 Conveying Equipment

Division 15 Reserved

Division 16 Reserved

Division 17 Reserved

Division 18 Reserved

Division 19 Reserved

FACILITY SERVICES SUBGROUP

Division 20 Reserved

Division 21 Fire Suppression

Division 22 Plumbing

Division 23 Heating, Ventilating, and Air Conditioning

Division 24 Reserved

Division 25 Integrated Automation

Division 26 Electrical

Division 27 Communications

Division 28 Electronic Safety and Security

Division 29 Reserved

SITE AND INFRASTRUCTURE SUBGROUP

Division 30 Reserved

Division 31 Earthwork

Division 32 Exterior Improvements

Division 33 Utilities

Division 34 Transportation

Division 35 Waterway and Marine Construction

Division 36 Reserved

Division 37 Reserved

Division 38 Reserved

Division 39 Reserved

PROCESS EQUIPMENT SUBGROUP

Division 40 Process Integration

Division 41 Material Processing and Handling Equipment

Division 42 Process Heating, Cooling, and Drying Equipment

Division 43 Process Gas and Liquid Handling, Purification, and Storage Equipment

Division 44 Pollution Control Equipment

Division 45 Industry-Specific Manufacturing Equipment

Division 46 Reserved

Division 47 Reserved

Division 48 Electrical Power Generation

Division 49 Reserved

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

00 00 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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00 01 05 Certifications Page

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00 01 20 List of Schedules

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00 11 00 Advertisements and Invitations

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00 11 16 Invitation to Bid

- 00 11 19 Request for Proposal
- 00 11 53 Request for Qualifications
- 00 20 00 INSTRUCTIONS FOR PROCUREMENT**
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 - 00 21 13 Instructions to Bidders
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- 00 22 00 Supplementary Instructions**
 - 00 22 13 Supplementary Instructions to Bidders
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- 00 23 00 Procurement Definitions**
- 00 24 00 Procurement Scopes**
 - 00 24 13 Scopes of Bids
 - 00 24 13.13 Scopes of Bids (Multiple Contracts)
 - 00 24 13.16 Scopes of Bids (Multiple-Prime Contract)
 - 00 24 16 Scopes of Proposals
 - 00 24 16.13 Scopes of Proposals (Multiple Contracts)
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- 00 25 00 Procurement Meetings**
 - 00 25 13 Pre-Bid Meetings
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 - 00 31 13.13 Preliminary Project Schedule
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 - 00 31 13.26 Preliminary Project Sequencing
 - 00 31 13.33 Preliminary Project Milestones
 - 00 31 16 Project Budget Information
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 - 00 31 19.13 Movement and Vibration Information
 - 00 31 19.16 Acoustic Information
 - 00 31 19.19 Traffic Information
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 - 00 31 24.26 Environmental Impact Report Evaluation
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 - 00 31 24.33 Environmental Impact Mitigation Report
 - 00 31 25 Existing Material Information
 - 00 31 25.16 Existing Concrete Information
 - 00 31 25.19 Existing Masonry Information
 - 00 31 25.23 Existing Metals Information
 - 00 31 25.26 Existing Wood, Plastics, and Composites Information
 - 00 31 25.29 Existing Thermal and Moisture Protection Information
 - 00 31 26 Existing Hazardous Material Information

00 31 26.23 Existing Asbestos Information
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00 31 26.33 Existing Mold Information
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00 31 31.16 Gravity Investigations Information
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00 31 31.23 Electromagnetic Investigations Information
00 31 31.26 Electrical Resistivity Investigations Information
00 31 31.29 Magnetotelluric Investigations Information
00 31 32 Geotechnical Data
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00 41 26 Bid Form – Construction Management (Multiple-Prime Contract)
00 41 33 Bid Form – Cost Plus-Fee (Single-Prime Contract)
00 41 36 Bid Form – Cost-Plus-Fee (Multiple-Prime Contract)
00 41 43 Bid Form – Unit Price (Single-Prime Contract)
00 41 46 Bid Form – Unit Price (Multiple-Prime Contract)
00 41 53 Bid Form – Design/Build (Single-Prime Contract)
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00 41 63 Bid Form – Purchase Contract

00 42 00 Proposal Forms

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00 42 23 Proposal Form – Construction Management (Single-Prime Contract)
00 42 26 Proposal Form – Construction Management (Multiple-Prime Contract)
00 42 33 Proposal Form – Cost-Plus-Fee (Single-Prime Contract)
00 42 36 Proposal Form – Cost-Plus-Fee (Multiple-Prime Contract)
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00 42 46 Proposal Form – Unit Price (Multiple-Prime Contract)
00 42 53 Proposal Form – Design/Build (Single-Prime Contract)
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00 43 26 Estimated Quantities Form

00 43 33 Proposed Products Form
00 43 36 Proposed Subcontractors Form
00 43 39 Minority Business Enterprise Statement of Intent Form
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00 43 83 Proposed Construction Schedule Form
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00 52 33 Agreement Form – Cost Plus-Fee (Single-Prime Contract)
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00 61 13.13 Performance Bond Form
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00 62 76.13 Sales Tax Form
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00 63 55 Proposal Worksheet Detail Form
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00 63 63 Change Order Form

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00 65 19 Certificate of Completion Form
00 65 19.13 Affidavit of Payment of Debts and Claims Form
00 65 19.16 Affidavit of Release of Liens Form
00 65 19.19 Consent of Surety to Final Payment Form
00 65 19.23 Acceptance Certificate Form
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00 65 73 Statutory Declaration Form

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00 72 23 General Conditions – Construction Management (Single-Prime Contract)
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00 72 33 General Conditions – Cost Plus-Fee (Single-Prime Contract)

00 72 36 General Conditions – Cost-Plus-Fee (Multiple-Prime Contract)
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00 91 16 Bid Revisions
00 91 19 Proposal Revisions

00 93 00 Record Clarifications and Proposals

00 93 13 Record Requests for Interpretation
00 93 19 Record Clarification Notices
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01 11 16 Work by Owner
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01 12 00 Multiple Contract Summary

01 12 13 Summary of Contracts

- 01 12 16 Work Sequence
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01 53 00 Temporary Construction

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01 89 16 Site Improvements Performance Requirements

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01 89 26 Site Electrical Utilities Performance Requirements

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01 91 16.53 Basement Construction Commissioning

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01 91 19.13 Superstructure Commissioning

01 91 19.43 Exterior Enclosure Commissioning

01 91 19.73 Roofing Commissioning

01 91 23 Interiors Commissioning

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02 01 65 Maintenance of Underground Storage Tank Removal

