

The quantities and locations shown heron are approximate and are subject to field adjustment. Do not order additional materials until actual quantities are approved in the field by the Contracting Officer.

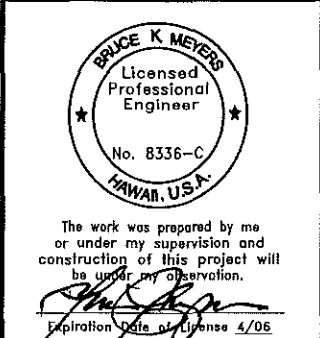
SURFACING SUMMARY (Sheet 1 of 3)

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200(1)	C11	C23

MAINLINE SURFACING															
Item Number			30104E	30106GF	40106ABBL			40103PGDB	40105C	40206	40501E			40504C	40505PGDB
Station			Subbase, Grading E (Contractor Furnished) (ton)	Subbase, Government Furnished* (cubic yard)	Pavement Area (square feet)	Volume (cubic feet)	Superpave Asphalt Concrete Pavement, 1/2-Inch Nominal Maximum Size Aggregate (ton) (2-inch thick)	Asphalt Cement Grade PG 64-16 (ton)	Antistrip Additive, Type 3 (ton)	Minor Hot Asphalt Concrete for Temporary Pavement (ton)	Pavement Area (square feet)	Volume (cubic feet)	Hot Asphalt Treated Base Course, Grading E (ton) (7-inch thick)	Antistrip Additive, Type 3 (ton)	Asphalt Binder, Grade PG 64-16 (ton)
340+50	to	351+00		812											
T.S.0+00	to	T.S.10+00		927	49383	8230				617.3					
360+00	to	400+00		488	178647	29775	2233.1	149.6	22.3		179210	104539	7840.4	78.4	525.3
400+00	to	450+00		2736	199002	33167	2487.5	166.7	24.9		199002	116085	8706.3	87.1	583.3
450+00	to	500+00			199358	33226	2492.0	167.0	24.9		199358	116292	8721.9	87.2	584.4
500+00	to	550+00			200435	33406	2505.4	167.9	25.1		200435	116920	8769.0	87.7	587.5
550+00	to	600+00			200519	33420	2506.5	167.9	25.1		202919	118369	8877.7	88.8	594.8
600+00	to	630+00			127500	21250	1593.8	106.8	15.9		129750	75688	5676.6	56.8	380.3
630+00	to	655+00			101250	16875	1265.6	84.8	12.7		103125	60156	4511.7	45.1	302.3
655+00	to	694+00		2384	186647	31108	2333.1	156.3	23.3		189572	110584	8293.8	82.9	555.7
694+00	to	717+00		1516	119013	19836	1487.7	99.7	14.9		120738	70431	5282.3	52.8	353.9
717+00	to	750+00		1711	133073	22179	1663.4	111.4	16.6		135548	79070	5930.2	59.3	397.3
750+00	to	800+00		2600	202260	33710	2528.3	169.4	25.3		206010	120173	9012.9	90.1	603.9
800+00	to	850+00		2658	207010	34502	2587.6	173.4	25.9		210760	122943	9220.8	92.2	617.8
850+00	to	900+00	6261		262157	43693	3277.0	219.6	32.8		265907	155112	11633.4	116.3	779.4
900+00	to	950+00	6312		264370	44062	3304.6	221.4	33.0		268120	156403	11730.3	117.3	785.9
950+00	to	1000+00	6258		262033	43672	3275.4	219.5	32.8		265783	155040	11628.0	116.3	779.1
1000+00	to	1050+00	6285		263199	43867	3290.0	220.4	32.9		266949	155720	11679.0	116.8	782.5
1050+00	to	1100+00	6260		262115	43686	3276.4	219.5	32.8		265865	155088	11631.6	116.3	779.3
1100+00	to	1160+00	7627		319506	53251	3993.8	267.6	39.9		324006	189004	14175.3	141.8	949.7
1160+00	to	1165+00	724		20521	3420				256.5					
FIREBREAK															
360+00	to	375+00		247	11436	1906	143.0	9.6	1.4						
375+00	to	568+00		6630	306897	51150	3836.2	257.0	38.4						
TOTAL			39729	22710	4076331	679388	50080	3355.4	500.8	873.8	3733057	2177616	163321.2	1633.2	10942.5
OPTION O										* Subbase quantity from 400+00 to 450+00 is an estimation of material needed for 1 mile of subbase reconstruction.					
360+00	to	694+00	3685		1388908	231485	17361.4	1163.2	173.6						
694+00	to	1165+00			2279203	379867	28490.0	1908.8	284.9						
OPTION O TOTAL			3685	0	3668111	611352	45851	3072.0	458.5						

* Subbase quantity from 400+00 to 450+00 is an estimation of material needed for 1 mile of subbase reconstruction.

