

**SECTION 01090**

**DEFINITIONS AND STANDARDS**

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## SECTION 01090

### DEFINITIONS AND STANDARDS

#### PART 1 - GENERAL

##### 1.01 DESCRIPTION OF REQUIREMENTS

General: This section specifies procedural and administrative requirements for compliance with governing regulations and the codes and standards imposed upon the work. These requirements include the obtaining of permits, licenses, inspections, releases, and similar documentation, as well as payments, statements and similar requirements associated with regulations, codes, and standards.

**“Regulations”** is defined to include laws, statutes, ordinances, and lawful orders issued by governing authorities, as well as those rules, conventions, and agreements within the construction industry which effectively control the performance of the work regardless of whether they are lawfully imposed by governing authority or not.

Governing Regulations: Refer to General and Special Provisions for requirements related to compliance with governing regulations.

##### 1.02 DEFINITIONS

General Explanation: A substantial amount of specification language consists of definitions for terms found in other contract documents, including drawings. (Drawings must be recognized as diagrammatic in nature and not completely descriptive of requirements indicated thereon). Certain terms used in contract documents are defined in this article. Definitions and explanations contained in this section are not necessarily either complete or exclusive, but are general for the work to extent that they are not stated more explicitly in another element of the contract documents.

General Requirements: The provisions or requirements of Division-1 sections apply to entire work of Contract and, where so indicated, to other elements which are included in project.

Indicated: The term "Indicated" is a cross-reference to graphic representations, notes, or schedules on drawings, to other paragraphs or schedules in the specifications, and to similar means of recording requirements in contract documents. Where terms such as "shown", "noted", "scheduled", and "specified" are used lieu of "indicate", it is for purpose of helping reader locate cross-reference, and no limitation of location is intended except as specifically noted.

Directed, Requested, etc.: Where not otherwise explained, terms such as "directed", "requested", "authorized", "selected", "approved", "required", "accepted", and "permitted", mean "directed by Owner/Engineer", requested by Owner/Engineer's, and similar phrases. However, no such implied meaning will be interpreted to extend the Owner/Engineer's responsibility into Contractor's area of construction supervision.

Approve: Where used in conjunction with Owner's/Engineer's response to submittals, requests, applications, inquiries, reports, and claims by Contractor, the meaning of term "approved" will be held to limitations of Owner's/Engineer's responsibilities and duties as specified the contract. In no case will "approval" by Owner/Engineer be interpreted as a release of Contractor from responsibilities to fulfill requirements of contract documents.

Project Site: The term "project site" is defined as the space available to the Contractor for performance of the work, either exclusively or in conjunction with others performing other work as part of the project. The extent of the project site is shown on drawings, and may or may not be identical with the description of land upon which project is to be built.

Furnish: Except as otherwise defined in greater detail, term "furnish" is used to mean supply and deliver to project site, ready for unloading, unpacking, assembly, installation, etc., as applicable in each instance.

Install: Except as otherwise defined in greater detail, term “install” is used to describe operations at project site including unloading, unpacking, assembly, erection, planning, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations, as applicable in each instance.

Provide: Except as otherwise defined in greater detail, term “provide” means furnish and install, complete and ready for intended use, as applicable in each instance.

Installer: The term “installer” is defined as the entity (person or firm) engaged by Contractor or its subcontractor or sub- subcontractor for performance of a particular unit of work at the project site, including installation, erection, application and similar required operations. It is a general requirement that such entities (Installers) be expert in operations they are engaged to perform.

Testing Laboratory: The term “testing laboratory” is defined as an independent entity engaged to perform specific inspections or tests of the work, either at project site or elsewhere; and to report, and (if required) interpret results of those inspections or tests.

Substantial Completion: The term “substantial completion” is defined as a stage of completion sufficient for the Owner to have beneficial use of the Work of the Contract for the purpose intended, less only minor corrections and repairs that can be performed while the Owner has occupied the work site and without undue annoyance to personnel. It shall also include major final cleaning required under the contract, removal of all surplus equipment and material not required for completion or remaining work, and the placement of all remaining materials and equipment in convenient locations as approved by the Owner.

### **1.03 FORMAT AND SPECIFICATION CONTENT EXPLANATION**

Specification Production: None of the following explanations will be interpreted so as to modify substance of the contract requirements. Portions of these specifications have been produced by Owner’s/Engineer’s standard methods of editing master specifications, and may contain minor deviations from traditional writing formats. Such deviations are a natural result of this production technique, and no other meaning shall be implied or permitted.

Section Numbering: Section number is used to facilitate cross-references in the contract documents. Sections are placed in Project Manual in numeric sequence; however, numbering sequence is not complete, and listing of sections at beginning of Project Manual must be consulted to determine numbers and names of specification sections in contract documents.

Page Numbering: Pages are numbered independently for each section, and are recorded in listing of sections (Index or Table of Contents) in the Project Manual. The section number is shown together with the page number of the bottom of each page, to facilitate the location of text in the Project Manual.

Project Identification: Project name (either complete or abbreviated) is recorded at top of each page of specifications to minimize possible misuse of specifications, or confusion with other project specifications.