02 01 80 Maintenance of Facility Remediation

02 01 86 Maintenance of Hazardous Waste Drum Handling

02 05 00 Common Work Results for Existing Conditions

02 05 19 Geosynthetics for Existing Conditions

02 05 19.13 Geotextiles for Existing Conditions

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- 02 08 00 Commissioning of Existing Conditions**
- 02 10 00 Unassigned*
- 02 20 00 ASSESSMENT**
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 - 02 21 16 Measured Drawings
- 02 22 00 Existing Conditions Assessment**
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 - 02 22 19 Traffic Assessment
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 - 02 24 13 Natural Environment Assessment
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- 02 25 00 Existing Material Assessment**
 - 02 25 16 Existing Concrete Assessment
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- 02 26 00 Hazardous Material Assessment**
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 - 02 26 26 Lead Assessment
 - 02 26 29 Polychlorinate Biphenyl Assessment
 - 02 26 33 Biological Assessment
 - 02 26 33.13 Mold Assessment
 - 02 26 36 Hazardous Waste Drum Assessment
- 02 30 00 SUBSURFACE INVESTIGATION**
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02 41 13 Selective Site Demolition

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02 41 16 Structure Demolition

02 41 16.13 Building Demolition

02 41 16.23 Tower Demolition

02 41 16.33 Bridge Demolition

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02 41 19 Selective Structure Demolition

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02 41 91 Selective Historic Demolition

02 42 00 Removal and Salvage of Construction Materials

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02 51 13 Coagulation and Flocculation Decontamination

02 51 16 Reverse-Osmosis Decontamination

02 51 19 Solidification and Stabilization Decontamination

02 51 23 Mechanical Filtration Decontamination

02 51 26 Radioactive Decontamination

02 51 29 Surface Cleaning Decontamination

02 51 29.13 High-Pressure Water Cleaning Decontamination

02 51 29.16 Vacuum Sweeping Cleaning Decontamination

02 51 33 Surface Removal Decontamination

02 51 33.13 Surface Removal Decontamination by Grinding

02 51 33.16 Surface Removal Decontamination by Sand Blasting

02 51 33.19 Surface Removal Decontamination by Ultrasound

02 52 00 Chemical Decontamination

02 52 13 Chemical Precipitation Decontamination

02 52 16 Ion Change Decontamination

02 52 19 Neutralization Decontamination

02 53 00 Thermal Decontamination

02 53 13 Incineration Decontamination

02 53 13.13 Remediation of Contaminated Soils and Sludges by Incineration

02 53 16 Thermal Desorption Decontamination

02 53 16.13 Remediation of Contaminated Soils by Thermal Desorption

02 53 19 Vitrification Decontamination

02 54 00 Biological Decontamination

02 54 13 Aerobic Processes Decontamination

02 54 16 Anaerobic Processes Decontamination

02 54 19 Bioremediation Decontamination

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02 54 19.16 Bioremediation of Soils Using Windrow Composting

02 54 19.19 Bioremediation Using Bacteria Injection

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02 54 26 Organic Decontamination

02 55 00 Remediation Soil Stabilization

02 56 00 Site Containment

02 56 13 Waste Containment

02 56 13.13 Geomembrane Waste Containment

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02 57 00 Sinkhole Remediation

02 57 13 Sinkhole Remediation by Grouting

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02 57 13.16 Sinkhole Remediation by Cap Grouting

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02 58 13 Snow Fencing

02 58 16 Snow Avalanche Control

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02 61 00 Removal and Disposal of Contaminated Soils

02 61 13 Excavation and Handling of Contaminated Material

02 61 23 Removal and Disposal of Polychlorinate Biphenyl Contaminated Soils

02 61 26 Removal and Disposal of Asbestos Contaminated Soils

02 61 29 Removal and Disposal of Organically Contaminated Soils

02 62 00 Hazardous Waste Recovery Processes

02 62 13 Air and Steam Stripping

02 62 16 Soil Vapor Extraction

02 62 19 Soil Washing and Flushing

02 65 00 Underground Storage Tank Removal

02 66 00 Landfill Construction and Storage

02 70 00 WATER REMEDIATION

02 71 00 Groundwater Treatment

02 72 00 Water Decontamination

02 72 13 Chemical Water Decontamination

02 72 16 Biological Water Decontamination

02 72 19 Electrolysis Water Decontamination

02 80 00 FACILITY REMEDIATION

02 81 00 Transportation and Disposal of Hazardous Materials

02 82 00 Asbestos Remediation

02 82 13 Asbestos Abatement

02 82 13.13 Glovebag Asbestos Abatement

02 82 13.16 Precautions for Asbestos Abatement

02 82 13.19 Asbestos Floor Tile and Mastic Abatement
02 82 16 Engineering Control of Asbestos Containing Materials
02 82 33 Removal and Disposal of Asbestos Containing Materials

02 83 00 Lead Remediation

02 83 13 Lead Hazard Control Activities
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02 83 19.13 Lead-Based Paint Abatement
02 83 33 Removal and Disposal of Material Containing Lead
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02 84 00 Polychlorinate Biphenyl Remediation

02 84 16 Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury
02 84 33 Removal and Disposal of Polychlorinate Biphenyls

02 85 00 Mold Remediation

02 85 13 Precautions for Mold Remediation
02 85 16 Mold Remediation Preparation and Containment
02 85 19 Mold Remediation Clearance Air Sampling
02 85 33 Removal and Disposal of Materials with Mold

02 86 00 Hazardous Waste Drum Handling

02 90 00 Unassigned

DIVISION 03 – CONCRETE

03 00 00 CONCRETE

03 01 00 Maintenance of Concrete

03 01 10 Maintenance of Concrete Forming and Accessories
03 01 20 Maintenance of Concrete Reinforcing
03 01 23 Maintenance of Stressing Tendons
03 01 30 Maintenance of Cast-in-Place Concrete
03 01 30.51 Cleaning of Cast-in-Place Concrete
03 01 30.61 Resurfacing of Cast-in-Place Concrete
03 01 30.71 Rehabilitation of Cast-in-Place Concrete
03 01 30.72 Strengthening of Cast-in-Place Concrete
03 01 40 Maintenance of Precast Concrete
03 01 40.51 Cleaning of Precast Concrete
03 01 40.61 Resurfacing of Precast Concrete
03 01 40.71 Rehabilitation of Precast Concrete
03 01 40.72 Strengthening of Precast Concrete
03 01 50 Maintenance of Cast Decks and Underlayment
03 01 50.51 Cleaning Cast Decks and Underlayment
03 01 50.61 Resurfacing of Cast Decks and Underlayment
03 01 50.71 Rehabilitation of Cast Decks and Underlayment
03 01 50.72 Strengthening of Cast Decks and Underlayment
03 01 60 Maintenance of Grouting
03 01 70 Maintenance of Mass Concrete
03 01 80 Maintenance of Concrete Cutting and Boring

