

APPENDIX A

ABBREVIATIONS

- A -

A	Vertical Acceleration
AAR	Association of American Railroads
AASHTO	American Association of State Highway and Transportation Officials
ABS	Automatic Block System
ac	Alternating Current
AC	Asphalt Concrete
AC Transit	Alameda-Contra Costa Transit District
ACE	Altamont Commuter Express
ACI	American Concrete Institute
ACTS	Advanced Train Control System
ADA	Americans with Disabilities Act
ADAAG	Americans with Disabilities Act Accessibility Guidelines
ADT	Average Daily Traffic
AG	Average Grade
AIM	Advance Information Management
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AMP	Ampere
AMTRAK	National Passenger Railroad Corporation
ATCS	Advanced Train Control System
ANSI	American National Standards Institute
APC	American Power Conversion
API	American Petroleum Institute
AREA	American Railway Engineering Association
AREMA	American Railroad Equipment and Maintenance of Way Association

ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers, Incorporated
ASME	American Society of Mechanical Engineers
ASPRS	American Society of Photogrammetry and Remote Sensing
ASTM	American Standard for Testing and Materials (ASTM International)
ATCS	Advanced Train Control System
AWG	American Wire Gage
AWPA	American Wood Preservers Association
AWS	American Welding Society
AWWA	American Water Works Association

- B -

BAA	Boarding Assistance Area
BAAQD	Bay Area Air Quality District
BART	Bay Area Rapid Transit District
BER	Bit Error Rate
BDS	(Caltrans) Bridge Design Specifications Manual
BICSI	Building Industries Consulting Services International
BIH	Bureau International de l'Heuer
BMP	Best Management Practices
BTU	British Thermal Unit
BVC	Beginning of Vertical Curve

- C -

C	Celcius
CADD	Computer-Aided Design And Drafting



CAL/OSHA California Occupational Safety
And Health Administration

- D -

CAT Category
CBC California Building Codes
CBSC California Building Standards Code
CC Point of Compound Curve
CCF Central Control Facility
CCJPA Capital Corridor Joint Powers
Authority
CCR California Code of Regulations
CCS California Coordinate System
CCTV Closed Circuit Television
CEMOF Centralized Equipment Maintenance
and Operations Facility
CEQA California Environmental Quality Act
CER Communications Equipment Room
CFR Code of Federal Regulations
CHSRA California High Speed Rail Authority
CIC Communication Interface Cabinet
CID Card Interface Device
CIF Common Intermediate Format
CLEC Competitive Local Exchange Carrier
CM Circuit Merit
C & S Communications and Signals
CORS Continually Operating Referencing
Stations
CP Control Point
CPTED Crime Prevention Through
Environmental Design
CPUC California Public Utilities Commission
CRC Cyclical Redundancy Check
CRSI Concrete Reinforcing Steel Institute
CS Curve to Spiral
CSRC California Spatial Reference Center
CTC Centralized Traffic Control
CTS Cable Transmission System
CTX CalTrain Express
CWA Clean Water Act
CWR Continuous Welded Rail
CWT Constant Warning Time

D Absolute value of the difference in rates
of grades expressed in decimal
D_c Degree of Curvature
DAQ Delivered Audio Quality
DAT Digital Audio Tape
dB Decibel
DB Design Build
DBB Design Bid Build
DBM Design Basis Memorandum
dc Direct Current
DC Distribution Cabinet
DG Distance Grade
DED Dragging Equipment Detector
DOD Department of Defense
DOJ Department of Justice
DOT Department of Transportation
DRC Dumbarton Rail Corridor
DS0 base-band
DTM Digital Terrain Model
DTX Digital Touch Exchange
DTX Downtown Extension
DVR Digital Video Recorder
Δ Delta, Total Intersection Angle

- E -

e Equilibrium Superelevation
E_a Actual Superelevation
E_u Unbalanced Superelevation
EIA Electronic Industry Alliance
EIC Employee in Charge
EL Elevation
EMI Electromagnetic Interference
EPA Environmental Protection Agency
ERBC Error Rate Block Control
ERP Effective Radiated Power
EVC End of Vertical Curve

