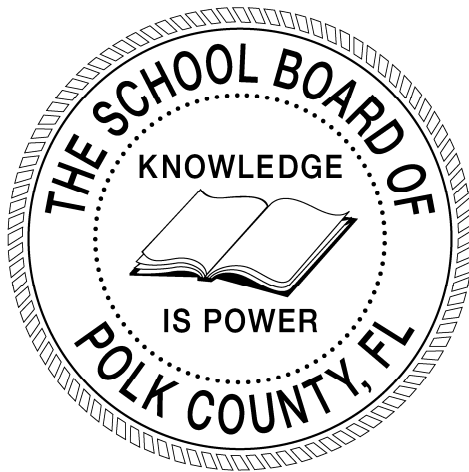


POLK COUNTY PUBLIC SCHOOLS

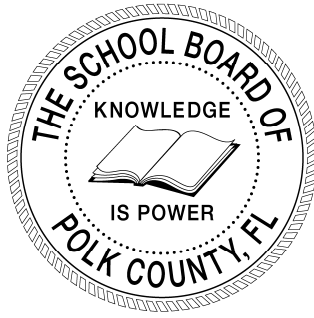
DESIGN AND CONSTRUCTION STANDARDS



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OPERATIONS DIVISION — FACILITIES DEPARTMENT



DESIGN AND CONSTRUCTION STANDARDS

INTRODUCTION

The Polk County School District is situated in central Florida with over 160 schools and ancillary facilities, dispersed throughout Polk County, Florida. The Polk County School Board (PCSB) oversees the care, maintenance and construction needs district-wide.

These Standards have been developed to facilitate the on-going endeavor to build the characteristics that are proprietary to all PCSB facilities, with the intent that they are to be used as a guide by the Design Professional (DP) in developing project designs.

The Standards generally adhere to the format of the Construction Specifications Institute's (CSI) "MasterFormat of Titles and Numbers for the Construction Industry" (1995 Edition). However, because PCSB has no specific district-wide requirements relating to many of the sections contained within the CSI specifications, only certain sections under each of the Divisions from the CSI "Master List" are included in these Standards.

These Standards *are not* intended to be a complete specification in any of the areas addressed. The DP should note that the responsibility of conveying these Standards to the Contractor should be accomplished by including an adequate description of the applicable requirements in project documents, e.g. DP's drawings or specifications, and not by reference to these Standards.

It should also be noted that compliance with these Standards in no way constitutes a waiver of liability of the DP. These Standards are general in nature and, as such, specific site conditions, code requirements or regulations may warrant a deviation from the Standards. In such cases, PCSB's Project Coordinator should be notified before proceeding with the design.

PCSB recognizes that its design and construction consultants are often more aware of industry standards and emerging trends, so continuous feedback and suggestions for improving these Standards are welcomed.



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DIVISION 1

SECTION 01070 — ABBREVIATIONS, DEFINITIONS, AND INTENT

PART 1 – GENERAL

1.01 EXTENT OF SECTION

- A. This section contains abbreviations, acronyms, and phrases used and/ or repeated throughout the Standards.

1.02 ABBREVIATIONS

ADA	Americans with Disabilities Act
A/C	Air Conditioning
ACM	Asbestos Containing Material
AGC	Application Generic Controller
AHU	Air Handling Unit
AI	Analog Input
AIA	American Institute of Architects
ANSI	American National Standards Institute
AMR	Automated Meter Reading
AO	Analog Output
API	Application Program Interface
ASC	Application Specific Controller
ASHRAE	American Society of Heating, Refrigeration and Air-Conditioning Engineers
AASHTO	American Association of Highway and Transportation Officials
ASME	American Society of Mechanical Engineers
ASCE	American Society of Civil Engineers
ASP	Application Service Provider
ASTM	American Society for Testing and Materials
AWG	American Wire Gage
AWI	Architectural Woodwork Institute
BAS	Building Automation System
BTU	British Thermal Unit
BUR	Bituminous Underlayment Roofing
CAC	Custom Application Controller
CATV	Cable Television
CCTV	Closed Circuit Television
CFM	Cubic Feet / Minute
CHWR	Chilled Water Return
CHWS	Chilled Water Supply
CMU	Concrete Masonry Unit
CPTED	Crime Protection Through Environmental Design
CPU	Central Processing Unit
DBPR	Department of Business Professionals Regulations
DR	Dimension Ratio (pipe outer diameter)
DC	Direct Current
DDC	Direct Digital Controller
DDE	Data Exchange
DEP	Department of Environmental Protection
DI	Digital Input
DO	Digital Output
FLDOE	Florida Department of Education
DTMF	Dual Tone Multi-Functional
DWV PVC	Drain Waste Vent Polyvinyl Chloride
DX	Direct Expansion



