

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

ORIGINAL PLAN	DESIGNED BY	DATE
NOTE BOOK	DRAWN BY	19
	TRACED BY	21
	QUANTITIES BY	22
	QUANTITIES CHECKED BY	22
	CHECKED BY	22

[illegible]

NOTE: All bar deformations must conform to ASTM-A305.
5-16-51

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

MOHUNA STREAM BRIDGE
STA 34+90

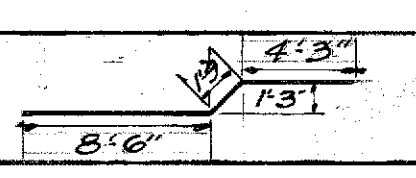
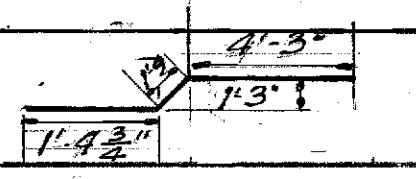
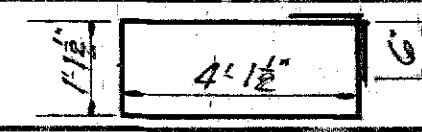
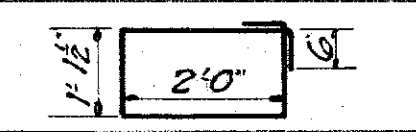
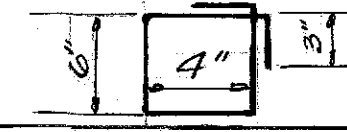
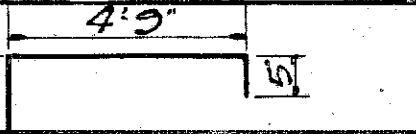
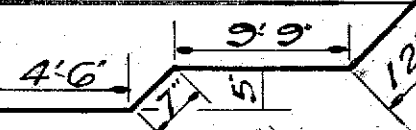
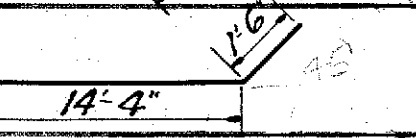
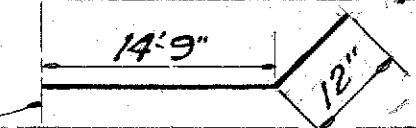
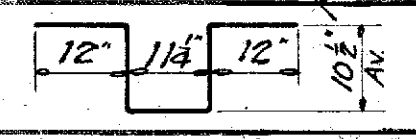
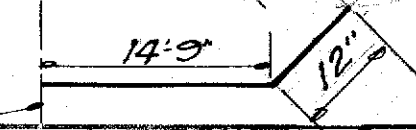
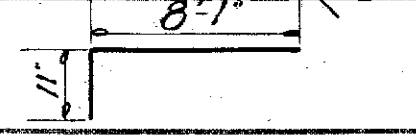
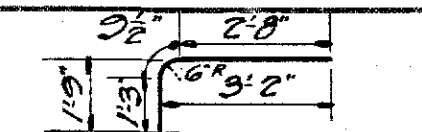
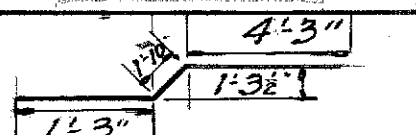
HAWAII BELT ROAD *SDR 3(11)*
November 1949

SHEET No. 1 OF 1 SHEETS

44 Checked

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID YEAR	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	SDR 3(11)	1950	1	6

