



TOPO CODE LISTING

MAY 2026

INSTRUCTIONS

EXAMPLE A: TCC (TOP OF CURB)

The code TCC has 3 suffix combinations. TCC cannot function by itself as a code.

Suffix Combinations: AC, CN, UN

Any codes with no suffix combinations can function by itself as a code. All of the codes with no suffix combinations may have a "OMIT" variant.

TCC Combinations:

TCCAC	TOP OF CURB ASPHALT
TCCCN	TOP OF CURB CONCRETE
TCCUN	TOP OF CURB UNKNOWN
TCCAC_OMIT	TOP OF CURB ASPHALT OMITTED
TCCCN_OMIT	TOP OF CURB CONCRETE OMITTED
TCCUN_OMIT	TOP OF CURB UNKNOWN OMITTED

_OMIT Omitted from surface, can be applied to all combinations with no suffixes. Omit all utilities.

_OMIT IS APPLIED AT THE END OF THE CODE AND CANNOT BE USED TOGETHER.

SUFFIXES WITH MATERIALS/TYPES

AR	AIR RELEASE
AB	ASBESTOS CEMENT
AC	ASPHALT
BW	BARBED WIRE
BK	BLACK
BL	BLOCK
BL	BLUE (STP & ALT)
BR	BRICK
CT	CABLE TV
CI	CAST IRON
CA	CATHODIC TEST
CL	CHAIN LINK
CS	CITRUS
CN	CONCRETE
CP	CONTROL POINT
CM	CORRUGATED METAL
DT	DIRT
EL	ELECTRIC
EU	EUCALYPTUS
FO	FIBER OPTIC
GA	GAS
GS	GRASS
GV	GRAVEL
GN	GREEN
GR	GROUTED ROCK
IR	IRRIGATION
OK	OAK
PM	PALM
PP	PEPPER
PN	PINE
PC	PIPE & CABLE
PL	PLASTIC
PW	POST AND WIRE
PR	PROPANE
RD	RED
RR	RIP RAP

SUFFIXES WITH MATERIALS/TYPES

RK	ROCK
SA	SAND
SW	SEWER
SN	STONE
SD	STORM DRAIN
SC	STUCCO
ST	STEEL
SY	SYCAMORE
TL	TELEPHONE
TR	TRAFFIC
UN	UNDEFINED
VC	VITREOUS CLAY
WA	WATER
WT	WHITE
WD	WOOD
WI	WROUGHT IRON
YL	YELLOW

COMMAND CODES

BC	BEGINNING OF CURVE, USED FOR PCC OR PRC
CIR	CIRCLE
CF	CLOSE FIGURE
C	CONTINUE
E	END
EC	END OF CURVE, USED FOR PCC OR PRC
X	EXTEND
OH	HORIZONTAL OFFSET
JP	JOINT POINT (INCLUDE PT. #)
OC	POINT ON CURVE
PRN	RECALL POINT
CR	CLOSE RECTANGLE
RT	RIGHT TURN
SO	STOP OFFSETS
OV	VERTICAL OFFSET

BOUNDARY/CONTROL FEATURES

CPT	CONTROL POINT (PT) NO SUFFIX NEEDED
BDO	BUILDING OUTLINE (L) (BL, BR, CN, SC, ST, UN, WD)
DUN	DEVICE UNKNOWN (PT) NO SUFFIX NEEDED
FD	FOUND (PT) NO SUFFIX NEEDED
LIMIT	LIMIT (L) NO SUFFIX NEEDED
MON	MONUMENT (PT) NO SUFFIX NEEDED
SFN	SEARCH FOUND NOTHING (PT) NO SUFFIX NEEDED
SET	SET (PT) NO SUFFIX NEEDED

BUILDING FEATURES

DOR DOOR (PT)
(WD, ST, PL)

DDOR DOUBLE DOOR (PT)
(WD, ST, PL)

FAD FIRE ALARM DEVICE (PT)
NO SUFFIX NEEDED

FDC FIRE DEPARTMENT CONNECTION (PT)
NO SUFFIX NEEDED

FEX FIRE EXTINGUISHER (PT)
NO SUFFIX NEEDED

FSP FIRE SPRINKLER (PT)
(PL, ST)

HBB HOSE BIB (PT)
NO SUFFIX NEEDED

PAT PATIO (L)
(AC, BR, CN, SN, UN, WD)