03 05 00 Common Work Results for Concrete

03 06 00 Schedules for Concrete

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03 06 20 Schedules for Concrete Reinforcing
03 06 20.13 Concrete Beam Reinforcing Schedule
03 06 20.16 Concrete Slab Reinforcing Schedule
03 06 30 Schedules for Cast-in-Place Concrete

03 06 30.13 Concrete Footing Schedule
03 06 30.16 Concrete Column Schedule
03 06 30.19 Concrete Slab Schedule
03 06 30.23 Concrete Shaft Schedule
03 06 30.26 Concrete Beam Schedule
03 06 40 Schedules for Precast Concrete
03 06 40.13 Precast Concrete Panel Schedule
03 06 50 Schedules for Cast Decks and Underlayment
03 06 60 Schedules for Grouting
03 06 70 Schedules for Mass Concrete
03 06 80 Schedules for Concrete Cutting and Boring
03 08 00 Commissioning of Concrete
03 10 00 CONCRETE FORMING AND ACCESSORIES
03 11 00 Concrete Forming
03 11 13 Structural Cast-in-Place Concrete Forming
03 11 13.13 Concrete Slip Forming
03 11 13.16 Concrete Shoring
03 11 13.19 Falsework
03 11 16 Architectural Cast-in Place Concrete Forming
03 11 16.13 Concrete Form Liners
03 11 19 Insulating Concrete Forming
03 11 23 Permanent Stair Forming
03 15 00 Concrete Accessories
03 15 13 Waterstops
03 20 00 CONCRETE REINFORCING
03 21 00 Reinforcing Steel
03 21 13 Galvanized Reinforcing Steel
03 21 16 Epoxy-Coated Reinforcing Steel
03 22 00 Welded Wire Fabric Reinforcing
03 22 13 Galvanized Welded Wire Fabric Reinforcing
03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing
03 23 00 Stressing Tendons
03 24 00 Fibrous Reinforcing
03 30 00 CAST-IN-PLACE CONCRETE
03 30 53 Miscellaneous Cast-in-Place Concrete
03 31 00 Structural Concrete
03 31 13 Heavyweight Structural Concrete
03 31 16 Lightweight Structural Concrete
03 31 19 Shrinkage-Compensating Structural Concrete
03 31 23 High-Performance Structural Concrete
03 31 26 Self-Compacting Concrete
03 33 00 Architectural Concrete
03 33 13 Heavyweight Architectural Concrete
03 33 16 Lightweight Architectural Concrete
03 34 00 Low Density Concrete
03 35 00 Concrete Finishing
03 35 13 High-Tolerance Concrete Floor Finishing
03 35 16 Heavy-Duty Concrete Floor Finishing
03 35 19 Colored Concrete Finishing

03 35 23 Exposed Aggregate Concrete Finishing

03 35 26 Grooved Concrete Surface Finishing

03 35 29 Tooled Concrete Finishing

03 35 33 Stamped Concrete Finishing

03 37 00 Specialty Placed Concrete

03 37 13 Shotcrete

03 37 16 Pumped Concrete

03 37 19 Pneumatically Placed Concrete

03 37 23 Roller-Compacted Concrete

03 37 26 Underwater Placed Concrete

03 38 00 Post-Tensioned Concrete

03 38 13 Post-Tensioned Concrete Preparation

03 38 16 Unbonded Post-Tensioned Concrete

03 38 19 Bonded Post-Tensioned Concrete

03 39 00 Concrete Curing

03 39 13 Water Concrete Curing

03 39 16 Sand Concrete Curing

03 39 23 Membrane Concrete Curing

03 39 23.13 Chemical Compound Membrane Concrete Curing

03 39 23.23 Sheet Membrane Concrete Curing

03 40 00 PRECAST CONCRETE

03 41 00 Precast Structural Concrete

03 41 13 Precast Concrete Hollow Core Planks

03 41 16 Precast Concrete Slabs

03 41 23 Precast Concrete Stairs

03 41 33 Precast Structural Pretensioned Concrete

03 41 36 Precast Structural Post-Tensioned Concrete

03 45 00 Precast Architectural Concrete

03 45 13 Faced Architectural Precast Concrete

03 45 33 Precast Architectural Pretensioned Concrete

03 45 36 Precast Architectural Post-Tensioned Concrete

03 47 00 Site-Cast Concrete

03 47 13 Tilt-Up Concrete

03 47 16 Lift-Slab Concrete

03 48 00 Precast Concrete Specialties

03 48 13 Precast Concrete Bollards

03 48 16 Precast Concrete Splash Blocks

03 48 19 Precast Concrete Stair Treads

03 48 43 Precast Concrete Trim

03 49 00 Glass-Fiber-Reinforced Concrete

03 49 13 Glass-Fiber-Reinforced Concrete Column Covers

03 49 16 Glass-Fiber-Reinforced Concrete Spandrels

03 49 43 Glass-Fiber-Reinforced Concrete Trim

03 50 00 CAST DECKS AND UNDERLAYMENT

03 51 00 Cast Roof Decks

03 51 13 Cementitious Wood Fiber Decks

03 51 16 Gypsum Concrete Roof Decks

03 52 00 Lightweight Concrete Roof Insulation

03 52 13 Composite Concrete Roof Insulation
03 52 16 Lightweight Insulating Concrete
03 52 16.13 Lightweight Cellular Insulating Concrete
03 52 16.16 Lightweight Aggregate Insulating Concrete

03 53 00 Concrete Topping

03 53 13 Emery-Aggregate Concrete Topping
03 53 16 Iron-Aggregate Concrete Topping

03 54 00 Cast Underlayment

03 54 13 Gypsum Cement Underlayment
03 54 16 Hydraulic Cement Underlayment

03 60 00 GROUTING

03 61 00 Cementitious Grouting

03 61 13 Dry-Pack Grouting

03 62 00 Non-Shrink Grouting

03 62 13 Non-Metallic Non-Shrink Grouting
03 62 16 Metallic Non-Shrink Grouting

03 63 00 Epoxy Grouting

03 64 00 Injection Grouting

03 64 23 Epoxy Injection Grouting

03 70 00 MASS CONCRETE

03 71 00 Mass Concrete for Raft Foundations

03 72 00 Mass Concrete for Dams

03 80 00 CONCRETE CUTTING AND BORING

03 81 00 Concrete Cutting

03 81 13 Flat Concrete Sawing
03 81 16 Track Mounted Concrete Wall Sawing
03 81 19 Wire Concrete Wall Sawing
03 81 23 Hand Concrete Wall Sawing
03 81 26 Chain Concrete Wall Sawing