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight	MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight	MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight								
450		Super-structure	1/2"	14'-6"	648	1	648	9,396.0				431	Straight	Super-structure	1/2"	21'-11"	21	2	42	980.5			677	Straight	Railing	3/4"	11'-8"	2	6	12	140.0									
451	Straight plus 2'-0" lap	"	"	73'-8"	27	1	27	1,399.1			432	"	"	"	31'-0"	15	2	30	930.0			677	"	"	"	11'-7"	2	6	12	139.0										
451	"	"	"	73'-9"	27	1	27	1,399.3						1/2"					35,063.90	660	23,422																			
451	"	"	"	79'-4"	27	1	27	2,141.9						5/8"					49,415.6	1,043	51,540																			
451	"	"	"	73'-10"	27	1	27	1,393.4						3/4"					101.5	1,502	152				3/8"				4,825.70	376	1,814									
451	"	"	"	39'-2"	27	1	27	1,057.6						1"					1,972.5	3,400	6,707				1/2"				3,944.80	668	2,635									
452		"	"	7'-4 1/2"	648	1	648	4,792.5																		5/8"				2,620.60	1,043	2,733								
453	Straight plus 2'-0" lap	"	"	65'-0"	25	1	25	1,625.0			435		End Post	1/2"	1'-6"	3	4	12	138.0														3/4"				1,452.50	1,502	2,182	
453	"	"	"	65'-1"	25	1	25	1,627.0			436	Straight	"	"	3'-9"	10	4	40	150.0																					
453	"	"	"	70'-8"	25	1	25	1,766.7			375		Railing	3/4"	3'-0"			618	1,854.0																					
453	"	"	"	65'-2"	25	1	25	1,629.3			376		Railing Post	"	3'-3 1/2"	4	124	496	1,632.7																					
453	"	"	"	30'-6"	25	1	25	762.5			476	Straight	"	1/2"	3'-0"	2	124	248	744.0																					
454		"	"	7'-3"	26	2	52	377.0			377		Railing	3/4"	2'-2"			618	1,332.0																					
455	Straight	"	"	7'-7 1/2"	44	2	88	671.0			478	Straight	"	1/2"	11'-10 1/2"	4	18	72	855.4																					
456		"	"	6'-11"	88	2	176	1,217.3			478	"	"	"	11'-7 1/2"	4	18	72	848.8																					
457	Straight	"	"	21'-11"	4	2	8	175.4			479	"	"	"	10'-8 1/2"	4	4	16	171.0																					
550		"	"	31'-8"	378	1	378	11,970.0			479	"	"	"	10'-7 1/2"	4	4	16	169.6																					
551		"	"	31'-8"	378	1	378	11,371.3			480	"	"	"	11'-8 1/2"	4	6	24	280.6																					
552		"	"	31'-6"	378	1	378	11,907.0			480	"	"	"	11'-7 1/2"	4	6	24	278.4																					
553		"	"	4'-8 1/2" Av.	800	1	800	3,752.0			481	"	"	"	12'-11"	4	3	12	155.0																					
555		"	"	31'-6"	8	5	40	1,260.0			481	"	"	"	12'-10"	4	3	12	154.0																					
556		"	"	9'-0"	53	10	530	4,770.0			575		Railing Post	5/8"	4'-8 1/2"	2	124	248	1,168.1																					
554	Straight	"	"	31'-0"	17	2	34	1,054.0			560	Straight	"	"	10'-8"	2	4	8	85.3																					
557	"	"	"	28'-6"	8	5	40	1,140.0			560	"	"	"	10'-7"	2	4	8	84.7																					
558		"	"	7'-4"	7	31	217	1,591.3			561	"	"	"	11'-10"	2	18	36	426.0																					
650	Straight	"	3/4"	2'-8"	19	2	38	101.5			561	"	"	"	11'-9"	2	18	36	423.0																					
850	"	"	1"	21'-11"	37	2	74	1,621.8			562	"	"	"	11'-8"	2	6	12	140.0																					
851	"	"	"	21'-11"	8	2	16	350.7			562	"	"	"	11'-7"	2	6	12	139.0																					
											563	"	"	"	12'-11"	2	3	6	77.5																					
											563	"	"	"	12'-10"	2	3	6	77.0																					
											675	"	"	"	10'-8"	2	4	8	85.3																					
											675	"	"	"	10'-7"	2	4	8	84.7																					
											676	"	"	"	11'-10"	2	18	36	426.0																					
											676	"	"	"	11'-9"	2	18	36	423.0																					

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

All stirrup dimensions are to ^{outside} of stirrups; all other dimensions are figured to ^{center line} of bars.

REVISED STEEL SCHEDULE

NOTE: All bar deformations must conform to ASTM-A305.

5-16-51

TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

KUKAIAU BRIDGE

Sta 23+19.04 to Sta 27+00.66

HAWAII BELT ROAD SDR 3(11)

April 1950

SHEET No. 1 OF 6 SHEETS

CONTRACTOR'S NOTE

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All stirrup dimensions are to outside of stirrups; all other dimensions are figured to centerline of bars.