ROF ROOF-OVERHANG (L)
NO SUFFIX NEEDED

CAM VIDEO SECURITY CAMERA (PT)
NO SUFFIX NEEDED

AIRPORT FEATURES

ALT AIRFIELD LIGHTS (PT)
(BK, BL, GN, RD, WT, YL)

CLM COLUMN (PT)
(CN, SN, ST, WD)

WMP WALL MOUNTED TELEPHONE (PT)
NO SUFFIX NEEDED

ROADWAY FEATURES

ABT	ABUTMENT (L) (CN, UN, WD)
ANT	ANTENNA (PT) NO SUFFIX NEEDED
BNC	BENCH (L) (CN, ST, WD)
BMK	BENCH MARK (PT) NO SUFFIX NEEDED
BOL	BOLLARD (PT) NO SUFFIX NEEDED
BRL	BREAKLINE (L) (AC, BR, CN, DT, GR, GS, GV, RR, SA, UN)
BRD	BRIDGE DECK (L) (AC, CN, UN, WD)
BPN	BRIDGE PAVING NOTCH (L) NO SUFFIX NEEDED
BST	BUS STOP ENCLOSURE (PT) (CN, ST, UN, WD)
CWN	CROWN OF ROAD (L) (AC, CN, UN)
DWS	DETECTABLE WARNING SURFACE (L) NO SUFFIX NEEDED
DWY	DRIVEWAY (L) (AC, BR, CN, DT, GV, UN)
EPP	EDGE OF PAVEMENT (L) (AC, BR, CN, UN)
ERD	EDGE OF ROAD (L) (DT, GV, SA, UN)
FNC	FENCE (L) (BW, CL, CN, PC, PL, PW, ST, UN, WD, WI)
FLP	FLAG POLE (PT) NO SUFFIX NEEDED
FTG	FOOTING (L) CN, ST, UN, WD)
DGT	GATE-DOUBLE (PT) (CL, PL, ST, UN, WD, WI)

ROADWAY FEATURES

SGT	GATE-SINGLE (PT) (CL, PL, ST, UN, WD, WI)
GRR	GUARD RAIL (L) (CN, ST, UN, WD)
HDR	HAND RAIL (L) (ST, UN, WD)
HPP	HINGE POINT (L) (AC, CN, DT, GR, RR, UN)
MBX	MAIL BOX (PT) NO SUFFIX NEEDED
MWL	MONITOR WELL (PT) NO SUFFIX NEEDED
MST	MOW STRIP (L) (BR, CN, UN, WD)
PAD	PAD (L) (AC, CN, UN)
PSN	PARKING STALL WITH NUMBER (PT) NO SUFFIX NEEDED
PSC	PATTERN-CONCRETE (L) NO SUFFIX NEEDED
PEDCOM	PEDASTAL COMMUNICATIONS (PT) NO SUFFIX NEEDED
PEDEL	PEDASTAL ELECTRICAL (PT) NO SUFFIX NEEDED
PEDGA	PEDASTAL GAS (PT) NO SUFFIX NEEDED
PEDUN	PEDASTAL UNDEFINED (PT) NO SUFFIX NEEDED
PEDWA	PEDASTAL WATER (PT) NO SUFFIX NEEDED
PLT	PILASTER (PT) (BR, CN, SC, UN, WD)
PST	POST (PT) (CN, PL, ST, UN, WD)
RSA	RAILROAD SIGNAL ARM (PT) NO SUFFIX NEEDED

ROADWAY FEATURES

RRS	RAILROAD SIGNAL (PT) NO SUFFIX NEEDED
RRR	RAILROAD TRACK (L) NO SUFFIX NEEDED
RCB	REINFORCED CONCRETE BOX (L) NO SUFFIX NEEDED
RWB	RETAINING WALL-BOTTOM (L) (BL, BR, CN, SC, SN, UN, WD)
RWT	RETAINING WALL-TOP (L) (BL, BR, CN, SC, SN, UN, WD)
RCC	ROLLED CURB-BACK (L) (AC, CN, UN)
RGT	ROLLING GATE (L) (CL, PL, UN, WD, WI)
SCV	SIDEWALK CULVERT (PT) (CN, ST, UN)
SNN	SIGN (PT) (CN, PL, ST, UN, WD)
SBD	SIGN BOARD (PT) (CN, ST, UN, WD)
SFT	SOFFIT (L) (CN, ST, UN, WD)
STR	STAIRS (L) (BR, CN, ST, UN, WD)
STP	STRIPING (L) (BK, BL, CN, GN, RD, TR, WT, YL)
TNK	TANK (PT) (CN, PR, ST, UN, WD)
TCC	TOP OF CURB (L) (AC, CN, UN)
SWK	WALK (L) (AC, BR, CN, SN, UN)
WAL	WALL (L) (BL, BR, CN, CP, SC, SN, UN)