03 82 00 Concrete Boring

03 82 13 Concrete Core Drilling

03 90 00 Unassigned

DIVISION 04 – MASONRY

04 00 00 MASONRY

04 01 00 Maintenance of Masonry

04 01 20 Maintenance of Unit Masonry
04 01 20.51 Unit Masonry Maintenance
04 01 20.52 Unit Masonry Cleaning
04 01 20.91 Unit Masonry Restoration
04 01 20.93 Testing and Sampling Brick Units for Restoration
04 01 40 Maintenance of Stone Assemblies
04 01 40.51 Stone Maintenance
04 01 40.52 Stone Cleaning
04 01 40.91 Stone Restoration
04 01 50 Maintenance of Refractory Masonry
04 01 60 Maintenance of Corrosion-Resistant Masonry
04 01 70 Maintenance of Manufactured Masonry

04 05 00 Common Work Results for Masonry

- 04 05 13 Masonry Mortaring
 - 04 05 13.16 Chemical-Resistant Masonry Mortaring
 - 04 05 13.19 Epoxy Masonry Mortaring
 - 04 05 13.23 Surface Bonding Masonry Mortaring
 - 04 05 13.26 Engineered Masonry Mortaring
 - 04 05 13.29 Refractory Masonry Mortaring
 - 04 05 13.91 Masonry Restoration Mortaring
- 04 05 16 Masonry Grouting
 - 04 05 16.16 Chemical-Resistant Masonry Grouting
 - 04 05 16.26 Engineered Masonry Grouting
- 04 05 19 Masonry Anchorage and Reinforcing
 - 04 05 19.13 Continuous Joint Reinforcing
 - 04 05 19.16 Masonry Anchors
 - 04 05 19.26 Masonry Reinforcing Bars
 - 04 05 19.29 Stone Anchors
- 04 05 23 Masonry Accessories
 - 04 05 23.13 Masonry Control and Expansion Joints
 - 04 05 23.16 Masonry Embedded Flashing
 - 04 05 23.19 Masonry Cavity Drainage, Weepholes, and Vents

04 06 00 Schedules for Masonry

- 04 06 20 Schedules for Unit Masonry
 - 04 06 20.13 Masonry Unit Schedule
- 04 06 40 Schedules for Stone Assemblies
- 04 06 50 Schedules for Refractory Masonry
- 04 06 60 Schedules for Corrosion-Resistant Masonry
- 04 06 70 Schedules for Manufactured Masonry

04 08 00 Commissioning of Masonry

04 10 00 Unassigned

04 20 00 UNIT MASONRY

04 21 00 Clay Unit Masonry

- 04 21 13 Brick Masonry
 - 04 21 13.13 Brick Veneer Masonry
 - 04 21 13.23 Surface-Bonded Brick Masonry
- 04 21 16 Ceramic Glazed Clay Masonry
- 04 21 19 Clay Tile Masonry
 - 04 21 23 Structural Clay Tile Masonry
 - 04 21 26 Glazed Structural Clay Tile Masonry
- 04 21 29 Terra Cotta Masonry

04 22 00 Concrete Unit Masonry

- 04 22 00.13 Concrete Unit Veneer Masonry
- 04 22 00.16 Surface-Bonded Concrete Unit Masonry
- 04 22 19 Insulated Concrete Unit Masonry
- 04 22 23 Architectural Concrete Unit Masonry
 - 04 22 23.13 Exposed Aggregate Concrete Unit Masonry
 - 04 22 23.16 Fluted Concrete Unit Masonry
 - 04 22 23.19 Molded-Face Concrete Unit Masonry
 - 04 22 23.23 Prefaced Concrete Unit Masonry
 - 04 22 23.26 Sound-Absorbing Concrete Unit Masonry
 - 04 22 23.29 Split-Face Concrete Unit Masonry
- 04 22 33 Interlocking Concrete Unit Masonry

04 23 00 Glass Unit Masonry

- 04 23 13 Vertical Glass Unit Masonry

04 23 16 Glass Unit Masonry Floors
04 23 19 Glass Unit Masonry Skylights
04 24 00 Adobe Unit Masonry
04 24 13 Site-Cast Adobe Unit Masonry
04 24 16 Manufactured Adobe Unit Masonry
04 25 00 Unit Masonry Panels
04 25 13 Metal-Supported Unit Masonry Panels
04 27 00 Multiple-Wythe Unit Masonry
04 27 13 Composite Unit Masonry
04 27 23 Cavity Wall Unit Masonry
04 28 00 Concrete Form Masonry Units
04 28 13 Dry-Stacked, Concrete-Filled Masonry Units
04 28 23 Mortar-Set, Concrete-Filled Masonry Units
04 30 00 Unassigned
04 40 00 STONE ASSEMBLIES
04 41 00 Dry-Placed Stone
04 42 00 Exterior Stone Cladding
04 42 13 Masonry-Supported Stone Cladding
04 42 16 Steel-Stud-Supported Stone Cladding
04 42 19 Strongback-Frame-Supported Stone Cladding
04 42 23 Truss-Supported Stone Cladding
04 42 26 Grid-System-Supported Stone Cladding
04 42 43 Stone Panels for Curtain Walls
04 43 00 Stone Masonry
04 50 00 REFRACTORY MASONRY
04 51 00 Flue Liner Masonry
04 52 00 Combustion Chamber Masonry
04 53 00 Castable Refractory Masonry
04 54 00 Refractory Brick Masonry
04 57 00 Masonry Fireplaces
04 60 00 CORROSION-RESISTANT MASONRY
04 61 00 Chemical-Resistant Brick Masonry
04 62 00 Vitrified Clay Liner Plate
04 70 00 MANUFACTURED MASONRY
04 71 00 Manufactured Brick Masonry
04 71 13 Calcium Silicate Manufactured Brick Masonry
04 72 00 Cast Stone Masonry
04 73 00 Manufactured Stone Masonry
04 73 13 Calcium Silicate Manufactured Stone Masonry
04 80 00 Unassigned
04 90 00 Unassigned
DIVISION 05 – METALS
05 00 00 METALS
05 01 00 Maintenance of Metals
05 01 10 Maintenance of Structural Metal Framing
05 01 20 Maintenance of Metal Joists

