

**SECTION 1.01**  
**DEFINITION OF TERMS AND**  
**PERMISSIBLE ABBREVIATIONS**

**1.01.01--Definitions:** In these specifications, unless the context otherwise requires, words of the masculine gender include the feminine and the neuter, and, when the sense so indicates, words of the neuter gender may refer to any gender.

**ADDENDUM:** Contract revisions developed after bid advertisement and before the opening of bid proposals.

**AIR OPERATIONS AREA:** Any paved or unpaved area of the airport used or intended to be used for the unobstructed movement of aircraft. These movements shall include landings, takeoffs, and surface maneuverings.

**AWARD:** The Department's acceptance in writing of the proposal of the lowest responsible bidder for the work, subject to the execution and approval of a satisfactory contract therefore and a bond to secure the performance thereof, and to such other conditions as may be specified by the Department or required by law.

**BID ADVERTISEMENT:** A public announcement inviting bids for work to be performed or materials to be furnished.

**CALENDAR DAY:** Every day shown on the calendar, Sundays and holidays included.

**CERTIFICATE OF COMPLIANCE:** The formal document issued at the completion of a project by the State Building Inspector's representative. The document is often referred to informally as a "Certificate of Occupancy," "C.O.C," or "C.O."

**CHANNEL:** A channel shall be interpreted to mean a natural or artificial watercourse having an average width at the bottom, after excavation, of 4 feet or more.

**COMMISSIONER:** State of Connecticut Transportation Commissioner acting directly or through a duly authorized representative.

**CONSTRUCTION ORDER:** A written order signed by the Engineer to perform work stipulated therein at the price or upon the basis of payment set forth therein.

**CONTRACT:** The agreement covering the performance of the work and the furnishing of materials required for the construction of the Project. The Contract shall be deemed to include the "Plans," "Specifications" (i.e., the edition of the Department's "Standard Specifications for Roads, Bridges and Incidental Construction" which is in effect on the date of the Bid Advertisement), "Construction Orders," and such other provisions as may be incorporated into the agreement, in addition to the contents of the bound contract containing the schedule of prices, signature sheet, addenda, special provisions, required provisions both federal and state, supplemental specifications, labor and wage schedules and other such material.

**CONTRACTOR:** Party of the second part to the Contract, acting directly or through its agents or employees.

**DEPARTMENT:** Connecticut Department of Transportation.

**DRAINAGE DITCH:** A drainage ditch shall be interpreted to mean an unpaved, artificially constructed open depression having an average width of less than 4 feet at the bottom, after excavation, constructed for the purpose of carrying off surface water.

**ENGINEER:** Transportation Commissioner or Deputy Transportation Commissioner, acting directly or through a duly authorized representative.

**EXECUTION OF CONTRACT:** The date of execution of the Contract by the Department is the date on which the Department's authorized signatory signs the Contract on behalf of the Department.

**EQUAL:** A material, device, type of equipment, or method other than what is specified in the Contract, which is a recognized equivalent in substance and function for that specified thing, taking into account quality, workmanship, economy of operation, durability, and suitability for purposes intended, provided that the proposed equivalent would not require or constitute a change in Contract work.

**FIXED COSTS:** Any necessary labor, material and equipment costs directly incurred for the item or items under consideration, which remain constant regardless of the quantity of the work done.

**HIGHWAY:** The whole right of way which is reserved for or secured by the Department for use in constructing the roadway and its appurtenances.

**INSPECTOR:** An authorized representative of the Engineer, assigned to make inspections of the work performed and materials furnished by the Contractor.

**LABORATORY:** The official testing laboratory of the Department.

**MAJOR AND MINOR ITEMS:** The original Contract item of greatest cost, computed at the original Contract price and quantity, and such other original Contract items next in sequence of lower cost, computed at original Contract price and quantity, necessary to equal a total cost at the original prices and quantities of not less than 60 percent of the original Contract cost shall be considered to be a major item or major items. All other original items shall be considered to be minor items.

