abutment	abut.
acre	acre
aggregate	aggr.
ahead	AH
alternate	alt.
and	&
and others	et al
and wife	et ux
and so forth (et cetera)	etc.
approach	appr.
approximate	approx.
asphalt	asph.
average daily traffic	ADT
back	BK
back to back	b. to b.
balance point	BP
batter	btr.
beam	bm.
bearing	brg.
beginning	beg.
bench mark	BM
bridge	br.
centerline	℄
center to center	cc or c. to c.
centers	ctrs.
channel change	ch. ch.
clear	clr.
column	col.
concrete	conc.
connection	conn.
construction	constr.
construction joint	constr. jt.
contingent sum	CTSM
continuous	cont.
corrugated	corr.
corrugated metal pipe	CMP
coulomb	C
county	co.
countersink	ctsk.
creek	cr.
cubic yard	yd^3 or yd3
culvert	culv.
curve delta	Δ
curve left	LT
curve right	RT
degree	°. deg.
degree Celsius	°C
design hour volume	DHV
diagonal	diag.
diameter	dia. or D
diaphragm	diaph.
district	Dist.
donation land claim	DLC
drawing(s)	drwg(s).
east	E
edge of pavement	EP
edge of water	EW
edge of road	ER
elevation	elev.
elevation with number	El. 94.066
embankment	emb.
Engineer(s)	engr(s).
equation	EQ or eq.
excavation	exc.
expansion joint	exp. jt.
federal	Fed.
finish	fin.
flange	flg.
foot	ft
footing	ftg.
for example	e.g.
galvanized	galv.
gage (gauge)	ga.
headwall	hdwl.
hexagon	hex.
high water	HW
highway	hwy.
house	hse.
homestead entry survey	HES
identification	iden.
inch	in.
inclusive	incl.
inside diameter	ID
joint	jt.
lamination	lam.
latitude	lat.
left	lt.

length of curve	L
liter	L
longitudinal	long.
low water	LW
lump sum	LPSM
magnetic	mag.
maintenance	maint.
material	matl.
maximum	max.
mile	mi.
miles per hour	mph
mile post	M.P.
minute(s) (angular)	′
minimum	min.
miscellaneous	misc.
monument	mon.
mountain(s)	mtn(s).
negative	neg.
north	N
number	no.
original ground	OG
out to out	o. to o.
outside diameter	OD
pavement	pvmt.
percent	pct. or %
perforate	perf.
plate	pl.
point of compound curve	PCC
point of curve	PC
point on curve	POC
point of intersection	PI
point of spiral to curve	PSC or SC
point of curve to spiral	PCS or CS
point on spiral	POS
point of spiral to tangent	PST or ST
point on tangent	POT
point of tangent to spiral	PS or TS
point of tangent	PT
pound	lb
pressure (pounds/sq. inch)	psi
project	proj.
quantities	quant.
radian	rad
radius	R
range	R.
reconstruction	reconst.
reinforcement	reinf.
required	reqd.
reservior or Reservation	res.
retaining wall	ret. wall
right	rt.
right-of-way	R/W
road	rd.
roadway	rdwy.
route	rte.
school	sch.
second (angular)	″
second (time)	s
section	sec.
slope protection	sl. prot.
south	S
spacing, Spaces or Spaced	spa.
specification	spec.
square	sq
square yard	yd^2 or yd2
standard	std.
station	sta.
stiffener	stiff.
straight	str.
street	st.
stringer	stgr.
structural	struc.
superelevation rate	e
symmetrical	sym.
tangent	tan.
tangent length	T
temporary bench mark	TBM
that is	i.e.
thread	thd.
township	T.
typical	typ.
vehicles per hour	vph
vertical point of intersection	VPI
warehouse	whs.
west	W

NATIONAL BOUNDARY
STATE BOUNDARY
COUNTY BOUNDARY
CITY BOUNDARY
TOWNSHIP or RANGE LINE
SECTION LINE
1/4 SECTION LINE
1/16 SECTION LINE
NATIONAL PARK or FOREST BOUNDARY
PROPERTY LINE — P/L
RIGHT-OF-WAY LINE — EXISTING r/w; PROPOSED R/W
RIGHT-OF-WAY LINE with MONUMENT — EXISTING r/w; PROPOSED R/W
PARTIAL CONTROL OF ACCESS — EXISTING; PROPOSED
FULL CONTROL OF ACCESS — EXISTING; PROPOSED
EASEMENT (Permanent - Temporary) — PE; TCE
SLOPE STAKE — TOP OF CUT; TOE OF FILL
ROADWAY, EXISTING
RAILROAD — SINGLE TRACK; MULTIPLE TRACK
TRAIL
INTERMITTENT DRAINAGE and SMALL CREEK
LARGE CREEK
RIVER
LAKE, POND or RESERVOIR; MARSHLAND
SPRING
TREELINE; TREE
MATERIAL SOURCE

	FOUND	PROJECTED
SECTION CORNER	36 31 / 1 6	36 31 / 1 6
1/4 SECTION CORNER	15 / 22	15 / 22
1/16 SECTION or PROPERTY CORNER		
PROPERTY CORNER		No Symbol
PARCEL NUMBER	No Symbol	400

NORTH ARROW

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS

	EXISTING	PROPOSED
FENCE	x — x	xx — xx
GATE with FENCE	x x	xx xx
CATTLEGUARD		
GUARDRAIL		
MEDIAN & SIDE BARRIER		
SIGNS — POST MOUNTED		
SIGNS — PORTABLE	No Symbol	
SIGNS — COMMERCIAL		
RETAINING WALL	wall face	
POWER POLE with UTILITY LINE	P	P
TELEPHONE POLE with UTILITY LINE	T	T
JOINT USE POLE with UTILITY LINES	P&T	P&T
SUPPORT POLE, and with ANCHOR		
TELEPHONE BOOTH or PEDESTAL	TB or TP	TB or TP
STREET LIGHT	or	or
UNDERGROUND UTILITIES G=gas, O=oil, P=power, SA= sanitary sewer, SS=storm sewer, T=telephone, W=water	W	W
BRIDGE		
PIPE CULVERT (arrow shows flow)		
PIPE CULVERT with END SECTION		
PIPE CULVERT with HEADWALL		
BOX CULVERT		
CULVERT with DROP INLET		
UNDERDRAIN	UD	UD
TRAVERSE POINT (Horizontal & Vertical) Top of Triangle Points North	T-45 645.934	No Symbol
TRAVERSE POINT (Horizontal)	T-3	No Symbol
BRASS CAP		No Symbol
STEEL PIN		No Symbol
HUB & TACK		No Symbol
SPOT ELEVATION	× 99.9	No Symbol
COORDINATE GRID TICK		No Symbol
BUILDING		
BORING LOCATION		No Symbol
RIPRAP	No Symbol	

NOTE:
Other symbols used in the plans will be shown in a legend on the appropriate plan sheet.

CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS

12/07/2004 07:53:42 AM:#Standards#Std_Drawings_and_Details#CFLHD English Details (FP-96)#symbols.dgn