- 05 01 30 Maintenance of Metal Decking
- 05 01 40 Maintenance of Cold-Formed Metal Framing
- 05 01 50 Maintenance of Metal Fabrications
- 05 01 70 Maintenance of Decorative Metal
- 05 01 70.91 Historic Treatment of Decorative Metal
- 05 05 00 Common Work Results for Metals**
- 05 05 13 Shop-Applied Coatings for Metal
- 05 05 23 Metal Fastenings
- 05 05 53 Security Metal Fastenings
- 05 06 00 Schedules for Metals**
- 05 06 10 Schedules for Structural Metal Framing
- 05 06 10.13 Steel Column Schedule
- 05 06 10.16 Steel Beam Schedule
- 05 06 20 Schedules for Metal Joists
- 05 06 20.13 Steel Joist Schedule
- 05 06 30 Schedules for Metal Decking
- 05 06 40 Schedules for Cold-Formed Metal Framing
- 05 06 50 Schedules for Metal Fabrications
- 05 06 70 Schedules for Decorative Metal
- 05 08 00 Commissioning of Metals**
- 05 10 00 STRUCTURAL METAL FRAMING**
- 05 12 00 Structural Steel Framing**
- 05 12 13 Architecturally-Exposed Structural Steel Framing
- 05 12 16 Fabricated Fireproofed Steel Columns
- 05 12 23 Structural Steel for Buildings
- 05 12 33 Structural Steel for Bridges
- 05 13 00 Structural Stainless-Steel Framing**
- 05 14 00 Structural Aluminum Framing**
- 05 14 13 Architecturally-Exposed Structural Aluminum Framing
- 05 15 00 Wire Rope Assemblies**
- 05 15 13 Aluminum Wire Rope Assemblies
- 05 15 16 Steel Wire Rope Assemblies
- 05 15 19 Stainless-Steel Wire Rope Assemblies
- 05 16 00 Structural Cabling**
- 05 16 33 Bridge Cabling
- 05 20 00 METAL JOISTS**
- 05 21 00 Steel Joist Framing**
- 05 21 13 Deep Longspan Steel Joist Framing
- 05 21 16 Longspan Steel Joist Framing
- 05 21 19 Open Web Steel Joist Framing
- 05 21 23 Steel Joist Girder Framing
- 05 25 00 Aluminum Joist Framing**
- 05 30 00 METAL DECKING**
- 05 31 00 Steel Decking**
- 05 31 13 Steel Floor Decking
- 05 31 23 Steel Roof Decking
- 05 31 33 Steel Form Decking
- 05 33 00 Aluminum Decking**

05 33 13 Aluminum Floor Decking
05 33 23 Aluminum Roof Decking
05 34 00 Acoustical Metal Decking
05 35 00 Raceway Decking Assemblies
05 36 00 Composite Metal Decking
05 36 13 Composite Steel Plate and Elastomer Decking
05 40 00 COLD-FORMED METAL FRAMING
05 41 00 Structural Metal Stud Framing
05 42 00 Cold-Formed Metal Joist Framing
05 42 13 Cold-Formed Metal Floor Joist Framing
05 42 23 Cold-Formed Metal Roof Joist Framing
05 43 00 Slotted Channel Framing
05 44 00 Cold-Formed Metal Trusses
05 45 00 Metal Support Assemblies
05 45 13 Mechanical Metal Supports
05 45 16 Electrical Metal Supports
05 45 19 Communications Metal Supports
05 45 23 Healthcare Metal Supports
05 50 00 METAL FABRICATIONS
05 51 00 Metal Stairs
05 51 13 Metal Pan Stairs
05 51 16 Metal Floor Plate Stairs
05 51 19 Metal Grating Stairs
05 51 23 Metal Fire Escapes
05 51 33 Metal Ladders
05 51 33.13 Vertical Metal Ladders
05 51 33.16 Inclined Metal Ladders
05 51 33.23 Alternating Tread Ladders
05 51 36 Catwalks
05 51 36.13 Metal Catwalks
05 52 00 Metal Railings
05 52 13 Pipe and Tube Railings
05 53 00 Metal Gratings
05 54 00 Metal Floor Plates
05 55 00 Metal Stair Treads and Nosings
05 55 13 Metal Stair Treads
05 55 16 Metal Stair Nosings
05 56 00 Metal Castings
05 58 00 Formed Metal Fabrications
05 58 13 Column Covers
05 58 16 Formed Metal Enclosures
05 58 19 Heating/Cooling Unit Covers
05 59 00 Metal Specialties
05 59 63 Detention Enclosures
05 60 00 Unassigned
05 70 00 DECORATIVE METAL
05 71 00 Decorative Metal Stairs
05 71 13 Fabricated Metal Spiral Stairs

