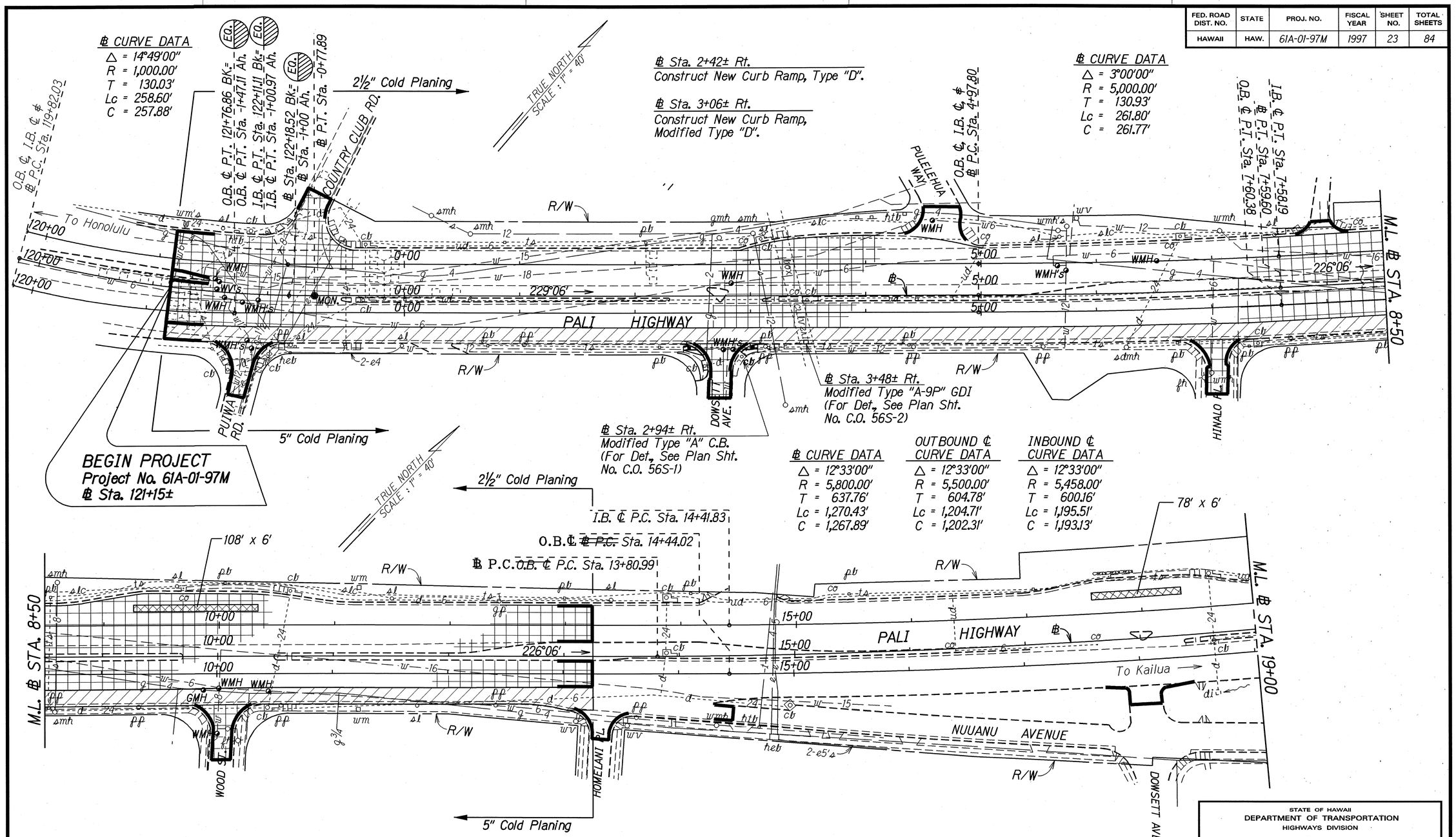
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	23	84



ORIGINAL PLAN	
NOTE BOOK	003/rme
N:\Eng\00\00\	

		DATE
SURVEY PLOTTED BY		
DRAWN BY	J. Miyagawa, MH	5-13-97
TRACED BY		
DESIGNED BY	Fasua-Sequeira	
QUANTITIES BY		
CHECKED BY		

LEGEND FOR AS-BUILT POSTINGS

~~	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

DATE	REVISION
3/2/99	Revised Curb Ramp locations at Dowsett Ave. & added Drainage Structures at ℄ Sta. 2+94 Rt. and ℄ Sta. 3+48 Rt.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May 1997

SHEET No. 1 OF 12 SHEETS

"AS-BUILT"

