

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(4)	2003	3	76

Abbr.	Description
A	Abut.
Abbr.	Abbreviate, Abbreviation
A.C.	Exist. Asphalt Concrete
Adj.	Adjacent
Alt.	Alternate
&	And
Approx.	Approximate
A.C.	Asphalt Concrete
@	At
Az.	Azimuth
B	Bk.
Bal.	Balance
b/c	Exist. Bottom Curb
BC	Bottom Curb
B	Baseline
Bm.	Beam
Brg., Brgs.	Bearing, Bearings
B.V.C.	Beginning Of Vertical Curve
Bet.	Between
B.F.	Both Faces
B.F.E.	Bottom Footing Elevation
Blt.	Bolt
B.W.	Bothways
b/w	Exist. Bottom Wall
BW	Bottom Wall
Bot.	Exist. Bottom
B., Bot., Bott.	Bottom
Br.	Bridge
C	Cant.
C.I.P.	Cast In Place
C.I.P.	Cast Iron Pipe
C	Centerline
C.C.	Center To Center
Cl., Clr.	Class, Clearance
C.C.	Compound Curve
Col.	Column
conc.	Exist. Concrete
Conc.	Concrete
Conn.	Connection
Const.	Construction
C.J.	Construction Joint
Cont.	Continuous
c/m	Exist. Concrete Rubble Masonry
CRM	Concrete Rubble Masonry
C.F.	Cubic Feet
C.Y.	Cubic Yard
D	Det.
Dia., O, D	Diameter
Dim.	Dimension
Dist.	Distance
Dwls.	Dowels
d	Exist. Diamter or Drain
D	Drain
D.I.	Drain Inlet
Dwg., Dwgs.	Drawing, Drawings
dwy.	Exist. Driveway
Dwy.	Driveway
E	Ea.
E.F.	Each Face
E.F.H.	Each Face Horizontal
E.F.V.	Each Face Vertical
E.W.	Each Way
e.p.	Exist. Edge Of Pavement
E.P.	Edge Of Pavement
E	East
e/elec.	Exist. Electric
E/Elec., Elec.	Electrical
elev./el.	Exist. Elevation
El., Elev.	Elevation
Emb.	Embankment

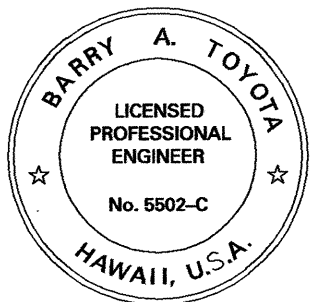
Abbr.	Description
E	e.s.
E.S.	Edge of Shoulder
E.V.C.	End Of Vertical Curve
Eq.	Equal
Est.	Estimated
Exc.	Excavation
Excl.	Excluding
Exist.	Existing
Exp., (E)	Expansion
Ext.	Exterior
F.F.	Far Face
F'c	Specified Concrete Strength
F'cl	Strength Of Concrete At Time Of Initial Prestress
Ft.	Feet, Foot
Fig.	Figure
Fin. Gr.	Finished Grade
Fin.	Finish
f.h.	Exist. Fire Hydrant
F.H.	Fire Hydrant
(F)	Fixed
Ftg.	Footing
F.A.	Force Account
F.F.	Front Face
G	Ga.
Galv.	Gauge, Gage
Gir., G	Galvanized
Gr.	Girder
gnd.	Grade
Gnd., Grd.	Exist. Ground
GRP	Ground
g-p	Grouted Rubble Paving
G.P.	Exist. Guard Post/Guy Pole/Gate Post
g.w.	Guard Post/Guy
G.W.	Exist. Guy Wire
H	h
H., Ht.	Exist. Height
HS	Height
Hwy.	High Strength
(H)	Highway
Horiz.	Hinge
h.b.	Horizontal
H.B.	Exist. Hose Bib
I	I.B.
In.	Inbound
I.D.	Inch
I.F.	Inside Diameter
Int.	Inside Face
inv.	Interior
Inv.	Exist. Invert
Jt.	Invert
Jt.	Joint
K	K
Kft.	Kips
K.S.I.	Kip Foot
L	Kips Per Square Inch
l.p.	Exist. Lamp Pole
L.P.	Lamp Post
Lt.	Left
L	Length
Ltg. Std.	Lighting Standard
L.F., Lin. Ft.	Linear Feet
Longit.	Longitudinal
L.S.	Lump Sum
LBS., lb., lbs.	Pound, Pounds

