

A Area or Amperes
AAA American Automobile Association
AASHO American Association Of State Highway Officials
AASHTO American Association Of State Highway And Transportation Officials
ABC Asphalt Base Course
Abd. Abandoned
ABS Acrylonitrile-Butadiene-Styrene Pipe
AC, Ac. Acry
AC or Asph. Conc. Asphalt Concrete
Accel. Acceleration
Act. Actuated
ADA The Americans With Disabilities Act
Adh. Adhesive
Adj. Adjust
ADT Average Daily Traffic
AADT Annual Average Daily Traffic
Agg. Aggregate
Ah. Ahead
AISC American Institute Of Steel Construction
Alt. Alternate
Al. Aluminum
AM 12:00 Midnight Until 11:59 Noon
ANSI American National Standards Institute
AOS Apparent Opening Size
Appl. Applied, Application
Apprh. Approach
Approx. Approximate
ARTBA American Road & Transportation Builders Association
Artf. Artificial
Asph. Asphalt
Assem. Assembly
Assn. Association
Assoc. Associate, Association
ASTM American Society For Testing Materials
ATPB Asphalt Treated Permeable Base
Attn. Attention
Attnuatr. Attenuator
Aux. or Auxil. Auxiliary
Ave. Avenue
AWG American Wire Gauge
AWS American Welding Society
Az. Azimuth

B to B Back to Back
Basc. Bascule
Bbl. Barrel
Bd. or Bnd. Bond or Bonded
BC Baffle Cap or Bolt Circle
B/C, B.C. Back Of Curb
BCCMP Bituminous Coated Corrugated Metal Pipe Culvert
BCPA Bituminous Coated Pipe Arch Culvert
BCPCMP Bituminous Coated And Paved Corrugated Metal Pipe Culvert
BCPPA Bituminous Coated And Paved Pipe Arch Culvert
BCT Breakaway Cable Terminal
BCWE Base Clearance Water Elevation
BE Buried Electric
Beg. Begin
Bif. Bituminous
Bk. Back
BL, BLC Base Line, Base Line Control
Bldg. Building
Blkhd. Bulkhead
BLON Begin Length Of Need
Blvd. Boulevard
BM Bench Mark
Bndry. Boundary
Bdr. Border
Bot. Bottom
BO Basin Outlet
BOS Beginning Of Survey
BP Borrow Pit
Bq. Bequerel
Br. Bridge
Brg. Bearing
Brkwy. Breakaway
BT Buried Telephone Cable or Duct
Btfly. Butterfly
BW Barbed Wire, Bottom Width or Both Ways

C Cantilever Length, Cut, Colorless, Coulomb or Cycle Length
°C Degree Celsius
C & G Curb And Gutter
CA Coarse Aggregate
Cap. Capacity
CAP Corrugated Aluminum Pipe
Caps. Capital Letters
CASP Corrugated Aluminum Steel Pipe
CATV Cable Television
CB Catch Basin
CBC Concrete Box Culvert
CBS Concrete Box Structure
CC, C/C, C to C, or C.C. Center to Center, Crash Cushion
CCEW Center to Center Each Way
CD Cross Drain, Cross Direction (Geotextiles)
cd Candel
Cem. Cement or Cemetery
Cem'd. Cemented
CFS Cubic Feet Per Second
Ch. Channel
Chohg. Channel Change
Chg. Changeable
CI Cast Iron
CIP Cast Iron Pipe
C/PL Cast In Place
cir. or circ. Circle or Circular

