

ABBREVIATIONS

A abutment aggregate ahead alternate and others and wife approach asphalt average daily traffic	abut. aggr. AH alt. et al et ux appr. asph. ADT
B back balance point bearing beginning, begin bench mark both faces bridge	BK BP brg. beg. BM b.f. br.
C centerline center to center centers clear column concrete concrete box culvert construction construction joint contingent sum continuous corrugated corrugated metal pipe county creek culvert curve delta	CL C-C ctrs. clr. col. conc. CBC constr. constr. jt. CTSM cont. corr. CMP Co. cr. culv. Δ
D decrement design hour volume diagonal diameter diaphragm distance district donation land claim drawing(s)	decr. DHV diag. dia. or D diaph. dist. Dist. DLC dwg(s).
E east edge of pavement edge of water edge of road elevation elevation with number embankment Engineer(s) equation excavation expansion joint exterior	E EOP EW ER elev. El. 94.066 emb. enqr(s). EQ or eq. exc. exp. jt. ext.
F federal fill face finish footing for example galvanized gage (gauge) girder	Fed. f.f. fin. ftg. e.g. galv. ga. gdr.
H headwall hexagon high water highway homestead entry survey horizontal	hdwl. hex. HW hwy. HES horiz.
I inclusive, including increment inside diameter interior	incl. incr. ID int.
J joint	jt.

L lamination latitude left length of curve longitudinal low water lump sum	lam. lat. Lt. or LT L long. LW LPSM
M magnetic maintenance material maximum minimum monument mountain(s)	mag. maint. matl. max. min. mon. mtn(s).
N negative north normal crown number	neg. N NC no. or #
O on centers other face outside diameter	o.c. o.f. OD
P pavement perforate plate point of compound curve point of curve point on curve point of intersection point of spiral to curve point of curve to spiral point of spiral to tangent point on tangent point of tangent to spiral point of tangent pounds per square inch project	pvmt. perf. pl. PCC PC POC PI PSC or SC PCS or CS POS PST or ST POT PS or TS PT psi proj. quant., Qty
Q quantities	Q
R radius range reconstruction reference hub reinforcement required reservoir Reservation retaining wall right right-of-way road roadway route	R R. reconst. RH reinf. reqd. res. Res. ret. wall Rt. or RT R/W rd. rdwy. rte. sch. SADT
S school seasonal average daily traffic section shoulder south spacing, Spaces or Spaced specification standard station stiffener straight street structural superelevation rate symmetrical tangent tangent length temporary bench mark temporary construction easement transverse township typical	sec. shldr. S spa. spec. std. sta. stiff. str. st. struc. e sym. tan. T TBM TCE
T tangent tangent length temporary bench mark temporary construction easement transverse township typical	transv. T. typ.
V vehicles per hour vertical vertical point of intersection	vph vert. VPI
W west	W

DRAINAGE SYMBOLS

Ditch (Existing, Proposed)

Flow Arrow

Drainage or Small Creek

Lake, Pond or Reservoir

Large Creek

Wetland

River

Spring

Bridge (Existing, Proposed)

Box Culvert (Existing, Proposed)

Pipe Culvert (Existing, Proposed)

With End Sections (Existing, Proposed)

With Headwalls (Existing, Proposed)

With Drop Inlet (Existing, Proposed)

Underdrain (Existing, Proposed)

Riprap Apron (Proposed)

EROSION CONTROL SYMBOLS

Mulching, Bonded Fiber Matrix

Check Dam

Diversion Berm

Erosion Control Mat

Riprap

Sediment Log at:

Culvert Inlet With End Section

Culvert Inlet With Head and/or Wing Walls

Ditch and/or Cut Slope

Drop Inlet

Slope Protection (Wattle)

Silt Fence

FENCE & CATTLEGUARD SYMBOLS

Fence (Existing, Proposed)