- F -

F	Fahrenheit
FCC	Federal Communications Commission
FEC	Forward Error Correction
FGCS	Federal Geodetic Control Subcommittee
FHWA	Federal Highway Administration
FIDS	Fire and Intrusion Detection System
FOC	Fiber Optic Cable
FM	Frequency Modulation
FPS	Feet Per Second
FRA	Federal Railroad Administration
FT	Feet
FTA	Federal Transit Administration

- G -

G	Gradient
Gbps	Gigabits per second
GCOR	General Code of Operating Rules
GETS	General Electric Transportation Systems
GIS	Geographic Information System
GMSK	Gaussian Minimum Shift Keying
GO	General Orders
GPS	Global Positioning System
GRS	Galvanized Rigid Steel
GRS	Geodetic Reference System

- H -

HARN	High Accuracy Reference Network
HDPE	High-Density Polyethylene
HF	Head Free
HMAC	Hot Mixed Asphalt Concrete
HSP	Hub Signage Program
HST	High Speed Train
HVAC	Heating, Ventilating and Air Conditioning
Hz	Hertz

- I -

I	Total Intersection Angle
ICEA	Insulated Cable Engineers Association, Incorporated
IEEE	Institute of Electrical and Electronic Engineers
IESNA	Illuminating Engineering Society of North America
IFB	Issue for Bid
IN	inches
I/O	Input / Output
IP	Internet Protocol
IPCEA	Insulated Power Cable Engineers Association
ITE	Institute of Transportation Engineers
ITE	Institute of Traffic Engineers

- J -

JPB	Joint Powers Board
JPEG	Joint Photographic Experts Group

- K -

K	2.15 conversion factor to give L, in feet, for a vertical curve
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- L -

L	Length
L_c	Length of curve
L_s	Length of spiral
LA	Local Agency
LAN	Local Area Network
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LOS	Loss-of-Shunt Level of Service
LRT	Light Rail Train

- M -

M	Correction in Elevation at PVI
MAS	Maximum Authorized Speed
Mbps	Megabits per second
MCP	Mobile Communications Package
MDF	Main Distribution Frame
MEP	Mechanical, Electrical, Plumbing
MM	Multi-Mode Cable
MOW	Maintenance of Way
MPEG	Moving Pictures Expert Group
MPH	Miles per hour
MPOE	Main Point of Entry
MT	Main Track
MTA	Municipal Transportation Agency
MTC	Metropolitan Transportation Commission
MUTCD	Manual on Uniform Traffic Control Devices

- N -

NAD	North American Datum
NAVD	North American Vertical Datum
NEC	National Electric Code
NEC	Northeast Corridor
NEEE	National Electrical and Electronic Engineers
NEMA	National Electrical Manufacturers Association
NEPA	National Environmental Policy Act
NESC	National Electrical Safety Code
NETA	National Electrical Testing Association
NF	Negative Feeder
NFPA	National Fire Protection Agency
NGS	National Geodetic Survey
NGVD	National Geodetic Vertical Datum
NMAS	National Map Accuracy Standards
NPDES	National Pollutant Discharge Elimination System
NPSH	Net Positive Suction Head

NRHP	National Register of Historic Places
NSRS	National Spatial Reference System
NTSB	National Transportation Safety Board
NWR	Normal Switch Control Relay

- O -

O&M	Operations & Maintenance
ORR	Operating Railroad of Record
OS	On Station
OSHA	Occupational Safety and Health Administration
OTM	Other Track Materials

- P -

PA	Public Address
PAS	Public Address System
PC	Point of Curve
PCA	Portland Cement Association
PCC	Portland Cement Concrete
PCI	Precast/Prestressed Concrete Institute
PCJPB	The Peninsula Corridor Joint Powers Board
PDF	Portable Document Format
PF	Point of Frog
pH	Potential of Hydrogen
PI	Point of Intersection
PIDS	Passenger Information Display System
PNA	Passenger Needed Assistance
POC	Point of Connection
POE	Power Over Ethernet
POTS	Plain Old Telephone System
PPM	Parking Permit Machine
ppm	Parts Per Million
PS	Paralleling Station
PS	Point of Switch (Chapter 2)
PT	Point of Tangent
PTP	Point to Point
PTT	Push to Talk
PTZ	Pan Tilt Zoom

