

## 500 Engineering Abbreviations

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**Compiled By: Mahmood Saeed, Senior Road Engineer UNOPS/TSP/URAP**

1. AAMA American Architectural Manufacturers' Association
2. AASHTO American Association of State Highway and Transportation Officials
3. AB Anchor Bolt
4. AB Asbestos Board
5. AC Asphalt Concrete
6. ACCU Air Cooled Condensing Unit
7. ACI American Concrete Institute
8. ACSMAC Aluminized (Type 2) Corrugated Steel – Metal Arch Culvert
9. ACSP Aluminized (Type 2) Round Corrugated Steel Pipe
10. ADH Adaptive Hydraulics
11. ADL Aerially Deposited Lead
12. ADR Alternative Dispute Resolution
13. AEC Architectural, Engineering, and Construction
14. AESS Architecturally Exposed Structural Steel
15. AF After Foundation
16. AF Agreed Framework
17. AF All Flat
18. AFC Approved for Construction
19. AFD Approval for Design (AFD)
20. AFF Above Finish Floor
21. ACC Associated General Contractors of America
22. AGCR Assured Global Construction Risks
23. AHA American Hardboard Association
24. AIBD American Institute Of Building Design
25. AIMP Impervious Area
26. AINF Infiltration Area
27. AISC American Institute of Steel Construction
28. AISI American Iron & Steel Institute
29. AITC American Institute of Timber Construction
30. AL Aluminum

- 31. ALA American Lung Association
- 32. AMCA Air Movement and Control Association International, Inc.
- 33. ANSI American National Standards Institute
- 34. APEO alkyl phenol ethylates
- 35. APEO Association of Professional Engineers of Ontario
- 36. APHA American Public Health Association
- 37. APHC Association of Plumbing Heating Contractors
- 38. APWA American Public Works Association
- 39. AQMD Air Quality Management District
- 40. ARS Agricultural Research Service
- 41. ASE Alliance to Save Energy
- 42. ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers
- 43. ASTM American Society for Testing and Materials
- 44. Ave. Avenue
- 45. AWCI Association of the Wall and Ceiling Industry
- 46. AWG American Wire Gage
- 47. AWI Architectural Woodwork Institute
- 48. AWS American Welding Society
- 49. AWWA American Water Works Association
- 50. BAC Building Automation and Controls
- 51. BASA British Adhesives and Sealants Association
- 52. BASE Buildings, Antennas, Spans, and Earth
- 53. BAT Best Available Technology
- 54. BBS Bulletin Board Service
- 55. BCCA British Columbia Construction Association
- 56. BCCMP-FP Bituminous-Coated Corrugated Metal Pipe - Fully Paved
- 57. BCCSP-FP Bituminous-Coated Corrugated Steel Pipe - Fully Paved
- 58. BCT Best Conventional Technology
- 59. BETEC Building Environment & Thermal Envelope Council
- 60. BFP Bonded Fiber Matrix
- 61. Blvd. Boulevard
- 62. BM Building Materials
- 63. BMP Best Management Practice
- 64. BMT Bellevue Motored Tirade

- 65. BMTPC Building Materials & Technology Promotion Council
- 66. BOCA Building Officials and Code Administrators International
- 67. BP Beam Pipe
- 68. BPAC Building Performance Assessment Centre
- 69. BSC Business Steering Committee
- 70. BSU Basic Structural Unit
- 71. BUDF Builder Data Form
- 72. BUREC Bureau deludes et de Construction
- 73. C of Q Certificate of Qualification
- 74. CA Contractor Activities
- 75. CABO (ICC) Conference of American Building Officials (International Code Council)
- 76. CAL-EPA California Environmental Protection Agency
- 77. CAL-OSHA California Division of Occupational Safety and Health Administration
- 78. CANS Construction Association of Nova Scotia
- 79. CAS Complete Active Space
- 80. CASQA California Storm water Quality Association
- 81. CAT Compact All Terrain
- 82. CBC California Building Code
- 83. CBS Concrete Building Structure
- 84. CC construction chemicals
- 85. CCA Canadian Construction Association
- 86. CCBFC Canadian Commission on Building and Fire Codes
- 87. CCDC Canadian Construction Documents Committee
- 88. CCHT Canadian Centre for Housing Technology (part of NRC)
- 89. CCI Construction Cost Index
- 90. CCIA Connecticut Construction Industries Association
- 91. CCMC Canadian Construction Materials Centre
- 92. CCR California Code of Regulations
- 93. CCS Cellular Confinement System
- 94. CCS Corinthian Cast Stone
- 95. CDA Coefficient of Dynamic Augment
- 96. CDM Cement Deep Mixing
- 97. CEC Canadian Electrical Code
- 98. CECCO Construction Employers Coordinating Council of Ontario
- 99. CEMP Comprehensive Emergency Management Plan