UTILITIES

BPD	BACKFLOW PREVENTION DEVICE (PT) NO SUFFIX NEEDED
BGY	BOOM-GUY (PT) (PL, ST, UN, WD)
BHO	BOREHOLE (PT) NO SUFFIX NEEDED
CAB	CABINET (PT) (EL, TR)
CBX	CONTROL BOX (PT) (CT, EL, IR, TL, TR, UN, WA)
ELO	ELECTRICAL OUTLET (PT) (PL, ST)
PNL	ELECTRICAL PANEL (PT) (PL, ST)
ELT	ELECTRICAL TOWER-CENTER (PT) NO SUFFIX NEEDED
FHH	FIRE HYDRANT (PT) NO SUFFIX NEEDED
GYA	GUY ANCHOR (PT) NO SUFFIX NEEDED HAS_DIR VARIANT
GPO	GUY POLE (PT) (CN, ST, UN, WD)
GP1	GUY POLE-1 (PT) (CN, ST, UN, WD)
GP2	GUY POLE-2 (PT) (CN, ST, UN, WD)
GPW	GUY POLE-WITH STAY (PT) (CN, ST, UN, WD)
ISP	IRR STAND PIPE (PT) NO SUFFIX NEEDED
LPD	LIGHT POLE-DOUBLE (PT) (CN, ST, UN, WD)
LPL	LIGHT POLE-SINGLE (PT) (CN, ST, UN, WD)

UTILITIES

MTR **METER (PT)**
(EL, GA, UN, WA)

OIW **OIL WELL (PT)**
NO SUFFIX NEEDED

OHW **OVERHEAD WIRES (L)**
(EL, UN)

PSB **PEDESTRIAN ACTIVATOR (PT)**
NO SUFFIX NEEDED

PSG **PEDESTRIAN SIG (PT)**
NO SUFFIX NEEDED

PEX **PIPE-EXPOSED (L)**
(AB, CL, CM, CN, PL, ST, UN, VC)

PPI **PIPE INLET (PT)**
(AB, CL, CM, CN, PL, ST, UN, VC)
HAS _DIR VARIANT

PSF **PIPE SURFACE (L)**
(AB, CL, CM, CN, PL, ST, UN, VC)

PPO **PIPE OUTLET (PT)**
(AB, CL, CM, CN, PL, ST, UN, VC)
HAS _DIR VARIANT

PPR **PLASTIC PIPE (PT)**
NO SUFFIX NEEDED

PBX **PULL BOX (PT)**
(CT, EL, IR, TL, TR, UN)

SCO **SEWER-CLEAN OUT (PT)**
NO SUFFIX NEEDED

TLB **TELEPHONE BOOTH-CENTER (PT)**
NO SUFFIX NEEDED

TSR **TRAFFIC SENSOR (PT)**
NO SUFFIX NEEDED

SIG **TRAFFIC SIGNAL (PT)**
NO SUFFIX NEEDED

SGL **TRAFFIC SIGNAL WITH LIGHT (PT)**
NO SUFFIX NEEDED

TRANS **TRANSFORMER (PT)**
NO SUFFIX NEEDED

UTILITIES

UPM **UTILITY PAINT MARK (L)**
(CT, EL, FO, GA, IR, SD, SW, TL, TR, UN, WA)

UP0 **UTILITY POLE (PT)**
(CN, ST, UN, WD)

UG0 **UTILITY POLE 0-LIGHT-UG (PT)**
(CN, ST, UN, WD)

UP1 **UTILITY POLE 1-LIGHT (PT)**
(CN, ST, UN, WD)

UG1 **UTILITY POLE 1-LIGHT-UG (PT)**
(CN, ST, UN, WD)

UP2 **UTILITY POLE 2-LIGHT (PT)**
(CN, ST, UN, WD)

