

# CSU FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

## ADDITIONAL DOCUMENTS

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### ABBREVIATIONS

#### A

A	Air/Amperes/Architectural
A/C	Air Conditioning (also: AC)
A/E	Architect/Engineer
AABC	Association Air Balance Council
AATCC	American Association of Textile Chemists & Colorists
AB	Anchor Bolt
ABB	Asea Brown Boveri
ABS	Acrylonitrile Butadiene Styrene
AC	Air Conditioning (also: A/C)/Alternating Current/Air Compressor
ACD	Automatic Control Damper
ACH	Air Changes per Hour
ACI	American Concrete Institute
ACM	Asbestos Containing Materials
ACNS	Academic Computing and Networking Services
ACT	Acoustic Ceiling Tile
AD	Access Door/Area Drain/Air Dryer
ADA	Americans with Disabilities Act
ADO	Automatic Door Operator
AED	Automated External Defibrillator
AF	Air Foil
AFCI	Arc Fault Circuit Interrupter
AFF	Above Finished Floor
AHU	Air Handling Unit
AIA	American Institute of Architects
AIC	Ampere Interrupting Capacity
AIHA	American Industrial Hygienist Association
AIP	Abandoned in Place
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
AL	Aluminum (also: ALUM)
ALCC	Association of Landscape Contractors of Colorado
ALUM	Aluminum (also: AL)
AMCA	Air Movement and Control Association
AMI	Advanced Metering Infrastructure
AMP	Ampere
AMRL	AASHTO Materials Reference Laboratory
ANOD	Anodized
ANSI	American National Standard Institute
AP	Access Panel
APD	Air Pressure Drop
ARI	American Refrigeration Institute
AS	Air Stream/Air Separator
ASD	Allowable Stress Design
ASHRAE	American Society of Heating, Refrigeration & Air Conditioning Engineers
ASI	Architectural Supplemental Information
ASME	American Society of Mechanical Engineers
ASNT	American Society for Nondestructive Testing
ASTM	American Society for Testing & Materials
ATC	Automatic Temperature Control

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ATM.....	Atmosphere
ATS .....	Automatic Transfer Switch
AWG.....	American Wire Gauge
AWS.....	American Welding Society
AWWA.....	American Water Works Association

### B

B.....	Bottom (also: BOT)
BAS .....	Building Automation System/Building Automation Services
BC .....	Bookcase
BCSI.....	Building Component Safety Information
BD .....	Bid Documents
BDD.....	Back–Draft Damper
BHP .....	Brake Horsepower
BI .....	Backwards Inclined
BIA.....	Brick Institute of America
BIM.....	Building Information Modeling
BIR .....	Building Inspection Record
BLK.....	Block
BM .....	Beam
BOD.....	Basis of Design/Bottom of Duct
BOF .....	Bottom of Foundation
BOG .....	Board of Governors
BOT.....	Bottom (also: B)
BRG.....	Bearing
BRKT.....	Bracket
BSMT .....	Basement
BT.....	Bath Tub
BTU .....	British Thermal Units
BTUH.....	British Thermal Units per Hour
BV.....	Binary Value
BWV .....	Back Water Valve
BYND .....	Beyond

### C

C.....	Civil/Conduit
C/B .....	Circuit Breaker
CA .....	Compressed Air
CAD.....	Computer Assisted/Aided Drafting
CAR.....	Corrective Action Report
CAS.....	Card Access System
CATV.....	Cable Television/Community Antennae Television
CB .....	Change Bulletin/Critical Branch
CBM .....	Certified Ballast Manufacturer
CC .....	Center of Tree Center
CCD.....	Conformed Contract Documents
CCHE .....	Colorado Commission on Higher Education
CCR.....	Code of Colorado Regulations
CCRL.....	Cement and Concrete Reference Laboratory
CCT .....	Circuit (also: CIR, CKT)
CCTV.....	Closed Circuit Television
CD .....	Candela/Construction Documents