**MATERIALS:** Any substances specified for use in the construction of the Project including appurtenances of products that are substantially shaped, cut, worked, mixed, finished, refined or otherwise fabricated, processed, or installed to form a part of the work.

**PAVEMENT STRUCTURE:** The combination of subbase, base course and surface course placed on subgrade to support the traffic load and distribute it to the roadbed.

**PLANS:** All drawings or reproductions of drawings supplied by the Department to the Contractor pertaining to the construction or details of the Project.

- a) *Standard Sheets* - Standardized plans containing details approved by the Department and the FHWA, for construction of a given type on any project, included in contracts on an as-needed basis.

**PROJECT:** All work included under one contract notwithstanding the occasional use of multiple project numbers by the Department.

**PROJECT SITE:** The space available to the Contractor, under the Contract, for performing construction activities. The extent of the Project site is as indicated on the plans or elsewhere in the Contract.

**RECLAIMED CONCRETE AGGREGATE:** Reclaimed waste consisting of crushed and graded concrete removed from pavements, structures, or buildings. Metal may be acceptable only where it is contained as reinforcement within small fragments of concrete; e.g., metal projecting from concrete fragments would be unacceptable. All such material trucked from beyond the limits of the Project must be accompanied by a materials certificate and certified test report indicating that the material is environmentally acceptable and structurally sound in accordance with Section 1.06.07, unless the source of the material is a Department Project acceptable to the Engineer.

**RECLAIMED MISCELLANEOUS AGGREGATE:** Glass-free and clinker-free reclaimed waste, which has been crushed, graded and blended, as specified, with natural crushed stone or gravel. Metal may be acceptable only where it is contained as reinforcement within small fragments of concrete; e.g., metal projecting from concrete fragments would be unacceptable. All such material trucked from beyond the limits of the Project must be accompanied by a materials certificate and certified test report indicating that the material is environmentally acceptable and structurally sound in accordance with Section 1.06.07, unless the source of the material is a Department Project acceptable to the Engineer.

**RECLAIMED WASTE:** Debris from the demolition of buildings, structures, and pavements; residue from incineration and recycled glass. Acceptable material shall include concrete, bituminous concrete, glass, ceramics, brick, pavement subbase and base courses, and clinker from resource recovery plants. Metal may be acceptable only where it is contained within large fragments of concrete. Reclaimed waste trucked from beyond the limits of the Project must be accompanied by a materials certificate and certified test report indicating that the waste is environmentally acceptable and structurally sound in accordance with Section 1.06.07, unless the source of the material is a Department Project acceptable to the Engineer.

**ROADWAY:** That portion of the highway within the limits of construction.

**SHOP DRAWINGS:** Drawings, including proposed details, diagrams, schedules, procedures and other supporting data, prepared by a Contractor to supplement the Contract documents, showing all information necessary for fabrication of items for which some specific design or detail appears in the Contract.

**SHOULDER:** The portion of the roadway contiguous with the traveled way for accommodation of stopped vehicles, for emergency use and for lateral support of base and surface course.

**SPECIFICATIONS:** The provisions and requirements for the performance of the Contract.

A. *Standard Specifications* -- A book of specifications approved by the Department for general application and repetitive use.

B. *Supplemental Specifications* -- Approved additions to and revisions of the Standard Specifications.

C. *Special Provisions* -- Revisions of the Standard and Supplemental Specifications applicable to an individual project.

**STATE:** State of Connecticut.

**SUBCONTRACTOR:** Any individual, firm, partnership or corporation to which the Contractor sublets, with the approval of the Commissioner, any part or parts of the Project covered by the Contract.

**SUBSTITUTE:** A replacement for a specified material, device, type of equipment, or method, which is sufficiently different in substance and function, quality, or workmanship to constitute a change in the Contract work.

**SUBSTRUCTURE:** All of that part of the bridge below the bearings of simple and continuous spans, skewbacks of arches and tops of footings of rigid frames, including backwalls, wingwalls and any protective railings mounted on the wingwalls.

**SUB-SUBCONTRACTOR:** Any individual, firm, partnership or corporation to which a subcontractor sublets, with the approval of the Commissioner, any part or parts of the Project covered by the Contract.

