



1.2 TERMS AND ABBREVIATIONS

1.2.1 GENERAL

This BDM defines terms and standard abbreviations used in the BDMs. Unless indicated otherwise, interpret the meaning of a term or abbreviation used in the BDMs as defined in this memo.

1.2.2 TERMS

Article—Article in the Caltrans adopted *AASHTO LRFD Bridge Design Specifications with California Amendments*.

Shall—Indicates a requirement for compliance.

Should—Indicates a strong preference for a given criterion.

May—Indicates a permissible criterion.

1.2.3 ABBREVIATIONS

1.2.3.1 National Organizations

AASHTO—American Association of State Highway and Transportation Officials

ACI—American Concrete Institute

AISC—American Institute of Steel Construction

AISI—American Iron and Steel Institute

AREMA—American Railway Engineering and Maintenance-of-Way Association

ASBI—American Segmental Bridge Institute

ASCE—American Society of Civil Engineers

ASTM—American Society for Testing and Materials

AWS—American Welding Society

FEMA—Federal Emergency Management Agency

FHWA—Federal Highway Administration

PCI—Precast/Prestressed Concrete Institute

PTI—Post-tensioning Institute

NCHRP—National Cooperative Highway Research Program

NHI—National Highway Institute



NOAA—National Oceanic and Atmospheric Administration

NSBA—National Steel Bridge Alliance

NTSB—National Transportation Safety Board

TRB—Transportation Research Board

USDOT—United States Department of Transportation

1.2.3.2 Caltrans Organizations

Caltrans—California Department of Transportation

DES—Division of Engineering Services

GS—Geotechnical Services

METS—Materials Engineering and Testing Services

OEEAR—Office of Earthquake Engineering Analysis & Research

PPM&OE—Program/Project Management and Office Engineer

SM&I—Structure Maintenance and Investigation

SC—Structure Construction

SD—Structure Design

SP&I—Structure Policy and Innovation

1.2.3.3 Terminology

ABC—Accelerated Bridge Construction

ASD—Allowable Stress Design

CIDH—Cast-in-Drilled-Hole

CIP—Cast-in-Place

CISS—Cast-in-Steel-Shell

CPM—Capacity Protected Members

ECR — Epoxy-Coated Reinforcement

EDA—Elastic Dynamic Analysis

ERE—Earthquake-Resisting Element

ERS—Earth Retaining System

FCM—Fracture Critical Member

FEA—Finite Element Analysis

FEE—Functional Evaluation Earthquake



FEM—Finite Element Model
FPSB—Friction Pendulum Sliding Bearing
GGL—Gamma-Gamma Logging
GP—General Plan
HDPE—High Density Polyethylene
IQA—Independent Quality Assurance
LFD—Load Factor Design
LRB—Lead-core Rubber Bearing
LRFD—Load and Resistance Factor Design
MSE—Mechanically Stabilized Embankment
NBI—National Bridge Inventory
NDT—Nondestructive Testing
NHS —National Highway System
NSSP—Caltrans Nonstandard Special Provisions
NTHA—Nonlinear Time History Analysis
P&Q—Plans and Quantities
PC RCB—Precast Reinforced Concrete Box
PCC—Portland Cement Concrete
PC/PS—Precast/Prestressed
PE—Project Engineer
PSDC—Project Specific Design Criteria
PS&E—Plans, Specifications, and Estimates
PT—Post-Tensioned; Post-Tensioning
PS—Prestressed
QA—Quality Assurance
QC—Quality Control
RC—Reinforced Concrete
RCB—Reinforced Concrete Box
RSC—Rapid Strength Concrete
RSP—Rock Slope Protection
SCM—Seismic Critical Member, Supplementary Cementitious Material



SEE—Safety Evaluation Earthquake

SHS—State Highway System

1.2.3.4 Technical Publications

AASHTO-CA BDS-8—AASHTO LRFD Bridge Design Specifications, 8th Edition, with California Amendments (2019)

AASHTO MBE—AASHTO Manual for Bridge Evaluation

BCM—Caltrans Bridge Construction Memos

BDD—Caltrans Bridge Design Details Manual

BDM—Caltrans Bridge Design Memos

BDP—Caltrans Bridge Design Practice Manual

BDPPM—Caltrans Bridge Design Process and Procedure Manual

CFR—Code of Federal Regulations

LAPM—Caltrans Local Assistance Procedures Manual

SDC —Caltrans Seismic Design Criteria

SDSSB—Caltrans Seismic Design Specifications for Steel Bridges

SSP—Caltrans Standard Special Provisions

STP—Caltrans Structure Technical Policy

1.2.4 REFERENCES

1. AASHTO. (2017). *AASHTO LRFD Bridge Design Specifications*, 8th Edition, American Association of State Highway and Transportation Officials, Washington.
2. Caltrans. (2019). *California Amendments to AASHTO LRFD Bridge Design Specifications*, 8th Edition, California Department of Transportation, Sacramento, CA.