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CDC.....	Center for Disease Control
CDLE.....	Colorado Department of Labor and Employment
CDPHE.....	Colorado Department of Public Health & Environment
CDSR.....	Contract Data Submittal Report
CE.....	Center of Tree Edge
CENT.....	Center/Centrifugal
CF.....	Cubic Feet
CF/cf.....	Cubic Feet
CFC.....	Chlorofluorocarbon
CFH.....	Cubic Feet per Hour
CFM.....	Cubic Feet per Minute
CFM/cfm.....	Cubic Feet per Minute
CH.....	Chilled/Chiller
CHNL.....	Channel
CHW.....	Chilled Water
CHWP.....	Chilled Water Pump
CHWR.....	Chilled Water Return
CHWS.....	Chilled Water Supply
CI.....	Cast Iron
CIP.....	Cast-In-Place/Clean-in-Place
CIR.....	Circuit (also: CCT, CKT)
CJ.....	Control Joint
CKT.....	Circuit (also: CCT, CIR)
CL.....	Center Line
CLDI.....	Cement Lined Ductile Iron
CLF.....	Current Limiting Fuse
CLG.....	Ceiling
CLR.....	Clear
CMU.....	Concrete Masonry Unit
CO.....	Carbon Monoxide/Change Order/Cleanout
COB.....	Change Order Bulletin/Close of Business
COL.....	Column
COMPR.....	Compressible
CONC.....	Concrete
CONN.....	Connection
CONST JT.....	Construction Joint
CONT.....	Continuous
CP.....	Chrome Plated
CPM.....	Critical Path Method
CPT.....	Carpet/Control Power Transformer
CQC.....	Contractor Quality Control
CR.....	Card Reader
CRI.....	Color Rendering Index
CRS.....	Colorado Revised Statutes
CRSI.....	Concrete Reinforcing Steel Institute
CSA.....	Canadian Standards Association
CSI.....	Construction Specifications Institute
CSU.....	Colorado State University
CSUPD.....	Colorado State University Police Department
CT.....	Ceramic Tile/Cooling Tower/Current Transformer
CTBD.....	Cooling Tower Blow Down
CTE.....	Connect to Existing
CTYD.....	Courtyard
CU.....	Copper/Condensing Unit

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CUH.....	Cabinet Unit Heater
CW .....	Cold Water
CWR.....	Cold Water Return/Condenser Water Return
CWS.....	Cold Water Supply/Condenser Water Supply

### D

D.....	Drain (also: DR)
dB .....	Decibel(s)
DB .....	Dry Bulb
DBL .....	Double
DC .....	Direct Current
DCVA .....	Double Check Valve Assembly
DD .....	Design Development
DDC.....	Direct Digital Control
DEG.....	Degree
DEMO.....	Demolish/Demolition
DEPR .....	Depression
DET .....	Detail
DF.....	Drinking Fountain
DI.....	Deionized Water
DIA .....	Diameter
DIM.....	Dimension
DIMS .....	Dimensions
DIP .....	Ductile Iron Pipe
DIR .....	Direction
DL.....	Development Length
DN .....	Down
DOT.....	Department of Transportation
DP .....	Differential Pressure
DR .....	Door/Drain (also: D)
DRC.....	Design Review Committee
DT/DV.....	Differential Time/Differential Voltage
DWG.....	Drawing (AutoCAD format)
DWLS.....	Dowels

### E

E.....	Electrical (also: ELEC)
EA.....	Each/Exhaust Air
EAHU .....	Exhaust Air Handling Unit
EAT .....	Entering Air Temperature
EB.....	Equipment Branch
EC .....	Electrical Code/Electrical Contractor
ECM .....	Electrically Commutated Motor
EE.....	Each End/Edge of Tree to Edge
EF.....	Exhaust Fan
EFCO .....	Emergency Field Change Order
EHS.....	Environmental Health Services
EJ .....	Expansion Joint
EL.....	Elevation (also: ELEV)
ELEC .....	Electrical (also: E)
ELEV .....	Elevation (also: EL)/Elevator (also: EVTR)
EM.....	Emergency (also: EMER)

