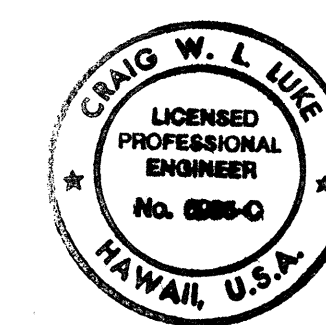


PROJECT: PIILANI HIGHWAY INTERIM WIDENING
PROJECT NO.: 31AB-01-02

		202.	206.	206.	206.	401.	503.	508.	603.	603.	604.	604.	604.	604.	604.	604.	604.	604.	604.	604.	604.	604.	642.	640.	640.	642.	642.	642.	
ITEM NO.		0410	2020	2030	7000	0400	0030	0100	0010	1010	0300	0400	0410	0420	0430	0440	0450	0460	0500	0510	0600	0610	0620	0100	0200	0300	0400	0500	0600
UNIT USED		Ea.	C.Y.	C.Y.	C.Y.	Ton	C.Y.	Ea.	C.Y.	L.F.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	
Baseline Station (From)	Baseline Station (To)	Removal of Drain Inlet	Structure Excavation for Cement Rubble Masonry Headwall	Structure Excavation for 24-Inch Drain Line	Structure Backfill for Cement Rubble Masonry Headwall	Asphalt Concrete, Mix No. IV	Concrete in Reinforced Concrete Jacket for 36-Inch Waterline (Class B)	Cement Rubble Masonry Headwall	Bed Course Material for 24-Inch Drain Line	24-Inch Drain Line	Drain Inlet Box 4 feet to 4.99 feet	Type 1 Storm Drain Manhole, 4 feet to 4.99 feet	Type 1 Storm Drain Manhole, 5 feet to 5.99 feet	Type 1 Storm Drain Manhole, 6 feet to 6.99 feet	Type 1 Storm Drain Manhole, 7 feet to 7.99 feet	Type 1 Storm Drain Manhole, 8 feet to 8.99 feet	Type 1 Storm Drain Manhole, 10 feet to 10.99 feet	Type 1 Storm Drain Manhole, 12 feet to 12.99 feet	Type A Storm Drain Manhole, 4 feet to 4.99 feet	Type A Storm Drain Manhole, 6 feet to 6.99 feet	Swale/Drain Inlet Box 3 feet to 3.99 feet	Swale/Drain Inlet Box 4 feet to 4.99 feet	Swale/Drain Inlet Box 5 feet to 5.99 feet	Grass Trapezoidal Type "A" Swale	Grass Triangular Type "B" Swale	Soil Cement Triangular Type "C" Swale	Concrete Rectangular Type "D" Swale	Concrete Triangular Type "E" Swale	Grouted Rubble Paving Triangular Type "F" Swale
Piilani Hwy 512+00	Piilani Hwy 532+00	0	0	0	0	1032	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piilani Hwy 532+00	Piilani Hwy 554+00	0	17	91	5	1085	0	1	12	123	0	1	1	0	0	1	1	0	0	0	1	0	0	180	0	0	707	0	0
Piilani Hwy 554+00	Piilani Hwy 576+00	0	0	26	0	1766	0	0	3	27	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	103	0	0
Piilani Hwy 576+00	Piilani Hwy 598+00	0	17	229	5	1852	0	1	22	238	0	0	0	0	0	0	0	0	0	1	0	0	1	50	0	0	1078	0	0
Piilani Hwy 598+00	Piilani Hwy 620+00	0	0	0	0	1658	14	0	0	0	0	0	4	2	0	0	0	1	0	0	0	0	0	430	0	0	0	0	0
Piilani Hwy 620+00	Piilani Hwy 642+00	0	0	0	0	1637	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	586	467	0	0	145
Piilani Hwy 642+00	Piilani Hwy 664+00	0	0	0	0	1775	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	248	640	0	0
Piilani Hwy 664+00	Piilani Hwy 686+00	0	0	259	0	1530	0	0	28	303	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piilani Hwy 686+00	Piilani Hwy 708+00	0	17	285	5	2044	0	1	37	391	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piilani Hwy 708+00	Piilani Hwy 729+00	0	0	0	0	1031	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piilani Hwy 729+00	Piilani Hwy 751+00	1	0	0	0	2323	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	62	0	0
Piilani Hwy 751+00	Piilani Hwy 773+00	1	0	0	0	2227	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	936	0	0	0	85
Piilani Hwy 773+00	Piilani Hwy 53+00	0	0	0	0	2831	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	476	0	0	0	0
Piilani Hwy 53+00	Piilani Hwy 75+00	1	0	0	0	2514	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0	1	0	433	0	560	95	0
Piilani Hwy 75+00	Piilani Hwy 85+00	0	0	0	0	518	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL		51	890	15	25823	14	3	102	1082	4	11	22	5	1	1	1	1	1	2	1	1	2	660	2430	715	3150	95	230

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



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

SIGNATURE  5/2

5/22/02	Revised Drainage Summary Quantities Per Addendum No. 1
DATE	REVISION

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

DRAINAGE SUMMARY

PIILANI HIGHWAY INTERIM WIDENING

Project No. 31AB-01-02

Scale: As Shown

Date: May 1, 2002

SHEET No. C-55 OF 124 SHEETS

PROJECT: PIILANI HIGHWAY INTERIM WIDENING
PROJECT NO.: 31AB-01-02

FED. ROAD DIST NO.	STATE	PROJ NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	31AB-01-02	2002	57	124