C.O. 23

DD3-Highway Design Section

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	24	84

LEGEND FOR AS-BUILT POSTINGS

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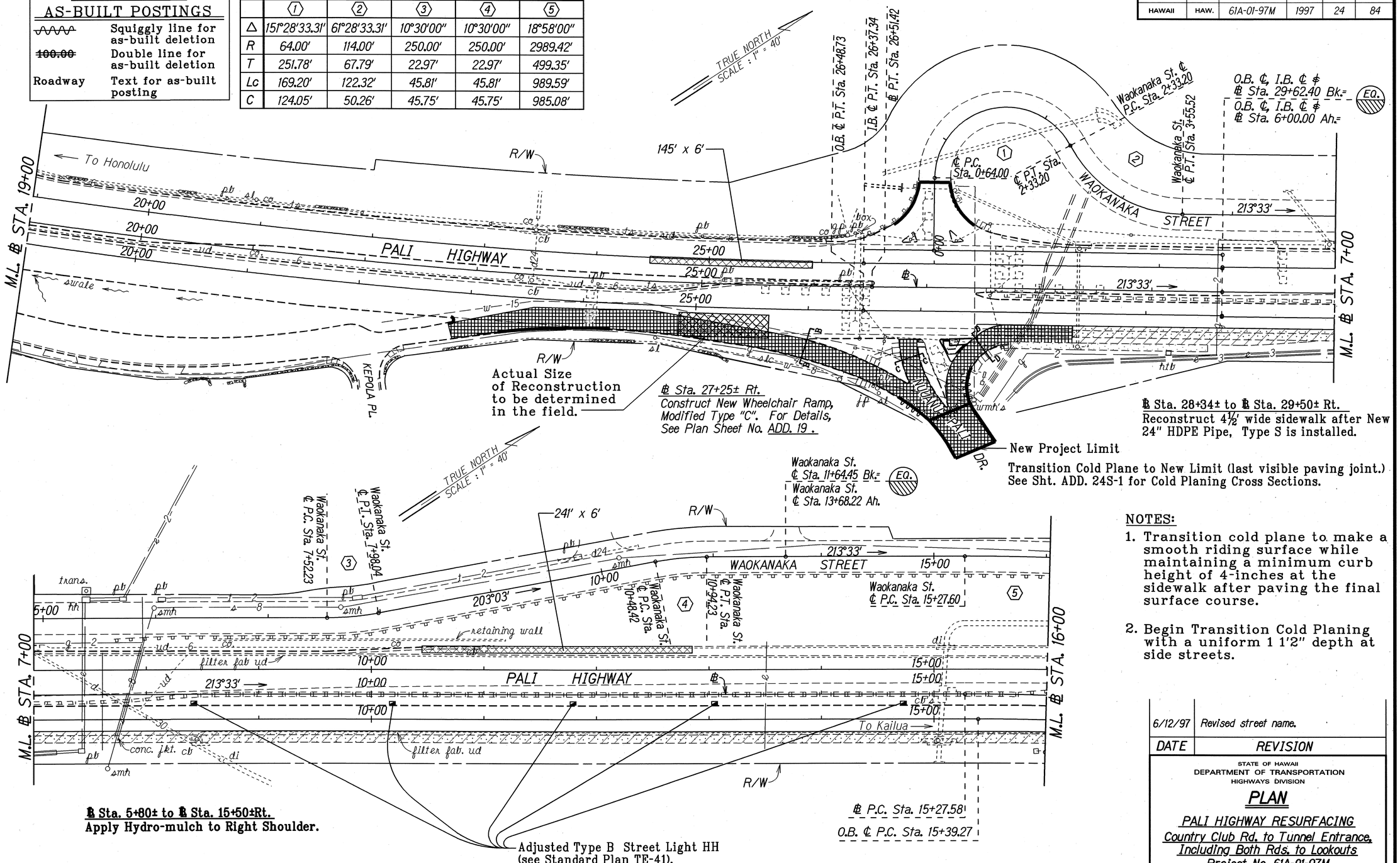
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

WAOKANAKA ST. ℄ CURVE DATA

	①	②	③	④	⑤
Δ	151°28'33.31'	61°28'33.31'	10°30'00"	10°30'00"	18°58'00"
R	64.00'	114.00'	250.00'	250.00'	2989.42'
T	251.78'	67.79'	22.97'	22.97'	499.35'
Lc	169.20'	122.32'	45.81'	45.81'	989.59'
C	124.05'	50.26'	45.75'	45.75'	985.08'



NOTES:

1. Transition cold plane to make a smooth riding surface while maintaining a minimum curb height of 4-inches at the sidewalk after paving the final surface course.
2. Begin Transition Cold Planing with a uniform 1 1'2" depth at side streets.

DATE	REVISION
6/12/97	Revised street name.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May, 1997

SHEET No. 2 OF 12 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY J. Miyashiro
TRACED BY
DESIGNED BY Pascual Sequera
NOTE BOOK
QUANTITIES BY
CHECKED BY
DATE 5/12/1997