**SUPERSTRUCTURE:** The entire bridge except the substructure.

**UTILITY:** Any public service company and the plant of such a company or similar facilities. Such companies may consist of, but not be limited to, companies selling or controlling the sale, distribution or use of water, gas, electricity, communications systems, sewers and railroad lines. Such facilities may consist of, but not be limited to, wires, cables, ducts, pipes, manholes, transformers, poles, towers and tracks.

**WORKING DRAWINGS:** Drawings, calculations, procedures and other supporting data prepared by a Contractor documenting the Contractor's proposed design, details, materials, construction methods and equipment for any construction for which no specific design or detail appears in the Contract.

**1.01.02--Abbreviations, Publications and Standards:** Whenever one of the following abbreviations is used in the Contract, its meaning shall be interpreted as follows:

AA -- Aluminum Association

AAA -- Aluminum Alloy Association

AABC - Associated Air Balance Council

AAMA - American Architectural Manufacturers Association

AAPA -- American Association of Port Authorities

AASHTO -- American Association of State Highway and Transportation Officials

ABMA - American Bearing Manufacturers Association

ACGIH - American Council of Government Industrial Hygienists

ACI -- American Concrete Institute

ADA -- Americans with Disabilities Act

AFPA -- American Forest and Paper Association

AGA - American Gas Association

AGC -- Associated General Contractors of America

AHA - American Hardboard Association

AHAM - Association of Home Appliance Manufacturers

AIA -- The American Institute of Architects

AIEE -- American Institute of Electrical Engineers

AISC -- American Institute of Steel Construction

AISI -- American Iron and Steel Institute

AITC -- American Institute of Timber Construction

ALI - Associated Laboratories, Inc.

A.L.I. - Automotive Lift Institute

ALSC - American Lumber Standard Committee

AMCA - Air Movement and Control Association International, Inc.

ANLA -- American Nursery and Landscape Association

API -- American Petroleum Institute

ANSI -- American National Standards Institute

AOAC -- AOAC International

AOSA -- Association of Official Seed Analysts

APA -- The Engineered Wood Association

AREMA - American Railway Engineering and Maintenance-of-Way Association

ARI - Air Conditioning & Refrigeration Institute

ARTBA -- American Road and Transportation Builders Association

ASA - Acoustical Society of America

ASC - Adhesive and Sealant Council

ASCE - American Society of Civil Engineers

ASHRAE -- American Society of Heating, Refrigerating and Air Conditioning Engineers

ASME -- American Society of Mechanical Engineers

ASSE -- American Society of Sanitary Engineering

ASTM -- Wherever reference is made to ASTM in the Contract, it refers by number, letter, or both, to the latest standard or tentative standard of the American Society for Testing and Materials as to materials specifications or methods of testing, whichever the case may be.

ATA -- American Transit Association

ATSSA -- American Traffic Safety Services Association

AWG -- American Wire Gauge

AWI -- Architectural Woodwork Institute

AWPA -- American Wood-Preservers Association

AWPI -- American Wood Preservers Institute

AWS -- Where reference is made to AWS in the Contract, it refers by number, letter, or both, to the latest standard or tentative standard of the American Welding Society as to materials specifications, methods of testing, procedures, inspection or other specifications pertaining to any or all phases of welding, whichever may apply.

AWWA -- American Water Works Association

AZI -- American Zinc Institute

BHMA - Builders Hardware Manufacturers Association

BOCA -- Building Officials and Code Administrators International

CBM - Certified Ballast Manufacturers Association

CCRL -- Cement and Concrete Reference Library

CDOT -- Connecticut Department of Transportation

CFR -- Code of Federal Regulations

CGS -- Connecticut General Statutes

CISCA - Ceilings and Interior Systems Construction Association

CISPI -- Cast Iron Soil Pipe Institute

CLFMI - Chain Link Fence Manufacturers Institute

CPI -- Clay Pipe Institute

CRI - Carpet and Rug Institute (The)