REVISED STEEL SCHEDULE

NOTE: All bar deformations must conform to ASTM-A305. 5-16-51

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

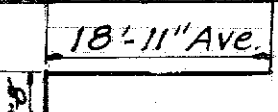
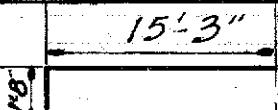
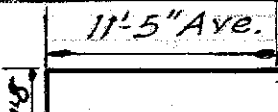
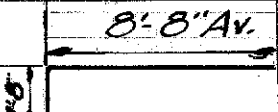
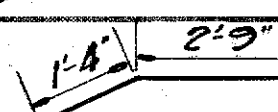
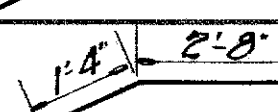
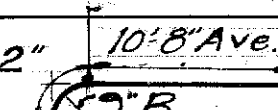
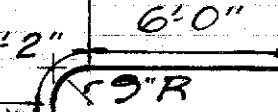
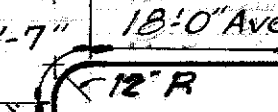
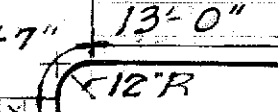
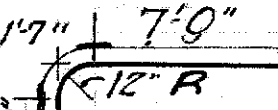
KUKAIAU BRIDGE
Sta 23+13.04 to Sta 27+00.66

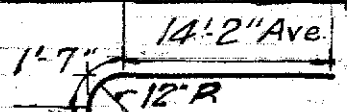
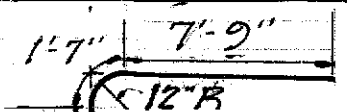
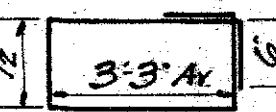
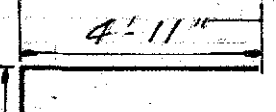
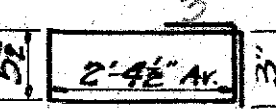
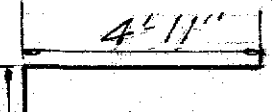
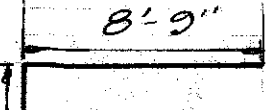
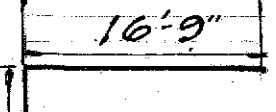
HAWAII BELT ROAD SDR 3(11)
April 1950

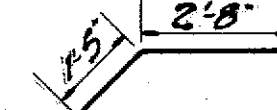
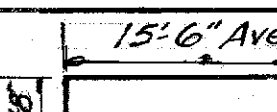
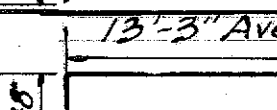
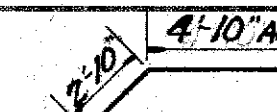
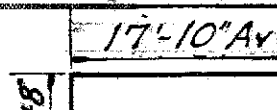
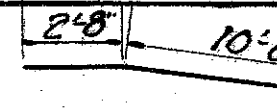
SHEET No. 1 OF 6 SHEETS

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	SDR 3(1)	1950	2	6

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
409	Straight	Abutment No 1	1/2"	10'-8"	16	1	16	170.7		
410	"	"	"	5'-2"	14	1	14	72.4		
411	"	"	"	10'-6"	11	1	11	115.5		
412	"	"	"	5'-2"	6	1	6	31.0		
413	"	"	"	7'-2"	6	1	6	43.0		
414	"	"	"	10'-8"	6	1	6	64.0		
415		"	"	20'-7"	7	1	7	144.1		
416		"	"	16'-11"	7	1	7	118.4		
417		"	"	13'-1"	7	1	7	91.6		
418		"	"	10'-4"	7	1	7	72.3		
419	Straight	"	"	39'-4"	6	1	6	236.0		
420		"	"	4'-6"	12	1	12	54.0		
421		"	"	4'-1"	12	1	12	49.0		
422		"	"	4'-5"	17	1	17	75.1		
423		"	"	4'-0"	17	1	17	68.0		
424	Straight	"	"	5'-8"	20	1	20	113.4		
540	"	"	3/4"	4'-7"	8	1	8	36.7		
541	"	"	"	6'-0"	8	1	8	48.0		
600		"	3/4"	13'-7"	7	1	7	95.1		
650	Straight	"	"	2'-0"	16	1	16	32.0		
601		"	"	8'-11"	8	1	8	71.3		
700		"	3/4"	22'-5"	10	1	10	224.2		
701		"	"	17'-5"	10	1	10	174.2		
702		"	"	11'-5"	9	1	9	102.8		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
703		Abutment No. 1	3/4"	17'-11"	10	1	10	172.2		
704		"	"	11'-6"	10	1	10	115.0		
705	Straight	"	"	6'-6"	13	1	13	84.5		
706	"	"	"	9'-6"	13	1	13	123.5		
1040	"	"	1/2"	8'-0"	7	1	7	56.0		
1041	"	"	"	11'-6"	8	1	8	92.0		
437		Abutment No 1 Brackets	1/2"	8'-9"	3	2	6	52.5		
438	Straight	"	"	6'-6"	4	2	8	52.0		
439		"	"	7'-9"	2	2	4	31.0		
440		"	"	6'-2"	3	2	6	37.0		
441		"	"	8'-3"	2	2	4	33.0		
447		"	"	11'-2"	4	1	4	44.7		
447		"	"	19'-2"	4	1	4	76.7		
									2,835.80	666.8
									84.7	104.3
									198.4	150.2
									1,003.4	2,044
									148.0	53.3
									5,117.4	
TOTAL ABUTMENT No 1										