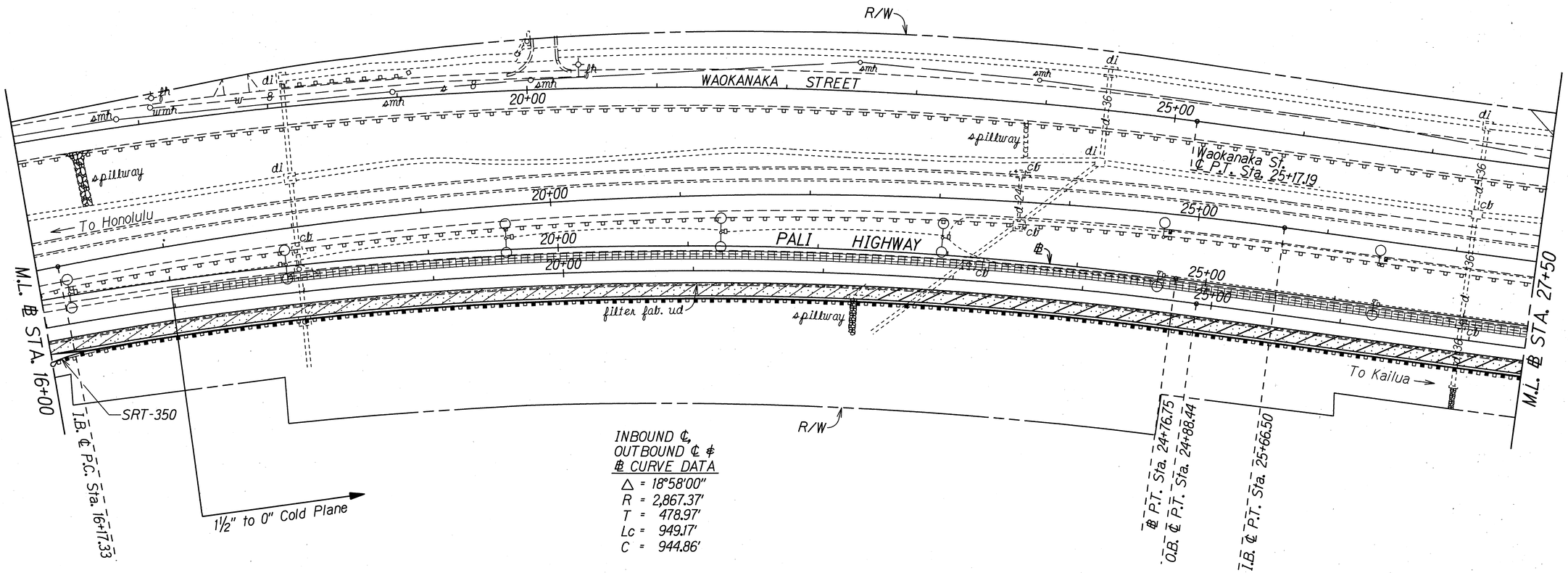
"AS-BUILT"

ADD. 24

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	25	84

WAOKANAKA ST.
℄ CURVE DATA
△ = 18°58'00"
R = 2,989.42'
T = 499.35'
Lc = 989.59'
C = 985.08'

TRUE NORTH
SCALE : 1" = 40'



INBOUND ℄,
OUTBOUND ℄ &
⊕ CURVE DATA
△ = 18°58'00"
R = 2,867.37'
T = 478.97'
Lc = 949.17'
C = 944.86'

⊕ Sta. 16+00± to ⊕ Sta. 30+30± Rt.

Install Curb and Gutter, Type 2DG with Beginning Taper 15:1 and End Taper 60:1. Remove 1,430 L.F. of exist. guardrail and Install 1,400 L.F. of New Guardrail, Type 3-Single w/Steel Post with SRT-350 at Approach End and a Type "G" Flare at Trailing End.

⊕ Sta. 17+00± Lt. to ⊕ Sta. 51+00± Lt.

Cold Plane 4.0' of exist. travelway and Gutter area. Paid Under Item No. 652.0400 - 1½" Cold Planing. For Detail, See Plan Sht. No. 12 .

ORIGINAL PLAN	SURVEY PLOTTED BY ____ DATE ____
	DRAWN BY J. Mitsuyoshi/P. Wong 5/21/97
	TRACED BY ____
NOTE BOOK dd3jyme	REVIEWED BY Pascua/Sequeira
N:\pldp03.dgn	QUANTITIES BY ____
	CHECKED BY ____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