Value used for estimating purposes:	
Asphalt Concrete Base Course & Pavement	150.0 lbs/ft ³
Subbase	138.9 lbs/ft ³
Asphalt Cement PG 64-16	6.7%



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											HI	HI A-AD/STP 6(3) & 200(1)	C12	C23
SURFACING SUMMARY (Sheet 2 of 3)														
APPROACH ROAD SURFACING														
Item Number	30104E	30106GF	40106ABBL			40103PGDB	40105C	40501E			40504C	40505PGDB		
Station	Subbase, Grading E (Contractor Furnished) (ton)	Subbase, Government Furnished (cubic yard)	Pavement Area (square feet)	Volume (cubic feet)	Superpave Asphalt Concrete Pavement, 1/2-Inch Nominal Maximum Size Aggregate (ton) (2-inch thick)	Asphalt Cement Grade PG 64-16 (ton)	Antistrip Additive, Type 3 (ton)	Pavement Area (square feet)	Volume (cubic feet)	Hot Asphalt Treated Base Course, Grading E (ton) (7-inch thick)	Antistrip Additive, Type 3 (ton)	Asphalt Binder, Grade PG 64-16 (ton)		
Mauna Kea State Park Access		178	13895	2316	173.7	11.6	1.7	14119	8236	617.7	6.2	41.4		
Hunting Access "A"		35	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Hunting Access "B"		26	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Fire Access No. 8		31	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Fire Access No. 9		27	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Hunting Access "C"		26	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Fire Access No. 10		28	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Hunting Access "D"		26	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Fire Access No. 11		30	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Hunting Access "E1"		31	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Hunting Access "E2"		31	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Fire Access No. 12		23	599	100	7.5	0.5	0.1	610	356	26.7	0.3	1.8		
Connector Road 3		66	5094	849	63.7	4.3	0.6	5199	3033	227.5	2.3	15.2		
Mauna Kea Access		149	11620	1937	145.2	9.7	1.5	11812	6890	516.8	5.2	34.6		
Pu'u Huluhulu Access & Parking		298	4582	764	57.3	3.8	0.6	4636	2704	202.8	2.0	13.6		
Mauna Loa Access		75	5860	977	73.3	4.9	0.7	5956	3474	260.6	2.6	17.5		
DHHL Access No. 1		35	1576	263	19.7	1.3	0.2	1606	937	70.3	0.7	4.7		
DHHL Access No. 2		65	2030	338	25.4	1.7	0.3	2071	1208	90.6	0.9	6.1		
Kipuka Ainahou Access No.1		45	1346	224	16.8	1.1	0.2	1387	809	60.7	0.6	4.1		
DOFAW Field Access No. 1		22	805	134	10.1	0.7	0.1	826	482	36.1	0.4	2.4		
DOFAW Field Access No. 2		28	802	134	10.0	0.7	0.1	823	480	36.0	0.4	2.4		
Hunting Access		39	1014	169	12.7	0.8	0.1	1043	608	45.6	0.5	3.1		
Kipuka Ainahou Access No.2	38.3		600	100	7.5	0.5	0.1	614	358	26.8	0.3	1.8		
HELCO Access No. 1 & Hunting Access	56.8		705	117	8.8	0.6	0.1	722	421	31.6	0.3	2.1		
Pu'u O'o Ranch Access	91.1		764	127	9.6	0.6	0.1	784	457	34.3	0.3	2.3		
Pu'u O'o Trail Access	46.0		600	100	7.5	0.5	0.1	614	358	26.8	0.3	1.8		
Saddle House Access	55.6		658	110	8.2	0.6	0.1	673	393	29.5	0.3	2.0		
Kulani Powerline Access	96.6		704	117	8.8	0.6	0.1	721	420	31.5	0.3	2.1		
Kipuka 21 Access	145.5		6012	1002	75.2	5.0	0.8	6135	3579	268.4	2.7	18.0		
HELCO Access No. 2	39.3		663	110	8.3	0.6	0.1	678	396	29.7	0.3	2.0		
HELCO Access No. 3 / DOFAW	48.9		764	127	9.6	0.6	0.1	784	457	34.3	0.3	2.3		
TOTAL	618.0	1313	66674	11112	833	55.8	8.3	67907	39612	2970.9	29.7	199.1		
OPTION O														
360+00 to 694+00			41463	6911	518.3	34.7	5.2							
694+00 to 1165+00			24663	4110	308.3	20.7	3.1							
OPTION O TOTAL			66126	11021	827	55	8							
Value used for estimating purposes:														
Asphalt Concrete Base & Pave										150.0 lbs/ft ³				
Subbase										138.9 lbs/ft ³				
Asphalt Cement PG 64-16										6.7%				
													BRUCE K MEYERS Licensed Professional Engineer No. 8336-C HAWAII, U.S.A. The work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of License 4/06	

