

				STATE	PROJECT	SHEET NUMBER
abutment	abut.	length of curve	L	NATIONAL BOUNDARY		
aggregate	agrgr.	length of spiral	Ls	STATE BOUNDARY		
ahead	AH	liter	L	COUNTY BOUNDARY		
alternate	alt.	longitudinal	long.	CITY BOUNDARY		
and	&	low water	LW	TOWNSHIP or RANGE LINE		
and others	et al	lump sum	LPSM	SECTION LINE		
and wife	et ux			1/4 SECTION LINE		
and so forth (et cetera)	etc.	magnetic	mag.	1/16 SECTION LINE		
approach	appr.	main line	M.L.	NATIONAL PARK or FOREST BOUNDARY		
approximate	approx.	maintenance	maint.	PROPERTY LINE	P/L	
asphalt	aspsh.	material	matl.			
at	@	maximum	max.	RIGHT-OF-WAY LINE	EXISTING	R/W
average daily traffic	ADT	meter (measurement)	m	PROPOSED	R/W	
back	BK	metric ton	t			
back to back	b. to b.	millimeter	mm	RIGHT-OF-WAY LINE	EXISTING	R/W
balance point	BP	mile post	M.P.	PROPOSED	R/W	
batter	btr.	minute(s) (angular)	'			
beam	bm.	minimum	min.	EASEMENT (Permanent; Non-Permanent)	P/E	C/E
bearing	brg.	miscellaneous	misc.			
beginning	beg.	monument	mon.	SLOPE STAKE	TOP OF CUT	
bench mark	BM	mountain(s)	mtn(s).		TOE OF FILL	
bridge	br.				TRANSITION	
centerline	€	negative	neg.	ROADWAY, EXISTING		
center to center	cc or c. to c.	north	N			
centers	ctrs.	newton	N	RAILROAD	SINGLE TRACK	
channel change	ch. ch.	number	no.		MULTIPLE TRACK	
clear	clr.	original ground	OG			
column	col.	out to out	o. to o.			
concrete	conc.	outside diameter	OD			
connection	conn.					
construction	constr.	pascal	Pa			
construction joint	constr. jt.	pavement	pvmnt.			
contingent sum	CTSM	percent	pct. or %			
continuous	cont.	perforate	perf.			
Contracting Officer	CO	plate	pl.			
control point	CP	point of compound curve	PCC			
corrugated	corr.	point of curve	PC			
corrugated metal pipe	CMP	point on curve	POC			
coulomb	C	point of intersection	PI			
county	cty.	point of spiral to curve	PSC or SC			
countersink	ctsk.	point of curve to spiral	PCS or CS			
creek	cr.	point on spiral	POS			
cubic meter	m³ or m³	point of spiral to reverse spiral	SRS			
culvert	culv.	point of spiral to tangent	PST or ST			
curve central angle	Δc	point on tangent	POT			
degree	° or deg.	point of tangent to spiral	PS or TS			
degree Celsius	°C	point of tangent	PT			
design hourly volume	DHV	project	proj.			
design speed	V	quantities	quant.			
diagonal	diag.	radian	rad			
diameter	dia., D, or Ø	radius	R			
diaphragm	diaph.	range	R.			
district	Dist.	reconstruction	reconst.			
donation land claim	DLC	reinforcement	reinf.			
drawing(s)	drwg(s).	required	reqd.			
east	E	reservoir or Reservation	res.			
edge of pavement	EP	retaining wall	ret. wall			
edge of water	EW	right	rt. or RT			
edge of road	ER	right-of-way	R/W			
elevation	elev.	road	rd.			
elevation with number	El. 94.06 m	roadway	rdwy.			
embankment	emb.	route	rte.			
Engineer(s)	engr(s).	school	sch.			
equation	EQ or ea.	second (angular)	s			
excavation	exc.	second (time)	sec.			
expansion joint	exp. jt.	section	sl. prot.			
Federal	Fed.	slope protection	S			
finish	fin.	south	spa.			
flange	flg.	spacing, Spaces or Spaced	spec.			
footing	ftg.	specification	ßs			
for example	e.g.	spiral central angle	sq			
galvanized	galv.	square	m² or m²			
gage (gauge)	ga.	square meter	std.			
headwall	hdwl.	standard	sta.			
hectare	ha.	stiffener	stiff.			
hexagon	hex.	straight	str.			
high water	HW	stringer	strg.			
highway	hwy.	structural	struc.			
house	hse.	superelevation rate	e			
homestead entry survey	HES	symmetrical	sym.			
identification	iden.	tangent	tan.			
inclusive	incl.	tangent distance	T			
inside diameter	ID	tangent distance (spiraled curve)	Ts			
joint	jt.	temporary bench mark	TBM			
Kilogram	kg	that is	i.e.			
kilometer	km	thread	thd.			
kilometer per hour	Km/h	total central angle	Δ			
Kilometer post	K.M.	township	T.			
lamination	lam.	typical	typ.			
latitude	lat.	vehicles per hour	vph			
left	lt. or LT	vertical point of intersection	VPI			
warehouse		warehouse	whs.			
		west	w			
NOTE:						
1. Other symbols used in the plans will be shown in a legend on the appropriate plan sheet.						
2. Dimensions in this plan set are in millimeters unless otherwise noted.						
				U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION WESTERN FEDERAL LANDS HIGHWAY DIVISION		
				METRIC DETAIL PLAN SYMBOLS and ABBREVIATIONS		
				DETAIL APPROVED FOR USE 11/2001		
				REVISED: WM101-I		
				DETAIL		