05 73 00 Decorative Metal Railings

05 73 13 Glazed Decorative Metal Railings

05 73 16 Wire Rope Decorative Metal Railings

05 74 00 Decorative Metal Castings

05 75 00 Decorative Formed Metal

05 76 00 Decorative Forged Metal

05 80 00 Unassigned

05 90 00 Unassigned

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

06 00 00 WOOD, PLASTICS, AND COMPOSITES

06 01 00 Maintenance of Wood, Plastics, and Composites

06 01 10 Maintenance of Rough Carpentry

06 01 10.71 Rough Carpentry Rehabilitation

06 01 10.91 Rough Carpentry Restoration

06 01 10.92 Rough Carpentry Preservation

06 01 20 Maintenance of Finish Carpentry

06 01 20.71 Finish Carpentry Rehabilitation

06 01 20.91 Finish Carpentry Restoration

06 01 20.92 Finish Carpentry Preservation

06 01 40 Maintenance of Architectural Woodwork

06 01 40.51 Architectural Woodwork Cleaning

06 01 40.61 Architectural Woodwork Refinishing

06 01 40.91 Architectural Woodwork Restoration

06 01 50 Maintenance of Structural Plastics

06 01 60 Maintenance of Plastic Fabrications

06 01 60.51 Plastic Cleaning

06 01 60.71 Plastic Rehabilitation

06 01 60.91 Plastic Restoration

06 01 60.92 Plastic Preservation

06 01 70 Maintenance of Structural Composites

06 01 80 Maintenance of Composite Assemblies

06 01 80.51 Composite Cleaning

06 01 80.71 Composite Rehabilitation

06 01 80.91 Composite Restoration

06 01 80.92 Composite Preservation

06 05 00 Common Work Results for Wood, Plastics, and Composites

06 05 23 Wood, Plastic, and Composite Fastenings

06 05 73 Wood Treatment

06 05 73.13 Fire-Retardant Wood Treatment

06 05 73.33 Preservative Wood Treatment

06 05 73.91 Long-Term Wood Treatment

06 05 73.93 Eradication of Insects in Wood

06 05 73.96 Antiseptic Treatment of Wood

06 05 83 Shop-Applied Wood Coatings

06 06 00 Schedules for Wood, Plastics, and Composites

06 06 10 Schedules for Rough Carpentry

06 06 10.13 Nailing Schedule

06 06 10.16 Wood Beam Schedule

06 06 10.19 Plywood Shear Wall Schedule

06 06 10.23 Plywood Web Joist Schedule

06 06 10.26 Wood Truss Schedule

- 06 06 20 Schedules for Finish Carpentry
- 06 06 40 Schedules for Architectural Woodwork
- 06 06 50 Schedules for Structural Plastics
- 06 06 60 Schedules for Plastic Fabrications
- 06 06 70 Schedules for Structural Composites
- 06 06 80 Schedules for Composite Assemblies
- 06 08 00 Commissioning of Wood, Plastics, and Composites**
- 06 10 00 ROUGH CARPENTRY**
- 06 10 53 Miscellaneous Rough Carpentry
- 06 10 91 Curved Wood Members
- 06 11 00 Wood Framing**
- 06 11 13 Engineered Wood Products
- 06 11 16 Mechanically Graded Lumber
- 06 12 00 Structural Panels**
- 06 12 13 Cementitious Reinforced Panels
- 06 12 16 Stressed Skin Panels
- 06 13 00 Heavy Timber**
- 06 13 13 Log Construction
- 06 13 13.91 Period Horizontal Log Work
- 06 13 16 Pole Construction
- 06 13 23 Heavy Timber Construction
- 06 13 33 Heavy Timber Pier Construction
- 06 14 00 Treated Wood Foundations**
- 06 15 00 Wood Decking**
- 06 15 13 Wood Floor Decking
- 06 15 13.91 Carvel Planking
- 06 15 16 Wood Roof Decking
- 06 15 19 Timber Decking
- 06 15 23 Laminated Wood Decking
- 06 15 33 Wood Patio Decking
- 06 16 00 Sheathing**
- 06 16 13 Insulating Sheathing
- 06 16 23 Subflooring
- 06 16 26 Underlayment
- 06 16 29 Acoustical Underlayment
- 06 16 33 Wood Board Sheathing
- 06 16 36 Wood Panel Product Sheathing
- 06 16 43 Gypsum Sheathing
- 06 16 53 Moisture-Resistant Sheathing Board
- 06 16 63 Cementitious Sheathing
- 06 17 00 Shop-Fabricated Structural Wood**
- 06 17 13 Laminated Veneer Lumber
- 06 17 23 Parallel Strand Lumber
- 06 17 33 Wood I-Joists
- 06 17 36 Metal-Web Wood Joists
- 06 17 43 Rim Boards
- 06 17 53 Shop-Fabricated Wood Trusses
- 06 18 00 Glued-Laminated Construction**

06 18 13 Glued-Laminated Beams
06 18 16 Glued-Laminated Columns

06 20 00 FINISH CARPENTRY

06 20 13 Exterior Finish Carpentry
06 20 23 Interior Finish Carpentry

06 22 00 Millwork

06 22 13 Standard Pattern Wood Trim

06 25 00 Prefinished Paneling

06 25 13 Prefinished Hardboard Paneling
06 25 16 Prefinished Plywood Paneling

06 26 00 Board Paneling

06 26 13 Profile Board Paneling

06 30 00 Unassigned

06 40 00 ARCHITECTURAL WOODWORK

06 40 13 Exterior Architectural Woodwork
06 40 23 Interior Architectural Woodwork

06 41 00 Architectural Wood Casework

06 41 13 Wood-Veneer-Faced Architectural Cabinets
06 41 16 Plastic -Laminate-Clad Architectural Cabinets

06 42 00 Wood Paneling

06 42 13 Solid Lumber Paneling
06 42 16 Wood-Veneer Paneling
06 42 19 Plastic -Laminate-Faced Wood Paneling

06 43 00 Wood Stairs and Railings

06 43 13 Wood Stairs
06 43 16 Wood Railings

06 44 00 Ornamental Woodwork

06 44 13 Wood Turnings
06 44 16 Wood Pilasters
06 44 19 Wood Grilles
06 44 23 Wood Corbels
06 44 26 Wood Cupolas
06 44 29 Wood Finials
06 44 33 Wood Mantels
06 44 36 Wood Pediment Heads
06 44 39 Wood Posts and Columns

06 46 00 Wood Trim

06 46 13 Wood Door and Window Casings
06 46 16 Wood Aprons
06 46 19 Wood Base and Shoe Moldings
06 46 23 Wood Chair Rails
06 46 26 Wood Cornices
06 46 29 Wood Fascia and Soffits
06 46 33 Wood Stops, Stools, and Sills
06 46 91 Splicing of Wooden Components

06 48 00 Wood Frames

06 48 13 Exterior Wood Door Frames
06 48 16 Interior Wood Door Frames

06 48 19 Ornamental Wood Frames
06 48 23 Stick-Built Wood Windows
06 48 26 Wood-Veneer Frames
06 49 00 Wood Screens and Exterior Wood Shutters

06 49 13 Wood Screens
06 49 16 Exterior Wood Blinds
06 49 19 Exterior Wood Shutters

06 50 00 STRUCTURAL PLASTICS

06 51 00 Structural Plastic Shapes and Plates

06 51 13 Plastic Lumber

06 52 00 Plastic Structural Assemblies

06 53 00 Plastic Decking

06 53 13 Solid Plastic Decking

06 60 00 PLASTIC FABRICATIONS

06 61 00 Simulated Stone Fabrications

06 61 13 Cultured Marble Fabrications

06 61 16 Solid Surfacing Fabrications

06 61 19 Quartz Surfacing Fabrications

06 63 00 Plastic Railings

06 64 00 Plastic Paneling

06 65 00 Plastic Simulated Wood Trim

06 66 00 Custom Ornamental Simulated Woodwork

06 70 00 STRUCTURAL COMPOSITES

06 71 00 Structural Composite Shapes and Plates

06 71 13 Composite Lumber

06 72 00 Composite Structural Assemblies

06 72 13 Composite Joist Assemblies

06 73 00 Composite Decking

06 73 13 Composite Structural Decking

06 80 00 COMPOSITE FABRICATIONS

06 81 00 Composite Railings

06 82 00 Glass-Fiber-Reinforced Plastic

06 90 00 Unassigned

DIVISION 31 – EARTHWORK

31 00 00 EARTHWORK

31 01 00 Maintenance of Earthwork

31 01 10 Maintenance of Clearing

31 01 20 Maintenance of Earth Moving

31 01 40 Maintenance of Shoring and Underpinning

31 01 50 Maintenance of Excavation Support and Protection

31 01 60 Maintenance of Special Foundations and Load Bearing Elements

31 01 62 Maintenance of Driven Piles

31 01 62.61 Driven Pile Repairs

31 01 63 Maintenance of Bored and Augered Piles

31 01 63.61 Bored and Augered Pile Repairs

31 01 70 Maintenance of Tunneling and Mining

31 01 70.61 Tunnel Leak Repairs

31 05 00 Common Work Results for Earthwork

- 31 05 13 Soils for Earthwork
- 31 05 16 Aggregates for Earthwork
- 31 05 19 Geosynthetics for Earthwork
 - 31 05 19.13 Geotextiles for Earthwork
 - 31 05 19.16 Geomembranes for Earthwork
 - 31 05 19.19 Geogrids for Earthwork
- 31 05 23 Cement and Concrete for Earthwork