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EMER	Emergency (also: EM)
EMI	Electrical Magnetic Interference
EMS	Energy Management System
EMT	Electrical Metallic Tubing
ENT	Electrical Nonmetallic Tubing
EOL	End of Line Resistor
EP	Emergency Power
EPA	Environmental Protection Agency
EPD	Environmental Product Declarations
EPDM	Ethylene Propylene Diene M-Class (Roofing)
EPO	Emergency Power Off (Button or Switch)
EQ	Equal
EQPM	Equipment
ERV	Energy Recovery Ventilator
ESP	External Static Pressure
ET	Expansion Tank
EUH	Electrical Unit Heater
EVTR	Elevator (also: ELEV)
EWC	Electric Water Cooler (Drinking Fountain)
EWT	Entering Water Temperature
EX	Exhaust (also: EXH)
EXH	Exhaust (also: EX)
EXIST	Existing
EXP	Expansion
EXP Bolt	Expansion Bolt
EXP JT	Expansion Joint
EXT	Exterior/External

### F

F	Fahrenheit/Fuse
FA	Fire Alarm/Fire Area
FAA	Fire Alarm Annunciator
FACP	Fire Alarm Control Panel
FACU	Fire Alarm Control Unit
FAS	Fire Alarm System
FC	Flexible Connection
FCO	Floor Cleanout
FCU	Fan Coil Unit
FD	Fire Damper/Fire Department/Floor Drain (also: FLRDR)
FDC	Fire Department Connection
FEC	Fire Extinguisher Cabinet
FE	Fire Extinguisher
FF	Finished Face/Finished Floor
FFL	Finished Floor Level
FH	Fume Hood
FHC	Fire Hose Cabinet
FHV	Fire Hose Valve
FICM	Postsecondary Education Facilities Inventory and Classification Manual
FIN	Finish
FIXT	Fixture
FL	Floor (also: FLR)
FLA	Full Load Amperes
FLEX	Flexible

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## ADDITIONAL DOCUMENTS

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FLR.....	Floor (also: FL)
FLRDR .....	Floor Drain (also: FD)
FLT .....	Flash Tank
FM .....	Facilities Management/Factory Manual/Filled Metal
FMC.....	Flexible Metal Conduit
FND .....	Foundation
FO .....	Face Of
FP .....	Fire Protection
FPHE .....	Flat Plate Heat Exchanger
FPM.....	Feet per Minute
FPS .....	Feet per Second
FPWH.....	Freeze Proof Wall Hydrant
FR.....	Flame Retardant
FRP .....	Fiberglass Reinforced Plastic
FS.....	Flow Switch/Food Service
FT/ft.....	Feet/Foot (also: ')
FTG .....	Footing
FTR .....	Fin Tube Radiation
FV.....	Flush Valve

## G

G.....	Gas/General/Ground
GA .....	Gauge
GAL .....	Gallon(s)
GALV .....	Galvanized
GB .....	Grade Beam/Glove Box
GCC .....	General Conditions of Contract
GCO .....	Ground Clean Out
GE .....	General Electric
GFCI.....	Ground Fault Circuit Interrupter (also: GFI)
GFI .....	General Fault Indicator/Ground Fault Circuit Interrupter (also: GFCI)
GFU.....	Glycol Feed Unit
GI.....	Grease Interceptor
GIS .....	Geographic Information System
GND .....	Ground
GP .....	Gusset Plate
GPF .....	Gallons per Flush
GPH.....	Gallons per Hour
GPM.....	Gallons per Minute
GR .....	Grade
GRMC .....	Galvanized Rigid Metal Conduit
GSF .....	Gross Square Feet
GWB.....	Gypsum Wall Board
GWP.....	Global Warming Potential

