



# pennsylvania

## DEPARTMENT OF TRANSPORTATION

*Pennsylvania Department of Transportation  
Highway Administration*

### **Survey Feature - Codes**

## Survey – Feature Codes

### LEGEND

(A) ATTRIBUTE

(L) LINEAR FEATURE

(P) POINT FEATURE

(T) INCLUDED IN TERRAIN

### Building Site (V-BLDG)

Code	Description	Code	Description
BARNCB	BARN CONCRETE BLOCK (L)(T)	PORE	PORCH (L)(T)
BARNF	BARN FRAMED (L)(T)	SHED	OUT BUILDING (L)(T)
BARNSID	BARN SIDING (L)(T)	SILO	SILO (L)
BARNBR	BARN BRICK (L)(T)	SILOE	SILO (L)(T)
BPORBR	BOTTOM PORCH BRICK (L)	STEP	STEPS (L)
BPORBRE	BOTTOM PORCH BRICK (L)(T)	STEPE	STEPS (L)(T)
BPORC	BOTTOM PORCH CONCRETE (L)	STEPS	STEPS (L)(T)
BPORCE	BOTTOM PORCH CONCRETE (L)(T)	STEPSBR	STEPS BRICK (L)(T)
BPORW	BOTTOM PORCH WOOD (L)	STEPSC	STEPS CONCRETE (L)(T)
BPORWE	BOTTOM PORCH WOOD (L)(T)	STEPSTM	STEPS METAL (L)(T)
BUI	BUILDING (A)(L)(T)	STEPSW	STEPS WOOD (L)(T)
BUIBR	BUILDING BRICK (A)(L)(T)	SW	SIDEWALK CONCRETE (L)(T)
BUIBV	BUILDING BREAK VOID (L)(T)	SWC	SIDEWALK CONCRETE (L)(T)
BUICB	BUILDING CONC BLOCK (A)(L)(T)	SWB	SIDEWALK BITUMINUS (L)(T)
BUIF	BUILDING FRAMED(A)(L)(T)	SWBR	SIDEWALK BRICK (L)(T)
BUISID	BUILDING SIDING (A)(L)(T)	SWS	SIDEWALK STONE (L)(T)
COS	CONCRETE SLAB (L)(T)	TANK	ABOVE GROUND TANK (L)
GAR	GARAGE (L)(T)	TPOR	TOP PORCH (L)
GARF	GARAGE FRAMED(A)(L)(T)	TPORE	TOP PORCH (L)(T)
GARCB	GARAGE CONCRETE BLOCK (A)(L)(T)	TPORBR	TOP PORCH BRICK (L)
GARSID	GARAGE SIDING (A)(L)(T)	TPORBRE	TOP PORCH BRICK (L)(T)
GARBR	GARAGE BRICK (A)(L)(T)	TPORC	TOP PORCH CONCRETE (L)
OF	OUT FIREPLACE (L)	TPORCE	TOP PORCH CONCRETE (L)(T)
OFE	OUT FIREPLACE (L)(T)	TPORW	TOP PORCH WOOD (L)
OR	OVERHANG ROOF (L)	TPORWE	TOP PORCH WOOD (L)(T)
POR	PORCH (L)	WH	WELL HOUSE (L)

### Boundary (V-BNDY)

Code	Description	Code	Description
ML	MUN LINE (L)	MLE	MUN LINE (L)(T)

Bridge (V-BRDG)

Code	Description	Code	Description
AW	ABUT WINGS (L)	BRIE	BRIDGE (L)(T)
BABUT	BRIDGE BOTTOM ABUTMENT (L)	BRLC	BRIDGE LOW CHORD (L)
BABUTE	BRIDGE BOTTOM ABUTMENT (L)	BRTC	BRIDGE TOP CURB (L)
BAW	BRIDGE BOTTOM OF WING (L)	BRSWB	BRIDGE SIDEWALK BRICK (L)
BAWE	BRIDGE BOTTOM OF WING (L)	BRSWC	BRIDGE SIDEWALK CONCRETE (L)
BBEAM	BRIDGE BOTTOM OF BEAM (L)	BRSWW	BRIDGE SIDEWALK WOOD (L)
BPAR	BRIDGE BOTTOM PARAPET (L)	BS	BEAM SEAT (L)
BPIER	BRIDGE BOTTOM OF PIER (L)	PIER	PIER (L)
BRBC	BRIDGE BOTTOM OF CURB (L)	TABUT	BRIDGE TOP ABUTMENT (L)
BRCRC	BRIDGE CROWNROAD CONC (L)	TABUTE	BRIDGE TOP ABUTMENT ELEV (L)
BRCRB	BRIDGE CROWN ROAD BITUMINOUS (L)	TAW	TOP OF WING (L)
BRDJT	BRIDGE DECK JOINT (L)	TAWE	TOP OF WING (L)(T)
BRDKB	BRIDGE DECK BITUMINOUS (L)	TPAR	BRIDGE TOP PARAPET (L)
BRDKC	BRIDGE DECK CONC (L)	TPED	BRIDGE TOP OF PEDESTAL (L)
BRDKM	BRIDGE DECK METAL (L)	TPIER	BRIDGE TOP OF PIER (L)
BRFT	BRIDGE FOOTER (L)	WG	WHEEL GUARD (L)
BRI	BRIDGE (L)		