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
427		Abutment No. 2	1/2"	4'-3"	27	1	27	114.8		
427		"	"	4'-1"	27	1	27	109.9		
428	Straight	"	"	39'-4"	6	1	6	236.0		
429	"	"	"	39'-4"	16	1	16	629.3		
429	"	"	"	19'-6"	2	1	2	39.0		
429	"	"	"	7'-8"	2	1	2	15.3		
430		"	"	17'-2"	9	1	9	154.5		
433		"	"	14'-11"	13	1	13	193.9		
433	Straight	"	"	14'-10"	5	1	5	74.2		
433	"	"	"	18'-6"	7	1	7	129.5		
433	"	"	"	10'-0"	5	1	5	50.0		
434	"	"	"	19'-4"	8	1	8	154.6		
444	"	"	"	13'-6"	4	1	4	54.0		
444	"	"	"	11'-6"	2	1	2	23.0		
445		"	"	7'-8"	9	1	9	69.0		
459		"	"	19'-6"	6	1	6	117.0		
460	Straight	"	"	8'-6"	9	1	9	76.5		
461	"	"	"	4'-4 1/2"	9	1	9	39.4		
462	"	"	"	3'-3"	8	1	8	26.0		
446		"	"	13'-4"	18	1	18	240.0		
446		"	"	22'-4"	4	1	4	89.3		
446	Straight	"	"	2'-8"	2	1	2	5.3		

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All stirrup dimensions are to outside of stirrups; all other dimensions are figured to center-line of bars.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

KUKAIAU BRIDGE
Sta 23+19.04 to Sta 27+00.66

HAWAII BELT ROAD SDR 3(1)
April 1950

SHEET No. 2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	SDR3(1)	1950	3	6

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
710	<i>Straight</i>	Abutment No. 2	7/8	7'-2" Ave.	10	1	10	71.7		
711	"	"	"	4'-9"	10	1	10	47.5		
840	"	"	1" square	10'-6"	9	1	9	94.5		
841	"	"	"	7'-3"	9	1	9	65.3		
842	"	"	"	6'-1"	6	1	6	36.5		
843	"	"	"	9'-3" Ave.	2	1	2	18.5		
844	"	"	"	9'-6"	4	1	4	38.0		
860		"	1" square	20'-7" Ave.	6	1	6	123.5		
861		"	"	15'-8"	5	1	5	78.3		
862		"	"	10'-1"	6	1	6	60.5		
863		"	"	20'-9"	2	1	2	41.5		
863		"	"	22'-1"	3	1	3	66.2		
864		"	"	16'-7"	4	1	4	66.3		
865		"	"	10'-7"	4	1	4	42.3		
785	<i>Straight</i>	"	7/8	9'-6"	15	1	15	142.5		
786	"	"	"	6'-8"	15	1	15	100.0		
437	See Abutment No. 1	Abutment No. 2 Brackets	1/2"	8'-9"	3	2	6	52.5		
438	"	"	"	6'-6"	4	2	8	52.0		
439	"	"	"	7'-9"	2	2	4	31.0		
440	"	"	"	6'-2"	3	2	6	37.0		
441	"	"	"	8'-3"	2	2	4	33.0		