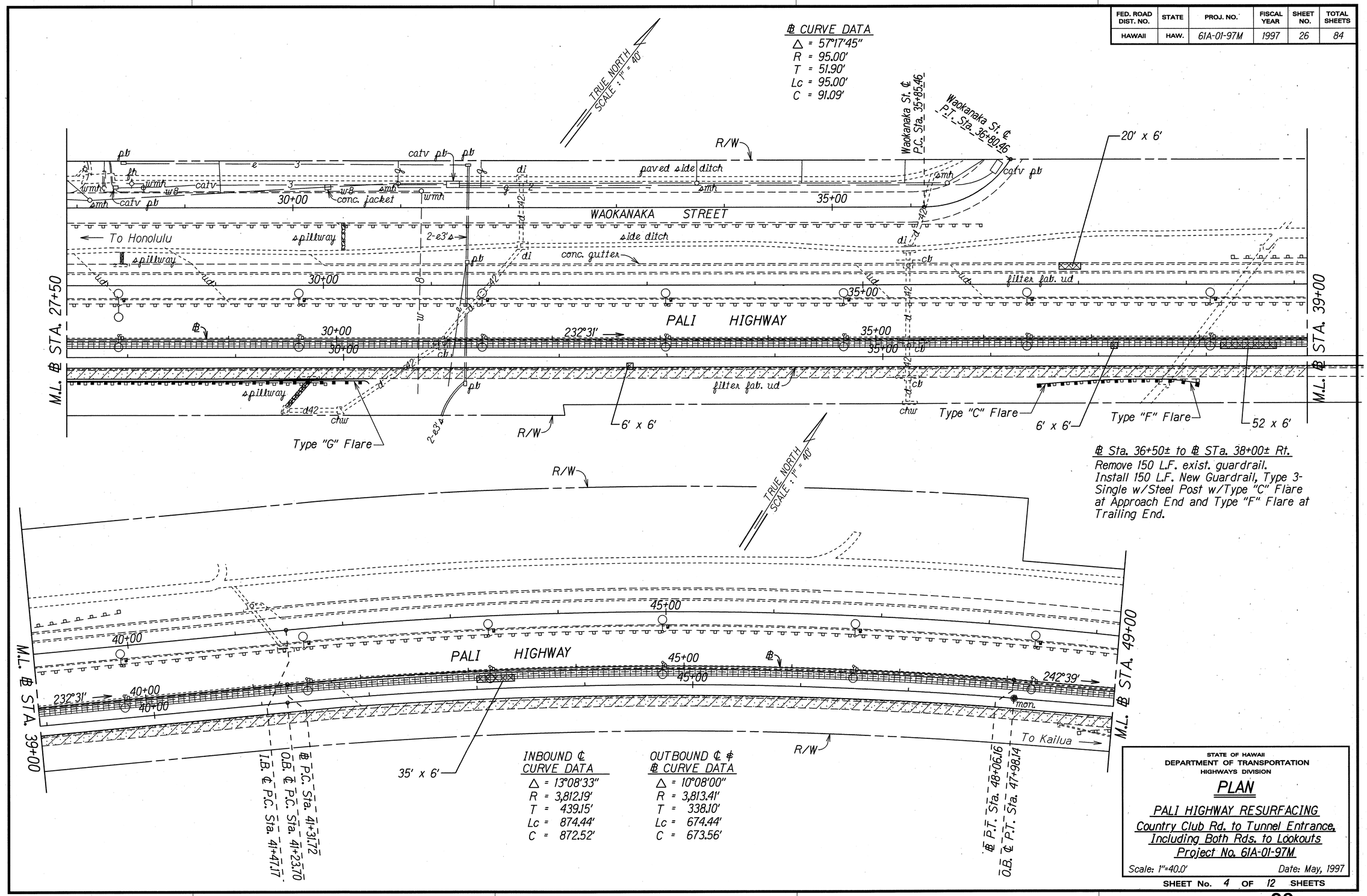
PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance,
Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May, 1997

SHEET No. 3 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	26	84



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

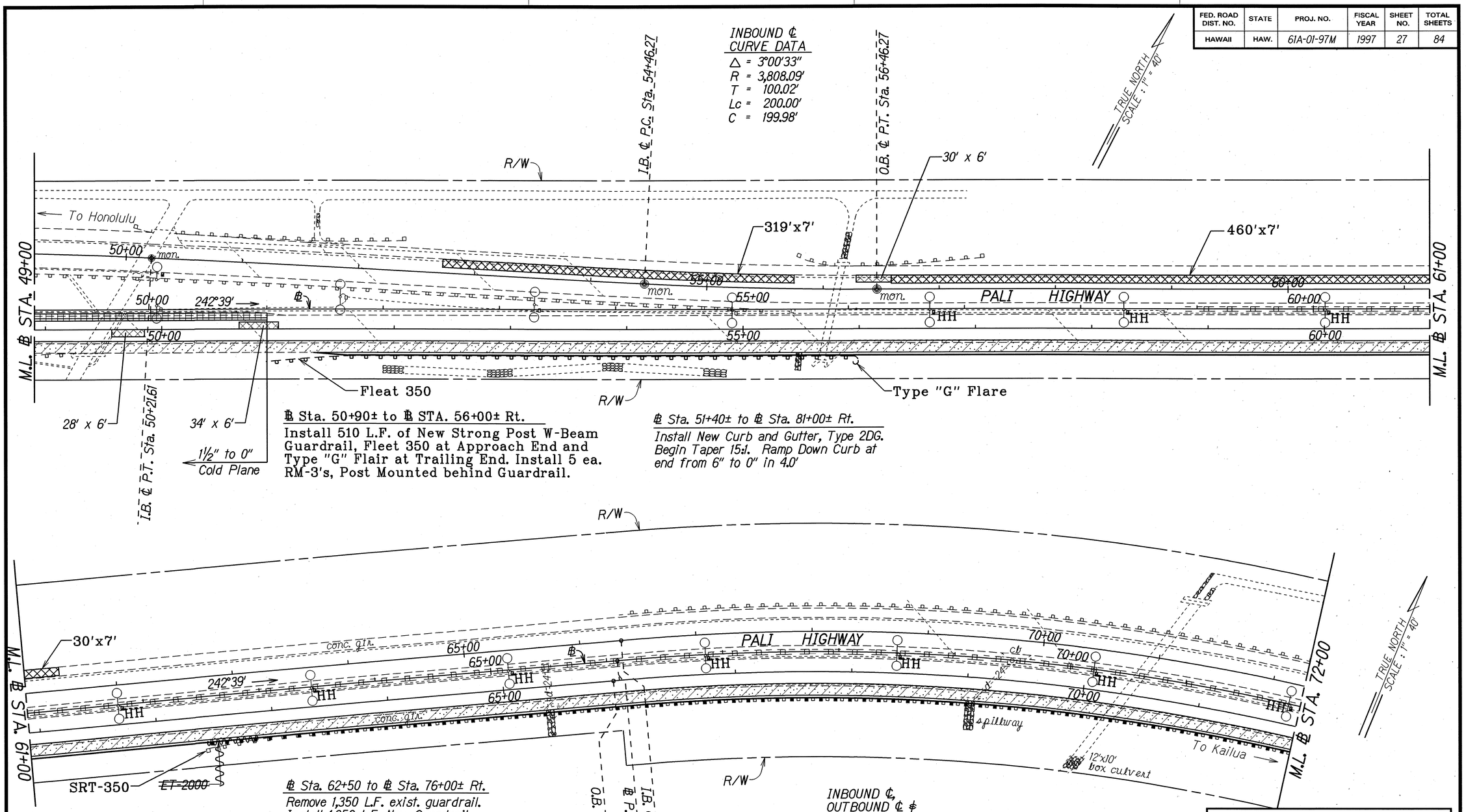
PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May, 1997