Abbr.	Description
M	m/h
MH	Exist. Manhole
mb	Manhole
MB	Existing Mailbox
Max.	Mailbox
Mech.	Maximum
Min.	Mechanical
Misc.	Minimum
MPH	Miscellaneous
N	Miles Per Hour
N.F.	Near Face
N	North
N.B.	Northbound
N.I.C.	Not In Contract
N.T.S.	Not To Scale
No., Nos., #	Number, Numbers
O/S	Offset
O.C.	On Center
Opn'g.	Opening
O.B.	Outbound
O.D.	Outside Diameter
O.G.	Outside Girder
o/h	Exist. Overhead
O/H	Overhead
P	pav't.
Pav't, Pvm.	Exist. Pavement
Perf.	Pavement
Pl	Perforated
P.C.	Plate
P.C.C.	Point Of Curvature
P.C.F.	Portland Cement Concrete
P.S.F.	Pounds Per Cubic Foot
P.S.I.	Pounds Per Square Foot
P.L.F.	Pounds Per Square Inch
P.I.	Pounds Per Linear Foot
P.I.V.C.	Point Of Intersection Of Tangents
P.T.	Point Of Intersection Of Vertical
Pt., Pts.	Point Of Tangency
P.R.C.	Point, Points
PVC	Point Of Reverse Curvature
Lb., Lbs.	Polyvinyl Chloride
Prest.	Pound, Pounds
Pg- ()	Prestressed
P/S	Prestressed Girder - (Type)
PB	Prestressed Strands
R	Pull Box
R	Radius
R.F.	Rear Face
Ref.	Reference
Reinf.	Reinforcement
Req'd.	Required
Ret.	Retaining
RWLOL	Retaining Wall Layout Line
Rt.	Right
r/w	Exist. Right of Way
R/W	Right of Way
Rdwy	Roadway
S	Sect.
S	Exist. Sewer or Spread
S	Sewer
smh	Exist. Sewer Manhole
SMH	Sewer Manhole
Sht.	Sheet
Shldr.	Shoulder
S	South
S.B.	Southbound
Sp., Sp.	Spaces
Spd.	Spaced
Spog.	Spacing

Abbr.	Description
S	Spec.
S	Spread
S.F.	Square Feet
S.Y.	Square Yard
S.S.	Stainless Steel
Std.	Standard
Sta.	Station
Stiff.	Stiffener
Stirr.	Stirrup
Str.	Straight
sdmh	Exist. Storm Drain Manhole
SDMH	Storm Drain Manhole
Struct.	Structural
s.l.	Exist. Street Light
S.L.	Street Light
s.l.b.	Exist. Street Light Box
S.L.B.	Street Light Box
S.E.	Superelevation
Symm.	Symmetrical
I	TS
Tan.	Structural Tubing
Temp.	Tangent
Thk.	Temporary
T	Thick
T+B	Top
T.O.D.	Top And Bottom
tc	Top Of Deck
TC	Exist. Top Curb
tdc	Top Curb
TDC	Exist. Top Drop Curb
tp	Top Drop Curb
TP	Exist. Top Pipe
txc	Top Pipe
TRC	Exist. Top Rolled Curb
ts	Top Rolled Curb
TS	Exist. Top Stem
tv	Top Stem
TV	Exist. Top Valve
tw	Top Valve
TW	Exist. Top Wall
Tot.	Top Wall
Transv.	Total
Typ.	Transverse
U	Typical
u.p.	Exist. Utility Pole
U.P.	Utility Pole
u.p./s.l.	Exist. Utility Pole w/ Street Light
U.P./S.L.	Utility Pole w/ Street Light

Abbr.	Description
V	var.
Var.	Varies
Vert.	Vertical
V.C.	Vertical Curve
W	Exist. Water
w	Water
W	West
w/m	Exist. Water Meter
WM	Water Meter
w/mh	Exist. Water Manhole
WMH	Water Manhole
w/v	Exist. Water Valve Box
WV	Water Valve Box
W.W.F.	Welded Wire Fabric
W.W.	Wing Wall
w/	With
W.P.	Work Point
Y	Yr.
Yr.	Year

DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
N.	_____



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Barry A. Tolson*
April 30, 2004
Expiration Date of the License

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ABBREVIATIONS	
KAMEHAMEHA V HIGHWAY EMERGENCY REPLACEMENT OF KAWAIKAPU BRIDGE FEDERAL AID PROJECT NO. ER-12(4)	
Scale: None	Date: November 25, 2002