## H

HB .....	Hose Bib (Connection)
HBRB .....	Historic Building Review Board
HBP .....	Hot Bituminous Paving
HC .....	Handicapped/Hollow Core
HD .....	Head
HDS.....	Housing and Dining Services/Facilities

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HEF .....	Horizontal Each Face
HEPA.....	High Efficiency Particulate Air
HHS.....	Health and Human Services
HI.....	High
HIF.....	Horizontal Inside Face
HM.....	Hollow Metal
HOA.....	Hand–Off–Automatic Switch
HOF.....	Horizontal Outside Face
HOR .....	Horizontal
HP/hp .....	High Point/Horsepower
HR/hr .....	Hour
HRU.....	Heat Recovery Unit
HS .....	High Strength
HT.....	Height
HTG.....	Heating
HVAC .....	Heating, Ventilation, Air Conditioning
HW .....	Hot Water
HWP .....	Hot Water Pump
HWR.....	Hot Water Return
HWS.....	Hot Water Supply
HX .....	Heat Exchanger
HZ.....	Hertz (Cycles per Second)

### I

IA .....	Irrigation Association
IAPMO.....	International Association of Plumbing & Mechanical Officials
IBC .....	International Building Code
ICBO.....	International Conference of Building Officials
ICC .....	International Code Council
ID.....	Inside Diameter
IDC.....	Indicating Device Circuits
IDF.....	Intermediate Distribution Frame
IECC.....	International Energy Conservation Code
IEEE .....	Institute of Electrical & Electronic Engineers
IES.....	Illuminating Engineering Society
IFC.....	International Fire Code
IG.....	Isolated Ground
IGBT .....	Insulated Gate Bipolar Transistor
ILO.....	In Lieu Of
IMC.....	Intermediate Metal Conduit
IN/in .....	Inch (also: “)
INSUL.....	Insulated or Insulation
INT.....	Interior/Interlock
INV .....	Invert
IO&M .....	Installation, Operation, and Maintenance Manuals
IPC .....	International Plumbing Code
IPVCC .....	Inclusive Physical and Virtual Campus Committee
IRGWB .....	Impact Resistant Gypsum Wall Board
ISO .....	International Organization for Standardization
IW .....	Indirect Waste

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## ADDITIONAL DOCUMENTS

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### J

J-BOX .....	Junction Box
JCI .....	Johnson Control, Inc.
JST .....	Joist
JT .....	Joint

### K

K .....	Kip (1000 Pounds)
KCMIL .....	Thousand Circular Mils
KVA .....	Kilovolt–Amperes
KVAR .....	Kilovolt–Amperes Reactive
kW .....	Kilowatt
kWh .....	Kilowatt Hour

### L

L .....	Landscape
LACS .....	Laboratory Airflow Control Systems
LAT .....	Leaving Air Temperature
LB .....	Pound
LCD .....	Liquid Crystal Display
LD .....	Linear Diffuser
LED .....	Light Emitting Diode
LEED .....	Leadership in Energy and Environmental Design
LF/lf .....	Linear Foot
LFH .....	Laminar Flow Hood
LFMC .....	Liquid Tight Flexible Metal Conduit
LIN .....	Linear
LLV .....	Long Leg Vertical
LO .....	Low
LP .....	Low Point
LPG .....	Liquid Petroleum Gas
LPS .....	Low Pressure Steam
LRA .....	Locked Rotor Amps
LRFD .....	Load and Resistance Factor Design
LTG .....	Lighting
LUVR .....	Louver (also: LVR)
LVDL .....	Lab Ventilation Design Level
LVDR .....	Louvered Door
LVG .....	Leaving
LVT .....	Luxury Vinyl Tile
LVR .....	Louver (also: LUVR)
LW .....	Light Weight
LWC .....	Light Weight Concrete
LWT .....	Leaving Water Temperature

