

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI SR 200(3)	A2	A5

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.
AC.
@
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
contracting officer
corrugated
corrugated metal pipe
coulomb
county
countersink
creek
cubic meter
culvert
curve left
curve right

C.I.
CRM
¢
cc or c. to c.
cls.
ch. ch.
chord
clr.
col.
conc.
conn.
constr.
constr. jt.
CTSM
cont.
co
corr.
CMP
C
co.
clsk.
crl
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
Division of Forestry and Wildlife
donation land claim
drawing(s)
ductile iron

Decel.
° deg.
°C
△
DHHL
DHY
V
Det.
diag.
dia. or D
diaph.
Dist.
DOFAW
DLC
dwg(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 94066
emb.
enrg(s).
EQ or eq.
exc.
Exist.
exp. jt.

Federal
feet
finish
flange
footing
for example

Fed.
', ft.
fin.
fig.
fig.
eg.

galvanized
gage (gauge)

galv.
ga.

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

HDOT
HELCO
hawl.
ha
Ht.
hex.
HW
hwy.
HACP
hsa.
HES
Horiz.
H.G.R.

Identification
inch
inclusive
incoming road grade
inside diameter
invert

iden.
"
incl.
GI
ID
Inv.

joint

jt.

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

L/A

kilogram
kilometer
kilometer per hour

kg
km
km/h

lamination
latitude
left
length of curve
linear feet
longitudinal
low water
lump sum

lam.
lat.
lt.
Lc
LF.
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.
mnt(s).

negative
not in contract
north
newton
not applicable
not to scale
number

neg.
N.I.C.
N
N
N/A
N.T.S.
no. or "

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

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

pascal
pavement
pedestrian
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
psmt.
ped.
pct. or %
perf.
PB
PP
pl. or pl.
PTA
POB
POC
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.

50-year water runoff
quant.

Q₅₀
quantities

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.

sch.
"
s

schedule
second (angular)
second (time)

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
s/s

sec.
shl.
sidewlk
slp.
sl. prot.
S
spa.
spec.
spd
sq
m² or m2
std.
sta.
stiff.
str.
st.
strg.
struc. or struct.
SE
s
sym.
signing & striping

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

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

vehicles per hour
velocity
vertical
vertical curve
vertical point of intersection

vph
V
vert.
VC
VPI

warehouse
weight
west

whs.
wt.
W

M:\proj\Lenzie\Seaside East 11-6\sheet\seaside002.dgn



The work was prepared by me
or under my supervision and
construction of this project will
be under my supervision.
David S. M.
Expiration Date of License 12/31/2015

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

PLAN ABBREVIATIONS

Scale: N/A Date: August 21, 2015

SHEET No. 1 OF 2

\\p\proj\Lenzie\Saddle East II-6\sheet\sheet003.dgn

NATIONAL BOUNDARY	
STATE BOUNDARY	
COUNTY BOUNDARY	
CITY BOUNDARY	
TOWNSHIP or RANGE LINE	
SECTION LINE	
1/4 SECTION LINE	
1/8 SECTION LINE	
NATIONAL PARK or FOREST BOUNDARY	////////////////////
PROPERTY LINE	
RIGHT-OF-WAY LINE	
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)	PE
SLOPE STAKE	TOP OF CUT TOE OF FILL
JEEP TRAIL/GRAVEL ROAD	
ROADWAY, EXISTING	
RAILROAD	SINGLE TRACK MULTIPLE TRACK
TRAIL	
INTERMITTENT DRAINAGE & SMALL CREEK	
LARGE CREEK	
RIVER	
CONSTRUCTION LIMITS	
EARTH BERM	
EARTH LINED CHANNEL	
GRADE FIELD ACCESS ROAD	
OBLITERATE EXISTING ROADWAY	
ROLLED EROSION CONTROL PRODUCT, TYPE 3B	
SEDIMENT CONTROL LOGS	
SILT FENCE	
SURVEY CONTROL POINT TIES	
TEMPORARY CONSTRUCTION PARCEL	
WATERLINE	EXISTING PROPOSED
EXISTING WATERLINE TO BE REMOVED WITHIN THE ROW OR ABANDONED OUTSIDE OF ROW	////////////////////

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

EXISTING

PROPOSED

LAKE, POND or RESERVOIR, MARSHLAND

SPRING

TREELINE, TREE

BUSH

MATERIAL SOURCE

GROUTED RIPRAP

PLACED RIPRAP



FOUND

PROJECTED

SECTION CORNER

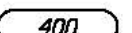
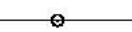
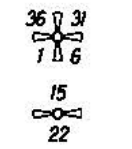
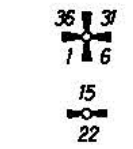
1/4 SECTION CORNER

1/8 SECTION or PROPERTY CORNER

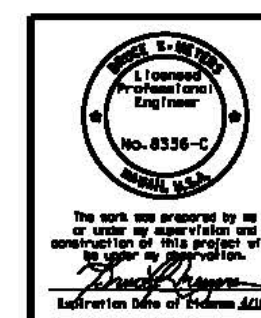
PROPERTY CORNER

PARCEL NUMBER

NORTH ARROW



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 CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
PLAN SYMBOLS	
Scale: N/A	Date: August 21, 2015
SHEET No. 2 OF 2	