CRSI -- Concrete Reinforcing Steel Institute

CS -- Commercial Standard

CSSB - Cedar Shake & Shingle Bureau

CSI -- Construction Specifications Institute

CTI - Cooling Tower Institute

DASMA - Door and Access Systems Manufacturers Association, International

DEP -- Connecticut Department of Environmental Protection

DFPA -- Douglas Fir Plywood Association

DHI - Door and Hardware Institute

DOD -- Department of Defense

DPUC -- Department of Public Utility Control

EIA -- Electronic Industries Association

EPA -- Environmental Protection Agency

FAA -- Federal Aviation Administration, U.S. Department of Transportation

FCC -- Federal Communications Commission

FCICA - Floor Covering Installation Contractors Association

FHWA -- Federal Highway Administration, U.S. Department of Transportation

FM - Factory Mutual System

FRA -- Federal Railway Administration, U.S. Department of Transportation

FS -- Wherever reference is made to FS in the contract, it refers by number, letter, or both, to the latest standard or tentative standard of the Federal Specification Unit, General Services Administration, Federal Supply Service, as to materials, specifications, or methods of testing, whichever the case may be.

FTA - Federal Transit Administration

HMA -- Hot Mix Asphalt or Bituminous Concrete

GA - Gypsum Association

GANA - Glass Association of North America

GSA -- General Services Administration

HPMA - Hardwood Plywood Manufacturers Association

ICBO -- International Conference of Building Officials

ICEA -- Insulated Cable Engineers Association

IEEE -- Institute of Electrical and Electronics Engineers

IESNA -- Illuminating Engineering Society of North America

IGCC - Insulating Glass Certification Council

IMSA -- International Municipal Signal Association

IRI - HSB Industrial Risk Insurers

ITE -- Institute of Traffic Engineers

KCMA - Kitchen Cabinet Manufacturers Association

LMA - Laminating Materials Association

LPI - Lightning Protection Institute

MBMA -- Metal Building Manufacturers Association

MESA -- Mining Enforcement and Safety Administration

MIL -- Military Standardization Documents, U. S. Department of Defense

MMA - Monorail Manufacturers Association

MS -- Military Specifications

MSS - Manufacturers Standardization Society of the Valve and Fittings Industry, Inc.

MUTCD -- Manual on Uniform Traffic Control Devices

NAAMM - National Association of Architectural Metal Manufacturers (The)

NAIMA - North American Insulation Manufacturers Association

NBFU -- National Board of Fire Underwriters

NBS -- National Bureau of Standards

NC -- National Course

NCHRP -- National Cooperative Highway Research Program

NCMA -- National Concrete Masonry Association

NCPI -- National Clay Pipe Institute

NCPRC -- National Clay Pipe Research Corporation

NEBB - Natural Environmental Balancing Bureau

NEC -- National Electrical Code

NECA - National Electrical Contractors Association

NEMA -- National Electrical Manufacturers Association

NEPCOAT -- North East Protective Coatings Committee

NESC -- National Electrical Safety Code

NETA - International Electrical Testing Association

NICET - National Institute for Certification in Engineering Technologies

NFPA -- National Fire Protection Association

NFS -- NFS International

NIOSH - National Institute of Occupational Safety and Health

NIST -- National Institute of Standards and Technology

NLMA -- National Lumber Manufacturers Association

NOAA -- National Oceanic and Atmospheric Administration

NRCA - National Roofing Contractors Association

NTMA - National Terrazzo and Mosaic Association (The)

NWWDA - National Wood Window and Door Association

OEO -- Office of Equal Opportunity

OSHA -- Occupational Safety and Health Administration

PCA -- Portland Cement Association

PCI -- Precast/Prestressed Concrete Institute

PLP -- Plastic Laminate Producers

PS -- Product Standard of NBS, U. S. Department of Commerce



PTI -- Post-Tensioning Institute

RLMI -- Reflector and Lamp Manufacturers' Institute

RMA -- Rubber Manufacturers Association

SAE -- SAE International

SAWP -- Society of American Wood Preservers

SDI - Steel Deck Institute

S.D.I. - Steel Door Institute

SFPA -- Southern Forest Products Association

SJI - Steel Joint Institute

SMACNA - Sheet Metal and Air Conditioning Contractors' National Association

SPIB -- Southern Pine Inspection Bureau

SSPC -- Where reference is made to SSPC in the Contract, it refers by number, letter, or both, to the latest standard or tentative standard specification of The Society for Protective Coatings, Formerly the Steel Structures Painting Council, as to materials specifications, methods of testing, systems, procedures, inspection or other specification pertaining to any or all phases of cleaning or painting, whichever may apply.