### M

M .....	Mechanical (also: MECH)
MAS .....	Masonry
MAX .....	Maximum
MBH .....	1000 BTUH

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MBtu.....	Thousand British Thermal Units
MC.....	Metal Clad Cable
MCA.....	Minimum Circuit Amps
MCB.....	Main Circuit Breaker
MCC.....	Motor Control Center
MCP.....	Motor Circuit Protection
MD.....	Motorized Damper
MDF.....	Main Distribution Frame
MDP.....	Medium Density Industrial Particle Board
MECH.....	Mechanical (also: M)
MEMBR.....	Membrane
MI.....	Mineral Insulated
mils.....	One Thousands of an Inch
MIN.....	Minimum
MLO.....	Main Lugs Only
MO.....	Masonry Opening
MP.....	Mapping
MPC.....	Master Plan Committee
MRGWB.....	Moisture-Resistant Gypsum Wall Board
MRL.....	Machine Room-Less
MS.....	Microsoft
MSB.....	Mop Service Basin
MSDS.....	Material Safety Data Sheet
MTL.....	Metal
MTR.....	Meter (Equipment)
MU.....	Make-Up Water
MUA.....	Make-Up Air
MUTCD.....	Manual on Uniform Traffic Control Devices
MW.....	Megawatt

### N

NAC.....	Notification Appliance Circuits
NANSR.....	Non-Attainment New Source Review
NASF.....	Net Assignable Square Feet
NC.....	Noise Criteria/Normally Closed
NCMA.....	National Concrete Masonry Association
NCR.....	Nonconformance Report
NCS.....	National CAD Standard
NEBB.....	National Environmental Balancing Bureau
NEC.....	National Electrical Code
NEII.....	National Electrical Illumination Institute
NEMA.....	National Electrical Manufacturers Association
NF.....	Near Face
NFPA.....	National Fire Protection Association
NIC.....	Not in Contract
NICET.....	National Institute for Certification in Engineering Technologies
NIH.....	National Institute of Health
NIST.....	National Institute of Standards and Technology
NL.....	Night Light
NM.....	Non-Metallic
NM-C.....	Non-Metallic Cable
NO.....	Normally Open/Number
NOM.....	Nominal

## CSU FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

### ADDITIONAL DOCUMENTS

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NRMCA .....	National Ready Mixed Concrete Association
NSF .....	National Sanitation Foundation
NTP .....	Notice to Proceed
NTS .....	Not to Scale
NWC .....	Normal Weight Concrete

### O

O&M .....	Operations & Maintenance Manual
OA .....	Outside Air
OAT .....	Outside Air Temperature
OAC .....	Owner, Architect and Contractor
OAI .....	Outside Air Intake
OC/oc .....	On Center
OD .....	Outside Diameter
ODP .....	Open Drip Proof/Ozone Depletion Potential
OED .....	Open End Drain
OH .....	Opposite Hand(also: OPP)/Overhang
OOS .....	Out of Service
OPNG .....	Opening
OPC .....	Open Platform Communication
OPP .....	Opposite/Opposite Hand
OPR .....	Owner Project Requirements
OPS .....	Division of Oil and Public Safety
ORP .....	Oxidation–Reduction Potential
OS&Y .....	Outside Stem and Yoke
OSA .....	Office of the State Architect/Outside Air
OSHA .....	Occupational Safety & Health Administration
OV .....	Outlet Velocity
OZ .....	Ounce

### P

P .....	Plumbing (also: PLBG, PLUMB)/Pole
PB .....	Panic Button/Pull Box/Push Button
PC .....	Pile Cap
PC .....	Personal Computer
PCA .....	Portland Cement Association
PCC .....	Pre–Cast Concrete
PCF .....	Pounds per Cubic Foot
PD .....	Pressure Drop
PDC .....	Physical Development Committee
PDF .....	Portable Document Format
PE .....	Polyethylene
PE .....	Professional Engineer
PFA .....	Poudre Fire Authority
PH .....	Phase
PICV .....	Pressure Independent Control Valve
PIV .....	Post Indicator Valve
PL .....	Planning Documents/Plate
PLBG .....	Plumbing (also: P, PLUMB)
PLUMB .....	Plumbing (also: P, PLBG)
PLYD .....	Plywood
PNL .....	Panel