31 06 00 Schedules for Earthwork

- 31 06 10 Schedules for Clearing
- 31 06 20 Schedules for Earth Moving
 - 31 06 20.13 Trench Dimension Schedule
 - 31 06 20.16 Backfill Material Schedule
- 31 06 40 Schedules for Shoring and Underpinning
- 31 06 50 Schedules for Excavation Support and Protection
- 31 06 60 Schedules for Special Foundations and Load Bearing Elements
 - 31 06 60.13 Driven Pile Schedule
 - 31 06 60.16 Caisson Schedule
- 31 06 70 Schedules for Tunneling and Mining

31 08 00 Commissioning of Earthwork

31 09 00 Geotechnical Instrumentation and Monitoring of Earthwork

- 31 09 13 Geotechnical Instrumentation and Monitoring
 - 31 09 13.13 Groundwater Monitoring During Construction
- 31 09 16 Special Foundation and Load Bearing Elements Instrumentation and Monitoring
 - 31 09 16.13 Foundation Performance Instrumentation
 - 31 09 16.23 Driven Pile Load Tests
 - 31 09 16.26 Bored and Augered Pile Load Tests

31 10 00 SITE CLEARING

31 11 00 Clearing and Grubbing

31 12 00 Selective Clearing

31 13 00 Selective Tree and Shrub Removal and Trimming

- 31 13 13 Selective Tree and Shrub Removal
- 31 13 16 Selective Tree and Shrub Trimming

31 14 00 Earth Stripping and Stockpiling

- 31 14 13 Soil Stripping and Stockpiling
 - 31 14 13.13 Soil Stripping
 - 31 14 13.16 Soil Stockpiling
 - 31 14 13.23 Topsoil Stripping and Stockpiling
- 31 14 16 Sod Stripping and Stockpiling
 - 31 14 16.13 Sod Stripping
 - 31 14 16.16 Sod Stockpiling

31 20 00 EARTH MOVING

31 21 00 Off-Gassing Mitigation

- 31 21 13 Radon Mitigation
 - 31 21 13.13 Radon Venting
- 31 21 16 Methane Mitigation
 - 31 21 16.13 Methane Venting

31 22 00 Grading

- 31 22 13 Rough Grading
- 31 22 16 Fine Grading

- 31 22 16.13 Roadway Subgrade Reshaping
- 31 22 19 Finish Grading
- 31 22 19.13 Spreading and Grading Topsoil
- 31 23 00 Excavation and Fill**
- 31 23 13 Subgrade Preparation
- 31 23 16 Excavation
 - 31 23 16.13 Trenching
 - 31 23 16.16 Structural Excavation for Minor Structures
 - 31 23 16.26 Rock Removal
- 31 23 19 Dewatering
- 31 23 23 Fill
 - 31 23 23.13 Backfill
 - 31 23 23.23 Compaction
 - 31 23 23.33 Flowable Fill
 - 31 23 23.43 Geofoam
- 31 23 33 Trenching and Backfilling
- 31 24 00 Embankments**
- 31 24 13 Roadway Embankments
- 31 24 16 Railway Embankments
- 31 25 00 Erosion and Sedimentation Controls**
- 31 25 13 Erosion Controls
- 31 25 23 Rock Barriers
- 31 25 53 Sedimentation Controls
- 31 25 63 Rock Basins
- 31 30 00 EARTHWORK METHODS**
- 31 31 00 Soil Treatment**
- 31 31 13 Rodent Control
 - 31 31 13.16 Rodent Control Bait Systems
 - 31 31 13.19 Rodent Control Traps
 - 31 31 13.23 Rodent Control Electronic Systems
 - 31 31 13.26 Rodent Control Repellants
- 31 31 16 Termite Control
 - 31 31 16.13 Chemical Termite Control
 - 31 31 16.16 Termite Control Bait Systems
 - 31 31 16.19 Termite Control Barriers
- 31 31 19 Vegetation Control
 - 31 31 19.13 Chemical Vegetation Control
- 31 32 00 Soil Stabilization**
- 31 32 13 Soil Mixing Stabilization
 - 31 32 13.13 Asphalt Soil Stabilization
 - 31 32 13.16 Cement Soil Stabilization
 - 31 32 13.19 Lime Soil Stabilization
 - 31 32 13.23 Fly-Ash Soil Stabilization
 - 31 32 13.26 Lime-Fly-Ash Soil Stabilization
- 31 32 16 Chemical Treatment Soil Stabilization
 - 31 32 16.13 Polymer Emulsion Soil Stabilization
- 31 32 19 Geosynthetic Soil Stabilization and Layer Separation
 - 31 32 19.13 Geogrid Soil Stabilization
 - 31 32 19.16 Geotextile Soil Stabilization
 - 31 32 19.19 Geogrid Layer Separation
 - 31 32 19.23 Geotextile Layer Separation
- 31 32 23 Pressure Grouting Soil Stabilization

31 32 23.13 Cementitious Pressure Grouting Soil Stabilization
31 32 23.16 Chemical Pressure Grouting Soil Stabilization
31 32 33 Shotcrete Soil Slope Stabilization
31 32 36 Soil Nailing
31 32 36.13 Driven Soil Nailing
31 32 36.16 Grouted Soil Nailing
31 32 36.19 Corrosion-Protected Soil Nailing
31 32 36.23 Jet-Grouted Soil Nailing
31 32 36.26 Launched Soil Nailing

31 33 00 Rock Stabilization

31 33 13 Rock Bolting and Grouting
31 33 23 Rock Slope Netting
31 33 26 Rock Slope Wire Mesh
31 33 33 Shotcrete Rock Slope Stabilization
31 33 43 Vegetated Rock Slope Stabilization

31 34 00 Soil Reinforcement

31 34 19 Geosynthetic Soil Reinforcement
31 34 19.13 Geogrid Soil Reinforcement
31 34 19.16 Geotextile Soil Reinforcement
31 34 23 Fiber Soil Reinforcement
31 34 23.13 Geosynthetic Fiber Soil Reinforcement

31 35 00 Slope Protection

31 35 19 Geosynthetic Slope Protection
31 35 19.13 Geogrid Slope Protection
31 35 19.16 Geotextile Slope Protection
31 35 19.19 Slope Protection with Mulch Control Netting
31 35 23 Slope Protection with Slope Paving
31 35 23.13 Cast-In-Place Concrete Slope Paving
31 35 23.16 Precast Concrete Slope Paving
31 35 23.19 Concrete Unit Masonry Slope Paving
31 35 26 Containment Barriers
31 35 26.13 Clay Containment Barriers
31 35 26.16 Geomembrane Containment Barriers
31 35 26.23 Bentonite Slurry Trench