- 100. CEO Consulting Engineers of Ontario
- 101. CEQA California Environmental Quality Act
- 102. CERCLA Comprehensive Environmental Response Compensation and Liability Act
- 103. CF Cold Finish
- 104. CF Complete Finisher
- 105. CFR Code of Federal Regulations
- 106. CFRD Concrete Face Rock fill Dams
- 107. CFRP Carbon Fiber Reinforced Panel
- 108. CGMP Current Good Manufacturing Practice
- 109. CHICO Camera Honduran de la Industrial de la Construction
- 110. CIA Cold Inducted Air
- 111. CIACO Construction Industry Advisory Council of Ontario
- 112. CII Confederation of Indian industry
- 113. CIP Cast Iron Pipe
- 114. CIP Construction In Progress
- 115. CIPE Certified In Plumbing Engineering
- 116. CIPP Cast Iron Pressure Pipe
- 117. CISC Canadian Institute of Steel Construction
- 118. CISP Cast Iron Soil Pipe
- 119. CISP Construction Industry Service Program
- 120. CITC Canadian Institute for Timber Construction
- 121. CLFDB Canadian Labor Force Development Board
- 122. CLSAB Canadian Lumber Standards Accreditation Board
- 123. CM Corrugated Metal
- 124. CMA Congestion Management Program
- 125. CMB Construction Materials Board (DND, Canada)
- 126. CMCEFCanadian Mechanical Contractors Education Foundation
- 127. CMMA Corrugated Metal – Metal Arch
- 128. CMMAC Corrugated Metal – Metal Arch Culvert
- 129. CMP Corrugated Metal Pipe (Round)
- 130. CMU Concrete Masonry Unit
- 131. CO Change Order
- 132. COCA Council of Ontario Construction Associations
- 133. COE Corps Of Engineers
- 134. CONSTConstruction

- 135. CP Clay Pipe - Standard Strength
- 136. CP Construction Planning
- 137. CP Cost Proposal
- 138. CP-ES Clay Pipe - Extra Strength
- 139. CPAP Construction Premium Adjustment Program
- 140. CPCI Canadian Precast/ Prestressed Concrete Institute
- 141. CPDM Comprehensive Pavement Design Manual
- 142. CPI Coalescing Plate Interceptor
- 143. CRPH Cross Recess Pan Head
- 144. CS Corrugated Steel
- 145. CSC Construction Specifications Canada
- 146. CSDFMA Canadian Steel Door and Frame Manufacturers' Association
- 147. CSI Construction Specifications Institute
- 148. CSMA Corrugated Steel - Metal Arch
- 149. CSMAC Galvanized Corrugated Steel - Metal Arch Culvert
- 150. CSP Corrugated Steel Pipe
- 151. CSPI Corrugated Steel Pipe Institute
- 152. CSS Complete Sewer Separation
- 153. CSSBI Canadian Sheet Steel Building Institute
- 154. CSW Critical Structural Weakness
- 155. CWA Clean Water Act of 1982
- 156. CWC Canadian Wood Council
- 157. CWT Copper Water Tube
- 158. DBFO Design, Build, Finance and Operate
- 159. DCI Dares Corrosion Inhibitor
- 160. DCIA Directly Connected Impervious Area
- 161. DCN Daily Commercial News
- 162. DFI Defining Formula for Inhabitation
- 163. DFRCC Ductile Fiber Reinforced Cementations Composite
- 164. DFS Decayed and Filled Surfaces
- 165. DI Ductile Iron
- 166. DIBT Detaches Institute fur BauTechnik
- 167. DIP Ductile Iron Pipe
- 168. DIY 'DIY' . . . Do It Yourself;
- 169. DL Drainage Layer