## CSU FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

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PNT .....	Paint or Painted
PRV .....	Pressure Reducing Valve
PS .....	Pull Station
PSD .....	Prevention of Significant Deterioration
PSF .....	Pounds per Square Foot
PSI .....	Pounds per Square Inch
PSI .....	Pounds per Square Inch
PSIA .....	Pounds per Square Inch – Absolute
PSID .....	Pounds per Square Inch – Differential
PSIG .....	Pounds per Square Inch – Gauge
PT .....	Point/Potential Transformer/Pressure Treated
PTS .....	Parking Transportation Services
PVC .....	Polyvinyl Chloride
PWR .....	Power

### Q

QR .....	Quick Response
QTY .....	Quantity

### R

R .....	Radius
RA .....	Return Air
RAR .....	Remedial Action Request
RBR .....	Rubber
RCCB, RCB .....	Residual–Current Circuit Breaker
RCD .....	Residual–Current Device
RCP .....	Reflected Ceiling Plan
RCP .....	Reinforced Concrete Pipe
RCV .....	Remote Control Valve
RD .....	Record Drawings/Roof Drain
RE .....	Right End
REF .....	Refrigerator
REINF .....	Reinforced
REQ .....	Required (also: REQD)
REQD .....	Required (also: REQ)
RET .....	Return
RETG .....	Retaining
RFI .....	Radio Frequency Interference/Request for Information
RH .....	Relative Humidity
RL .....	Redline
RLA .....	Running Load Amps
RLF .....	Relief
RM .....	Room
RMC .....	Rigid Metal Conduit
RMI .....	Risk Management & Insurance
RMS .....	Root Mean Squared
RNC .....	Rigid Non–Metallic Conduit
RO .....	Reverse–Osmosis
RPBP .....	Reduced Pressure Backflow Preventer
RPM .....	Revolutions per Minute
RS .....	Recommended Standard
RTS .....	Remote Test Station

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RTU ..... Roof Top Unit

#### S

S ..... Structural  
SA ..... Shock Absorber/Supply Air  
SBP ..... State Buildings Program  
SC ..... Shear Connector  
SCM ..... Stormwater Control Measures  
SCR ..... Screen  
SCR ..... Silicone Control Rectifiers  
SCT ..... Saturated Condensing Temperature  
SD ..... Sanitary Drain/Schematic Design/Smoke Damper/Smoke Detector/Soap  
Dispenser  
SDI ..... Steel Deck Institute  
SE ..... Service Entrance/Smoke Exhaust  
SEAC ..... Structural Engineers Association of Colorado  
SEB ..... Service End Line Box or Service Electrical Box  
SECT ..... Section  
SEFA ..... Scientific Equipment and Furniture Association  
SEN ..... Sensible  
SF/sf ..... Square Feet/Square Foot/Step Footing  
SFD ..... Combination Smoke/Fire Damper  
SGC ..... Supplementary General Conditions  
SH ..... Shower (also: SHWR)/Shop Drawings  
SHC ..... Sensible Heat Capacity  
SHT ..... Sheet  
SHWR ..... Shower (also: SH)  
SIM ..... Similar  
SIN ..... Sprinkler Information Number  
SJI ..... Steel Joist Institute  
SK ..... Sink  
SL ..... Splice Length  
SLC ..... Signaling Line Circuits  
SLV ..... Short Leg Vertical  
SMACNA ..... Sheet Metal and Air Conditioning Contractors National Association  
SOG ..... Slab on Grade  
SP ..... Spare/Stand Pipe/Static Pressure/Sump Pump  
SPEC ..... Specification/Specified  
SPK ..... Speaker/Sprinkler  
SQ ..... Square  
SS ..... Soil Stack/Stainless Steel (also: SSTL)  
SSTL ..... Stainless Steel (also: SS)  
ST ..... Shunt Trip/Steam Trap  
STC ..... Sound Transmission Coefficient  
STD ..... Standard  
STIFF ..... Stiffener  
STL ..... Steel  
STR ..... Structural (also: STRUCT)  
STRUCT ..... Structural (also: STR)/Structure  
SUP ..... Supply  
SW ..... Switch  
SWP ..... Standard Working Pressure  
SYM ..... Symmetrical

