

## Acronym Guide

### A

A/R	Accounts Receivable
AARP	American Assoc. of Retired People
AASHTO	American Association of State Highway & Transportation Officials
ABFE	Advisory Base Flood Elevation
ac/dc	Alternate Current, Direct Current
ACEC	American Council of Engineering Companies
ACI	American Concrete Institute
ACIP	American Cast In-place Piles
ADA	Americans with Disabilities Act
ADP	Automatic Data Processing
AELSLAGID	Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience and Interior Design
AFPA	American Forest and Paper Association
AGA	American Galvanizers Association
AHA	American Hardboard Association
AIA	American Institute of Architects
AICP	American Institute of Certified Planners
AISC	American Institute of Steel Construction -1921
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ALSC	American Lumber Standard Committee
ANSI	American National Standards Institute
APA	American Plywood Association
API	American Petroleum Institute
ASQ	American Society of Quality
ASCE	American Society of Civil Engineers
ASD	Allowable Stress Design
ASCII	American Standard Code for Information Interchange
ASI	Architectural Supplemental Instruction
ASLA	American Society of Landscape Architecture
ASME	American Society of Mechanical Engineers
ASNT	American Society of Non-destructive Testing
ASR	Alkali Silica Reaction
ASTM	American Society of Testing Materials
ATC	Applied Technology Council
AUAR	Alternative Urban Areawide Review
AWPA	American Wood Preservers Association
AWS	American Welding Society
AWWA	American Water Works Association

### B

BIM	Building Information Modeling
BFE	Base Flood Elevation
BIM	Building Information Modeling
BM	Bench Mark
BMP	Best Management Practices
BN	Bidding and Negotiations
BOM	Bill of Materials
BPF	Blows per Foot
BPR	Business Process Re-engineering
BSC	(California) Building Standards Commission
BWSR	Board of Water and Soil Resources

## Acronym Guide

### C

C&E	Cause and Effect
CA	Construction Administration
CAC	Citizen Advisory Committee
CAD	Computer Aided Design
CAE	Computer Aided Engineering
CAN	(OSHPD) Code Application Notice
CAR	Corrective Action Request
CASE	Coalition of American Structural Engineers
CBC	California Building Code
CBSC	See BSC
CCD	Construction Change Directive
CCR	California Code Regulations
CD	Construction Documents
CE	Carbon Equivalent
CEO	Chief Executive Officer
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFO	Chief Financial Officer
CFR	Code of Federal Regulations
CFS	Cubic Feet per Second
CHMM	Certified Hazardous Materials Manager
CIO	Chief Information Officer
CIP	Cast Iron Pipe
CISC	Canadian Institute of Steel Construction – 1930
CJP	Complete Joint Penetration
CLARB	Council of Landscape Architectural Registration Boards
CM	Construction Manager
CMP	Corrugated Metal Pipe
CO	Change Order
COB	Close of Business (also – EOB – End of Business)
COD	Cash on Delivery
COO	Chief Operating Officer
CPA	Certified Public Accountant
CPESC	Certified Professional in Erosion and Sediment Control
CPM	Critical Path Method
CPT	Cone Penetration Test
CPU	Central Processing Unit
CQC	Complete Quadratic Combination
CRSI	Concrete Reinforcing Steel Institute
CSA	Canadian Standards Association
CSAH	County State Aid Highway
CSD	Contract Sensitive Design
CSI	Construction Specification Institute
CSSBI	Canadian Sheet Steel Building Institute
CUREE	California Universities for Research in Earthquake Engineering
CWA	Clean Water Act

### D

DBE	Disadvantaged Business Enterprise
DBOO	Design Build Own Operate
DD	Design Development
DDLT	Demand During Lead Time

## Acronym Guide

DDM	Direct Design Method
DFA	Design for Assembly
DFD	Data-Flow Diagrams
DIP	Ductile Iron Pipe
DMAIC	Define, Measure, Analyze, Improve, and Control
DNR	Department of Natural Resources
DOE	Department of Energy
DOE	Design of Experience
DRP	Distribution Requirements Planning
DSA	Division of the State Architect
DSO	Days Sales Out
DWSMA	Drinking Water Supply Management Area

