

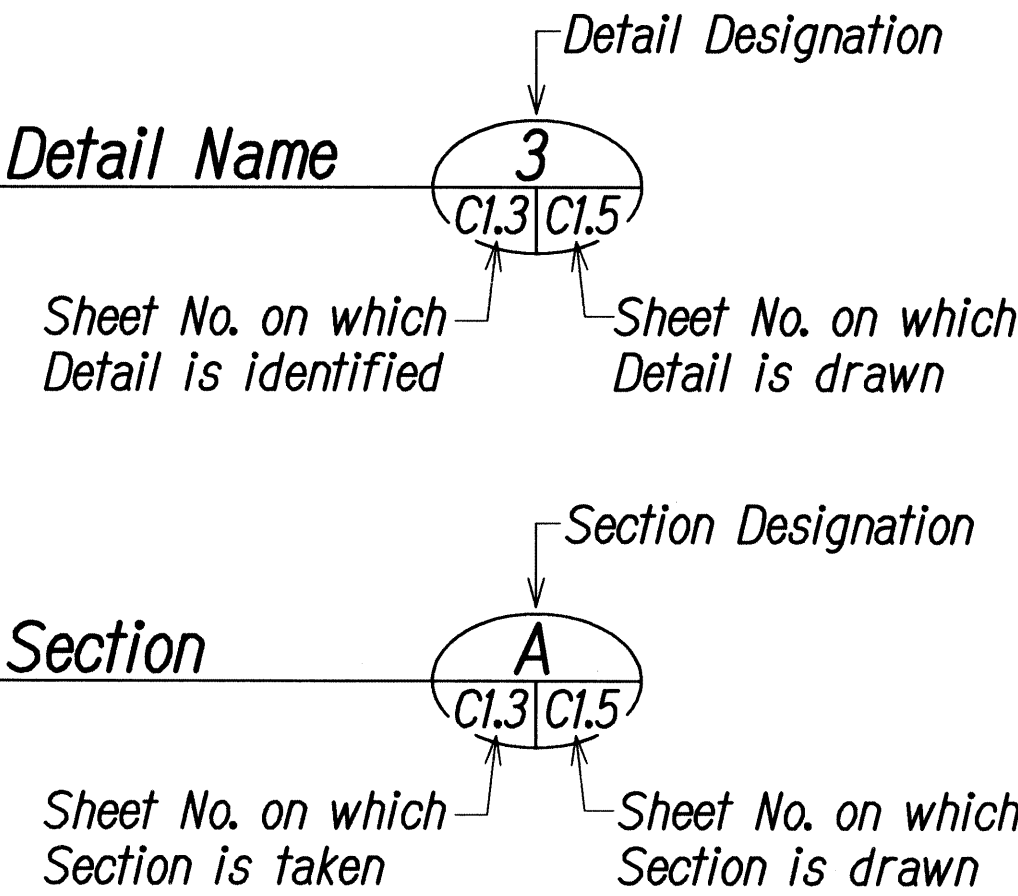
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(125)	2011	5	55

LEGEND

	Existing Overhead Utility Line
	Existing Power Pole
	Existing 8" Water Line
	Existing Water Manhole
	Existing Water Valve Box
	Existing Street Monument
	Existing Drain Line
	Existing Underdrain Line
	Existing Drain Manhole
	Existing Drop Intake
	Existing Catch Basin
	Existing Traffic Sign
	Existing Light Standard
	Existing Fire Hydrant
	Existing Tree
	Existing Contour, Elev.=175-ft.
	Finish Contour, Elev.=180-ft.
	Existing Grouted Rubble Paving
	New Erosion Control Mating
	New Pavement Areas

ABBREVIATIONS:

AC	Asphalt Concrete	EQUIV.	Equivalent	PRVC	Point of Reverse Vertical Curvature
ADA	Americans with Disabilities Act	ES	Edge of Shoulder	PVGC	Point of Vertical Grade Change
ADAAG	Americans with Disabilities Act Accessibility Guidelines	ESMT	Easement	RCP	Reinforced Concrete Pipe
ARV	Air Relief Valve	EVC	End Vertical Curve	R/W	Right-Of-Way
℄, B.L.	Baseline	EXIST	Existing	RT.	Right
BB	Bottom of Bank	FH	Fire Hydrant	SCF	Sediment Control Filter
BC	Bottom of Curb	FRP	Fiberglass Reinforced Plastic	S.E.	Superelevation
BPU	Backflow Prevention Unit	FT.	Foot, Feet	SHLDR.	Shoulder
BVC	Begin Vertical Curve	GA	Guy Anchor	SHT	Sheet
BW	Bottom of Wall	GALV.	Galvanized	SL	Slope
BWE	Bottom of Wall Elevation	GAP	Guy Anchor Pole	S.L.	Street Light
CATV	Cable Television	G.C.	Grade Control	SLB	Street Light Box
CB	Catch Basin	GDI	Grated Drop Inlet	SLP	Street Light Pole
C & C	City and County of Honolulu	GRD	Ground	SMH	Sewer Manhole
℄, C.L.	Centerline	GRP	Grouted Rubble Paving	SRAP	Spiral Rib Aluminum Pipe
CLF	Chain Link Fence	GUT	Gutter	SSB	South Stream Bank
CMP	Corrugated Metal Pipe	HDPE	High Density Polyethylene	STA.	Station
CNR	Corner	HDWL	Headwall	STD.	Standard
CO	Cleanout	HMA	Hot Mix Asphalt	S/W	Sidewalk
CONC	Concrete	HT	Hawaiian Telcom	SWL	Solid White Pavement Stripe
CRM	Cement Rubble Masonry	HWY	Highway	SYL	Solid Yellow Pavement Stripe
CULV	Culvert	INV.	Invert	TB	Top of Bank
D/W	Driveway	LT.	Left	TC	Top of Curb
DET.	Detail	Maint.	Maintenance	TFE	Top of Footing Elevation
D.I.	Ductile Iron	M.B.	Mail Box	T & G	Tongue and Groove
D.L.	Drain Line	N.T.S.	Not To Scale	TW	Top of Wall
DMH	Drain Manhole	NSB	North Stream Bank	TWE	Top of Wall Elevation
DSYL	Double Solid Yellow Pavement Stripe	O/S	Offset	V.C.	Vertical Curve
DWL	Dashed White Pavement Stripe	PAVT	Pavement	W.L.	Water Line
ECM	Erosion Control Matting	PIVC	Point of Intersection on Vertical Curve	WM	Water Meter
EP	Edge of Pavement	POC	Point on Curve	WMH	Water Manhole
EQN.	Equation			WWF	Welded Wire Fabric
				WV	Water Valve



TYPICAL DETAIL CALL-OFF:
"See Detail 2/C1.3" means
to refer to Detail No. 2,
found on Sheet C1.3



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Russell M. Arai
P.E., Inc.
dba PARK ENGINEERING
APRIL 30, 2012
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LEGEND & ABBREVIATIONS

CASTLE HILLS ACCESS ROAD
Drainage Improvements, Phase 2
FEDERAL-AID PROJECT NO. STP-0300(125)

Scale: As Shown Date: December 2011

SHEET No. 1 OF 1 SHEETS