cir. Circumference
Ckt. Circuit
Cl. or Clear Clearance
CL, C/L or e Center Line
CM Concrete Monument
CMB Concrete Median Barrier
CMP Corrugated Metal Pipe
CMPA Corrugated Metal Pipe Arch
Co. County or Company
Col. Column
Com. Commercial or Common
COMM Committee or By Committee
Comp. Composite
Con. Connect or Connection
Conc. Concrete
Const. Construct or Construction
Contrl. Controller
Cont. Continuation
Contr. Contractor
Coord. Coordinate
Cor. Corner
Corr. Corrugated
CP Concrete Pipe
CPE Corrugated Polyethylene Pipe
CPT Cone Penetration Test
CR Control Radius or County Road
CRA Clear Recovery Area
Crs. or Cse. Course
CS Curve To Spiral
CSP Corrugated Steel Pipe
CT Clear Trunk
CTPB Cement Treated Permeable Base
Ctvr. Cantilever
Ctr. Center
CU or Cu Copper
Culv. Culvert
Cwt. Hundredweight
CY Cubic Yard
Cyl. Cylindrical
CZ Clear Zone

D Degree Of Curvature, Depth, Density, Distance, Diameter or Directional Distribution
DA Drainage Area or Deflection Angle
DBH Diameter At Breast Height
DBI Ditch Bottom Inlet
Dbl. Double
DCS Degree Of Curvature (Spiral)
DD Dry Density
DDHV Directional Design Hour Traffic
Decel. Deceleration
Deg. Degree
Defin. Delin. Delin. Delinators
Demobl. Demobilization
Dept. Department
Def. Detour, Detection, Detectable
DFE Design Flood Elevation
DGN or Dgn. Design
DHV Design Hourly Volume
DHW Design High Water
DT Ditch
DI Drop Inlet
Dia. or D Diameter
Dim. Dimension
Dist. Distance
Disp. Disposal
DLS District Location Surveyor
DMM Domestic Mail Manual
DOT Department Of Transportation
DPI or D.P.I. Ditch Point Intersection
Dr. or DR. Drain, Drive or Design Review
DR Design Review
Driv. Driven
Drwy. Driveway
DS Design Speed
DSL Design Service Life
Dwg. Drawing

E East or External Distance
e Rate Of Super-elevation
E to E End to End
EA or Ea. Each
EB Eastbound
El. or Elev. Elevation
Elast. Elastomeric
Elec. Electric
Ellip. Elliptical
Embk. Embankment
Emul. Emulsified
Encl. Enclosure
Engr. Engineer
EQS End Of Survey or Equivalent Opening Size
E.P. Edge Of Pavement
Eq. Equation or Equal
Equip. Equipment
Esmt. Easement
Est. or Estm. Estimate
Est. Establish or Established
Etc. or etc. Et Cetera (And So Forth)
EW Endwall
Ex. Except, Example
Exc. or Excov. Excavation
Exist. Existing
Exp. Expansion
Ext. Extension
Exwy. Expressway

F Fill, Farad
F or Final Final Quantity
F & I Furnish & Install
F to F Face to Face
FA Federal Aid or Fine Aggregate
FAC Florida Administrative Code
FAP Federal Aid Project
FC Friction Course
FD French Drain
Fdn. Foundation
FDOT Florida Department Of Transportation
FE Floor Elevation
Fed. Federal
Fert. Fertilizer
FES Flared End Section
FETS Flared End Terminal Section
FH Fire Hydrant
FHWA Federal Highway Administration
Fig. Figure
Fin. Finish
F.L. or FL Flow Line
FL, Fl. or Fla. Florida
Flex. Flexible
FNQ Fuse (Type Slow Burn)
FOC Fiber Optics Cable
FPM or fpm Feet Per Minute
FRP Fiber Reinforced Pipe
FPS or fps Feet Per Second
FR or Fr. Frame
Frang. Frangible
Freq. Frequency
FS, F.S. Far Side, Florida Statutes
Ft. Foot or Feet
FTB Floating Turbidity Barrier
FTBA Florida Transportation Builder Association
Furn. Furnish
Fut. Future

G Giga or Gauss
g Gram or Gravity
Galv. Galvanized
Ga. Gauge or Gage
Ga. or Gal. Gallon
Gar. Garage
GD Gutter Drain
GIP Galvanized Iron Pipe
GM Gas Main
GP Grade Point
Gr. Grade, Guardrail or Grate
Gr. or Gro. Gross
GRC Galvanized Rigid Steel Conduit
Grd. Ground
gross km Gross Kilometer
Gr. Wt. or gr. wt. Gross Weight
Gtr. Gutter
Gy Gray