Cable TV (V-UTIL-CATV)

Code	Description	Code	Description
CLM	CABLE LINE MARKER (P)	TVLE	TV LINE (L)(T)
TVL	TV LINE (L)	UTVL	UNDERGROUND TV LINE (L)

Ditch (V-DTCH)

Code	Description	Code	Description
DIT	DITCH (L)		

Domestic Water (V-UTIL-WATR)

Code	Description	Code	Description
CIST	CISTERN (P)	WLE	WATER LINE (A)(L)(T)
CISTE	CISTERN (P)(T)	WLM	WATER LINE MARKER (P)
FH	FIRE HYDRANT (P)	WM	WATER METER (P)
FHE	FIRE HYDRANT (P)(T)	WV	WATER VALVE (A)(P)
WELL	WELL (P)	WVCS	WATER VALVE CURB STOP (P)
WELLE	WELL (P)(T)	WVE	WATER VALVE (P)(T)
WL	WATER LINE (A)(L)		

Driveway (V-DRIV)

Code	Description	Code	Description
ED	EDGE DRIVE (L)(T)	EDD	EDGE DRIVE DIRT (L)(T)
EDB	EDGE DRIVE BITUMINOUS (L)(T)	EDS	EDGE DRIVE STAB (L)(T)
EDC	EDGE DRIVE REINF CONCRETE (L)(T)		

Guide Rail (V-GRAL)

Code	Description	Code	Description
GR	GUIDE RAIL (A)(L)	GRSE	GUIDE RAIL STRONG POST (L)(T)
GRE	GUIDE RAIL (A)(L)(T)	GRW	GUIDERAIL WEAK POST (L)
GRS	GUIDE RAIL STRONG POST (L)	GRWE	GUIDERAIL WEAK POST (L)(T)

Natural Gas (V-UTIL-NGAS)

Code	Description	Code	Description
GL	GAS LINE (A)(L)	GVE	GAS VALVE (P)(T)
GLE	GAS LINE (A)(L)(T)	GW	GAS WELL (A)(P)
GLM	GAS LINE MARKER (P)	GWE	GAS WELL (P)(T)
GMR	GAS METER (P)	MCG	MAINTENANCE HOLE COVER GAS (P)
GV	GAS VALVE (A)(P)	MCGE	MAINTENANCE HOLE COVER GAS (P)(T)
GVCS	GAS VALVE CURB STOP (P)		

Parking (V-PRKG)

Code	Description	Code	Description
PL	PARKING LOT (L)(T)	PME	PARK METER (P)(T)
PM	PARK METER (P)		

Petroleum (V-UTIL-PTRO)

Code	Description	Code	Description
GI	GAS ISLAND (L)(T)		

Power (V-UTIL-POWR)

Code	Description	Code	Description
EL	ELECTRIC LINE (A)(L)	EPE	ELECTRIC POLE (A)(P)(T)
ELE	ELECTRIC LINE (A)(L)(T)	MCEL	MAINTENANCE HOLE COVER ELECTRIC (P)
EM	ELECTRIC METER (P)	MCELE	MAINTENANCE HOLE COVER ELECTRIC (P)(T)
EP	ELECTRIC POLE (A)(P)	UEL	UNDERGROUND ELECTRIC LINE (L)

Railroad (V-RAIL)