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#### T

T	Technology/Telecommunications/Temperature/Thermostat/Top
T&B	Top and Bottom
T&G	Tongue and Groove
T/D	Telephone/Data
TAB	Testing, Adjusting & Balancing
TCP	Traffic Control Plan
TEFC	Totally Enclosed Fan Cooled
TEL	Telephone (also: TELE)
TELE	Telephone (also: TEL)
TEMP	Temperature
TFE	Teflon
TGB	Telecommunications Grounding Busbar
THHN	Thermoplastic High Heat-resistant Nylon-coated
THK	Thick/Thickness
THRD	Threaded
TLT	Toilet
TMCB	Thermal Magnetic Circuit Breaker
TME	To Match Existing
TO	Top of
TOC	Table of Contents/Top of Concrete
TOF	Top of Foundation
TON	12,000 BTUH (Cooling Capacity)
TOS	Top of Steel
TOW	Top of Wall
TPD	Toilet Paper Dispenser
TPI	Truss Plate Institute
TPO	Thermoplastic Olefin
TS	Tamper Switch
TSI	Thermal/Mechanical System Insulation
TSP	Total Static Pressure
TSTAT	Thermostat
TVSS	Transient Voltage Surge Suppression
TW	Tempered Water
TYP	Typical

#### U

U	Urinal/Utility
U/S	Underside (also: US)
UAS	Unmanned Aircraft System
UC	Undercut (Door)
UF	Underground Feeder
UFC	Uniform Fire Code
UG	Under Ground
UHF	Ultra High Frequency
UL	Underwriters Laboratory
UNO	Unless Noted Otherwise
UPS	Uninterruptible Power Supply
US	Underside (also: U/S)
USDA	United States Department of Agriculture
UTM	Universal Transverse Mercator

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### V

V .....	Vent/Volt(s)
VA .....	Volt–Ampere
VAV .....	Variable Air Volume
VB .....	Vacuum Breaker
VD .....	Volume Damper
VEF .....	Vertical Each Face
VEL .....	Velocity
VFD .....	Variable Frequency Drive
VIF .....	Verify in Field/Vertical Inside Face
VOF .....	Vertical Outside Face
VP .....	Vision Panel
VPUO .....	Vice President of University Operations
VS .....	Vent Stack
VT .....	Voltage Transformer
VTR .....	Vent Through Roof

### W

W .....	Waste/Watt/Wayfinding/Wire/Washer
W/ .....	With
WB .....	Wet Bulb
WC .....	Water Closet
WD .....	Wood
WG .....	Water Gauge
WH .....	Wall Hydrant/Water Heater
WOG .....	Water, Oil or Gas
WP .....	Waterproof/Weatherproof/Working Point
WPD .....	Water Pressure Drop
WS .....	Waste Stack
WTD .....	Water Temperature Difference
WWF .....	Welded Wire Fabric

### X

XFMR .....	Transformer
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### Symbol/Numeric

Φ .....	Phase
Ω .....	Ohm
" .....	Inch (also: IN/in)
' .....	Feet (also: FT/ft)
# .....	Pound Number
& .....	And
@ .....	At
2D .....	Two Dimension
3D .....	Three Dimension
°F .....	Degrees Fahrenheit