DIVISION 1

SECTION 01070 — ABBREVIATIONS, DEFINITIONS, AND INTENT

ECC	Engineering Control Center
EEPROM	Electronically Erasable Programmable Read Only Memory
EERS	Electronic Equipment Repair and Support
EIFS	Exterior Insulation and Finish System
ELL	Elbow
EMS	Emergency Management System
EMT	Electric Metallic Tubing
EP	Electric-pneumatic
ESE	Exceptional Student Education
FACP	Fire Alarm Control Panel
FBC	Florida Building Code
FCC	Fire Command Center
FLDOT	Florida Department of Transportation
FM	Factory Manufactured
FISH	Florida Inventory of School Houses
FLDOE	Florida Department of Education
FMT	Facilities Maintenance Technician
FPA	Florida Product Approval
FT	Feet
GA	Gauge
GC	Global Controller
GPS	Global Positioning Satellite
GUI	Graphical User Interface
HID	High Intensity Discharge
HTTP	Hypertext Transfer Protocol
HVAC	Heating, Ventilating and Air Conditioning
ICC	International Code Council (Model Building Code)
IDF	Intermediate Distribution Frame
IEEE	Institute of Electrical and Electronic Engineers
I/O	Input/ Output
IP	Internet Protocol
ISA	Instrumentation Systems and Automation Society
ISS	Intelligent Space Sensor
ITV	Intercom and Television
KMC	KMC Controls
LAN	Local Area Network
LBS	Pounds
LC	Local Controller
LED	Light Emitting Diode
MC	Metal Clad
MCP	Main Capacitor Panel
MDF/IDF	Main Distribution Frame / Intermediate Distribution Frame
MEP	Mechanical, Electrical, Plumbing
MERV	Minimum Efficiency Reporting Value
MDF	Medium Density Fiberboard
NEC	National Electric Code
NECA	National Electrical Contractors Association
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NWMA	National Woodwork Manufacturers Association
OC	On Center
ODBC	Open Database Connectivity
O & M	Operating and Maintenance



DIVISION 1

SECTION 01070 — ABBREVIATIONS, DEFINITIONS, AND INTENT

OSHA	Occupational Safety and Health Administration
OTDR	Optical Time Domain Reflectometer
PC	Personal Computer
PE	Pneumatic-electric
PID	Proportional-Integral-Derivative
PLC	Programmable Logic Controller
PPM	Parts per million
PVC	Polyvinyl Chloride
RAM	Random Access Memory
RF	Radio Frequency
RH	Relative Humidity
RPZ	Reduced Pressure Zone
RTD	Resistive Temperature Device
SBS	Styrene - Butadiene - Styrene
SDI	Steel Door Institute
SDR	Standard Dimension Ratio (pipe outer diameter) / (pipe wall thickness)
SI	System Integrator
SID	Supervisory Interface Device
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SMS	Short Message System
SMTP	Simple Mail Transfer Protocol
SPD	Surge Protective Device
SREF	State Requirements for Educational Facilities
ST	Single Termination
SWFWMD	Southwest Florida Water Management District
TAB	Test and Balance
TCP/IP	Transmission-Control Protocol / Internet Protocol
TUC	Terminal Unit Controller
TVP	Television Production
UC	Unitary Controller
UL	Underwriters Laboratories
UPS	Uninterruptible Power Supply
UTP	Unshielded Twisted Pair
VAC	Volts Alternating Current
VAV	Variable Air Volume
VCT	Vinyl Composition Tile
WAN	Wide Area Network

PART 2 – DEFINITIONS

2.01. COMMONLY USED PHRASES THROUGHOUT THE STANDARDS

- A. **PCSB** shall mean: THE SCHOOL BOARD OF POLK COUNTY or POLK COUNTY SCHOOL BOARD.
- B. **OWNER** shall mean: POLK COUNTY SCHOOL BOARD or POLK COUNTY SCHOOL BOARD.
- C. **FISH** is an acronym for FLORIDA INVENTORY OF SCHOOL HOUSES.
- D. **FACILITIES PROGRAM** shall mean the programmatic, functional, spatial, and environmental requirements of the educational facility, whether new or remodeled, in



DIVISION 1

SECTION 01070 — ABBREVIATIONS, DEFINITIONS, AND INTENT

written and graphic form for review, clarification, and agreement as to scope of work and design requirements by the DP's working on the building design.

- E. The **STANDARDS** shall mean POLK COUNTY SCHOOL BOARD – DESIGN AND CONSTRUCTION STANDARDS.
- F. The **PROJECT**: The construction, renovation, remodeling or maintenance replacement described by the STANDARDS, FACILITIES PROGRAM and CONSTRUCTION DOCUMENTS.
- G. **PERMITTING AUTHORITY**: shall mean PCSB Code Official. PCSB is self-permitting through Operations Division – Architectural Services Department and shall issue the PERMIT for the PROJECT.
- H. DESIGN PROFESSIONAL (**DP**) shall mean the ARCHITECT/ ENGINEER (A/E).
- I. **CONTRACTOR**: shall mean General Contractor (GC).
- J. **PROJECT COORDINATOR** shall mean the designated PCSB representative or lead person for a specific PROJECT.
- K. AUTHORITY HAVING JURISDICTION (**AHJ**) as defined by Florida statute.

PART 3 – INTENT

3.01 USE OF DESIGN & CONSTRUCTION STANDARDS

- A. The STANDARDS are not intended to limit the use of quality materials, products or processes. The DP is encouraged to recommend possible variations from the STANDARDS.
- B. Variations from the STANDARDS desired by the DP must be reviewed and approved in writing by the PROJECT COORDINATOR.
- C. It is the intent of the PCSB that the STANDARDS contained herein be used as a reference to assist the DP in determining the design intent of PCSB as they relate to the processes, materials and products to be used in the design, documentation, and administration of construction projects.
- D. The STANDARDS are, by reference, *in part an Agreement* between OWNER and the DP. The DP will produce finished Contract Documents which adhere to the STANDARDS.
- E. The STANDARDS are not intended to be verbatim Specifications in part or in whole.
- F. It is not the intent of this document to encourage the DP to accept the STANDARDS that are counter to their professional design approach. Should such a conflict arise, resolution should be sought through the PROJECT COORDINATOR.

END OF SECTION