170.	DO	Do Over
171.	DOAS	Dedicated Outdoor Air System
172.	DOE	Department Of Energy
173.	DPC	Damp Proof Course
174.	DRA	Differential Reinforcement of Alternative
175.	DSA	Department of State Architects
176.	DSA	Division of the State Architect (California)
177.	DSEAR	Dangerous Substances And Explosive Atmospheres Regulations
178.	DTSC	California Department of Toxic Substances Control
179.	E&C	Engineering and construction.
180.	EBV	Exhaust Back-pressure Valve
181.	ECAO	Electrical Contractors Association of Ontario
182.	ECDA	External Corrosion Direct Assessment
183.	ECWC	Employers' Council on Workers' Compensation
184.	ED&P	Engineering Design and Procurement
185.	EEBA	Energy and Environmental Building Association
186.	EEC	Effect Effluent Concentration
187.	EEMAC	Electrical and Electronic Manufacturers' Association of Canada
188.	EERE	Energy Efficiency and Renewable Energy Clearing House
189.	EIB	European Installation Bus
190.	EIR	Environmental Impact Report
191.	ELSA	European Laboratory for Structural Assessment
192.	EMC	Event Mean Concentration
193.	EOS	Equivalent Opening Size
194.	EPA	Environmental Protection Agency
195.	EPC	Engineering, procurement and construction.
196.	EPC and BOP	Engineering, Procurement, and Construction, and Balance of Plant
197.	EPCM	Engineering, Procurement, Construction, and Management
198.	EPP	Environmentally Preferable Product
199.	EPS	Expanded Polystyrene
200.	EPSCA	Electrical Power Systems Construction Association
201.	ES	Edge Split
202.	ESA	Electrical Safety Authority
203.	ESA	Environmentally Sensitive Area
204.	ESA	Equipment Stop Area

205.	ESC	Erosion and Sedimentation Control
206.	ESP	Electrical Submersible Pump
207.	ETABS	Extended Three Dimensional Analysis of Building Systems
208.	FC	Flexi Crete
209.	FCCL	Fuji Cement Company Limited
210.	FCFG	Facing Gauge for Fiber Cement
211.	FCR	Fast Cast Rate
212.	FEMA	Federal Emergency Management Agency
213.	FENSA	Fenestration Self-Assessment Scheme
214.	FHWA	Federal Highway Administration
215.	FLK	Friction Larsson Konstruktionsbyrå
216.	FLT	Flow line Lifting Tool
217.	FM	Field Memo
218.	FM	Force Main
219.	FMA	Final Mechanical Art
220.	FMC	Facility Management Centre
221.	FO	Field Order
222.	FRP	Fiber Reinforced Plastic
223.	FSEC	Florida Solar Energy Center
224.	FT	Frame Thickness
225.	FWD	Field Work Directive
226.	G1S	Good One Side
227.	GBC	Green Building Council
228.	GC	General Contractor
229.	GCT	Gulf Concrete Technology
230.	GIRI	Jerry-rigged
231.	GIS	Geographical Information System
232.	GLULAM	Glue-Laminated Beam
233.	GMP	Goat Manure Plaster
234.	GS	Grade Stamped
235.	GS	Grid Standpipe
236.	GSFT	Glazed Structural Facing Tile