C12

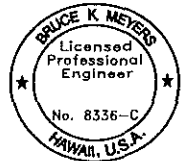
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SURFACING SUMMARY (Sheet 3 of 3)

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200(1)	C13	C23

MAINLINE COATS / SEAL												
Item Number			40908BA			41101CM			41103	41201CM		
Station			Fog Seal Grade CSS-1, CSS-1h, SS-1, or SS-1h (ton)			Prime Coat Grade CSS-1, CSS-1h, SS-1, or SS-1h (ton)			Blotter (ton)	Tack Coat Grade CSS-1, CSS-1h, SS-1, or SS-1h (ton)		
			Coverage Area (square yard)	Volume (gallons)	Quantity (ton)	Coverage Area (square yard)	Volume (gallons)	Quantity (ton)		Coverage Area (square yard)	Volume (gallons)	Quantity (ton)
340+50	to	351+00										
T.S.0+00	to	T.S.10+00	5505	275	1.14	5543	831	3.5				
360+00	to	400+00	19836	992	4.12	19961	2994	12.4		39776	1989	8.3
400+00	to	450+00	22111	1106	4.59	22111	3317	13.8		44223	2211	9.2
450+00	to	500+00	22151	1108	4.60	22151	3323	13.8		44302	2215	9.2
500+00	to	550+00	22271	1114	4.62	22271	3341	13.9		44541	2227	9.2
550+00	to	600+00	22221	1111	4.61	22754	3413	14.2		44886	2244	9.3
600+00	to	630+00	14111	706	2.93	14611	2192	9.1		28639	1432	5.9
630+00	to	655+00	11204	560	2.32	11620	1743	7.2		22755	1138	4.7
655+00	to	694+00	20666	1033	4.29	21316	3197	13.3		41874	2094	8.7
694+00	to	717+00	13181	659	2.74	13564	2035	8.4	56.3	26682	1334	5.5
717+00	to	750+00	14725	736	3.06	15275	2291	9.5	63.4	29908	1495	6.2
750+00	to	800+00	22381	1119	4.64	23214	3482	14.5	96.3	45456	2273	9.4
800+00	to	850+00	22909	1145	4.75	23742	3561	14.8	98.5	46512	2326	9.7
850+00	to	900+00	29036	1452	6.02	29869	4480	18.6	124.0	58766	2938	12.2
900+00	to	950+00	29282	1464	6.08	30115	4517	18.7	125.0	59258	2963	12.3
950+00	to	1000+00	29022	1451	6.02	29856	4478	18.6	123.9	58739	2937	12.2
1000+00	to	1050+00	29152	1458	6.05	29985	4498	18.7	124.4	58998	2950	12.2
1050+00	to	1100+00	29031	1452	6.02	29865	4480	18.6	123.9	58757	2938	12.2
1100+00	to	1160+00	35390	1769	7.34	36390	5458	22.7	151.0	71613	3581	14.9
1160+00	to	1165+00	2289	114	0.48	2308	346	1.4	9.6			
APPROACH ROADS			0									
360+00	to	694+00	4624	231	0.96	4780	717	3.0		9378	469	1.9
694+00	to	1165+00	2753	138	0.57	2872	431	1.8	11.9	5606	280	1.2
FIREBREAK												
360+00	to	375+00	1271	64	0.26	1271	191	0.8				
375+00	to	568+00	34100	1705	7.08	34100	5115	21.2				
TOTAL			459222	22961	95.3	469543	70431	292.3	1108.3	840667	42033	174.4
OPTION O												
360+00	to	694+00								159194	7960	33.0
694+00	to	1165+00								256859	12843	53.3
OPTION O TOTAL										416054	20803	86.3

Value used for estimating purposes:	
Prime Coat (Undiluted)	0.15 gal/yd ²
Fog Seal, Prime Coat, Tack Coat, Blotter	8.3 lbs/gal
Tack Coat (Undiluted)	0.05 gal/yd ²
Fog Seal (Undiluted)	0.05 gal/yd ²



The work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date 4/06