Code	Description	Code	Description
CG	CROSS GATE (P)	CRSE	CR SIGNAL (P)(T)
CGE	CROSS GATE (P)(T)	CT	CENTERLINE TRACK (L)
CROS	CROSS SIGN (P)	CTE	CENTERLINE TRACK (L)(T)
CROSE	CROSS SIGN (P)(T)	TR	TOP RAIL (L)
CRS	CR SIGNAL (P)		

Roadway (V-ROAD)

Code	Description	Code	Description
BCB	BOTTOM CURB BITUMINOUS (L)	ERS	EDGE ROAD STABILIZED (L)
BCC	BOTTOM CURB CONCRETE (L)	ES	EDGE SHOULDER (L)
BCSTN	BOTTOM CURB CUT STONE (L)	ESB	EDGE SHOULDER BITUMINOUS (L)
BJBAR	BOTTOM JERSEY BARRIER (L)	ESC	EDGE SHOULDER CONCRETE (L)
BJBARE	BOTTOM JERSEY BARRIER (L)(T)	ESD	EDGE SHOULDER DIRT (L)
CR	CROWN ROAD (L)	ESS	EDGE SHOULDER STABILIZED (L)
CRB	CROWN ROAD BITUMINOUS (L)	MTC	MOUNTABLE CURB (L)
CRC	CROWN ROAD CONCRETE (L)	TCB	TOP CURB BITUMINOUS (L)
CRD	CROWN ROAD DIRT (L)	TCC	TOP CURB CONCRETE (L)
CRST	CROWN ROAD STABILIZED (L)	TCSTN	TOP CURB CUT STONE (L)
EC	EDGE CURB (L)	TJBAR	TOP JERSEY BARRIER (L)
ER	EDGE ROAD (L)	TJBARE	TOP JERSEY BARRIER (L)(T)
ERB	EDGE ROAD BITUMINOUS (L)	TRPL	TRAFFIC PAINT LINE (L)
ERC	EDGE ROAD CONCRETE (L)	TRPLE	TRAFFIC PAINT LINE (L)(T)
ERD	EDGE ROAD DIRT (L)		

Sanitary Sewer (V-UTIL-SSWR)

Code	Description	Code	Description
CESS	CESSPOOL (P)	SET	SEPTIC TANK (P)
CESSE	CESSPOOL (P)(T)	SETE	SEPTIC TANK (P)
DF	DRAINFIELD (L)	SL	SANI LINE (A)(L)
DFE	DRAINFIELD (L)(T)	SLE	SANI LINE (A)(L)(T)
MCSAN	MAINTENANCE HOLE COVER SANITARY SEWER (P)	STP	SOIL TEST PIT (P)
MCSANE	MAINTENANCE HOLE COVER SANITARY SEWER (P)(T)	STPE	SOIL TEST PIT (P)(T)
PERC	PERC HOLE (P)	SV	SEWER VENT (A)(P)
PERCE	PERC HOLE (P)(T)	SVE	SEWER VENT (A)(P)(T)
SCO	SEWER CLEAN OUT (P)		

Storm Water (V-STRM)

Code	Description	Code	Description
BOXCUL	BOX CULVERT (L)	33	33" PIPE (A)(L)
PARCH	ARCH PIPE (L)	36	36" PIPE (A)(L)
PIPE	PIPE (A)(L)	42	42" PIPE (A)(L)
HW	HEAD WALL (L)	48	48" PIPE (A)(L)
HWE	HEAD WALL (L)(T)	54	54" PIPE (A)(L)
IO	IN OUTLET (A)(L)	60	60" PIPE (A)(L)
IOE	IN OUTLET (A)(L)(T)	66	66" PIPE (A)(L)
MCSS	MAINTENANCE HOLE COVER STORM SEWER (P)	72	72" PIPE (A)(L)
MCSSE	MAINTENANCE HOLE COVER STORM SEWER (P)(T)	78	78" PIPE (A)(L)
2	2" PIPE (A)(L)	84	84" PIPE (A)(L)
4	4" PIPE (A)(L)	90	90" PIPE (A)(L)
6	6" PIPE (A)(L)	96	96" PIPE (A)(L)
8	8" PIPE (A)(L)	102	102" PIPE (A)(L)
10	10" PIPE (A)(L)	108	108" PIPE (A)(L)
12	12" PIPE (A)(L)	114	114" PIPE (A)(L)
15	15" PIPE (A)(L)	120	120" PIPE (A)(L)
18	18" PIPE (A)(L)	126	126" PIPE (A)(L)
21	21" PIPE (A)(L)	132	132" PIPE (A)(L)
24	24" PIPE (A)(L)	138	138" PIPE (A)(L)
27	27" PIPE (A)(L)	144	144" PIPE (A)(L)
30	30" PIPE (A)(L)		

