STATE	PROJECT	SHEET NUMBER
MT	RRP-CHRU 101(2)	A.2

abutment	abut.
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.
at	@
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.
Contracting Officer	CO
control point	CP
corrugated	corr.
corrugated metal pipe	CMP
coulomb	C
county	cty.
countersink	ctsk.
creek	cr.
cubic meter	m^3 or m3
culvert	culv.
curve central angle	Δc
degree	° or deg.
degree Celsius	°C
design hourly volume	DHV
design speed	V
diagonal	diag.
diameter	dia., D, or ø
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. 94.06 m
embankment	emb.
Engineer(s)	engr(s).
equation	EQ or eq.
excavation	exc.
expansion joint	exp. jt.
Federal	Fed.
finish	fin.
flange	flg.
footing	ftg.
for example	e.g.
galvanized	galv.
gage (gauge)	ga.
headwall	hdwl.
hectare	ha
hexagon	hex.
high water	HW
highway	hwy.
house	hse.
homestead entry survey	HES
identification	iden.
inclusive	incl.
inside diameter	ID
joint	jt.
kilogram	kg
kilometer	km
kilometer per hour	km/h
kilometer post	K.M.
lamination	lam.
latitude	lat.
left	lt. or LT

length of curve	L
length of spiral	Ls
liter	L
longitudinal	long.
low water	LW
lump sum	LPSM
magnetic	mag.
main line	M.L.
maintenance	maint.
material	matl.
maximum	max.
meter (measurement)	m
metric ton	t
millimeter	mm
mile post	M.P.
minute(s) (angular)	′
minimum	min.
miscellaneous	misc.
monument	mon.
mountain(s)	mtn(s).
negative	neg.
north	N
newton	N
number	no.
original ground	OG
out to out	o. to o.
outside diameter	OD
pascal	Pa
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 reverse spiral	SRS
point of spiral to tangent	PST or ST
point on tangent	POT
point of tangent to spiral	PS or TS
point of tangent	PT
project	proj.
quantities	quant.
radian	rad
radius	R
range	R.
reconstruction	reconst.
reinforcement	reinf.
required	reqd.
reservoir or Reservation	res.
retaining wall	ret. wall
right	rt. or 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.
spiral central angle	θs
square	sq
square meter	m^2 or m2
standard	std.
station	sta.
stiffener	stiff.
straight	str.
street	st.
stringer	stgr.
structural	struc.
superelevation rate	e
symmetrical	sym.
tangent	tan.
tangent distance	T
tangent distance (spiraled curve)	Ts
temporary bench mark	TBM
that is	i.e.
thread	thd.
total central angle	Δ
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
EASEMENT (Permanent; Non-Permanent) — P/E; C/E
SLOPE STAKE — TOP OF CUT; TOE OF FILL; TRANSITION
ROADWAY, EXISTING
RAILROAD — SINGLE TRACK; MULTIPLE TRACK
SILT FENCE
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

NOTE:

1. Dimensions in this plan set are in millimeters unless otherwise noted.
2. Other symbols used in the plans will be shown in a legend on the appropriate plan sheet.

NORTH ARROW

	EXISTING	PROPOSED
FENCE		
GATE with FENCE		
CATTLEGUARD		
GUARDRAIL		
SIGNS — Post mounted, single		
SIGNS — Post mounted, double		
SIGNS — Portable	No Symbol	
RETAINING WALL		wall face
POWER POLE UTILITIES P=power, T=telephone	P	P
UNDERGROUND UTILITIES G=gas, O=oil, P=power, SA= sanitary sewer, SS=storm sewer, T=telephone, W=water	P	P
SUPPORT POLE with ANCHOR		
TELEPHONE BOOTH or PEDESTAL	TB or TP	TB or TP
STREET LIGHT		
BRIDGE		
PIPE CULVERT (arrow shows flow)		
PIPE CULVERT with END SECTION		
PIPE CULVERT with HEADWALL		
BOX CULVERT		
CULVERT with DROP INLET	D1	D1
UNDERDRAIN	UD	UD
CONTROL POINT	CP 12345	No Symbol
SURVEY MONUMENT		No Symbol
HUB & TACK		No Symbol
SPOT ELEVATION	x EL. 1234.56 m	No Symbol
COORDINATE GRID TICK	N m	No Symbol
BUILDING		
BORING LOCATION		No Symbol
RIPRAP	No Symbol	

SAMPLE

The current versions of all FLH Standards, WFL Details and cell libraries are available at http://www.wfl.fhwa.dot.gov/design/

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:

DETAIL WM101-1

11/28/01

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