SHEET No. 3 OF 6 SHEETS

STEEL SCHEDULE

Revision: Changed Pier No. 3 - Oct. 25, 1951

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	SDR 3(11)	1950	4	6

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
200		Pier No. 1	1 1/8"	32' 3 3/4"	6	1	6	193.9		
449		"	1 1/8"	4' 8"	2	4	8	373		
201		"	1 1/8"	22' 9 3/4"	2	1	2	45.6		
449		"	1 1/8"	5' 0"	4	4	16	800		
202	straight	"	1 1/8"	20' 9"	8	1	8	166.0		
203		"	1 1/8"	45' 7 1/2"	4	1	4	182.5		
204		"	1 1/8"	42' 3 3/4"	6	1	6	253.9		
208	straight	"	1 1/8"	5' 3"	16	2	32	168.0		
205		"	1 1/8"	32' 9 3/4"	2	1	2	65.6		
206	straight	"	1 1/8"	30' 9"	8	1	8	246.0		
207	straight	"	1 1/8"	29' 9"	8	1	8	238.0		
425	straight	"	1 1/8"	10' 6"	94	1	94	9870		
426	"	"	1 1/8"	30' 10"	12	11	12	3700		
			1 1/8"					3694.9	0.668	2,468
			5/8"					790.9	1.043	825
			1"					359.0	3.400	1,221
			1 1/8"					1,559.5	4.303	6,711
	TOTAL PIER No. 1									11,225#
483		Pier No. 2	1 1/8"	17' 9"	14	1	14	2485		
485		"	1 1/8"	13' 8 1/2"	39	2	78	10678		
486		"	1 1/8"	14' 10 1/2"	39	4	156	2,312.7		
484		"	1 1/8"	12' 9"	15	2	30	382.5		
449		"	1 1/8"	6' 6"	5	4	20	1900		
449		"	1 1/8"	5' 3"	4	4	16	840		
500		"	5/8"	17' 9"	26	2	52	9230		
501	straight	"	1 1/8"	11' 6"	34	2	68	7820		
801	"	"	1"	26' 8"	4	1	4	106.7		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
800		Pier No. 2	1"	50' 6 1/2"	4	1	4	202.2		
802	straight	"	1"	29' 4"	8	1	8	234.7		
805	"	"	1"	8' 6"	6	2	12	102.0		
808	straight	"	1"	27' 9"	6	2	12	333.0		
809	"	"	1"	33' 6"	6	2	12	402.0		
1000	"	"	1 1/4"	31' 8"	12	1	12	380.0		
1006	"	"	1"	8' 6"	16	2	32	272.0		
1007		"	1"	39' 3 3/4"	6	2	12	471.8		
1009	straight	"	1"	33' 6"	16	2	32	1072.0		
1008		"	1"	31' 1 1/4"	2	2	4	124.6		
1010	straight	"	1"	27' 9"	8	2	16	444.0		
			1 1/4"					2,764.4	5.313	14,687
	TOTAL PIER No. 2									23,986#
483	See Pier No. 2	Pier No. 3	1 1/8"	17' 9"	14	1	14	2485		
484		"	1 1/8"	15' 10"	30	2	60	949.8		
485		"	1 1/8"	15' 0"	62	2	124	2,280.0		
486		"	1 1/8"	15' 7 1/2"	62	4	248	4,625.0		
449		"	1 1/8"	6' 6"	4	4	16	1090		
449		"	1 1/8"	4' 8"	4	4	16	74.7		
500	See Pier No. 2	"	5/8"	17' 9"	26	2	52	9230		
603	straight	"	3/4"	11' 6"	46	2	92	1038.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
800	See Pier No. 2	Pier No. 3	1"	50' 6 1/2"	4	1	4	202.2		
802	"	"	1"	29' 4"	8	1	8	234.7		
803	straight	"	1"	35' 8 1/2"	6	2	12	428.5		
804	"	"	1"	35' 10 1/2"	6	2	12	430.5		
805	See Pier No. 2	"	1"	8' 6"	6	2	12	102.0		
1000	"	"	1 1/4"	31' 8"	12	2	24	760.0		
1006	"	"	1"	8' 6"	16	2	32	272.0		
1008		"	1"	47' 2 1/2"	6	2	12	566.5		
1005	straight	"	1"	35' 10 1/2"	16	2	32	1,148.0		
1003		"	1"	39' 0 1/2"	2	2	4	156.2		
1004	straight	"	1"	35' 8 1/2"	8	2	16	571.3		
801	See Pier No. 2	"	1"	26' 8"	6	1	6	160.0		
910		"	1 1/8"	20' 0"	12	2	24	480.0		
911		"	1 1/8"	8' 5"	12	2	24	202.0		
	Note: See sheet No. 6 for additional Pier 3 bars									
			1 1/8"					882.0	0.668	549.8
			5/8"					983.0	1.043	963
			3/4"					1058.0	1.589	1,589
			1"					2072.4	3.400	7046
			1 1/8"					1918.0	4.303	8253
			1 1/4"					4843.8	5.313	25,796
			1 1/4"					4260.0		25,624
	TOTAL PIER No. 3									49,089#
483	See Pier No. 2	Pier No. 4	1 1/8"	17' 9"	14	1	14	2485		
484	See Pier No. 3	"	1 1/8"	15' 10"	30	1	30	474.9		
485	See Pier No. 3	"	1 1/8"	15' 0"	60	2	120	1800.0		