Specification Content: Because of methods by which this project specification has been produced, certain general characteristics of content, and conventions in use of language are explained as follows:

- A. Specifying Methods: The techniques or methods of specifying to record requirements varies throughout text, and may include “prescriptive”, “open generic-descriptive”, “compliance with standards”, “performance”, “proprietary”, or a combination of these. The method used for specifying one unit of work has no bearing on requirements for another unit of work.

- B. Overlapping and Conflicting Requirements: Where compliance with two or more industry standards or sets of requirements is specified, and overlapping of those different standards or requirements establishes different or conflicting minimums or levels of quality, the most stringent requirement is intended and will be enforced, unless specifically detailed language written into the contract documents clearly indicates that a less stringent requirement is to be fulfilled. Refer apparently-equal-but- different requirements, and uncertainties as to which level of quality is more stringent, to Owner/Engineer for a decision before proceeding.
- C. Contractor's Options: Except for overlapping or conflicting requirements, where more than one set of requirements are specified for a particular unit of work, option is intended to be contractor's regardless of whether or not it is specifically indicated as such.
- D. Minimum Quality/Quantity: In every instance, the quality level or quantity shown or specified is intended to be the minimum for the work to be performed or provided. Except as otherwise specifically indicated, the actual work may either comply exactly with that minimum (within specified tolerances), or may exceed that minimum within reasonable limits. In complying with requirements, indicated numeric values are either minimums or maximums as noted or as appropriate for context of requirements. Refer instances of uncertainty to Owner/Engineer for decisions before proceeding.
- E. Specialists; Assignments: In certain instances, specification text requires (or implies) that specific work is to be assigned to specialists or expert entities, who must be engaged for the performance of that work. Such assignments shall be recognized as special requirements over which the Contractor has not choice or option. These requirements should not be interpreted so as to conflict within the enforcement of building codes and similar regulations governing the work; they are also not intended to interfere with local union jurisdiction settlements and similar conventions.
- Such assignments are intended to establish which party or entity involved in a specific unit of work is recognized as "expert" for the indicated construction processes or operations. Nevertheless, the final responsibility for fulfillment of the entire set of contract requirements remains with the Contractor.
- F. Trades: Except as otherwise indicated, the use of titles such as "carpentry" in specification text, implies neither that the work must be performed by an accredited or unionized tradesperson of corresponding generic name (such as "carpenter"), nor that specified requirements apply exclusively to work by tradespersons of that corresponding generic name.
- G. Abbreviations: The language of specifications and other contract documents is of the abbreviated type in certain instances, and implies words and meanings which will be appropriately interpreted. Actual word abbreviations of self-explanatory nature have been included in texts. Specific abbreviations have been established, principally for lengthy technical terminology and primarily in conjunction with coordination of specification requirements with notations on drawings and in schedules. These are frequently defined in notations on drawings and in schedules. These are frequently defined in section at first instance of use. Trade association and titles of general standards are frequently abbreviated. Singular words will be interpreted as plural and plural words will be interpreted as singular where applicable and where full context of the contract documents so indicates.

#### **1.04 DRAWING SYMBOLS**

General: Except as otherwise indicated, graphic symbols used on drawings are those symbols recognized in the construction industry for purposes indicated.

## 1.05 INDUSTRY STANDARDS

General Applicability of Standards: Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, applicable standards of the construction industry have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies were bound herewith. Refer to other contract documents for resolution of overlapping and conflicting requirements which result from the application of several different industry standards to the same unit of work. Refer to individual unit of work sections for indications of which specialized codes and standards the Contractor must keep at the project site, available for reference.

- A. Referenced Standards: (referenced directly in contract documents or by governing regulations) have precedence over non-referenced standards which are recognized in industry for applicability to work.
- B. Non-referenced Standards: are hereby defined to have no particular applicability to the work, except as a general requirement of whether the work complies with standards recognized in the construction industry.
- C. Non-referenced Standards: recognized in the construction industry are hereby defined, except as otherwise limited in contract documents, to have direct applicability to the work, and will be so enforced for performance of the work. The decision as to whether an industry code or standard is applicable to the work, or as to which of several standards are applicable, is the sole responsibility of the Owner/ Engineer.

Publication Dates: Except as otherwise indicated, where compliance with an industry standard is required, comply with standard in effect as of date of contract documents.

- A. Undated Standards: At the request of the Owner/Engineer, Contractor or governing authority, submit a change order proposal where an applicable industry code or standard has been revised and reissued after the date of the contract documents and before the performance of the work affected. The Owner/Engineer will decide whether to issue the change order to proceed with the updated standard.

Copies of Standards: The contract standards require that each entity performing work be experienced in that part of the work being performed. Each entity is also required to be familiar with recognized industry standards applicable to that part of the work. Copies of applicable standards are not bound with the contract documents.

Where copies of standards are needed for proper performance of the work, the Contractor is required to obtain such copies directly from the publication source.

Although certain copies of standards needed for enforcement of the requirements may be required submittals, the Owner/Engineer reserves the right to require the Contractor to submit additional copies of these standards as necessary for enforcement of the requirements.

