Appendix A – Abbreviations

A

abutment ..... abut
acres ..... ac
acre-feet ..... ac-ft
afternoon ..... PM
air blown mortar ..... ABM
alternate ..... alt
ahead ..... ah
approximate ..... approx
asbestos cement pipe ..... ACP
asphalt concrete ..... AC
asphalt concrete pavement ..... AC pav
assembly ..... assem
at ..... spell out or @
avenue ..... Ave
average ..... Avg

B

back ..... Bk
back-to-back ..... b-b
barrels ..... bbl
beginning of bridge ..... BB
begin horizontal curve ..... BC
begin vertical curve ..... BVC
bench mark ..... BM
blows per foot ..... bpf
board feet (foot board measure) ..... fbm
board feet, 1,000 ..... Mbm
bottom ..... bot
boulevard ..... Blvd
bridge ..... Br
bridge approach guard railing ..... BAGR
bridge-log mile ..... BLM
British thermal unit ..... BTU
building ..... bldg

C

calorie ..... cal
candlepower ..... cp
cast iron CI
cast-in-place ..... CIP
cast iron pipe ..... CIP
cast-in-drilled-hole ..... CIDH
centers ..... ctrs
centerline ..... ℄ or CL
center of gravity ..... CG
center to center ..... C-C
Celcius (formerly Centigrade) C
centimeters ..... cm
chain link CL
chain link fence (6-ft) ..... CL-6 fence
clearance, clear ..... clr
column ..... col
concrete ..... conc
concrete barrier ..... CB
concrete block wall ..... CBW
concrete pavement ..... PCC pvmt
construction ..... const
continuous ..... cont
coordinate ..... coord
corrugated metal ..... CM
corrugated steel pipe ..... CSP
corrugated steel pipe arch ..... CSPA
countersink ..... csk
county ..... Co.
creek ..... Cr
crossing ..... Xing
cross section ..... X Sect
cubic foot ..... CF or cu ft
cubic inch ..... cu in
cubic yard ..... CY or cu yd
culvert ..... culv

D

degrees, angular ..... ° or deg
degrees, thermal ..... C or F
diameter ..... dia
diaphragm ..... diaph
district ..... Dist
double ..... Dbl
double metal beam barrier ..... DMBB
Douglas fir ..... DF
downdrain ..... DD
drive ..... Dr
driveway ..... DWY
drop inlet ..... DI

E

each ..... ea
easement ..... ease.
East ..... E
edge of deck ..... ED
edge of pavement ..... EP
edge of shoulder ..... ES
endwall ..... EW
electric ..... elect
electrolier ..... elec
elevation ..... elev
embankment ..... emb
end of bridge ..... EB
end horizontal curve ..... EC
end vertical curve ..... EVC
engineer ..... engr
excavation ..... exc
expansion ..... exp
existing ..... exist
exterior ..... ext

F

Fahenheit ..... F
far side ..... FS
feet (foot) ..... ft
feet per minute ..... fpm
feet per second ..... fps
figure ..... fig.
floor beam ..... FB
foot kips ..... ft-kips
foot pounds ..... ft-lbs
footing ..... ftg
fore noon ..... AM
free on board ..... fob
freeway ..... fwy

G

gallons ..... gal.
galvanized ..... galv
galvanized steel pipe ..... GSP
gauge ..... ga
guard railing ..... GR
gutter ..... gtr

H

headwall ..... hdwl
height (retaining wall) ..... H
hexagonal head ..... hex hd
high strength ..... HS
high water ..... HW
high water mark ..... HWM
highway ..... hwy
horizontal ..... horiz
hours ..... hr
hundreds C

I

inches ..... in.
inside diameter ..... ID
inside face ..... IF
interior ..... int

J

joint ..... jt
junction ..... jct

K

kilometers ..... km
kilopounds ..... kips

L

Latiude ..... Lat
layout line ..... LOL
left ..... Lt
linear feet ..... LF
Longitude ..... Long
longitudinal ..... longit
lumens ..... lum
lump sum ..... LS

M

maintenance ..... maint
manhole ..... MH
maximum ..... max
metal beam ..... MB
metal beam barrier ..... MBB
metal beam guard railing ..... MBGR
metal end section ..... MES
metal plate ..... MP
meters ..... m
miles (mile) ..... mi
miles per hour ..... mph
millimeters ..... mm
minimum ..... min
miscellaneous ..... misc
modified ..... mod
monument ..... mon

N

near side ..... NS
North ..... N
number, numbers ..... No., Nos.