### E

EAP	Employee Assistance Program
EAW	Environmental Assessment Worksheet
EBF	Eccentricity Based Frame
EBIT	Earnings before Interest and Taxes
ECN	Engineering Change Notice
ECO	Engineering Change Order
ECR	Engineering Change Request
EEO	Equal Employment Opportunity
EFM	Equivalent Frame Method
EI	Employee Involvement
EIS	Environmental Impact Statement
EIT	Engineer-in-Training
ELC	Employee Learning Center
EP	Emerging Professional
EPA	Environmental Protection Agency
EPC	Engineering Procurement Construction
ESC	Executive Steering Committee
ESI	Engineer's Supplemental Instructions

### F

F/I	Furnish & Install
FADR	Foundation Analysis Design Recommendations
FCAW	Flux Cored Arc Welding
FDC	Field Design Change
FE	Fundamentals of Engineering
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FIS	Flood Insurance Study
FM	Factory Mutual
FMBA	Financial Management and Business Analysis
FRA	Federal Railroad Association
FRC	Fiber Reinforced Concrete
FWD	Falling Weight Deflection

### G

GC	General Contractor
GFRC	Glass Fiber Reinforced Concrete
GMAW	Gas Metal Arc Welding
GIS	Global Information System

## Acronym Guide

GIT	Global Information Technology
GMP	Guaranteed Maximum Price
GOST	Goals, Objectives, Strategies, Tactics
GPM	Gallons per Minute
GPS	Global Positioning System

### H

HACCP	Hazard Analysis and Critical Control Points
HazMat	Hazardous Materials
HAZWOPER	Hazardous Waste Operator
HDPE	High Density Polyethylene
HMI	Human Machine Interface
HR	Human Resources
HRM	Human Resources Management
HRSG	Heat Recovery Steam Generators
HSS	Hollow Structural Sections
HVAC	Heating, Ventilation, Air-condition
HWL	High Water Level

### I

IACET	International Association for Continuing Education and Training
IAS	International Accreditation Service
IBC	International Building Code
ICBO	International Conference of Building Officials
ICC	International Code Council
ICC	International Chamber of Commerce
ICC-ES	International Code Council - Evaluation Service
ICRI	International Concrete Repair Institute
ID	Inside Diameter
IE	Invert Elevation
IFI	Industrial Fasteners Institute
IIE	Institute of Industrial Engineers
IMF	Intermediate Moment Frame
IMS	Integrated Management System
IRR	Internal Rate of Return
ISO	International Standards Organization
IT	Information Technology

### J

JIT	Just in Time
JUSE	Japanese Union of Scientists and Engineers

### K

KM	Knowledge Management
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### L

LAN	Local Area Network
LCCMR	Legislative-Citizen Commission on Minnesota Resources
LEED	Leadership in Energy and Environmental Design
LID	Low Impact Development
LGA	Local Government Aid
LGU	Local Governing Unit

## Acronym Guide

LOB	Line of Balance
LRFD	Load and Resistance Factor Design
LRRB	Minnesota Local Road Research Board
LSL	Laminated Strand Lumber
LSL	Lower Specification Limit
LT	Lead Time
LVL	Laminated Veneer Lumber

### M

MADR	Materials Analysis Design Recommendations
MBMA	Metal Building Manufacturers Association
MCL	Maximum Contaminant Level
MDH	Minnesota Department of Health
MDR	Master Data Record
MECA	Minnesota Erosion Control Association
MIA	Masonry Institute of America
MIS	Management Information Systems
MnAFPM	Minnesota Association of Floodplain Managers
MnDOT	Minnesota Department of Transportation
MOU	Memorandum of Understanding
MPCA	Minnesota Pollution Control Agency
MRP	Money Resource Planning
MSDS	Material Safety Data Sheet
MSPE	Minnesota Society of Professional Engineers
MTG	Meeting
MUSA	Metropolitan Urban Service Area

### N

NACEI	National Association of Corrosion Engineers International
NAHB	National Association of Home Builders
NAVD	North American Vertical Datum (1988)
NAVFAC	Naval Facilities Engineering Command
NAWBO	National Association of Women Business Owners
NBCC	National Building Code of Canada
NCARB	National Council of Architectural Registration Boards
NCEES	National Council of Examiners for Engineers and Surveyors
NDC	Notice of Design Change
NDT	Non Destructive Testing
NEC	National Electrical Code
NEHRP	National Earthquake Hazards Reduction Program
NFPA	National Fire Protection Association
NGVD	National Geodetic Vertical Datum (1929)
NIST	National Institute of Standards and Technology
NIST	National Institute of Science and Technology
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
NPV	Net Present Value
NRCC	National Research Council of Canada
NRMCA	National Ready Mixed Concrete Association
NSF	National Science Foundation
NURP	Nationwide Urban Runoff Program
NWI	National Wetland Inventory
NWL	Normal Water Level