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

All stirrup dimensions are to outside of stirrups; all other dimensions are figured to center line of bars.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

KUKAIAU BRIDGE
Sta 23+19.04 to Sta 27+00.66

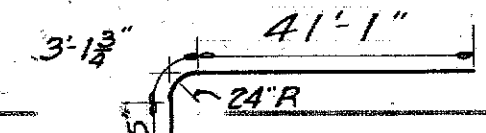
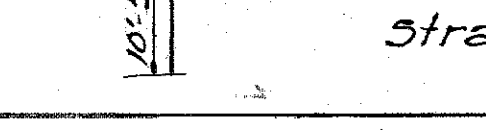
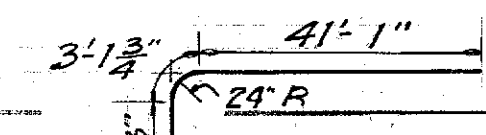
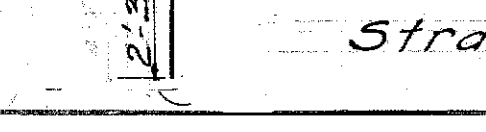
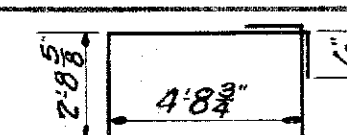
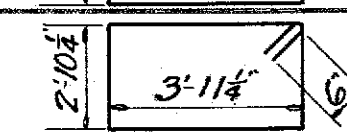
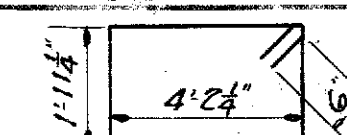
HAWAII BELT ROAD SDR 3(11)
April 1950

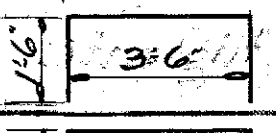
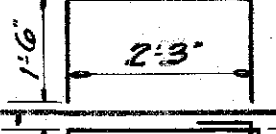
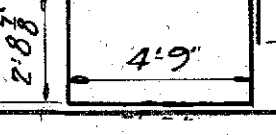
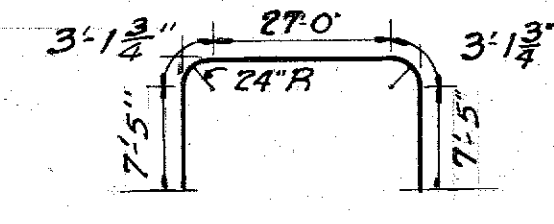
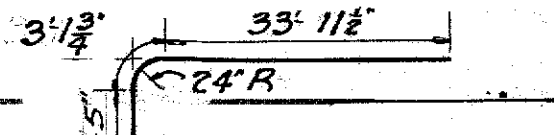
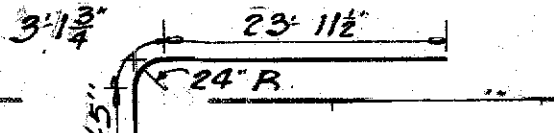
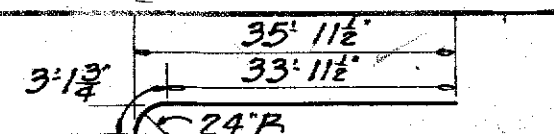
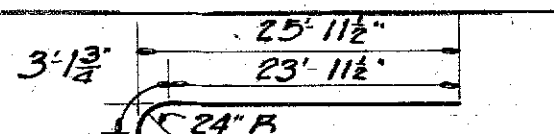
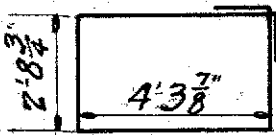
SHEET No. 4 OF 6 SHEETS