UG2 **UTILITY POLE 2-LIGHT-UG (PT)**
(CN, ST, UN, WD)

UWS **UTILITY-WARNING SIGN (PT)**
NO SUFFIX NEEDED

VLV **VALVE (PT)**
(GA, IR, UN, WA)

VLT **VAULT (PT)**
(CT, EL, GA, TL, TR, UN, WA)

VPP **VENT PIPE (PT)**
NO SUFFIX NEEDED

YDL **YARD LIGHT (PT)**
(CN, PL, SC, ST, UN, WD)

HYDROGRAPHIC FEATURES

BUOY	BUOY CHAIN (L) NO SUFFIX NEEDED
CBB	CATCH BASIN (L) (CN, ST, UN)
CLB	CHANNEL LINING BOTTOM (L) (AC, CN, GR, RR, UN)
CLT	CHANNEL LINING TOP (L) (AC, CN, GR, RR, UN)
CWB	CHANNEL WALL BOTTOM (L) (AC, CN, DT, UN)
CWT	CHANNEL WALL TOP (L) (AC, CN, DT, UN)
DII	DROP INLET (PT) (CM, CN, PL, ST, UN)
GRI	GRATE INLET (PT) (PL, ST, UN)
HWL	HEADWALL (L) (CN, UN, WD)
LIP	LIP OF GUTTER (L) NO SUFFIX NEEDED
MHH	MANHOLE (PT) (EL, SD, SW, TL, UN, WA)
PCN	PIER-COLUMN (PT) (CN, ST, UN, WD)
PIR	PIER-WALL (L) (CN, UN, WD)
SPR	SPRINKLER (PT) NO SUFFIX NEEDED
WLA	WATER LINE APPURTENANCE (PT) (AR, CA, PR, UN)
WRB	WEIR-BOTTOM (L) (CN, RR, UN)
WRT	WEIR-TOP (L) (CN, RR, UN)
WWT	WING WALL-TOP (L) (CN, UN, WD)

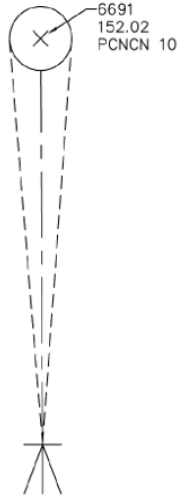
GROUND FEATURES/VEGETATION

BSH	BUSH (PT) NO SUFFIX NEEDED
BRW	BUSH ROW (L) NO SUFFIX NEEDED
BRO	BUSH ROW OUTLINE (L) NO SUFFIX NEEDED
LAK	EDGE OF LAKE (L) (CN, DT, RK, SA, UN)
MRH	EDGE OF-MARSH (L) NO SUFFIX NEEDED
FLL	FLOW LINE (L) (AC, CN, DT, GR, GS, RR, SA, UN)
GRL	GRADELINE (L) (AC, CN, DT, GR, GS, RR, SA, UN)
GRA	GRASS AREA (L) NO SUFFIX NEEDED
IRD	IRRIGATED AREA (L) NO SUFFIX NEEDED
IRG	IRRIGATED AREA-GRASS (L) NO SUFFIX NEEDED
PLR	PLANTER (L) (BL, BR, CN, GR, RK, SC, SN, UN, WD)
ROA	ROCK- AREA (L) NO SUFFIX NEEDED
ROK	ROCK-BOULDER (PT) NO SUFFIX NEEDED
SPH	SPOT HEIGHT (PT) (AC, BR, CN, DT, GS, GV, SA, UN)
TRE	TREE (PT) (CS, EU, OK, PM, PN, PP, SY, UN)
TRD	TREE DRIPLINE/OUTLINE (L) NO SUFFIX NEEDED
TRW	TREE ROW (L) (CS, EU, OK, PM, PN, PP, SY, UN)
TOE	TOE OF SLOPE (L) (AC, CN, DT, GR, GS, RR, UN)

CENTER OF POLE TRIMBLE ACCESS - "CIRCULAR OBJECT"

How to Use Reflectorless: Change the prism setting from **Standard** to **DR / laser** before measuring the pole.

How to Measure: Sight the first edge of the pole on one dashed line, then sight the second edge on the other dashed line. Trimble Access then automatically calculates and sights the center of the pole.



Field Note: Keep both edge sights at about the same height on the pole. Use the clean outside edges. After the two edge sights, the robotic total station automatically turns to the computed center for the final center shot.