H Henry
h Hour or Hecto
ha Hectare
HAR Highway Advisory Radio
HB Hay Bales
HC Horizontal Clearance
HD High Density or Heavy Duty
HD or Hd. Head
Hdwl. Headwall
HH Heavy Hex
Hndrl. Handrail
HOA Hand/Off/Automatic
Horiz. or Hor. Horizontal
HP High Pressure or Horsepower
Hr. Hour
HS High Strength
HSHV High Strength Horizontal Vertical
Hse. House
Ht. Height
HW or H.W. High Water or Hot Water
Hwy. Highway
Hyd. Hydrant or Hydraulic
Hz Hertz

I External Angle (Delta), Interstate
Intchg. or lchg. Interchange
IES Illuminating Engineering Society
ID Inside Diameter or Identification
IMC Intermediate Metal Conduit
In. Inch
Inc. Incorporated or Including
Incl. or Inc. Included
Ind. Industry or Industrial
Inv. or Inv. Invert
IP Iron Pipe
Install. Installed
Isct. Intersection
Isl. Island
IR Iron Rod
ITE Institute Of Transportation Engineers

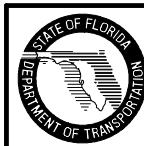
J Joule
JB Junction Box
Jct. Junction
Jt. Joint

K Design Hour Factor or Kelvin
k Kilo (prefix)
kg Kilogram
kg/m Kilogram Per Meter
kg/m² Kilogram Per Square Meter
kg/m³ Kilogram Per Cubic Meter
Kilo One Thousand
Kip 1000 Pounds
km Kilometer
km/h Kilometer Per Hour
kn Knot
kN Kilonewton
kPa Kilopascal
ksi Kips Per Square Inch
KV Kilovolt
kVA Kilovolt Ampere
kWh Kilowatt-hour

L Length, Length Of Curve, Liter, Left
2-L Two-Lane
2LW Two-Lane One-Way
2L2W Two-Lane Two-Way
LA or L/A Limited Access
lane km Lane Kilometer
Lat. Lateral or Latitude
Lb. Pound
lb/sy Pounds Per Square Yard
LBR Limerock Bearing Ratio
LC Long Chord
LEO Law Enforcement With Flashing Lights And Radar
Lgth. Length
Lin. Linear
lm Lumen
Lmrk. Limerock
LOS Limit Of Clear Sight
Loc., LO Location
Long. Longitude
LS Length Of Spiral
LT Left Turn
Lt. Left
Ltd. Lighted or Limited
Lum. Luminaire
L/W Lightweight
lx Lux

M Mass, Middle Ordinate Length or Mega
m Meter or Milli
m² Square Meter or Meter Square
m³ Cubic Meter or Meter Cubed
m³/m Cubic Meter Per Meter
m/s Meters Per Second
Mach. Machine
Maint. Maintenance
Matl. Material
Max. Maximum
MB Median Barrier
MBM Thousand (Feet) Board Measure
MD Machine Direction (Geotextiles)
Med. Median
Mega One Million
Memb. Member
MES Mitered End Section
Mess. Message
Mfg. Manufactured or Manufacturer
MG 1000 Gallons
MH, M.H. Manhole, Mounting Height
MHW Mean High Water
μ Micro
Mi. Mile
Micro One-Millionth
Mid. Middle
Mil One-Thousandth Of An Inch
Mil. Military
Milli One-Thousandth
Min. Minimum or Minute
Misc. Miscellaneous
mL Milliliter
MLW Mean Low Water
mm Millimeter
Mobl. Mobilization
Mod. Modify or Modified
Mol. Mole
Mon. Monument
MOT Maintenance Of Traffic
MP Mile Post

The abbreviations listed are the standard for contract plans production. This list is not inclusive. Other Department accepted abbreviations may be used when deemed more appropriate. Where special abbreviations are used a descriptive tabulation may be necessary in the plans.