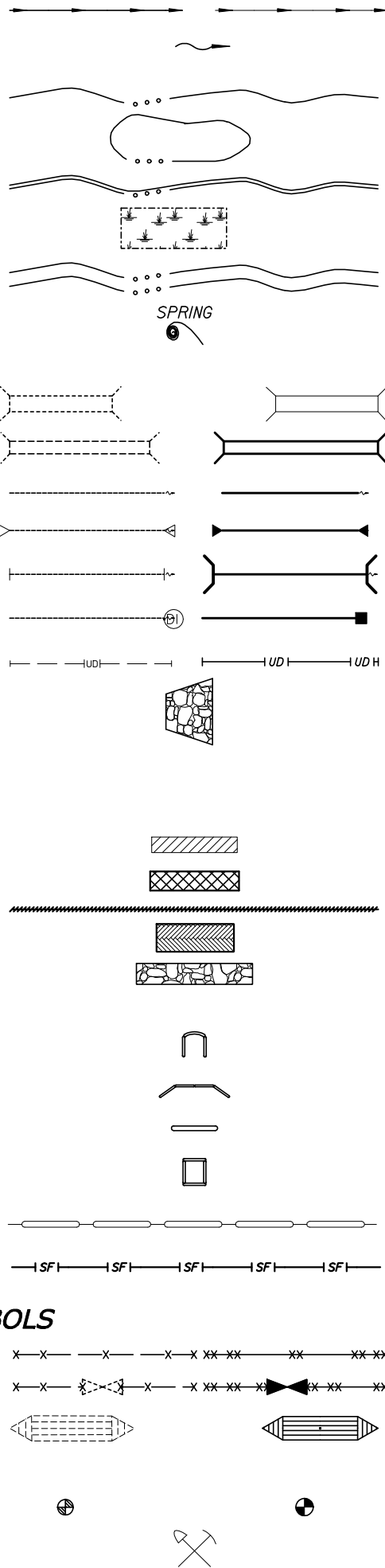
Fence w/ Gate (Existing, Proposed)

Cattleguard (Existing, Proposed)

GEOLOGIC SYMBOLS

Boring Location (Existing, Proposed)

Material Source



REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
REG	ST	PROJECT NUMBER PROJECT NAME	A2	A12

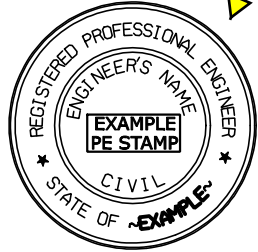
INDEX TO SHEETS (CONTINUED FROM SHEET A1)	
SHEET	DESCRIPTION
T17-T18	611-A FIRE HYDRANT
T19	615-1 ACCESSIBILITY RAMP
T20	615-A SIDEWALK
T36-T37	633-A PERMANENT SIGN MOUNTING
T38	634-A PAVEMENT MARKINGS
T39	635 BOX CAR WASH DIVERSION LAYOUT
T40-T45	635 TEMPORARY TRAFFIC CONTROL STANDARDS
T46-T48	LIGHTING DETAILS
X1	CROSS SECTION TITLE SHEET (SEPARATE PACKAGE)
X2-X31	PRA LAME 1(6) MAINLINE CROSS SECTIONS
X32-X45	PRA LAME 1(7) & 2(1) MAINLINE CROSS SECTIONS
Y1-Y5	BROADVIEW PARKING AREA CROSS SECTIONS
Y6-Y18	REDSTONE PARKING AREA CROSS SECTIONS
Y19-Y28	BOXCAR WASH DIVERSION CROSS SECTIONS
Z1-Z8	CULVERT CROSS SECTIONS

Index to Sheets continued onto sheet A2 if necessary.

A template for the Symbols Sheet is available on the CFL website at <http://www.cflhd.gov/resources/design/drawings/template/>. It is expected that this template will be revised to incorporate project-specific information.

Refer to the CFL policy on Sealing and Signing of A/E Documents (located on the CFL website: <http://www.cflhd.gov/resources/pm/documents/policies/sealing-signing-policy.pdf>)

Show the NPS PMIS number for NPS projects.



U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION
U.S. CUSTOMARY
CONVENTIONAL PLAN SYMBOLS AND ABBREVIATIONS
Sheet 1 of 2