

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(5)	A2	A16

abutment
acceleration
aggregate
ahead
algebraic difference in grades
alternate
and
and others
and wife
and so forth (et cetera)
approach
approximate
asphalt
asphalt concrete
at
average daily traffic

abut.
Accel
aggr.
AH
A
alt.
&
et al
et ux
etc.
appr.
approx.
asph.
A.C.
@
ADT

back
back to back
balance point
baseline
batter
beam
bearing
beginning
bench mark
bottom
bridge

BK
b. to b.
BP
B
btr.
bm.
brg.
beg.
BM
Bot.
br.

cast iron
cement rubble masonry
centerline
center to center
centers
channel change
chord
clear
column
concrete
connection
construction
construction joint
contingent sum
continuous
corrugated
corrugated metal pipe
coulomb
county
countersink
creek
cubic meter
culvert
curve left
curve right

C.I.
CRM
C
cc or c. to c.
ctrs.
ch. ch.
chord
clr.
col.
conc.
conn.
constr.
constr. jt.
CTSM
cont.
corr.
CMP
C
co.
ctsk.
cr.
m or m3
culv.
LT
RT

deceleration
degree
degree Celsius
delta
Department of Hawaiian Homelands
design hour volume
design speed
detail
diagonal
diameter
diaphragm
district
donation land claim
drawing(s)
ductile iron

Decel
°, deg.
°C
Δ
DHHL
DHV
V
Det.
diag.
dia. or D
diaph.
Dist.
DLC
drwg(s).
D.I.

east
edge of pavement
edge of shoulder
edge of water
edge of road
elevation
elevation with number
embankment
Engineer(s)
equation
excavation
existing
expansion joint

E
EP
ES
EW
ER
elev.
El. 94.066
emb.
enrg(s).
EQ or eq.
exc.
Exist.
exp. jt.

federal
feet
finish
flange
footing
for example

Fed.
' ft.
fin.
flg.
ftg.
e.g.

galvanized
gage (gauge)

galv.
ga.

Hawaii Department of Transportation
Hawaii Electric Light Company
headwall
hectare
hexagon
high water
highway
house
homestead entry survey
horizontal
hydraulic grade line

HDOT
HELCO
hdwl.
ha
hex.
HW
hwy.
hse.
HES
Horiz.
H.G.R.

identification
inch
inclusive
incoming road grade
inside diameter
invert

iden.
"
incl.
G1
ID
Inv.

joint

jt.

K (length of vert curve per percent change
in algebraic difference in grades)
kilogram
kilometer
kilometer per hour

L/A
kg
km
km/h

lamination
latitude
left
length

lam.
lat.
lt.
L

length of curve
linear feet
longitudinal
low water
lump sum

Lc
L.F.
long.
LW
LPSM

magnetic
maintenance
material
maximum
meter (measurement)
metric ton
millimeter

mag.
maint.
matl.
max.
m
t
mm

mile post
miles per hour
minute(s) (angular)
minimum
miscellaneous
modified
monument
mountain(s)

M.P.
M.P.H.
'
min.
misc.
mod.
mon.
mtn(s).

negative
not in contract
north
newton
not to scale
number

neg.
N.I.C.
N
N
N.T.S.
no. or #

off center
offset
original ground
out to out
outgoing road grade
outside diameter

O.C.
O/S
OG
o. to o.
G2
OD

pascal
pavement
percent
perforate
permanent berm
Plan & Profile
plate
Pohakuloa Training Area
point of beginning
point of compound curve
point of ending
point of vertical curve
point of vertical intersection
point of vertical tangent
Portland Cement Concrete
point of curve
point on curve
point of intersection
point of spiral to curve
point of curve to spiral
point on spiral
point of spiral to tangent
point on tangent
point of tangent to spiral
point of tangent
project

Pa
pvmt.
pct. or %
perf.
PB
PP
pl. or plt.
PTA
POB
PCC
POE
PVC
PVI
PVT
P.C.C.
PC
POC
PI
PSC or SC
PCS or CS
POS
PST or ST
POT
PS or TS
PT
proj.