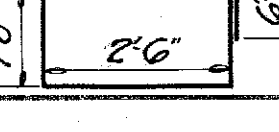
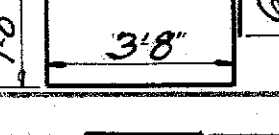
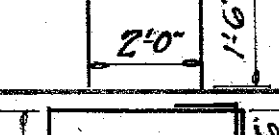
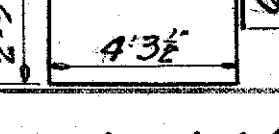
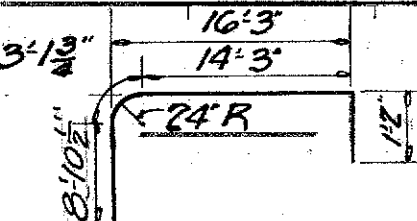
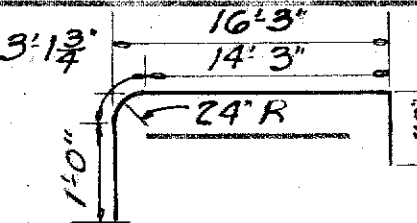
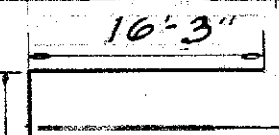
DESIGNED BY
DRAWN BY
CHECKED BY
DATE