UNITS OF MEASURE

US MEASUREMENT

AC	Acre
AS	Assembly
BU	Bushel
CF	Cubic Foot
CO	Cleanout
CY	Cubic Yard
EA	Each
ED	Each Day
GA	Gallon
GM	Gross Mile
LB	Pound
LF	Linear Foot
LM	Lane Mile
LO	Per Location
LS	Lump Sum
LU	Luminaire
MB	Thousand Board Measure
MG	Thousand Gallons
MH	Man Hour
NM	Net Mile
PA	Per Analysis
PB	Per Building
PE	Pile
PI	Per Intersection
PL	Plant
PM	Per Mile
PS	Per Set
PW	Per Well
SF	Square Foot
SY	Square Yard
TN	Ton

METRIC MEASUREMENT

AS	Assembly
CO	Cleanout
DA	Day
EA	Each
ED	Each Day
GK	Gross Kilometer
HA	Hectare
HR	Hour
KG	Kilogram
KL	Kiloliter
KM	Kilometer
LJ	Liter
LK	Lane Kilometer
LO	Per Location
LS	Lump Sum
LS/AS	Lump Sum Per Assembly
LS/DA	Lump Sum Per Day
LS/EA	Lump Sum Per Each
LS/HA	Lump Sum Per Hectare
LS/KG	Lump Sum Per Kilogram
LS/LS	Lump Sum Per Lump Sum
LS/MT	Lump Sum Per Metric Ton
LS/MI	Lump Sum Per Linear Meter
LS/M2	Lump Sum Per Square Meter
LU	Luminaire
MH	Man Hour
MO	Month
MT	Metric Ton
MI	Meter
M2	Square Meter
M3	Cubic Meter
NK	Net Kilometer
PA	Per Analysis
PB	Per Building
PI	Per Intersection
PL	Plant
PW	Per Well