SHEET No. 4 OF 12 SHEETS

SURVEY PLOTTED BY	DATE 5/21/95
DRAWN BY J. Mitsuyoshi/P. Wong	
TRACED BY P. Pascual/Sequeira	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
UNIONS	
N	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	27	84



HH Indicates Traffic Bearing Street Light Handhole adjusted to Finish Grade. For Details see Plan Sheet No. ADD. 24S-1.

LEGEND FOR AS-BUILT POSTINGS	
∿∿∿	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May, 1997

SHEET No. 5 OF 12 SHEETS

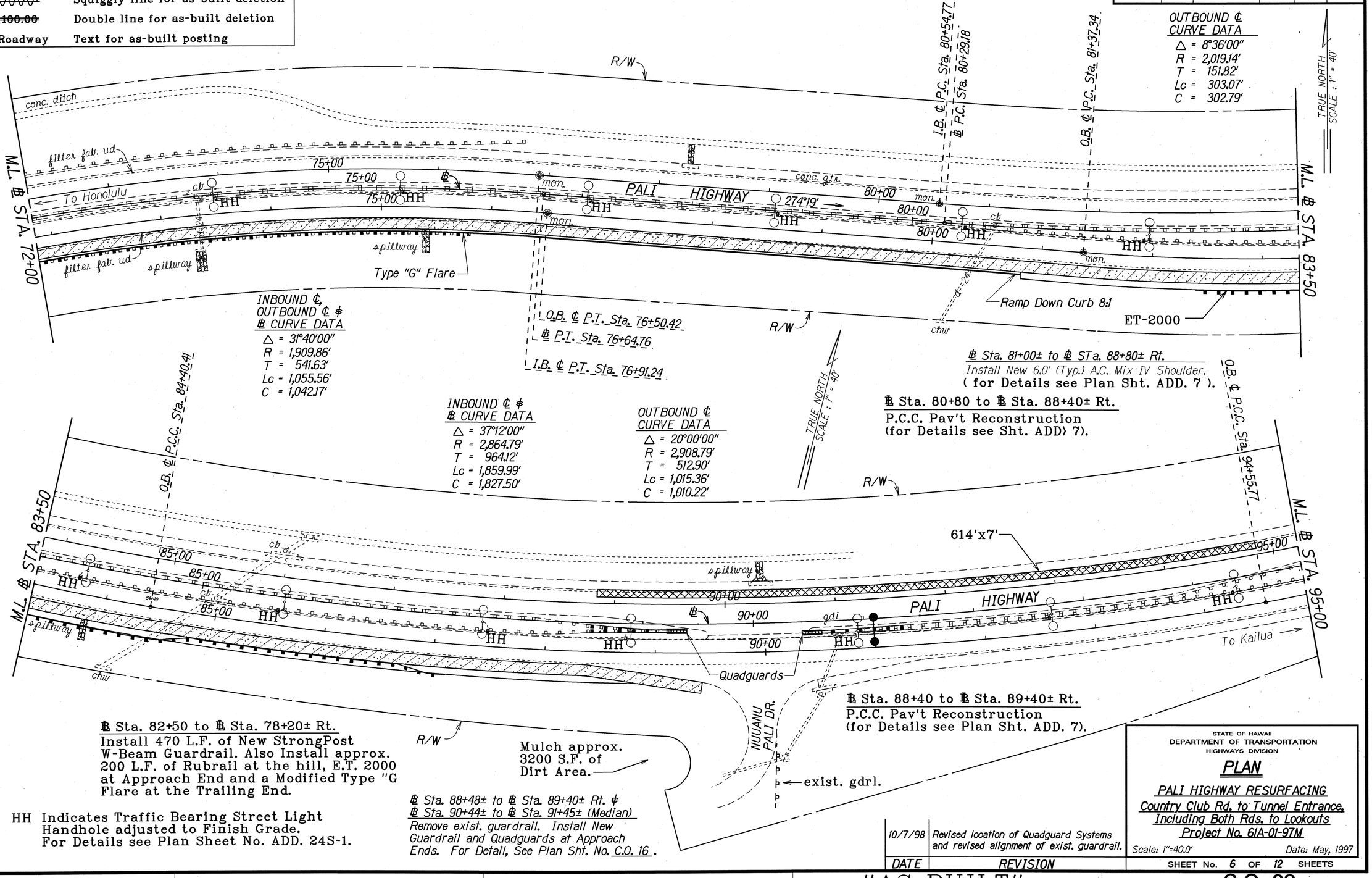
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 5/7/1997
	DRAWN BY J. Miyashiro	
	TRACED BY J. Miyashiro	
NOTE BOOK	DESIGNED BY Pascal Sequera	
	QUANTITIES BY	
	CHECKED BY	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	28	84