31 36 00 Gabions

31 36 13 Gabion Boxes
31 36 19 Gabion Mattresses
31 36 19.13 Vegetated Gabion Mattresses

31 37 00 Riprap

31 37 13 Machined Riprap
31 37 16 Non-Machined Riprap
31 37 16.13 Rubble-Stone Riprap
31 37 16.16 Concrete Unit Masonry Riprap
31 37 16.19 Sacked Sand-Cement Riprap

31 40 00 SHORING AND UNDERPINNING

31 41 00 Shoring

31 41 13 Timber Shoring
31 41 16 Sheet Piling
31 41 16.13 Steel Sheet Piling
31 41 16.16 Plastic Sheet Piling
31 41 19 Metal Hydraulic Shoring
31 41 19.13 Aluminum Hydraulic Shoring

31 41 23 Pneumatic Shoring

31 41 33 Trench Shielding

31 43 00 Concrete Raising

31 43 13 Pressure Grouting

31 43 13.13 Concrete Pressure Grouting

31 43 13.16 Polyurethane Pressure Grouting

31 43 16 Compaction Grouting

31 43 19 Mechanical Jacking

31 45 00 Vibroflotation and Densification

31 45 13 Vibroflotation

31 45 16 Densification

31 46 00 Needle Beams

31 46 13 Cantilever Needle Beams

31 48 00 Underpinning

31 48 13 Underpinning Piers

31 48 19 Bracket Piers

31 48 23 Jacked Piers

31 48 33 Micropile Underpinning

31 50 00 EXCAVATION SUPPORT AND PROTECTION

31 51 00 Anchor Tiebacks

31 51 13 Excavation Soil Anchors

31 51 16 Excavation Rock Anchors

31 52 00 Cofferdams

31 52 13 Sheet Piling Cofferdams

31 52 16 Timber Cofferdams

31 52 19 Precast Concrete Cofferdams

31 53 00 Cribbing and Walers

31 53 13 Timber Cribwork

31 54 00 Ground Freezing

31 56 00 Slurry Walls

31 56 13 Bentonite Slurry Walls

31 56 13.13 Soil-Bentonite Slurry Walls

31 56 13.16 Cement-Bentonite Slurry Walls

31 56 13.19 Slag-Cement-Bentonite Slurry Walls

31 56 13.23 Soil-Cement-Bentonite Slurry Walls

31 56 13.26 Pozzolan-Bentonite Slurry Walls

31 56 13.29 Organically-Modified Bentonite Slurry Walls

31 56 16 Attipulgite Slurry Walls

31 56 16.13 Soil-Attipulgite Slurry Walls

31 56 19 Slurry-Geomembrane Composite Slurry Walls

31 56 23 Lean Concrete Slurry Walls

31 56 26 Bio-Polymer Trench Drain

31 60 00 SPECIAL FOUNDATIONS AND LOAD-BEARING ELEMENTS

31 62 00 Driven Piles

31 62 13 Concrete Piles

31 62 13.13 Cast- in-Place Concrete Piles

31 62 13.16 Concrete Displacement Piles

31 62 13.19 Precast Concrete Piles

31 62 13.23 Prestressed Concrete Piles

31 62 13.26 Pressure-Injected Footings

31 62 16 Steel Piles

31 62 16.13 Sheet Steel Piles

31 62 16.16 Steel H Piles

31 62 16.19 Unfilled Tubular Steel Piles

31 62 19 Timber Piles

31 62 23 Composite Piles

31 62 23.13 Concrete-Filled Steel Piles

31 62 23.16 Wood and Cast-In-Place Concrete Piles

31 63 00 Bored Piles

31 63 13 Bored and Augered Test Piles

31 63 16 Auger Cast Grout Piles

31 63 19 Bored and Socketed Piles

31 63 19.13 Rock Sockets for Piles

31 63 23 Bored Concrete Piles

31 63 23.13 Bored and Belled Concrete Piles

31 63 23.16 Bored Friction Concrete Piles

31 63 26 Drilled Caissons

31 63 26.13 Fixed End Caisson Piles

31 63 26.16 Concrete Caissons for Marine Construction

31 63 29 Drilled Concrete Piers and Shafts

31 63 29.13 Uncased Drilled Concrete Piers

31 63 29.16 Cased Drilled Concrete Piers

31 63 33 Drilled Micropiles

31 64 00 Caissons

31 64 13 Box Caissons

31 64 16 Excavated Caissons

31 64 19 Floating Caissons

31 64 23 Open Caissons

31 64 26 Pneumatic Caissons

31 64 29 Sheeted Caissons

31 66 00 Special Foundations

31 66 13 Special Piles

31 66 16 Special Foundation Walls

31 66 16.13 Anchored Foundation Walls

31 66 16.23 Concrete Cribbing Foundation Walls

31 66 16.26 Metal Cribbing Foundation Walls

31 66 16.33 Manufactured Modular Foundation Walls

31 66 16.43 Mechanically Stabilized Earth Foundation Walls

31 66 16.46 Slurry Diaphragm Foundation Walls

31 66 16.53 Soldier-Beam Foundation Walls

31 66 16.56 Permanently-Anchored Soldier-Beam Foundation Walls

31 66 19 Refrigerated Foundations

31 68 00 Foundation Anchors

31 68 13 Rock Foundation Anchors

31 70 00 TUNNELING AND MINING

31 71 00 Tunnel Excavation

31 71 13 Shield Driving Tunnel Excavation

31 71 16 Tunnel Excavation by Drilling and Blasting

31 71 19 Tunnel Excavation by Tunnel Boring Machine

31 72 00 Tunnel Support Systems

31 72 13 Rock Reinforcement and Initial Support

31 72 16 Steel Ribs and Lagging

31 73 00 Tunnel Grouting

31 73 13 Cement Tunnel Grouting

31 73 16 Chemical Tunnel Grouting

31 74 00 Tunnel Construction

31 74 13 Cast-in-Place Concrete Tunnel Lining

31 74 16 Precast Concrete Tunnel Lining

31 74 19 Shotcrete Tunnel Lining

31 75 00 Shaft Construction

31 75 13 Cast-in-Place Concrete Shaft Lining

31 75 16 Precast Concrete Shaft Lining

31 77 00 Submersible Tube Tunnels

31 77 13 Trench Excavation for Submerged Tunnels

31 77 16 Tube Construction (Outfitting Tunnel Tubes)

31 77 19 Floating and Laying Submerged Tunnels

31 80 00 Unassigned

31 90 00 Unassigned

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