- 237. GTAW Gas Tungsten Arc Welding
- 238. HAZMAT Hazardous Material
- 239. HCA Hamilton Construction Association
- 240. HDPE High Density Polyethylene
- 241. HET High Efficiency Toilet
- 242. HFL High Flood Level
- 243. HPFRCC High Performance Fiber Reinforced Cement Composites
- 244. HS Hard Surface
- 245. HS Home Site
- 246. HSG Hydrologic Soil Group
- 247. IAQA Indoor Air Quality Association
- 248. IBACOS Integrated Building And Construction Solutions
- 249. IBC Insurance Bureau of Canada
- 250. IBC International Building Code
- 251. ICA Industrial Construction Association
- 252. ICBO International Conference of Building Officials
- 253. ICC International Code Council
- 254. ID Inside Dimensions
- 255. IMC In Mold Cutting
- 256. IMT Immersed Tube Tunnel
- 257. IPM Integrated Pest Management
- 258. ISMB Indian Standard Medium weight Beams
- 259. ISOP Interim Structural and Operational Plan
- 260. IW Induction Welding
- 261. JAL JAIPRAKASH ASSOCIATES LIMITED
- 262. JHSC Joint Health and Safety Commission
- 263. JOD Joint Occupancy Date
- 264. JURMP Jurisdictional Urban Runoff Management Program
- 265. LC Level Compressed
- 266. LEED Leadership in Energy & Environmental Design
- 267. LISA LCA (Life Cycle Assessment) In Sustainable Architecture
- 268. Ln. Lane
- 269. loc. location
- 270. LP Level Points
- 271. LP Loft Plan



272.	LRFD	Load and Resistance Factor Design
273.	LVF	Low Velocity Fasteners
274.	M/F	male to female
275.	MAH	Mahogany
276.	MAWL	Maximum Allowable Working Load
277.	MBS	Management Board Secretariat
278.	MCAA	Mechanical Contractors Association of America
279.	MCAC	Mechanical Contractors Association of Canada
280.	MCCPAP	Massachusetts Construction Classification Premium Adjustment Program
281.	MCIOB	Membership of the Chartered Institute of Building
282.	ME	Metal Edge
283.	MEP	Maximum Extent Practicable
284.	MEWP	Mobile Elevating Work Platform
285.	MIAC	Mechanical Industry Advisory Committee
286.	MILTFD	Make It Like The Frigging Drawing
287.	MLS	Multi-Layered Steel
288.	MMAW	Manual Metal Arc Welding
289.	MNECH	Model National Energy Code of Canada for Houses
290.	MOC	Materials Of Construction
291.	MOL	Ministry Of Labor
292.	MS4	Municipal Separate Storm Sewer System
293.	MSDS	Material Safety Data Sheet
294.	MSHA	Mine Safety and Health Administration
295.	MTBC	Mechanical Trades Bargaining Committee
296.	N.E.	Northeast
297.	N.W.	Northwest
298.	NAHB	National Association of Home Builders
299.	NAHBRC	National Association of Home Builders Research Center
300.	NAPHCC	National Association of Plumbing Heating & Cooling Contractors
301.	NBC	National Building Code of Canada
302.	NC	Non-Collapse
303.	NCCT	Northern California Construction Training
304.	NE	Northeast
305.	NEAT	Novel Environmental Advanced Technology
306.	NEC	National Electrical Code

- 307. NECB National Energy Code of Canada for Buildings
- 308. NER National Evaluation Report
- 309. NES National Evaluation Service
- 310. NFBC National Farm Building Code of Canada
- 311. NFC National Fire Code (Canada)
- 312. NFS Not Frigging Stable
- 313. NHBRC National Home Builders Regulatory Council (South Africa)
- 314. NIBS National Institute of Building Sciences
- 315. NICET National Institute for Certification in Engineering Technologies
- 316. NIST National Institute of Standards and Technology
- 317. NLTF North LPG Tank Farm (Kuwait) (project name)
- 318. NMFS National Marine Fisheries Service
- 319. NNF Not Normally Flowing
- 320. NOAA National Oceanographic and Atmospheric Administration
- 321. NOI Notice Of Intent
- 322. NPDES National Pollution Discharge Elimination System
- 323. NPS Non-Point Source
- 324. NPT National Pipe Taper (thread); (cf. NPS)
- 325. NRC National Research Council of Canada
- 326. NRC National Response Center
- 327. NRCS Natural Resources Conservation Service
- 328. NSF National Science Foundation
- 329. NURP National Urban Runoff Program
- 330. NVSD Non-Vibration Sand Drain
- 331. NW Northwest
- 332. NWSP North West Shelf Project
- 333. NWT Noise When Tapped
- 334. O&G Oil and Grease
- 335. O&M Operations and Maintenance
- 336. O/M Operations and Maintenance
- 337. OBC Ontario Building Code
- 338. OBDC Ontario Bid Depository Council
- 339. OBSROV Observation class Remotely Operated Vehicle
- 340. OCA Ottawa Construction Association
- 341. OCCA Ontario Control Contractors Association