Abbreviation and Names: Where acronyms or abbreviations are used in the specifications or other contract documents, they are defined to mean the industry recognized name of the trade association, standards generating organization, governing authority or other entity applicable to context of text provision. Refer to the "Encyclopedia of Associations", published by Gale Research Company available in most libraries.

## 1.06 GOVERNING REGULATIONS/AUTHORITIES

General: The procedure followed by Owner/Engineer has been to contact governing authorities where necessary to obtain information needed for the purpose of preparing contract documents, recognizing that such information may or may not be of significance in relation to Contractor's responsibilities for performing the work. Contact governing authorities directly for necessary information and decisions having a bearing on performance of the work. Contact governing authorities directly for necessary information and decisions having a bearing on performance of the work.

- A. Copies of Correspondence: During the preparation of the contract documents, the Architects/Engineer maintained a file of correspondence with governing authorities. This file is available at the Owner's/Engineer's office for reference by bidders/contractors. The Owner/Engineer will provide, if requested, copies of such applicable correspondence at the cost of reproduction.
- B. Attached Copies: Certain items of correspondence (but not by way of limitation) are believed to include information which is generally applicable to the performance of the work, and these items have been reproduced and included in the Project Manual at the end of this section, as follows:

Copies of Regulations: Obtain copies of the following regulations and retain at the project site during the Contract Time, available for reference by parties at the site who have a reasonable need for such reference.

## 1.07 SCHEDULE OF REFERENCES

AASHTO  
American Association of State Highway and Transportation Officials  
444 North Capitol Street, N.W.  
Washington, DC 20001

ACI  
American Concrete Institute  
Box 19150  
Redford Station  
Detroit, MI 48219

AI  
Asphalt Institute  
Asphalt Institute Building  
College Park, MD 20740

AIA  
American Institute of Architects  
1735 New York Avenue, N.W.  
Washington, DC 20006

AITC  
American Institute of Timber Construction  
333 W. Hampden Avenue  
Englewood, CO 80110

AISC  
American Institute of Steel Construction  
400 North Michigan Avenue, Eighth Floor  
Chicago, IL 60611

AISI  
American Iron and Steel Institute  
1000 16<sup>th</sup> Street, N.W.  
Washington, DC 20036

ANSI  
American National Standards Institute  
1430 Broadway  
New York, NY 10018

APA  
American Plywood Association  
Box 11700  
Tacoma, WA 98411

ASHRAE  
American Society of Heating, Refrigerating and Air Conditioning Engineers  
1791 Tullie Circle, N.E.  
Atlanta, GA 30329

ASME  
American Society of Mechanical Engineers  
345 East 47<sup>th</sup> Street  
New York, NY 10017

ASTM  
American Society for Testing and Materials  
1916 Race Street  
Philadelphia, PA 19103

AWWA  
American Water Works Association  
6666 West Quincy Avenue  
Denver, CO 80235

AWPA  
American Wood-Preservers' Association  
7735 Old Georgetown Road  
Bethesda, MD 20014

AWS  
American Welding Society  
550 LeJeune Road  
Miami, FL 33135

CLFMI  
Chain Link Fence Manufacturers Institute  
1001 Connecticut Avenue, N.W.  
Washington, DC 20036

CRSI  
Concrete Reinforcing Steel Institute  
933 Plum Grove Road  
Schaumburg, IL 60195

EJCDC  
Engineers' Joint Contract Documents Committee  
American Consulting Engineers Council  
1050 15<sup>th</sup> Street, N.W.  
Washington, DC 20005

FS  
Federal Specification  
General Services Administration  
Specifications and Consumer Information Distribution Section (WFSIS)  
Washington Navy Yard, Bldg. 197  
Washington, DC 20407

GA  
Gypsum Association  
1063 Orrington Avenue  
Evanston, IL 60201

MIL  
Military Specification  
Naval Publications and Forms Center  
5802 Tabor Avenue  
Philadelphia, PA 19120

NAAMM  
National Association of Architectural Metal Manufacturers  
221 North LaSalle Street  
Chicago, IL 60601

NEMA  
National Electrical Manufacturers' Association  
2101 L Street, N.W.  
Washington, DC 20037

NFPA  
National Fire Protection Association  
1619 Massachusetts Avenue, N.W.  
Washington, DC 20036

NSWMA  
National Solid Wastes Management Association  
1120 Connecticut Avenue, N.W.  
Washington, DC 20036

PCA  
Portland Cement Association  
5420 Old Orchard Road  
Skokie, IL 60077

PCI  
Prestressed Concrete Institute  
201 North Wacker Drive  
Chicago, IL 60606

PS  
Product Standard  
U.S. Department of Commerce  
Washington, DC 20203

SDI  
Steel Deck Institute  
Box 3812  
St. Louis, MO 63122

SJI  
Steel Joist Institute

1703 Parham Road, Suite 204  
Richmond, VA 23229

SSPC  
Steel Structures Painting Council  
4400 Fifth Avenue  
Pittsburgh, PA 15213

UL  
Underwriters' Laboratories, Inc.  
333 Pfingston Road  
Northbrook, IL 60062

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