		202.	206.	206.	206.	401.	503.	508.	603.	603.	604.	604.	604.	604.	604.	604.	604.	604.	604.	604.	604.	604.	604.	642.	642.	642.	642.	642.	642.	642.	
ITEM NO.		0410	2020	2030	7000	0400	0030	0100	0010	1010	0300	0400	0410	0420	0430	0440	0450	0460	0500	0510	0600	0610	0620	0100	0200	0300	0400	0410	0500	0600	
UNIT USED		Ea.	C.Y.	C.Y.	C.Y.	Ton	C.Y.	Ea.	C.Y.	L.F.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	Ea.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	
Baseline Station (From)	Baseline Station (To)	Removal of Drain Inlet	Structure Excavation for Cement Rubble Masonry Headwall	Structure Excavation for 24-Inch Drain Line	Structure Backfill for Cement Rubble Masonry Headwall	Asphalt Concrete, Mix No. IV	Concrete in Reinforced Concrete Jacket for 36-Inch Waterline (Class B)	Cement Rubble Masonry Headwall	Bed Course Material for 24-Inch Drain Line	24-Inch Drain Line	Drain Inlet Box 4 feet to 4.99 feet	Type 1 Storm Drain Manhole, 4 feet to 4.99 feet	Type 1 Storm Drain Manhole, 5 feet to 5.99 feet	Type 1 Storm Drain Manhole, 6 feet to 6.99 feet	Type 1 Storm Drain Manhole, 7 feet to 7.99 feet	Type 1 Storm Drain Manhole, 8 feet to 8.99 feet	Type 1 Storm Drain Manhole, 10 feet to 10.99 feet	Type 1 Storm Drain Manhole, 12 feet to 12.99 feet	Type A Storm Drain Manhole, 4 feet to 4.99 feet	Type A Storm Drain Manhole, 6 feet to 6.99 feet	Swale/Drain Inlet Box 3 feet to 3.99 feet	Swale/Drain Inlet Box 4 feet to 4.99 feet	Swale/Drain Inlet Box 5 feet to 5.99 feet	Grass Trapezoidal Type "A" Swale	Grass Triangular Type "B" Swale	Soil Cement Triangular Type "C" Swale	Concrete Rectangular Type "D" Swale	Modified Concrete Rectangular Type "D" Swale	Concrete Triangular Type "E" Swale	Grouted Rubble Paving Triangular Type "F" Swale	
Piilani Hwy 512+00	Piilani Hwy 532+00	0	0	0	0	1032	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Piilani Hwy 532+00	Piilani Hwy 554+00	0	17	91	5	1085	0	1	12	123	0	1	1	0	0	1	1	0	0	0	1	0	0	180	0	0	707	0	0	0	
Piilani Hwy 554+00	Piilani Hwy 576+00	0	0	26	0	1766	0	0	3	27	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	103	0	0	0	
Piilani Hwy 576+00	Piilani Hwy 598+00	0	17	229	5	1852	0	1	22	238	0	0	0	0	0	0	0	0	0	1	0	0	1	50	0	0	1078	0	0	0	
Piilani Hwy 598+00	Piilani Hwy 620+00	0	0	0	0	1658	14	0	0	0	0	0	4	2	0	0	0	1	0	0	0	0	0	430	0	0	0	0	0	0	
Piilani Hwy 620+00	Piilani Hwy 642+00	0	0	0	0	1637	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	586	475	0	0	0	132	
Piilani Hwy 642+00	Piilani Hwy 664+00	0	0	0	0	1775	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	195	640	567	0	0	
Piilani Hwy 664+00	Piilani Hwy 686+00	0	0	259	0	1530	0	0	28	303	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Piilani Hwy 686+00	Piilani Hwy 708+00	0	17	285	5	2044	0	1	37	391	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Piilani Hwy 708+00	Piilani Hwy 729+00	0	0	0	0	1031	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	615	0	0	0	0	
Piilani Hwy 729+00	Piilani Hwy 751+00	1	0	0	0	2323	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	62	0	0	0	
Piilani Hwy 751+00	Piilani Hwy 773+00	1	0	0	0	2227	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	936	0	0	0	0	85	
Piilani Hwy 773+00	Piilani Hwy 53+00	0	0	0	0	2831	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	476	0	0	0	0	0	
Piilani Hwy 53+00	Piilani Hwy 75+00	1	0	0	0	2514	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0	1	0	433	0	560	0	95	0	
Piilani Hwy 75+00	Piilani Hwy 85+00	0	0	0	0	518	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TOTAL		51	890	15	25823	14	3	102	1082	4	11	22	5	1	1	1	1	1	1	2	1	1	2	660	2430	1285	3150	567	95	217

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

2/27/03	<i>Revised Soil Cement and Grouted Rubble Paving Quantities and Added Modified Swale Quantities</i>
2/14/03	<i>Revised Soil Cement Quantities</i>
DATE	REVISION

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

SIGNATURE _____ DATE _____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE SUMMARY

PIILANI HIGHWAY INTERIM WIDENING
Project No. 31AB-01-02

Scale: As Shown Date: May 1, 2002

SHEET No. C-55 OF 124 SHEETS