Survey (V-SURV)

Code	Description	Code	Description
AXLE	AXLE (A)(P)	HTE	HUB TACK (P)(T)
BM	BENCHMARK (A)(P)	IP	IRON PIN (A)(P)
CBL	CONSTRUCTION BASELINE (L)	IPE	IRON PIN (A)(P)(T)
CE	CUT ENDWALL (P)	IPP	IRON PIPE (A)(P)
CEE	CUT ENDWALL (P)(T)	IPPE	IRON PIPE (A)(P)(T)
CHK	CHECK SHOT (T)	MAG	MAG NAIL (P)
CM	CONCRETE MONUMENT (A)(P)	MAGE	MAG NAIL (P)(T)
CN	CONCRETE NAIL (P)	NAIL	NAIL (P)
CNE	CONCRETE NAIL (P)(T)	NAILE	NAIL (P)(T)
CS	CURVE TO SPIRAL (P)	PCC	POINT OF COMPOUND CURVE (P)
DEF	DEFAULT (A)(P)	PI	POINT OF INTERSECTION (P)
DEFL	DEFAULT LINEAR (A)(L)	PLAN	PLAN STATION (P)
DH	DRILL HOLE (P)	PLUG	LEAD PLUG (P)
DHE	DRILL HOLE (P)(T)	PLUGE	LEAD PLUG (P)(T)
GM	GEOD MONUMNT (A)(P)	POC	POINT ON CURVE (P)
HT	HUB TACK (P)	POST	POINT OF SUBTANGENT (P)

Survey (V-SURV) continued

Code	Description	Code	Description
POT	POINT ON TANGENT (P)	SCL	SURVEY CENTERLINE (L)
PRC	POINT OF REVERSE CURVE (P)	SM	STONE MONUMENT (A)(P)
PTAN	POINT OF TANGENCY (P)	STAN	SPIRAL TO TANGENT (P)
PTOC	POINT OF CURVE (P)	STKE	STAKEOUT (P)
PKN	P K NAIL (P)	TP	TRAVERSE POINT (P)
PKNE	P K NAIL (P)(T)	TPE	TRAVERSE POINT (P)(T)
RED	RED (P)	TPL	TRAVERSE POINT (L)
REDE	RED (P)(T)	TPLE	TRAVERSE POINT (L)(T)
RRS	RAILROAD SPIKE (A)(P)	TS	TANGENT TO SPIRAL (P)
RRSE	RAILROAD SPIKE (A)(P)(T)	WIS	W I SPIKE (P)
SBL	SURVEY BASELINE (L)	WISE	W I SPIKE (P)(T)
SC	SPIRAL TO CURVE (P)		

Telephone (V-UTIL-TELP)

Code	Description	Code	Description
MCT	MAINTENANCE HOLE COVER TELEPHONE (P)	TL	TELEPHONE LINE (A)(L)
MCTE	MAINTENANCE HOLE COVER TELEPHONE (P)(T)	TLE	TELEPHONE LINE (A)(L)(T)
TEP	TELEPHONE POLE (A)(P)	TLM	TELEPHONE LINE MARKER (P)
TEPE	TELEPHONE POLE (A)(P)(T)	UTL	UNDERGROUND TELEPHONE LINE (L)

Topo (V-TOPO)

Code	Description	Code	Description
BB	BOTTOM BANK (L)(T)	EROCK	EXPOSED ROCK (P)(T)
BH	BOREHOLE (A)(P)	EROCKL	EXPOSED ROCK (L)(T)
BHE	BOREHOLE (A)(P)(T)	FEN	FENCE (A)(L)
BLDR	BOULDER (P)	FENE	FENCE (A)(L)(T)
BLDRE	BOULDER (P)(T)	FIE	FIELD (P)(T)
BLDRL	BOULDER (L)	FIEL	FIELD (L)
BLDRLE	BOULDER (L)(T)	FIELE	FIELD (L)(P)(T)
BV	BREAK VOID (L)	GAB	GABIONS (L)(T)
BRE	BREAKLINE (L)(T)	GATE	GATE (L)
BRICK	BRICK (P)(T)	GATEE	GATE (L)(T)
BWC	BOTTOM CONCRETE BLOCK WALL (L)(T)	GRA	GRASS (P)(T)
BWW	BOTTOM WOOD WALL (L)(T)	MAC	MACADAM (P)(T)
BWS	BOTTOM STONE WALL (L)(T)	MB	MAILBOX (A)(P)
CON	CONCRETE (P)(T)	MBE	MAILBOX (A)(P)(T)
EAR	EARTH (P)(T)	OG	OLD GROUND (L)(T)