## Acronym Guide

### O

OD	Outside Diameter
OHWL	Ordinary High Water Level
OJT	On the Job Training
OMRF	Ordinary Moment-Resisting Frame
OPA	OSHPD Pre-Approval
OS/D	Over, Short, or Damaged
OSHA	Operational Safety and Health Administration
OSHPD	Office of Statewide Health Planning and Development
OT	Overtime

### P

PA	Product Acceptance
PAC	Political Action Committee
PC	Plan Check
PCA	Portland Cement Association
PCI	Pre-cast and Pre-stressed Concrete Institute
PE	Professional Engineer
PERT	Program Evaluation and Review Technique
PG	Professional Geologist
PI	Personal Involvement
PIP	Public Involvement Period
PLC	Programmable Logic Manager
PLS	Professional Land Surveyor
PM	Preventative Maintenance
PM	Project Management
PO	Purchase Order
POC	Point of Contact
POM	Production and Operations Management
POP	Proof of Purchase
POS	Point of Sale
PPM	Parts per Million
PR	Proposal Request
PRV	Powered Roof Ventilator
PRV	Pressure Reducer Valve
PSI	Pounds per Square Inch
PTI	Post Tensioning Institute
PTO	Paid Time Off
PTOE	Professional Traffic Operations Engineer
PVC	Polyvinyl Chloride
PWI	Public Waters Inventory

### Q

Q&A	Question and Answer
Q&E	Qualifications and Experience
QA	Quality Assurance
QC	Quality Control
QWL	Quality of Working Life
QBS	Qualifications Based Selection

## Acronym Guide

### R

RBS	Reduced Beam Section
RCP	Reinforced Concrete Pipe
RCSC	Research Council on Structural Connections
RE	Rim Elevation
RFCOP	Request for Change Order Pricing
RFI	Request for Information
RFP	Request for Proposal
RFQ	Request for Quote/Qualifications
RLA	Registered Landscape Architect
RMP	Resource Management Plan
ROA	Return on Assets
ROI	Return on Investment
ROR	Rate of Return

### S

SAW	Submerged Arc Welding
SBU	Strategic Business Unit
SCADA	Supervisory Control and Data Acquisition
SCC	Self-Consolidating Concrete
SD	Schematic Design
SD	Supplemental Drawings
SDI	Steel Deck Institute
SEAOC	Structural Engineers Association of California
SHPO	State Historical Preservation Office
SIC	Standard Industrial Code
SJI	Steel Joist Institute
SLV	Soil Leach Value
SMAW	Shielded Metal Arc Welding
SMPS	Society of Marketing Professionals
SONAR	Statement of Need and Reasonableness
SOP	Standard Operating Procedure
SPR	Site Plan Review
SPT	Standard Penetration Test
SRSS	Square root of the sum-of-squares
SRV	Soil Remediation Value
SS	Select Structural
SSC	(California) Seismic Safety Commission
SSEC	Structural Steel Educational Council
SSMA	Steel Stud Manufacturers Association
SSPC	The Society for Protective Coatings (Steel Structures Painting Council - 1950)
STI	Steel Tube Institute - 1930
SWPPP	Storm Water Pollution Prevention Plan

### T

TAC	Technical Advisory Committee
TCA	Tilt-up Concrete Association
TEC	Total Energy Checkpoint
TEI	Total Employee Involvement
TEP	Technical Evaluation Panel
TJI	Truss Joist Institute
TMDL	Total Maximum Daily Load
TMI	Team Management Index

## Acronym Guide

TOS Toe of Slope  
TQM Total Quality Management

### U

UBC Uniform Building Code  
UCL Upper Control Limit  
UFC Unified Facilities Criteria  
USACE United States Army Corps of Engineers (also known as ACOE)  
USAID U.S. Agency for International Development  
USCS Unified Soil Classification System  
USGBC United States Green Building Council  
USGS United States Geological Survey  
USL Upper Specification Limit  
UST Underground Storage Tank

### V

VA Value Analysis  
VE Value Engineering  
VCP Vitrified Clay Pipe

### W

WBS Work Breakdown Structure  
WCA Wetland Conservation Act  
WD Watershed District  
WHPA Wellhead Protection Area  
WMO Watershed Management Organization  
WRA Water Reducing Admixtures  
WRI Wire Reinforcement Institute