LEGEND FOR AS-BUILT POSTINGS

∿∿∿	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting



DATE	REVISION
10/7/98	Revised location of Quadguard Systems and revised alignment of exist. guardrail.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May, 1997

SHEET No. 6 OF 12 SHEETS

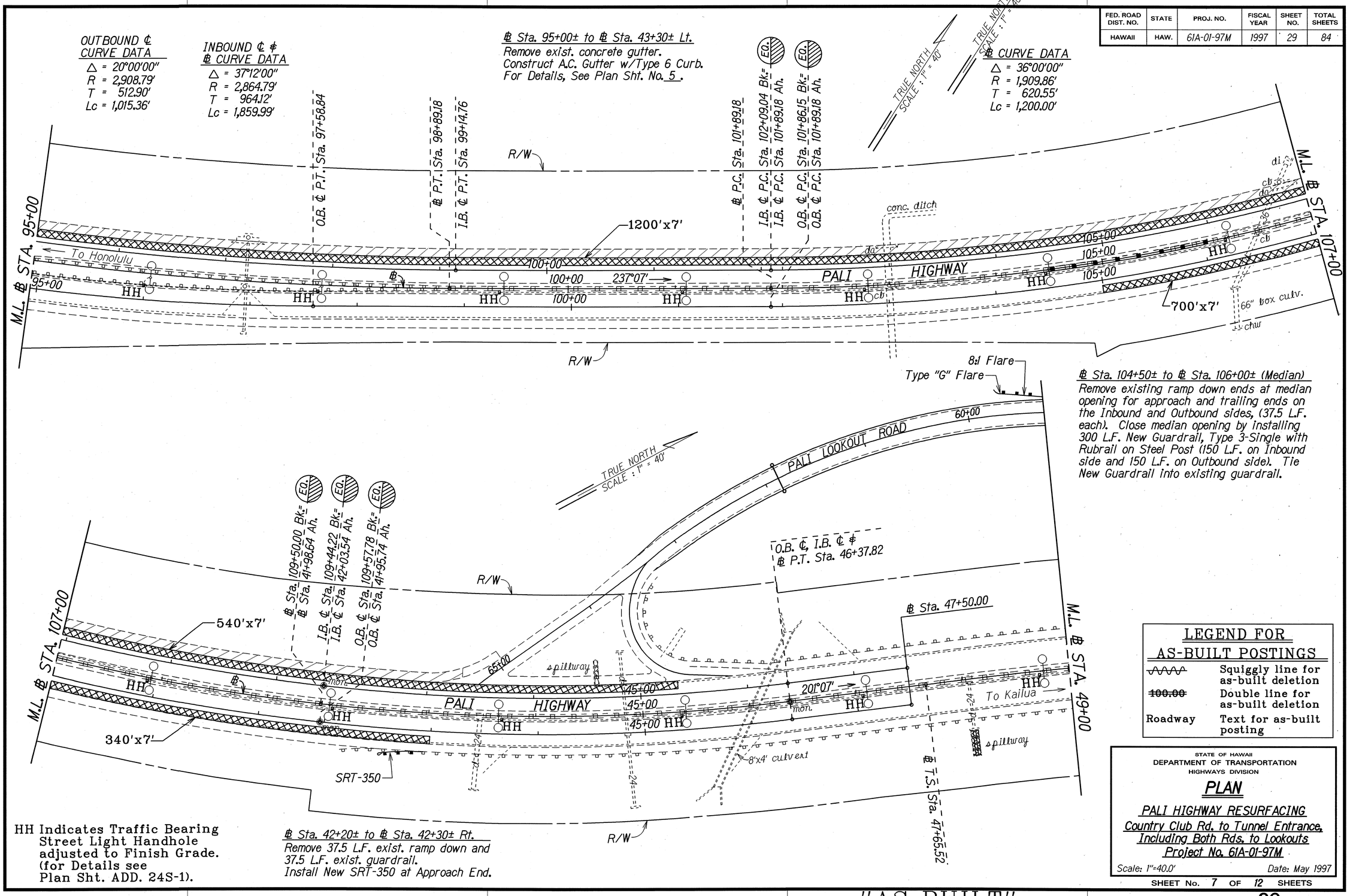
SURVEY PLOTTED BY DATE
DRAWN BY Mitsuyoshi P. Wong 7/7/1997
TRACED BY
DESIGNED BY Pascual Sequera
QUANTITIES BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
JOB No.

