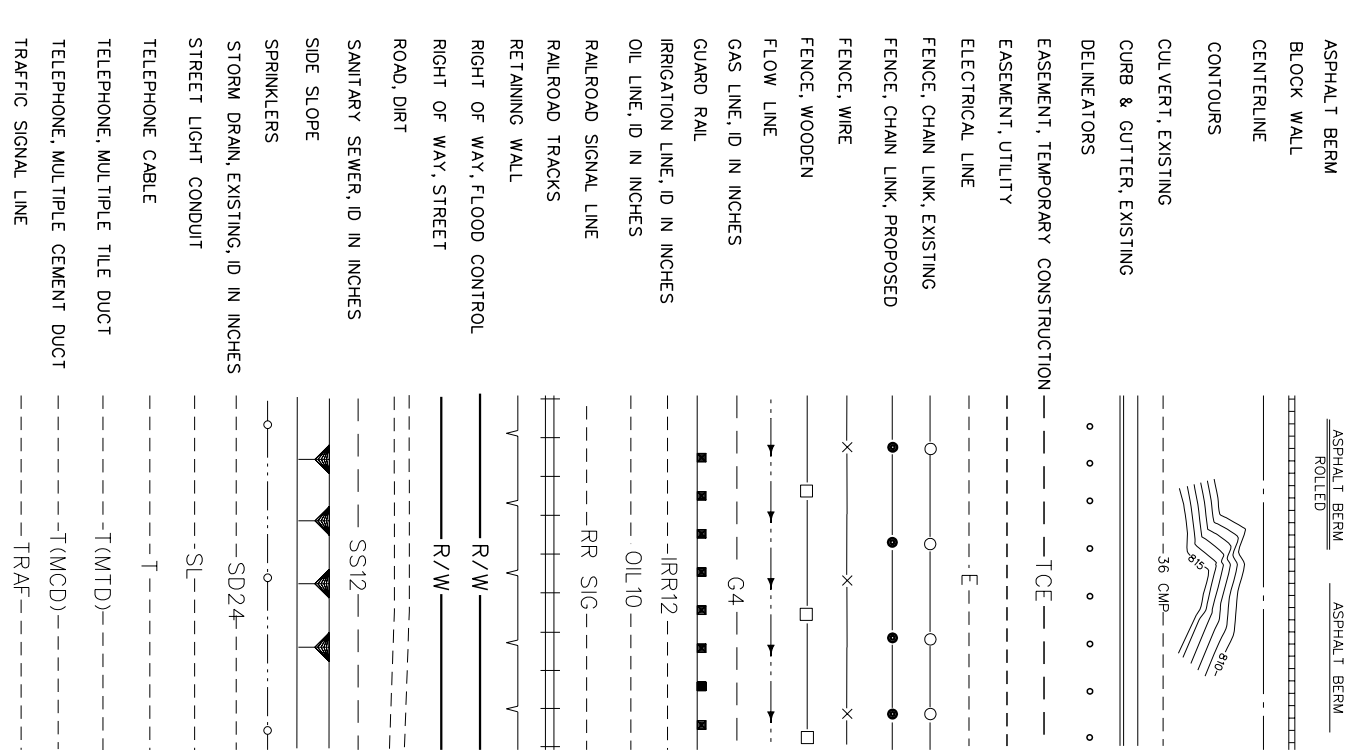


**ABBREVIATIONS**

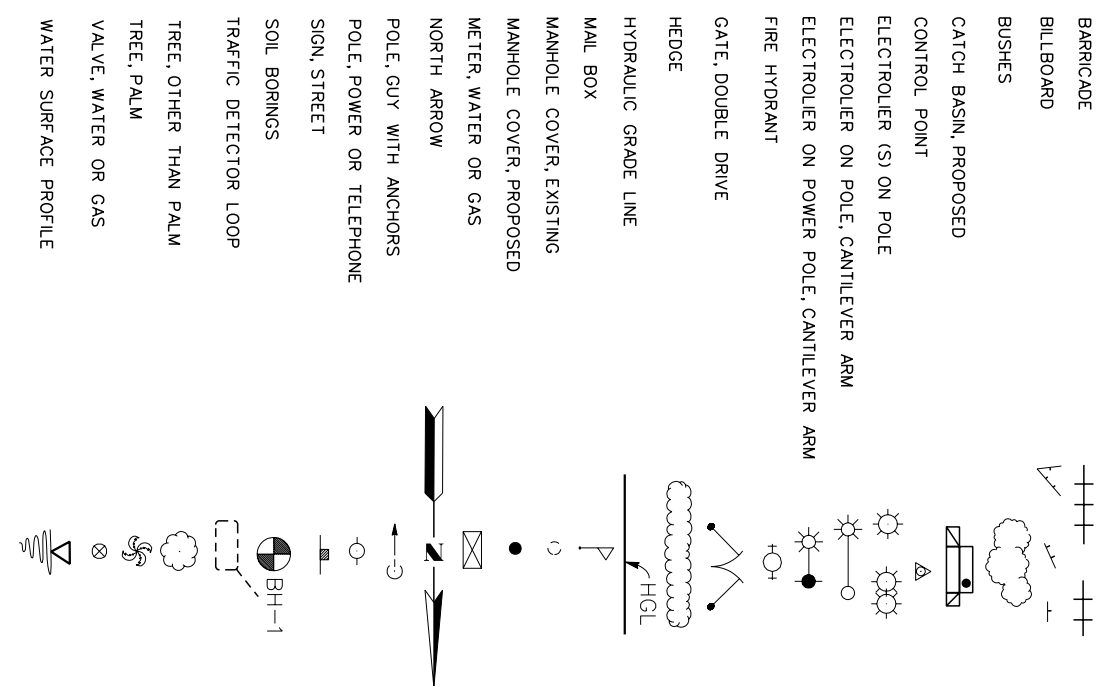
AH	AHEAD
BK	BACK
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AB	ABANDONED
ABND	ABANDONED
AC	ASPHALT CONCRETE
ACP	ANGLE POINT
APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AWWA	AMERICAN WATER WORKS ASSOCIATION
b	CHANNEL BASE WIDTH
BC	BEGINNING OF CURVE
BCR	BEGINNING OF CURVE RETURN
BM	BENCH MARK
BNSF	BURLINGTON NORTHERN SANTA FE
BVC	BEGINNING OF VERTICAL CURVE
CALC	CALCULATED
CB	CATCH BASIN
CC	CENTER TO CENTER
CF	CURB FACE OR CUBIC FEET
cfs	CUBIC FEET PER SECOND
C&G	CURB AND GUTTER
CIPP	CAST IRON PIPE
CIP	CAST IRON PIPE
CU	CONSTRUCTION JOINT
CL	CLASS
CLR	CLEAR
ε	CENTERLINE
CML&C	CEMENT MORTAR LINED AND COATED
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CO	CLEAN OUT
CONC	CONCRETE
CONST	CONSTRUCT
COR	CORNER
CP	CONTROL POINT
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARDS
D	DEPTH
Δ	CURVE TOTAL DEFLECTION ANGLE
DG	DECOMPOSED GRANITE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWN
D/W	DRIVEWAY
DWG	DRAWING
E	EAST OR ELECTRICAL
EA	EACH
EC	END OF CURVE
EGR	END OF CURVE RETURN
EF	EACH FACE
ELEV	ELEVATION
ELY	EASTERLY
EP	EDGE OF PAVEMENT
EQ	EQUATION OR EQUAL
EVC	END OF VERTICAL CURVE
EW	EACH WAY
EX	EXISTING
EXCAV	EXCAVATION
EX GND	EXISTING GROUND
F	FIRE
FB	FIELD BOOK
FD	FOUND
FG	FINISHED GRADE
FH	FIRE HYDRANT
E, FL	FLOW LINE
fps	FEET PER SECOND
FT	FEET OR FOOT
FWY	FREEWAY
G	GAS
GALV	GALVANIZED
H	HEIGHT
HC	HOUSE CONNECTION
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
ID	INSIDE DIMENSION
IN	INCH OR INCHES
IP	IRON PIPE
IRR	IRRIGATION
JS	JUNCTION STRUCTURE
L	LENGTH

LBS	POUNDS
LD	LOCAL DEPRESSION
LF	LINEAL FEET
LONG	LONGITUDINAL
LS	LUMP SUM OR LAND SURVEYOR
LT	LEFT
L&T	LEAD & TACK
MAX	MAXIMUM
MCD	MULTIPLE CEMENT DUCT
MEAS	MEASURED
MH	MANHOLE
MIN	MINIMUM
MTD	MULTIPLE TILE DUCT (TEL)
MVC	MIDDLE OF VERTICAL CURVE