- 342. OCEW On Center Each Way
- 343. OCS Ontario Construction Secretariat
- 344. OEA Office of the Employers' Advisory (for WCB)
- 345. OESC Ontario Electrical Safety Code
- 346. OFC Ontario Fire Code
- 347. OFL Ontario Federation of Labor
- 348. OGCA Ontario General Contractors Association
- 349. OHBA Ontario Home Builders' Association
- 350. OHS Act Occupational Health & Safety Act
- 351. OHW Oil-fired Hot Water heater
- 352. OIRCA Ontario Industrial Roofing Contractors' Association
- 353. OITAB Ontario Industry Training & Adjustment Board
- 354. OJSPC Ontario Joint Standard Practice Committee
- 355. OLRB Ontario Labor Relations Board
- 356. OMC Optimum Moisture Content
- 357. OMC Odhisa Mining Corporation
- 358. OPC Ordinary Portland Cement
- 359. OPCEA Ontario Pollution Control Equipment Association
- 360. OPIA Ontario Plumbing Inspectors Association
- 361. OPSD Ontario Provincial Standard Drawing
- 362. OPSS Ontario Provincial Standard Specification
- 363. OPTC Ontario Pipe Trades Council
- 364. OSDS On-Site Disposal System
- 365. OSHA Occupational Safety and Health Administration
- 366. OSM&AHG Ontario Sheet Metal & Air Handling Group
- 367. OTAB Ontario Training Adjustment Board
- 368. OTW 'OFF THE WALL'
- 369. OWST Organic Waste Storage Tank
- 370. P2 Pollution Prevention
- 371. PAC Provincial Advisory Committee
- 372. PAF Plant Availability Factor
- 373. PAH Poly-Aromatic Hydrocarbon
- 374. PAM Poly-Acrylamide
- 375. PAP Permit Application Package
- 376. PCB Poly-Chlorinated Biphenyl

377.	PCC	Portland Cement Concrete
378.	PCCO	Prime Contract Change Order
379.	PCE	Prestressed Concrete Erection
380.	PCHWP	Process Chilled Water Pump
381.	PCO	Potential Change Order
382.	PCO	Proposed Change Order
383.	PCR	Project Completion Report
384.	PCWBS	Preliminary Control Work Breakdown Structure
385.	PDO	Project Design Outline
386.	PDS	Project Data Sheet
387.	PED	Preconstruction Engineering and Design
388.	PEP	Polyethylene Pipe
389.	PEP	Project Execution Plan
390.	PLF	Plant Load Factor
391.	PME	Participatory Monitoring and Evaluation
392.	PMG	Project Management Group
393.	PO	Project Originals
394.	POD	Position, Orientation, and Direction
395.	POTW	Publicly Owned Treatment Works
396.	PPC	Portland Pozzolona Cement
397.	PPFA	Plastic Pipe and Fittings Association
398.	PPT	Pollution Prevention Team
399.	PQ	Pre-Qualification
400.	PSD	Particle Size Distribution
401.	Psg.	Passage
402.	PVCP	Polyvinyl Chloride Pipe
403.	PVD	Prefabricated Vertical Drain
404.	RAC	Régime d'Apprentissage en Construction
405.	RAME	Rush Architectural Metal Erectors
406.	RB	River Bank
407.	RBEC	Registered Building Envelope Consultant
408.	RC	Reinforced Concrete
409.	RCA	Reinforced Concrete Arch
410.	RCC	Reinforced Cement Concrete
411.	RCHE	Reinforced Concrete Horizontal Elliptical