"AS-BUILT"

C.O. 28

DD3-Highway Design Section

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	29	84



LEGEND FOR AS-BUILT POSTINGS	
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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May 1997

SHEET No. 7 OF 12 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 7/27/97
	DRAWN BY J. Miyamoto	
	TRACED BY	
NOTE BOOK	DESIGNED BY Pascual-Sequera	
60 Dyne	QUANTITIES BY	
Nonwoven	CHECKED BY	

"AS-BUILT"

DOT-Highway Design Section

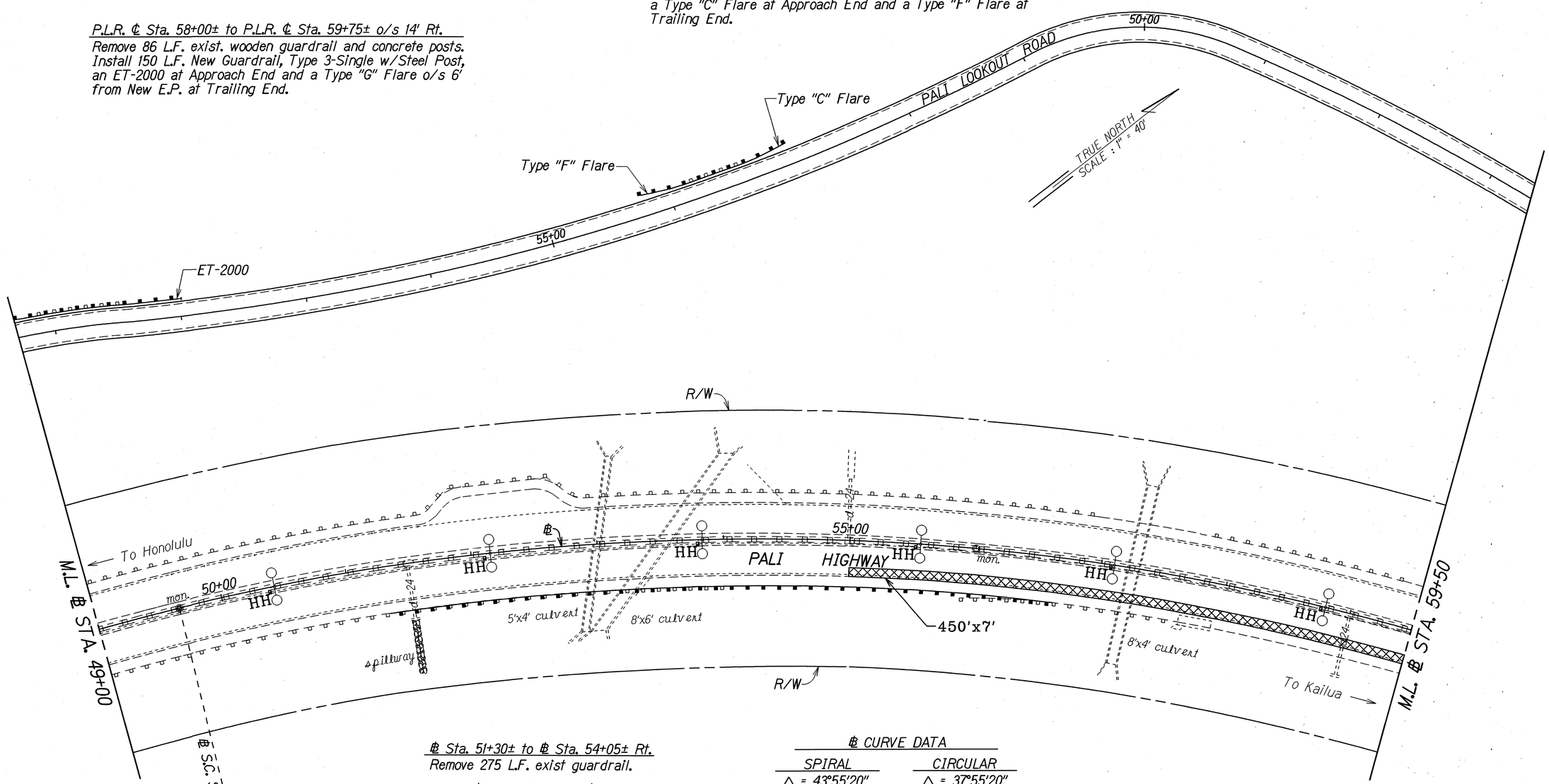
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	30	84

P.L.R. ℄ Sta. 53+00± to P.L.R. ℄ Sta. 54+25± o/s 14' Rt.

Remove 40 L.F. exist. wooden guardrail and concrete posts. Install 125 L.F. New Guardrail, Type 3-Single w/Steel Post, a Type "C" Flare at Approach End and a Type "F" Flare at Trailing End.

P.L.R. ℄ Sta. 58+00± to P.L.R. ℄ Sta. 59+75± o/s 14' Rt.

Remove 86 L.F. exist. wooden guardrail and concrete posts. Install 150 L.F. New Guardrail, Type 3-Single w/Steel Post, an ET-2000 at Approach End and a Type "G" Flare o/s 6' from New E.P. at Trailing End.



℄ Sta. 51+30± to ℄ Sta. 54+05± Rt.

Remove 275 L.F. exist guardrail.

℄ Sta. 55+90± to ℄ Sta. 56+65± Rt.

Remove 37.5 L.F. exist ramp down and 37.5 L.F. exist. guardrail.

℄ Sta. 51+30± to ℄ Sta. 56+65± Rt.

Install 535 L.F. New Guardrail, Type 3-Single w/Steel Post.