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MPa	Megapascal	Pr.	Pair	Stg.	Strong
MPH or mph	Miles Per Hour	PRC	Point Of Reverse Curvature	Stge.	Storage
MSL	Mean Sea Level	Prast.	Precast	Stl.	Steel
Mtd.	Mounted	Prest.	Prestressed	Str.	Structure
MUTCD	Manual On Uniform Traffic Control Device	Prob.	Probability	Sty.	Story
MUTS	Manual On Uniform Traffic Studies	Prod.	Product, Production, Producer or Produced	SU	Single Unit Trucks
N	North or Newton	Prog.	Program or Progression	Sub. or Subs.	Subsoil
N/m	Newtons Per Meter	Proj.	Project or Projection	Sub. or Subst.	Substitute
N/m ²	Newtons Per Square Meter	PRM	Permanent Reference Monument	Subgr.	Subgrade
N/m ³	Newtons Per Cubic Meter	Prov.	Provisions	Suppts.	Supports
N/mm ²	Newtons Per Square Millimeter	PS & E	Plans, Specifications And Estimates	SUR or Sur.	Survey
NA or N/A	Not Available or Not Applicable	PSF or psf	Pounds Per Square Foot	Surf.	Surface
N & C	Nail & Cap	PSI or psi	Pounds Per Square Inch	SW	Southwest
N & D	Nail & Disk	PT	Point Of Tangency or Pressure Treated	SW or Swk.	Sidewalk
NAVD	National American Vertical Datum	PVC	Polyvinyl Chloride	Sys. or Syst.	System
NB	Northbound	PW	Pressure Water	Sv	Steevert
NC	National Coarse or Normal Crown	Q	Peak Discharge or Flow Volume	T	Tangent, Length Of Curve, Percent Trucks, Tesla,
NDCBU	Neighborhood Delivery And Collection Box Unit	QPL	Qualified Products List	T, TWP or Twp.	Township
NE	Northeast	R	Right	t	Metric Ton
net km	Net Kilometer	R or Rad.	Radius	tan.	Tangent
NEMA	National Electrical Manufacturers Association	R or Rng.	Range	TBM	Temporary Bench Mark
NGVD	National Geodetic Vertical Datum of 1929	rad	Radian	TC	Tangent To Curve
NGS	National Geodetic Survey	rad/s	Radian Per Second	TCB	Temporary Concrete Barrier
NHS	National Highway System	RBAC	Road Base Asphaltic Concrete	TCE	Temporary Construction Easement
NHW	Normal High Water	RBST	Road Base Surface Treatment	TCP	Terra Cotta Pipe
NIC	Not In Contract	RC	Reverse Crown	TCZ	Traffic Control Zone
NJ	New Jersey	RCP	Reinforced Concrete Pipe	TDLC	Transportation Design For Livable Communities
N·m	Newton Meter	RCPA	Reinforced Concrete Pipe Arch	Tel.	Telephone
No.	Number	Rd.	Road or Round	Temp.	Temperature or Temporary
Nom.	Nominal	Rdsd.	Roadside	Traf.	Traffic
Norm.	Normal	Rdwy.	Roadway	Theo.	Theoretical
N.P.	Non Plastic	Rec.	Recovery	THRMP/STC	Thermoplastic
NS	Non Stress, Not Suitable or Near Side	Rect.	Rectangle or Rectangular	THW or THWN	Insulation (Flame Retardant, Moisture And Heat Resistant Thermoplastic)
NT, N&T	Non Traffic, Nail & Tin	Ref.	Reference	Thick.	Thickness
NTS	Not To Scale	RefI.	Reflective	Tk	Thick, Thickness or Truck
NW	Northwest	Reg.	Region, Regular, Registered or Regulation	Tn.	Ton
Opass	Overpass	Reinf.	Reinforced or Reinforcing	Trans.	Transition, Transverse, Translate or Transportation
O to O, o to o or O.O.	Out to Out	ReJuv.	Rejuvenation	Treat.	Treatment
OA	Overall	Reloc.	Relocated	TS	Tangent To Spiral
O.B.G.	Optional Base Group	Rem.	Removal	TSC	Length Of Tangent (Spiral Curve)
OC or O.C.	On Center	Repl.	Replace	TTC	Temporary Traffic Control
OD or O.D.	Outside Diameter	Req. or Reqd.	Required	Typ.	Typical
OE	Overhead Electric	Res.	Residence or Residential	Upass.	Underpass
OH, OHD or Ohd.	Overhead	RHW	Insulation (Moisture & Heat Resistant Rubber)	UG	Underground
Opt.	Option, Optional or Optically	RM	Reference Monument	UL	Underwriters Laboratories
OT	Overhead Telephone	r/min	Revolution Per Minute	Ult.	Ultimate
Oz.	Ounce	RP	Reference Point	Ultl.	Unlimited
Ω	Ohm	rpm	Revolution Per Minute	Unddr.	Underdrains
P	Passenger Car & Light Delivery Truck	RPM	Raised Reflective Pavement Markers	Undrwy.	Underroadway