412.	RCP	Round Reinforced Concrete Pipe
413.	RCPA	Reinforced Concrete Pipe-Arch
414.	RCPHE	Reinforced Concrete Pipe Horizontal Elliptical
415.	RCRA	Resource Conservation and Recovery Act
416.	RFP	Request for Pricing
417.	RFP	Request For Proposal
418.	RFSW	Raised Face Socket Weld (i.e., face of a pipe flange)
419.	RLR	Reciprocal Licensing Review Board
420.	ROJ	Required On Job site
421.	ROR	Repair Of Repairable
422.	RSPC	Regulated Set Portland Cement
423.	RTFO	Rolling Thin Film Oven
424.	RTR	Reinforced Thermosetting Resin
425.	RTRC	Reinforced Thermosetting Resin Conduit
426.	RTRP	Reinforced Thermosetting Resin Pipe
427.	RWDP	Rain Water Drain Pipe
428.	RWQCB	Regional Water Quality Control Board
429.	S.E.	Southeast
430.	S.W.	Southwest
431.	SAP	Sampling and Analysis Plan
432.	SAPS	Site Assessment Prioritization System
433.	SARA	Superfund Amendments and Reauthorization Act
434.	SBCCI	Southern Building Codes Congress International
435.	SCP	Sand Compaction Pile
436.	SD	Sand Drain
437.	SDSS	Super Duplex Stainless Steel
438.	SE	Southeast
439.	SFPM	Surface Feet Per Minute
440.	SIC	Standard Industrial Classification
441.	SINA	Safety Is No Accident
442.	SIP	Structural Insulated Panel
443.	SJI	Steel Joist Institute
444.	SK	Skein = Hank
445.	SLC	Self-Leveling Compound
446.	SMK	Stone Mastic Kerosene

- 447. SMT Surface Modification Technology
- 448. SNEBRN Smart Net-Zero Energy Buildings Strategic Research Network
- 449. SP Steel Pipe
- 450. SPCC Spill Prevention Control and Countermeasure
- 451. SRW Segmental Retaining Wall
- 452. STGO Special Transport Group Order
- 453. STMS Site Traffic Management Supervisor
- 454. SUD Stretched Upper Deck
- 455. SUSMP Standard Urban Storm water Mitigation Plan
- 456. SW Southwest
- 457. SWMP Storm Water Management Program
- 458. SWPCP Storm Water Pollution Control Plan
- 459. SWPPP Storm Water Pollution Prevention Plan
- 460. SWRCB State Water Resource Control Board
- 461. TBR Tolerance By References
- 462. TCA Toronto Construction Association
- 463. TD Tender Design
- 464. TEC Thermal Efficient Control
- 465. TIPS Temporary Interior Protection System
- 466. TMDL Total Maximum Daily Load
- 467. TN Town
- 468. TOC Total Organic Carbon
- 469. TPIF Two Point Incremental Forming
- 470. TQA Trades Qualification Act
- 471. TSS Total Suspended Solids
- 472. TT Turning Tree
- 473. TTMAC Terrazzo, Tile, and Marble Association of Canada
- 474. UBC Uniform Building Code
- 475. UFC Uniform Fire Code
- 476. UL Underwriters Laboratories
- 477. ULC Underwriters' Laboratories Canada
- 478. USACE United States Army Corps of Engineers
- 479. USBIC Sustainable Buildings Industry Council
- 480. USDA United States Department of Agriculture
- 481. USDOT United States Department Of Transportation

- 482. USEPA United States Environmental Protection Agency
- 483. USGBC United States Green Building Council
- 484. V Virgin
- 485. VEC Value Engineering Cost
- 486. VESDA Very Early Smoke Detection Apparatus
- 487. VMA Variable Air Volume Modular Assembly
- 488. VMB Valve Manifold Box
- 489. VOC Volatile Organic Compounds
- 490. VOR Variation Order Request
- 491. VOU Voussoir (=arch brick)
- 492. VTL Vertical Turret Lathe
- 493. VTS Vendor Technical Specification
- 494. WCAT Workers' Compensation Appeals Tribunal
- 495. WEF Water Environment Federation
- 496. WH Warnock Hersey Mark
- 497. WHMIS Workplace Hazardous Materials Information System
- 498. WHSA Workplace Health and Safety Association
- 499. WIC Walk In Closet
- 500. WSIB Workplace Safety and Insurance Board

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