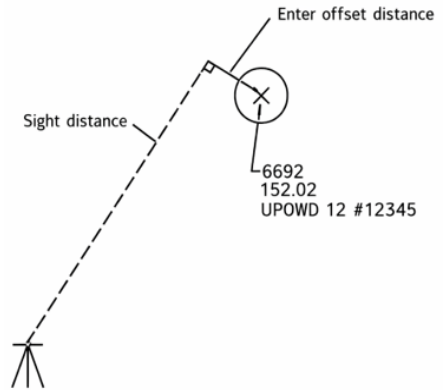
Menu: Measure / Measure Topo / Circular Object

POLE - ANGLE OFFSET TRIMBLE ACCESS "ANGLE OFFSET"

Menu: Measure / Measure Topo. In **Method**, select **Angle offset**.

How to Shoot It: First sight the prism to get the distance. Then sight the center of the pole.

You must also enter the **right-angle offset distance** from the prism to pole center.



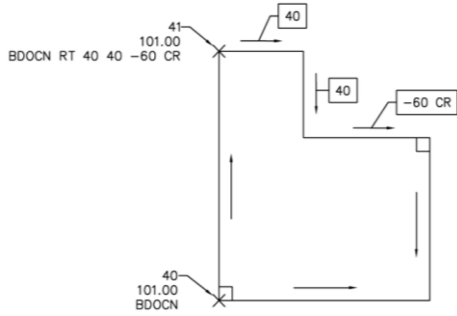
What Access Uses: The sight line gives the sight distance, and the entered right-angle offset gives the perpendicular distance from the prism to the pole. Access then calculates the center point of the pole.

Field Notes: Measure from the prism to the pole at a true 90° angle and keep the prism roughly level with the center point you are trying to locate.

RIGHT TURN & CR LINE SEGMENT OFFSET CODES

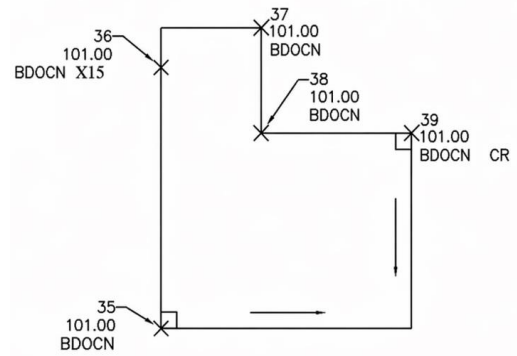
Right Turn: Code used with a line segment code to allow for additional vertices to be inserted perpendicular into the figure, or as extensions (straight offsets).

The following illustration shows examples of the Right Turn code and the CR code:



EXTEND LINE SEGMENT EXTENSION CODE

Extend: Code that is used to make an extension of a line segment ahead through the current point by using a positive value or a line segment that is short of the current point by using a negative value.



Questions	Location Right Now	Answers
Bush Row Outline = Roadway, Vegetation, or both?	Vegetation	
Catch Basin = Roadway, Hydrographic, or both?	Hydrographic	
Monument = Boundary/Control, Roadway, or both?	Boundary/Control Features	
Hinge Point = Roadway, Ground Feature, or both?	Roadway	
Parking Stall With Number = Roadway, Airport, or both?	Roadway	
Pedastal Communications, Electrical, Gas, Undefined, and Water = change spelling to pedestal?	Roadway	
Pedastal Gas, Undefined, and Water = combine in some way?	Roadway	
Pedastal Communications, Electrical, Gas, Undefined, and Water = Roadway, Utilities, or both?	Roadway	
Planter = Roadway, Vegetation, or both?	Vegetation	
Spot Height = Roadway, Ground, or both?	Ground	
Striping = Roadway, Airport, or both?	Roadway	
Traverse Point = Roadway, Boundary/Control Feature, or both?	Boundary/Control Features	
Toe of Slope = Roadway, Ground, or both?	Ground	
Wing Wall-Top = Roadway, Hydrographic, or both?	Hydrographic	
Column = Airport, Building, or both?	Airport	
Manhole = Roadway, Utilities, Hydrographic, or all 3?	Hydrographic	
Water Line Appurtenance = Utilities, Hydrographic, or both?	Hydrographic	
Gradeline = Hydrographic, Ground, or both?	Ground	