N	NORTH
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODESIC VERTICAL DATUM
NGS	NATIONAL GEODETIC SURVEY
NLY	NORTHERLY
NO. #	NUMBER
N&T	NAL & TIN
NIS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIMENSION
OR	OFFICIAL RECORD
PCC	PORTLAND CEMENT CONCRETE
PI	POINT OF COMPOUND CURVATURE OR POINT OF INTERSECTION
PL OR R	PROPERTY LINE
PP	POWER POLE
PPM	PARTS PER MILLION
PRC	POINT OF REVERSE CURVATURE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
Q	RATE OF FLOW (cfs)
R	RADIUS OR RANGE
RGB	REINFORCED CONCRETE BOX
RCE	REGISTERED CIVIL ENGINEER
RCFC&WCD	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RCP	REINFORCED CONCRETE PIPE
RR	RAILROAD
R/S	RECORD OF SURVEY
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH OR SLOPE
SS	SIDE SLOPE OR SANITARY SEWER
SD	STORM DRAIN
SEC	SECTION
SHT	SHEET
SIG	SIGNAL
SL	STREET LIGHT
SLY	SOUTHERLY
SPRR	SOUTHERN PACIFIC RAILROAD
SF	SQUARE FEET
SY	SQUARE YARDS
STA	STATION
STD	STANDARD
S&T	SPIKE & TIN
S/W	SIDEWALK
T	TANGENT, THICKNESS, TOWNSHIP OR TELEPHONE
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TRAF	TRAFFIC
TR	TRACT
TRANS	TRANSITION
TS	TRANSITION STRUCTURE
TW	TOP OF WALL
TYP	TYPICAL
UPRR	UNION PACIFIC RAILROAD
USC&GS	UNITED STATES COAST AND GEODETIC SURVEY
USGS	UNITED STATES GEOLOGICAL SURVEY
V	VELOCITY OF FLOW OR DEPTH OF CATCH BASIN
VAM	VERTICAL ANGLE BENCH MARK
VAR	VARIABLE OR VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION
W	WEST, WIDTH OR WATER
WLY	WESTERLY
WS	WATER SURFACE

**LINE TYPES**



**SYMBOLS**



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 CIVIL ENGINEER  
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 STATE OF CALIFORNIA

ABBREVIATIONS AND SYMBOLS  
 STANDARD DRAWING NUMBER M814

RIVERSIDE COUNTY FLOOD CONTROL  
 WATER CONSERVATION DISTRICT  
 DATE: April 5, 2004  
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