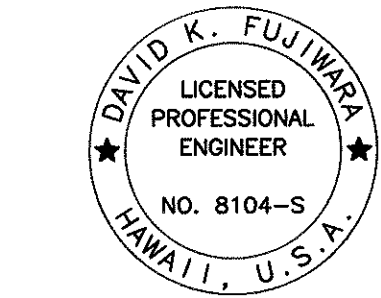


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ORIGINAL PLAN	DATE	SURVEY PLOTTED BY
		DRAWN BY
		TRACED BY
		CHECKED BY
NOTE BOOK	No.	QUANTITIES BY
		CHECKED BY

ESTIMATED QUANTITIES			
ITEM NO.	ITEM	QUANTITY	UNIT
202.0101	Demolition and Removal of Portion of Existing Basin Spillway Culvert and Headwall	LS	LS
202.0102	Demolition and Removal of Existing Drain Inlets Over Box Culverts	LS	LS
206A.5051	Structure Excavation for Light Pole Pile Cap and Pedestal	4 2 110	2 CY
206B.6001	Structure Excavation for East-West Collector Road Culvert	4 2 860	2 CY
206B.6002	Structure Excavation for Drain Culvert C	2 12,100	2 CY
206B.6003	Structure Excavation for Basin Spillway Culvert	4 2 1,550	2 CY
206B.6011	Structure Excavation for Drain Culvert C Inlet Structure	4 2 240	2 CY
206B.6012	Structure Excavation for Drain Culvert C Outlet Structure	4 2 500	2 CY
206B.6013	Structure Excavation for Basin Spillway Culvert Inlet Structure	4 2 490	2 CY
2 206B.6014	Structure Excavation for Basin Spillway Culvert Outlet Structure	4 2 510	2 CY
	206B.6021	Structure Excavation for Drainline "R2" Outlet Structure	4 2 75 2 CY
	206B.6022	Structure Excavation for Drainline "R3" Outlet Structure	4 2 190 2 CY
	206B.6023	Structure Excavation for Drainline "F" Outlet Structure	4 2 100 2 CY
	206B.6024	Structure Excavation for Drainline "R4" Outlet Structure	4 2 200 2 CY
2 206B.6041	Structure Excavation for Wingwalls at Palehua Road Access	4 2 250	2 CY
2 206B.7011	Structure Backfill for Drain Culvert C (Inlet Structure)	2 100	2 CY
2 206B.7013	Structure Backfill for Basin Spillway Culvert (Inlet Structure)	4 2 460	2 CY
2 206B.7041	Structure Backfill for Wingwalls at Palehua Road Access	4 2 200	2 CY
2 206B.8001	Filter Material	2 LS	2 LS
	503.1051	Concrete for Light Pole Pile Cap and Pedestal	LS LS
	503.2001	Concrete for East-West Collector Road Culvert	LS LS
	503.2002	Concrete for Drain Culvert C	LS LS
	503.2003	Concrete for Basin Spillway Culvert	LS LS
	503.2011	Concrete for Drain Culvert C Inlet Structure	LS LS
	503.2012	Concrete for Drain Culvert C Outlet Structure	LS LS
	503.2013	Concrete for Basin Spillway Culvert Inlet Structure	LS LS
	503.2014	Concrete for Basin Spillway Culvert Outlet Structure	LS LS
	503.2021	Concrete for Drainline "R2" Outlet Structure	LS LS
	503.2022	Concrete for Drainline "R3" Outlet Structure	LS LS
	503.2023	Concrete for Drainline "F" Outlet Structure	LS LS
	503.2024	Concrete for Drainline "R4" Outlet Structure	LS LS
2 503.2041	Concrete for Wingwalls at Palehua Road Access	LS LS	
2 503.2051	Concrete for Spillway Access Road	LS LS	

ESTIMATED QUANTITIES			
ITEM NO.	ITEM	QUANTITY	UNIT
511.0010	Furnishing Drilled Shaft Equipment	LS	LS
2 511.0200	Obstructions	40	Hours
2 511.0500	Unclassified Shaft Excavation (18-Inch Diameter)	4 204	LF
2 511.0501	Unclassified Shaft Excavation (30-Inch Diameter)	4 1,069	LF
	511.0510	Unclassified Shaft Excavation (36-Inch Diameter)	156 LF
2 511.0600	Drilled Shaft (18-Inch Diameter)	4 204	LF
2 511.0601	Drilled Shaft (30-Inch Diameter)	4 1,069	LF
	511.0610	Drilled Shaft (36-Inch Diameter)	158 LF
	530.0101	Segmental Retaining Wall No. 1	LS LS
	530.0102	Segmental Retaining Wall No. 2	LS LS
	530.0103	Segmental Retaining Wall No. 3	LS LS
	530.0104	Segmental Retaining Wall No. 4	LS LS
	602.1051	Reinforcing Steel for Light Pole Pile Cap and Pedestal	LS LS
	602.2001	Reinforcing Steel for East-West Collector Road Culvert	LS LS
	602.2002	Reinforcing Steel for Drain Culvert C	LS LS
	602.2003	Reinforcing Steel for Basin Spillway Culvert	LS LS
	602.2011	Reinforcing Steel for Drain Culvert C Inlet Structure	LS LS
	602.2012	Reinforcing Steel for Drain Culvert C Outlet Structure	LS LS
	602.2013	Reinforcing Steel for Basin Spillway Culvert Inlet Structure	LS LS
	602.2014	Reinforcing Steel for Basin Spillway Culvert Outlet Structure	LS LS
	602.2021	Reinforcing Steel for Drainline "R2" Outlet Structure	LS LS
	602.2022	Reinforcing Steel for Drainline "R3" Outlet Structure	LS LS
	602.2023	Reinforcing Steel for Drainline "F" Outlet Structure	LS LS
	602.2024	Reinforcing Steel for Drainline "R4" Outlet Structure	LS LS
2 602.6041	Reinforcing Steel for Wingwalls at Palehua Road Access	LS LS	
2 602.6051	Reinforcing Steel for Spillway Access Road	LS LS	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-08

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	ADD. 183	331

5/31/07	4 Revised Quantities
5/11/07	2 Revised and Added Items and Quantities
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ESTIMATED QUANTITIES	
North-South Road Phase 1B F.A.I. Proj. No. STP-8930(2)	
Scale: None	Date: Feb. 21, 2007
SHEET No. 50.5 OF 78 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	ADD. 184	331

[illegible]

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____

5/11/07	2 Revised and Added Items and Quantities
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ESTIMATED QUANTITIES

North-South Road

Phase 1B

F.A.I. Proj. No. STP-8930(2)

Scale: None Date: Feb. 21, 2007

SHEET No. 50.6 OF 78 SHEETS



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

David K. Frymoria 4-30-08
SIGNATURE EXPIRATION DATE OF THE LICENSE