O

outside face ..... OF
original ground ..... OG
ounces ..... oz
outside diameter ..... OD
out to out ..... O-O
overcrossing ..... OC
overhead ..... OH

P

page, pages ..... p, pp
pavement ..... pvmt
paving notch ..... PN
pedestrian ..... Ped
pedestrian overcrossing ..... POC
pedestrian undercrossing ..... PUC
perforated aluminum pipe ..... PAP
perforated steel pipe ..... PSP
Plans, Specifications, and Estimate ..... PS&E
plate ..... ℙ or PL
point of compound curve ..... PCC
point of curvature ..... PC
point of reverse curve ..... PRC
point of tangency ..... PT
point on horizontal curve ..... POC
point on vertical curve ..... PVC
point on tangent ..... POT
post mile ..... PM
portland cement concrete ..... PCC
pounds ..... lb
pounds per square inch ..... psi
power pole ..... PP
prestressed ..... P/S
prestressed concrete pipe ..... PCP
pull box ..... PB

Q

quart ..... qt

R

radius ..... R
radius point ..... RP
railroad ..... RR
railway ..... Ry
rate of change ..... R/C
redwood ..... RW
reinforced, reinforcing ..... reinf
reinforced concrete box ..... RCB
reinforced concrete pipe ..... RCP
retaining wall ..... Ret Wall
revised (date) ..... Rev
right ..... Rt
right of way ..... R/W or ROW
road ..... rd
roadway ..... rdwy
rock slope protection ..... RSP
route ..... rte

S

seconds ..... sec
separation ..... Sep
sheet ..... sht
shoulder ..... shld
sidewalk ..... SW
South ..... S
specification ..... spec
square inch ..... sq in
square yard ..... sq yd
station ..... sta
station line ..... SL or SL
street ..... St
structure ..... str
structural steel plate pipe ..... SSPP
subgrade ..... Sg
surface four sides S4S
surfacing ..... surf
symmetrical ..... sym
semi-tangent ..... T

T

tangent ..... Tan
telephone ..... Tel
thousand ..... M
timber ..... Tbe
total ..... tot
transitions ..... trans
typical ..... typ

U

undercrossing ..... UC
underdrain ..... UD
underpass ..... UP

V

variable ..... var
vertical ..... vert
vertical curve VC
vitrefied clay pipe ..... VCP
volume ..... vol

W

water surface ..... WS
watts ..... W
weep hole ..... WH
weight (weights) ..... wt
welded steel pipe ..... WSP
West ..... W
wing wall ..... WW
wire mesh ..... WM

Y

yard, yards ..... yd
year, years ..... yr

Appendix B – Forms

General

The following forms are included in this appendix for your convenience. You may use these forms as a master for making additional copies.

List of Forms

DS-D0005 (Rev. 12/90)	*Authorization for Use of Electronic Signature for Bridge Standard Detail Sheets (XS Sheets)*
DS-D0006 (Rev. 10/92)	*Bridge Standard Detail Sheet (XS Sheet)/Standard Plan – Request for Revisions/New Sheet*
DS-D0144 (Rev. 10/92)	*Changes to Contract Drawings*

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

AUTHORIZATION FOR USE OF ELECTRONIC SIGNATURE FOR BRIDGE STANDARD DETAIL SHEETS (XS SHEETS)

DS-D0005 (Rev. 12/90)

The Technical Committee Chairperson has reviewed the following sheet and has authorized its release onto the CADD system.

I, the undersigned, on the date noted following my signature, hereby authorize my signature to be electronically placed on following Bridge Standard Detail Sheet (XS Sheet) and approves its release for use:

(XS Number) *(Sheet Title)*

_____ _____

_____

_____ _____

Project Engineer *Date*

Original – Technical Publications

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

BRIDGE STANDARD DETAIL SHEET (XS SHEET) / STANDARD PLAN – REQUEST FOR REVISIONS / NEW SHEET

DS-D0006 (REV. 11/92)

INITIATOR	PHONE NO.	DATE

SHEET NO. *(If new XS Sheet, Sheet No. will be assigned by Technical Publications)*

TITLE OF SHEET

Instructions:

1. *Initiator is responsible for obtaining approval from the Technical Committee prior to submittal to Technical Publications.*
2. *Send this request to Technical Publications with redline changes shown on a reduced copy of the Bridge Standard Detail Sheet (XS Sheet) or Standard Plan.*
3. *When changes have been made, a checkprint will be returned to the initiator for approval. If approved or if more changes or corrections are needed, initiator returns checkprint to Technical Publications.*
4. *When changes are finalized and ready for release or re-release, the initiator will be notified.*
5. *FHWA approval is required for both new and revised Standard Plans. Approval will be obtained by Technical Publications.*

☐ Revision to Bridge Standard Detail Sheet (XS Sheet)

☐ Revision to Standard Plan (RSP)

☐ New Bridge Standard Detail Sheet (XS Sheet)

☐ New Standard Plan (NSP)

REMARKS OR INSTRUCTIONS: _____

TECHNICAL COMMITTEE CHAIRPERSON'S APPROVAL	DATE

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

CHANGES TO CONTRACT DRAWINGS

DS-D0144 (REV. 10/92)

DESCRIPTION OF PROJECT

REQUESTOR	SECTION	PHONE NUMBER	DATE
DIST-CO-RTE-PM	BRIDGE NUMBER	BRIDGE NAME	
SOURCE	CHARGE	EA OR CONTRACT NUMBER	

The following sheets have been replaced...

SHEET NUMBER	TITLE

SIGNATURE OF PROJECT ENGINEER OR PROJECT ARCHITECT	SIGNATURE OF SPECIFICATIONS ENGINEER