TCA -- Tile Council of America

TPI - Truss Plate Institute

UBC -- Uniform Building Code

UL -- Underwriters Laboratories, Inc.

UPC -- Uniform Plumbing Code

USDA -- United States Department of Agriculture

USS -- United States Standard

VOC -- Volatile Synthetic Organic Chemicals

WCLIB -- West Coast Lumber Inspection Bureau

WCLA -- West Coast Lumberman's Association

WWPA -- Western Wood Products Association

**1.01.03--Abbreviations and Terms:** Abbreviations and terms used in the Contract are in lieu of and are to be construed the same as the respective expressions represented. Some of these abbreviations and terms but not necessarily all are:

ABS -- acrylonitrile butadiene styrene

AC -- alternating current

ACCM Pipe or ACCMP -- Asphalt-Coated Corrugated Metal Pipe

b & b -- balled and burlapped

bbl -- barrel

BCLC -- bituminous concrete lip curbing

BCPC - Bituminous Concrete Park Curbing

Bit. -- bituminous

Bit. Conc. -- bituminous concrete

Bit. Mac. -- bituminous macadam

CB -- catch basin

CCM Pipe or CCMP -- coated corrugated metal pipe

CICU -- controller interface communications unit

CLLCU -- closed loop local coordination unit

CLMU -- closed loop master unit

Conc. -- concrete

CPE Pipe or CPEP -- corrugated plastic or polyethylene pipe

CPS -- centipoise second

cwt -- hundredweight or 100 pounds

DC -- direct current

dist. -- distillation

EW -- endwall

exc -- excavation

fi -- jacking tension

f c -- specified minimum compressive strength at a specified age

f ci -- required strength at time of transfer

g -- gram

ga -- gauge or gage

HMA -- hot mix asphalt or bituminous concrete

JMF -- job mix formula

kip -- 1000 pounds

ksf -- kips per square foot

LED -- light-emitting diode

L.S. -- lump sum

mbf -- 1000 foot board measure

MBR -- metal beam rail

Mgal -- 1000 gallons

MH -- manhole

MPT -- Maintenance and Protection of Traffic

Pavt.-- pavement

PCBC -- precast concrete barrier curb

PE -- polyethylene

Perf. ACCM Pipe or Perf. ACCMP -- Perforated Asphalt-Coated Corrugated Metal Pipe

Perf. CCM Pipe or Perf. CCMP -- Perforated Coated Corrugated Metal Pipe

Perf. CPE Pipe or Perf. CPEP -- Perforated Corrugated Plastic or Polyethylene Pipe

pfmd. -- preformed

PROM -- programmable read only memory

psf -- pounds per square foot

psi -- pounds per square inch

p/s -- prestressed

PVC -- polyvinyl chloride

RAP -- reclaimed asphalt pavement

RC -- Reinforced Concrete

RCCE -- Reinforced Concrete Culvert End

RC Pipe or RCP -- Reinforced Concrete Pipe

SD -- system detector

sec. -- second

sol. -- soluble

sp. gr. -- specific gravity

sp. visc. -- specific viscosity

std. -- standard

surf. -- surface

THHN -- heat resistant thermoplastic, insulated nylon jacket, 90 degrees Centigrade, 600 volt building wire

THWN -- moisture and heat resistant thermoplastic, insulated nylon jacket, 75 degrees Centigrade, 600 volt building wire

tsf -- tons per square foot

U'drain -- Underdrain

UTCS -- urban traffic control system

UV -- ultra-violet or ultra violet light

VT -- vitrified tile

W -- watt