

## 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. CMCEF Canadian 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. CONST Construction

- 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. HPCRCC 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. OHSA 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 THA 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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