P or Plan	Plan Quantity	r/s	Revolution Per Second	UNL or Undl.	Unloaded
Pa	Pascal	RR	Railroad	Untr.	Untreated
Par.	Parallel	RSDU	Radar Speed Display Unit	USC & GS	US Coast and Geodetic Survey (now National Geodetic Survey)
Pa's	Pascal Second	Rsf.	Resurface	USGS	US Geological Survey
Part.	Participation or Partition	Rt.	Right	USPS	United States Postal Service
Pavt.	Pavement	R/W, ROW	Right Of Way	Util.	Utilities
PC	Point Of Curvature	S or s	Speed, South, Seimens, Or Second	UV	Ultraviolet
PCBC	Precast Concrete Box Culvert	SAHM	Sand-Asphalt Hot Mix	V	Volt, Velocity, Volume or Hourly Volume
PCC	Point Of Compound Curvature or Plain Cement Concrete	SAN or San.	Sanitary	Var.	Varies, Variable or Variance
PCE	Permanent Construction Easement	SB	Southbound	VC	Vertical Curve
PE	Professional Engineer	SBAC	Shell Base Asphaltic Concrete	VCP	Vitrified Clay Pipe
Ped	Pedestrian or Pedestal	SBRM	Sand Bituminous Road Mix	VECP	Value Engineering Change Proposal
Pen.	Penetration	SBST	Shell Base Surface Treatment	Veh.	Vehicle
PG	Profile Grade	SC	Seal Coat or Spiral To Curve	Vert.	Vertical
PGL	Profile Grade Line	Sch.	Schedule	VF	Vertical Foot
Ph.	Phase	SCST	Sand-Clay Surface Treatment	Vh	Verified Horizontal Location
pH	Measure Of Acidity or Alkalinity	SD	Side Drain, Storm Drain	VMS	Variable Message Sign
PI	Point Of Intersection	SE	Southeast	Vol.	Volume
Pkg.	Parking	Sec.	Second	VP	Vertical Panel
Pkwy.	Parkway	Secf.	Section	VPD or Vpd.	Vehicles Per Day
PL or Pl	Property Line or Plate	Sed.	Sediment	VPH or Vph.	Vehicles Per Hour
PM	12:00 Noon Until 11:59 Midnight	Sep.	Separator	VPHPL or Vphpl.	Vehicles Per Hour Per Lane
POC	Point On Curve	Seq.	Sequential	VRMS	Volts Root Mean Square
POST	Point On Semi-Tangent	Serv.	Service	Vv	Verified Vertical Elevation
POT	Point On Tangent	SF	Adjustment Factor In Percent, Silt Fence	Vvh	Verified Vertical Elevation And Horizontal Location
PP	Power Pole	SG	Subgrade	VW	Variable Width
Pr.	Pair	SG or Sp.Gr.	Specific Gravity	W	Width, Wide, West or Watt
PRC	Point Of Reverse Curvature	Sh. or Shf.	Sheet	W/C	Water-Cement Ratio
Prast.	Precast	Shldr.	Shoulder	WB	Westbound
Prest.	Prestressed	SHW	Seasonal High Water	Wb.	Weber
Prob.	Probability	SIP	Stay In Place	WB40	Intermediate Semi Trailer
Prod.	Product, Production, Producer or Produced	Spa.	Space	WB50	Large Semi Trailer
Prog.	Program or Progression	Spag. or Sp.	Spacing	WB60	Tandem Semi Trailer
Proj.	Project or Projection	Spec.	Specification	WM	Water Main
PRM	Permanent Reference Monument	SPT	Standard Penetration Test	W.P.I.	Work Program Item
Prov.	Provisions	Sq. Ft., SF, or S.F.	Square Foot	WT	Water Table Or Weight
PRS	Portable Regulatory Sign	Sq. In.	Square Inch	WWF	Welded Wire Fabric
PS & E	Plans, Specifications And Estimates	Sq. Yd., SY or S.Y.	Square Yard	X	Coordinate Value (East-West Direction) or Extra
PSF or psf	Pounds Per Square Foot	SR or S.R.	State Road	X Rd.	Cross Road
PSI or psi	Pounds Per Square Inch	SRAP	Spiral Rib Aluminum Pipe	Xing.	Crossing
PT	Point Of Tangency or Pressure Treated	SRASP	Spiral Rib Aluminized Steel Pipe	Xsec.	Cross Section
PVC	Polyvinyl Chloride	SRD	State Road Department	Y	Coordinate Value (North-South Direction)
PW	Pressure Water	SRSF	Spiral Rib Steel Pipe	Yr.	Year
		SS	Sanitary Sewer		
		SSMD	Solid State Modular Design		
		ST	Surface Treatment or Spiral To Tangent		
		St. or ST.	Street		
		Sta.	Station		
		Stab.	Stability or Stabilization		
		STB	Staked Turbidity Barrier		
		Std.	Standard		



2006 FDOT Design Standards

STANDARD ABBREVIATIONS

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