Topo (V-TOPO) continued

Code	Description	Code	Description
POP	POLE POST (A)(P)	SR	STONE ROW (L)
POPE	POLE POST (A)(P)(T)	SRE	STONE ROW (L)(T)
POOL	POOL (L)(T)	TB	TOP BANK (L)(T)
REG	REGULAR POINT (P)(T)	TWC	TOP CONCRETE BLOCK WALL (L)(T)
SIGN	SIGN (A)(P)	TWS	TOP STONE WALL (L)(T)
SIGNE	SIGN (P)(T)	TWW	TOP WOOD WALL (L)(T)
SIGNL	SIGN (L)	WSR	WALLS S R (L)
SPR	SPRING (L)(T)	WSRE	WALLS S R (L)(T)
STA	STABILIZED (P)(T)		

Traffic (V-TRAF)

Code	Description	Code	Description
TRS	TRAFFIC SIGNAL (P)	TRSE	TRAFFIC SIGNAL (P)(T)

Utilities (V-UTIL)

Code	Description	Code	Description
GUY	GUY (P)	MCE	MAINTENANCE HOLE COVER (P)(T)
GUYE	GUY (P)(T)	OGTC	OIL GAS T C (P)
GUYP	GUY POLE (P)	OGTCE	OIL GAS T C (P)(T)
GUYA	GUY AERIAL (P)	OHW	OVERHEAD WIRE (A)(L)
JB	JUNCTION BOX (A)(P)	PRP	PRIVATE POLE (P)
JBL	JUNCTION BOX LINE (A)(L)	PRPE	PRIVATE POLE (P)(T)
JBLE	JUNCTION BOX LINE (A)(L)(T)	UTILP	UTILITY POLE (P)
LP	LIGHT POST (A)(P)	UTILPE	UTILITY POLE (P)(T)
MC	MAINTENANCE HOLE COVER (P)		

Vegetation (V-VEGE)

Code	Description	Code	Description
BRL	BRUSH LINE (L)	TREEE	TREE (A)(P)(T)
BRLE	BRUSH LINE (L)(T)	TREEG	TREE EVERGREEN (A)(P)(T)
HED	HEDGE (A)(L)	TREEGE	TREE EVERGREEN (A)(P)(T)
HEDE	HEDGE (A)(L)(T)	TREER	TREE ROW (L)
PLA	PLANTER (L)(T)	TREERE	TREE ROW (L)(T)
SHR	SHRUB (A)(P)	WDS	EDGE OF WOODS (P)
SHRE	SHRUB (A)(P)(T)	WDSE	EDGE OF WOODS(P) (T)
STU	STUMP (A)(P)	WR	WOODS ROW (L)
STUE	STUMP (A)(P)(T)	WRE	WOODS ROW (L)(T)
TREE	TREE (A)(P)		



Wetland (V-WETL)

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<i>WD</i>	<i>WETLAND DELINEATION (L)</i>	<i>WDE</i>	<i>WETLAND DELINEATION (L)(T)</i>

Waterway (V-WWAY)

<b>Code</b>	<b>Description</b>	<b>Code</b>	<b>Description</b>
<i>CAN</i>	<i>CANAL (L)(T)</i>	<i>RIV</i>	<i>RIVER (L)(T)</i>
<i>CRE</i>	<i>CREEK (L)(T)</i>	<i>RL</i>	<i>ROCK LINING (L)(T)</i>
<i>LAKE</i>	<i>LAKE (L)(T)</i>	<i>SND</i>	<i>WATERWAY SOUNDING (L)(T)</i>
<i>LDE</i>	<i>LEVEE DIKE (L)(T)</i>	<i>STR</i>	<i>STREAM (A)(L)(T)</i>
<i>Pond</i>	<i>POND (L)(T)</i>	<i>WAT</i>	<i>WATER (L)(T)</i>