## SYMBOLS AND ABBREVIATIONS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
HAWAII	HAW.	19K-01-20M	2020	3	22	

<b>\$</b>	And At	Demo Det.	Demolish, Demolition Detail	H (H)	Height Hinge	P(e)	Effective or Working Prestressing Force	Stirr. Str.	Stirrup Straight
Ø	Diameter	Dia.	Diameter	Horiz.	Horizontal	PP	Precast Plank	Struct.	Structure
#	Number, Pound	Dim.	Dimension	HS	High strength	Perf.	Perforated	SE	Super Elevation
		Dist.	Distance	HSS	Hollow Structural Section	PL	Plate	Symm.	Symmetrical
		DO	Ditto	HECO	Hawaiian Electric Company	PCC	Portland Cement Concrete		
Abut.	Abutment	Dwls.	Dowels	HTL	High Tide Line	PC	Point of Curvature	_	
Abbr.	Abbreviation	Dn.	Down	ID Inhad	Inhaund	PCF	Pounds per Cubic Foot	Tan.	Tangent
Add.	Additional, Added	DЫ. DI	Double Drain Inlet, Ductile Iron	IB, Inbnd.	Inbound Inch	PSF PSI	Pounds per Square Foot	Temp. Thk.	Temporary Thick
Alt. AB	Alternate Anchor Bolt	Dwg., Dwgs.	Drawing, Drawings	In. ID	Incii Inside Diameter	PLF	Pounds per Square Inch Pounds per Linear Foot	T	Top
AC	Asphaltic Concrete	DS DN go.	Drilled Shaft	ĬF	Inside Face	PI	Point of Intersection	T <b></b> ₽B	Top and Bottom
Approx.	Approximate			Int.	Interior		of Tangents	TOD	Top of Deck
Az.	Azimuth			Inv.	Invert	PIVC	Point of Intersection of	TFE	Top of Footing Elevation
		EA, Ea., ea.	Each				Vertical Curve	TOW	Top of Wall
DI	Dools	EF EFH	Each Face Each Face Horizontal	1+	laint	PT	Point of Tangency,	Tot.	Total
Bk. Bal.	Back Balance	EFV	Each Face Vertical	Jt.	Joint	Pt., Pts.	Post Tensioned Point, Points	Transv. TS	Transverse Structural Tubing
Bai.	Baseline	EW	Each Way			PRC	Point of Reverse Curvature	Typ.	Typical
Bm.	Beam	EP	Edge of Pavement	K	Kips	PVC	Polyvinyl Chloride	. ) [	, , , , , , , , , , , , , , , , , , , ,
Brg., Brgs.	Bearing, Bearings	EPS	Expanded Polystyrene	KF	Kİp Foot	Prestr.	Prestressed		
BVC	Beginning of Vertical Curve	E	East	KSF	Kips Per Square Foot	P/S	Prestressed Strands	Undergrd.	Underground
BMP	Best Management Practices	Elec.	Electrical	KSI	Kips Per Square Inch	PB	Pull Box	UNO	Unless Noted Otherwise
Bet. BF	Between	EMH El., Elev.	Electrical Manhole Elevation	KLF	Kips Per Linear Foot				
BW	Both Faces, Back Face Both Ways	Emb.	Embankment			Q	Flow Rate	Var.	Varies
BFE	Bottom of Footing Elevation	Embed.	Embedded, Embedment	L	Length	4	7 7017 7 1010	Vert., V	Vertical
Bot., Bott., B	Bottom	EVC	End of Vértical Curve	Ib., Ibs., LBS.				VC	Vertical Curve
Br.	Bridge	Eq.	Equal	Ltg. Std.	Lighting Standard	Rad., R	Radius	VSM	Variable Message Sign
BIt.	Bolt	Est.	Estimated	LF	Linear Feet/Foot	RF Dahar	Rear Face		
		Exc.	Excavation	Lin. Ft.	Linear Feet/Foot	Rebar Ref.	Reinforcing Bar Reference	W//C	Water/Coment Patie
Cant.	Cantilever	Excl. Exist., Ex.	Excluding Existing	LS Longit.	Lump Sum Longitudinal	Reinf.	Reinforced, Reinforcing,	W/C w/	Water/Cement Ratio With
C.B.	Catch Basin	Exp., (E)	Expansion	Longin.	Longituatriai	710777.	Reinforcement	W	West
CIP	Cast-in-Place	ΕĴ	Expansion Joint			Req'd.	Required	WWR	Welded Wire Reinforcing
<u>C</u>	Centerline	Ext.	Exterior	M	Modified	Ret.	Retaining	WW	Wing Wall
CG	Center of Gravity of Strands			MH	Manhole	ROW	Right of Way	WP	Work Point, Working Point
cgs cc	Center to Gravity of Strands Center to Center			Max.	Maximum	Rdwy.	Roadway	WS	Water Surface
CI.	Class	FF	Far Face. Front Face	Mech.	Mechanical				
CIr.	Clearance	F'c	Specified Strength	Min.	Minimum	Sch.	Schedule	Yr.	Year
Col.	Column		of Concrete	Misc.	Miscellaneous	Sect.	Section	,,,	7 047
Conc.	Concrete	F'ci	Strength of Concrete at	MPH	Miles Per Hour	SDMH	Sewer Drain Manhole		
Conn.	Connection	<b>-</b>	Time of Initial Prestress			Sht.	Sheet		
Const. CFCW	Construction Continuous Flashing	Ft.	Feet, Foot	ME	Noor Food	SRA SI.	Shrinkage Reducing Admixture		
0/ 0//	Compound Waterproofing	Fig. Fin. Gr.	Figure Finish Grade	NF	Near Face North	51.	Slope South		
CJ	Control Joint	(F)	Fixed	NIC	Not in Contract	Spc	Spacing		
Const. Jt.	Construction Joint	FB	Flat Bar	No.	Number	Spc Sprd.	Spread		
CLSM	Controlled Low Strength	Ftg.	Footing	NTS	Not to Scale	Spec. SF	Specification		
Cont	Material Continuous	FA	Force Account				Square Feet		
Cont. CF	Continuous Cubic Feet					SY SS SSTI	Square Yard		
CY, Cu. Yd.	Cubic Yard			0/5	Offset	SS. SSTL Std.	Stainless Steel Standard		
CSL	Crosshole Sonic Logging	Ga.	Gage, Gauge	0/ S	On Center	Sta.	Station		
UJL	Crossitule Suite Logging	Galv.	Galvanized	Opn'g	Opening	Stagg.	Staggered K. Fu		STATE OF HAWAII
		GDI	Grated Drain Inlet	OB, Outbnd.	Outbound	Stiff.	Stiffener	独	DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
		GFRP	Glass Fiber Reinforced Polymer	OD	Outside Diameter		PROFESSION ENGINEER	IAL X	
		Gr.	Grade	OM	Object Marker		NO. 8104-	s/./ S	SYMBOLS AND ABBREVIATI
		Grd. GRP	Ground Grouted Rubble Pavement				THAII. U	(3)	
		T 7 A					THIS WORK WAS PREPARED BY	ME OR UNDER MY	HAWAII BELT ROAD

HAWAII BELT ROAD
Wailuku Stream Bridge Spall Repairs, MP 2.74
Project No. 19K-01-20M Date: Oct. 1, 2019

Scale: None

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

SHEET No. 7-3 OF 3 SHEETS