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	SDR 3(II)	1950	5	6

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
486	See Pier No. 2	Pier No. 4	$\frac{1}{2}$ "	15'-7 $\frac{1}{2}$ "	120	2	240	3,748.8		
449	See Pier No. 3	"	"	6'-6"	4	4	16	104.0		
449	See Pier No. 3	"	"	4'-8"	4	4	16	174.7		
500	See Pier No. 2	"	$\frac{5}{8}$ "	17'-9"	26	2	52	923.0		
603	See Pier No. 3	"	$\frac{3}{4}$ "	11'-6"	34	2	68	782.0		
800	See Pier No. 2	"	1"	50'-6 $\frac{1}{2}$ "	4	1	4	202.2		
801	"	"	"	26'-8"	6	1	6	160.0		
802	"	"	"	29'-4"	8	1	8	234.7		
803	Straight	"	"	43'-1"	6	2	12	517.0		
804	"	"	"	50'-4"	6	2	12	604.0		
805	See Pier No. 2	"	"	8'-6"	6	2	12	102.0		
1000	See Pier No. 2	"	$\frac{1}{2}$ "	31'-8"	12	2	24	760.0		
1002		"	"	54'-7 $\frac{3}{4}$ "	6	2	12	655.7		
1005		"	"	50'-4"	16	2	32	1610.7		
1003		"	"	46'-5 $\frac{3}{4}$ "	2	2	4	185.9		
1004		"	"	43'-1"	8	2	16	682.3		
1006	See Pier No. 2	"	"	8'-6"	16	2	32	272.0		
910	straight	"	$\frac{1}{8}$ "	20'-0"	12	2	24	480.0		
911	"	"	"	8'-5"	12	2	24	202.0		
			$\frac{1}{2}$ "					6,450.7	0.668	4,309
			$\frac{5}{8}$ "					923.0	1.043	963
			$\frac{3}{4}$ "					782.0	1.502	1,175
			$\frac{1}{2}$ "					682.0	4.303	2,935
			1"					1,819.9	3.400	6,188
			$\frac{1}{4}$ "					4,173.6	5.313	22,174
TOTAL PIER No. 4								39,100		37,744
487		Pier No. 5	$\frac{1}{2}$ "	15'-10 $\frac{3}{4}$ "	14	1	14	222.6		
488		"	"	14'-7"	17	2	34	1,195.6		
489		"	"	13'-3"	41	1	41	543.3		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
490	Straight	Pier No. 5	$\frac{1}{2}$ "	9'-6"	36	2	72	684.0		
497		"	"	6'-6"	5	4	20	1300		
499		"	"	5'-3"	4	4	16	89.0		
502		"	$\frac{5}{8}$ "	15'-11 $\frac{3}{4}$ "	26	2	52	831.0		
810	Straight	"	1"	5'-3"	4	2	8	42.0		
812	"	"	"	27'-0"	4	1	4	108.0		
813	Straight	"	"	35'-11 $\frac{1}{2}$ "	4	1	4	149.8		
813	"	"	"	25'-11 $\frac{1}{2}$ "	4	1	4	103.8		
909		"	$\frac{1}{8}$ "	48'-11 $\frac{1}{2}$ "	4	1	4	192.5		
1011		"	$\frac{1}{4}$ "	47'-6 $\frac{1}{4}$ "	6	1	6	285.1		
1013	Straight	"	"	35'-11 $\frac{1}{2}$ "	8	1	8	287.7		
1011		"	"	37'-6 $\frac{1}{4}$ "	6	1	6	225.1		
1013	Straight	"	"	25'-11 $\frac{1}{2}$ "	8	1	8	207.7		
1012		"	"	38'-10 $\frac{1}{4}$ "	2	1	2	77.7		
1014	Straight	"	"	5'-6"	16	2	32	176.0		
1012		"	"	28'-10 $\frac{1}{4}$ "	2	1	2	57.7		
1015	Straight	"	"	28'-9"	8	1	8	230.0		
			$\frac{1}{2}$ "					2,859.5	0.668	1,910
			$\frac{5}{8}$ "					831.0	1.043	867
			1"					397.6	3.400	1,352
			$\frac{1}{8}$ "					122.5	4.303	828
			$\frac{1}{4}$ "					1,547.0	5.313	8,219
TOTAL PIER No. 5										13,176
495	Straight	Pier No. 6	$\frac{1}{2}$ "	21'-6"	4	1	4	86.0		
496		"	"	15'-14"	14	1	14	214		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
497	Straight	Pier No. 6	$\frac{1}{2}$ "	7'-6"	8	1	8	60.0		
498		"	"	12'-0"	28	1	28	336.0		
499	Straight	"	"	3'-0"	8	1	8	24.0		
470	"	"	"	5'-0"	3	1	3	15.0		
471		"	"	9'-4"	8	1	8	74.6		
472	Straight	"	"	1'-8"	16	1	16	26.7		
473	"	"	"	6'-6"	14	1	14	21.0		
474	Straight	"	"	6'-6"	7	1	7	45.5		
471		"	"	11'-8"	1	1	1	117		
449		"	"	4'-8"	2	4	8	37.8		
449		"	"	5'-0"	4	4	16	80.0		
590		"	$\frac{5}{8}$ "	15'-1"	66	1	66	995.5		
591	Straight	"	"	5'-0"	10	1	10	50.0		
780	"	"	$\frac{7}{8}$ "	7'-6"	16	1	16	120.0		
880		"	1"	27'-5 $\frac{1}{4}$ "	6	1	6	164.6		
881		"	"	19'-6 $\frac{3}{4}$ "	2	1	2	39.1		
882	Straight	"	"	5'-0"	5	1	5	25.0		
883		"	"	17'-5"	8	1	8	132.3		
884	Straight	"	"	3'-10"	8	1	8	30.6		
882	"	"	"	7'-0"	5	1	5	35.0		

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

All stirrup dimensions are to ^{outside} of stirrups; all other dimensions are figured to ^{center to center} of bars.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

KUKAIAU BRIDGE
Sta 23+19.04 to Sta 27+00.66

HAWAII BELT ROAD SDR 3(II)
April 1950

SHEET No. 5 OF 6 SHEETS

DESIGNED BY
DRAWN BY
CHECKED BY
NOTED BY
DATE

Revision: Reinf. bars added to Pier No.3
Grand Total revised- Oct. 25, 1951

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	SDR 3(M)	1950	6	6

Ref. Oct. 25, 1951

[illegible]

All stirrup dimensions are to ~~inside~~ ^{outside} of stirrups; all other dimensions are figured to ~~center line~~ ^{out to out} of bars.

SHEET No. 6 OF 6 SHEETS

ORIGINAL	DESIGNED BY	DATE
PLAN	DRAWN BY	
	TRACED BY	
NOTE BOOK	QUANTITIES BY	
	QUANTITIES CHECKED BY	
N _o .	CHECKED BY	

TOTAL ~~234,305~~
244,824 #

Oct. 25, 1951 REV