PVC	Polyvinyl Chloride
PVI	Point of Intersection for Vertical Curve
- Q -	
QA	Quality Assurance
QC	Quality Control
- R -	
R	Radius
RCP	Reinforced Concrete Pipe
RE	AREMA Rail Section Code
RF	Radio Frequency
RFI	Request for Information
RHGCH	Railroad-Highway Grade Crossing Handbook
RMS	Root Mean Square
ROCS	Rail Operations Control System
ROW	Right-of-Way
RR	Railroad
RSI	Random Signature Island
RSSI	Received Signal Strength Indicator
RTK	Real Time Kinematics
RUS	Rural Utilities Services
RWP	Roadway Worker Protection
RWQCB	Regional Water Quality Control Board
RWR	Reverse Switch Control Relay

- S -

S1	Slope of Entering Tangent in Percent
S2	Slope of Departing Tangent in Percent
SamTrans	San Mateo County Transit District
SBHRS	South Bay Historical Railroad Society
SC	Spiral to Curve
SCADA	Supervisory Control And Data Acquisition
SCC	Station Communication Cabinet

SCFMR	Safety Code for Mechanical Refrigeration
SCRRA	Southern California Regional Rail Authority
SCS	Supervisory Control Systems
SD	Standard Drawings
Sec	Second
SFMTA	San Francisco Metropolitan Transportation Agency
SF MUNI	San Francisco Municipal Railway
SFO	San Francisco Airport
SHPO	State Historic Preservation Office
SINAD	Signal In Noise And Distortion
SM	Single-Mode
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SMRC	Safety Modification Review Committee
S/N	Signal to Noise Ratio
SOGR	State of Good Repair
SP	Southern Pacific Railroad
SSPWC	Standard Specifications for Public Works Association
SSWP	Site Specific Work Plan
ST	Spiral to Tangent
STI	Speech Transmission Index
SSCC	Solid State Crossing Controllers
SWPPP	Storm Water Pollution Prevention Plan

- T -

T	Tangent Distance (Semi-Tangent)
TASI	Transit American Services Incorporated
T_c	Tangent of Circular Curve
TCE	Temporary Construction Easement
TCG	Track Clearance Green
TCP	Transmission Control Protocol
TDMM	Telecommunications Distribution Methods Manual
TELCO	Telecommunications
TES	Traction Electrification System
TIA	Telecommunications Industry Associates

TID	Transit Information Display		
TIN	Triangulated Irregular Network		
TJPA	Transbay Joint Powers Authority	WAN	Wild Area Network
TN	Ton	WCO	West Coast Operations
T.O.	Turnout	WCP	World Climate Program
TOD	Transit-Oriented Development	WGS	World Geodetic System
TPOB	Ton Per Operative Brake		
TOR	Top of Rail		
TPC	Train Performance Calculator		
TS	Tangent to Spiral		
TSAM	Transmitter Steering Audio Matrix		
TSSS	Total Station Survey System		
TTC	Transbay Terminal Center		
TVM	Ticket Vending Machine		

- U -

UBC	Uniform Building Code
UDP	User Datagram Protocol
UL	Underwriters Laboratories, Incorporated
UP	Union Pacific Railroad
UPRR	Union Pacific Railroad
UPS	Uninterruptible Power Supply
USACE	United States Army Corps of Engineers
USDOT	United States Department of Transportation

- V -

V	Design Speed
V	Volt
Vac	Volt alternating current
Vdc	Volt direct current
VHF	Very High Frequency
VHLC	Vital Logic Control
VLAN	Virtual Local Area Network
VMS	Visual Message Sign
VOX	Voice Activated
VTA	Santa Clara Transportation Authority