Q₅₀
quantities

50-year water runoff
quant.

radian
radius
range
reconstruction
reinforcement
required
reservoir or Reservation
retaining wall
right
right-of-way
road
roadway
route

rad
R
R.
reconst.
reinf.
req'd.
res.
ret. wall
rt.
R/W or ROW
rd.
rdwy.
rte.

school
second (angular)
second (time)

sch.
"
s

section
sheet
sidewalk
slope
slope protection
south
spacing, Spaces or Spaced
specification
speed
square
square meter
standard
station
stiffener
straight
street
stringer
structural
superelevation
superelevation rate
symmetrical

sec.
sht.
sidewlk
slp.
sl. prot.
S
spa.
spec.
spd
sq
m or m2
std.
sta.
stiff.
str.
st.
stgr.
struc. or strctl.
SE
e
sym.

tangent
tangent length
tax map key
temporary bench mark
that is
thick
thread
township
typical

tan.
T
TMK
TBM
i.e.
thk.
thd.
T.
typ.

vehicles per hour
velocity
vertical
vertical point of intersection

vph
V
vert.
VPI

warehouse
weight
west

whs.
wt.
W

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

PLAN ABBREVIATIONS

Scale: N/A

Date: July 21, 2008

SHEET No. 1 OF 1

N:\H1\H16(5)\Roadway\sheet\A-Gen_sht\SYMB_H16(5).dgn
8:00:43 AM
7/22/2008

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	
RIGHT-OF-WAY LINE	
RIGHT-OF-WAY LINE with MONUMENT	EXISTING PROPOSED
PARTIAL CONTROL OF ACCESS	EXISTING PROPOSED
FULL CONTROL OF ACCESS	EXISTING PROPOSED
EASEMENT (Permanent)	PE
SLOPE STAKE	TOP OF CUT TOE OF FILL
JEEP TRAIL/GRAVEL ROAD	
ROADWAY, EXISTING	
RAILROAD	SINGLE TRACK MULTIPLE TRACK
TRAIL	
INTERMITTENT DRAINAGE and SMALL CREEK	
LARGE CREEK	
RIVER	
CONSTRUCTION LIMITS	
SILT FENCE	
EXISTING WATERLINE	
CONSERVED TOPSOIL, 6-INCH DEPTH	
CONSERVED CRUSHED LAVA, 6-INCH DEPTH	
LAKE, POND or RESERVOIR; MARSHLAND	
SPRING	
TREELINE; TREE	
BUSH	
MATERIAL SOURCE	

NORTH ARROW



TRUE NORTH
SCALE :

	EXISTING	PROPOSED
FENCE	— x — x —	— x — x —
GATE with FENCE	— x ⊗ x —	— xx ⊗ xx —
CATTLEGUARD		
GUARDRAIL	No Symbol	
MEDIAN & SIDE BARRIER		
SIGNS	POST MOUNTED PORTABLE 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 with ANCHOR		
TELEPHONE BOOTH or PEDESTAL	TB or TP	TB or TP
STREET LIGHT		
UNDERGROUND UTILITIES G=gas, O=oil, P=power, SA= sanitary sewer, SS=storm sewer, T=telephone, W=water	— —	— —
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	x 99.9	No Symbol
COORDINATE GRID TICK		No Symbol
BUILDING		
BORING LOCATION		No Symbol
RIPRAP		
CHECK DAM		

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(5)	A3	A16

	FOUND	PROJECTED
SECTION CORNER		
1/4 SECTION CORNER		
1/16 SECTION or PROPERTY CORNER		
PROPERTY CORNER		No Symbol
PARCEL NUMBER	No Symbol	400

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

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
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PLAN SYMBOLS

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SHEET No. 1 OF 1