℄ CURVE DATA

SPIRAL	CIRCULAR
Δ = 43°55'20"	Δ = 37°55'20"
Dc = 3°00'00"	R = 1,909.86
θs = 3°00'00"	T = 656.17'
Ls = 200.00'	Lc = 1,264.07'
Ts = 870.48'	
Es = 150.30'	

HH Indicates Traffic Bearing Street Light Handhole adjusted to Finish Grade. (for Details see Plan Sht. ADD. 24S-1).

LEGEND FOR AS-BUILT POSTINGS

∿∿∿	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May 1997

SHEET No. 8 OF 12 SHEETS

ORIGINAL PLAN

SURVEY PLOTTED BY
DRAWN BY J. Miyashiro DATE 7/27/97
TRACED BY
DESIGNED BY Pascual/Sequeira
NOTE BOOK
QUANTITIES BY
CHECKED BY

"AS-BUILT"

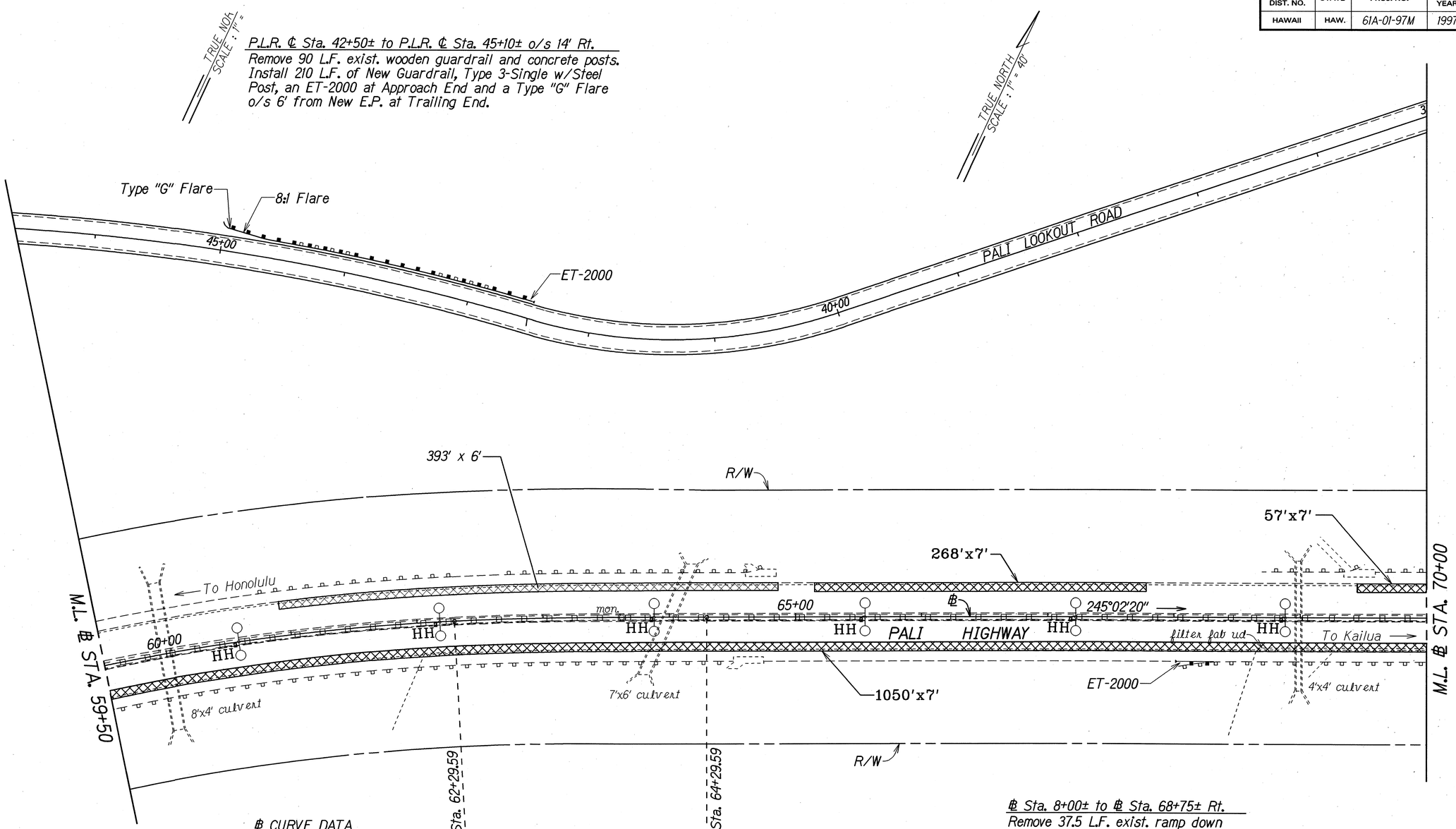
DD3-Highway Design Section

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	31	84

TRUE NOR. SCALE: 1" =

P.L.R. ℄ Sta. 42+50± to P.L.R. ℄ Sta. 45+10± o/s 14' Rt.

Remove 90 L.F. exist. wooden guardrail and concrete posts. Install 210 L.F. of New Guardrail, Type 3-Single w/Steel Post, an ET-2000 at Approach End and a Type "G" Flare o/s 6' from New E.P. at Trailing End.



℄ CURVE DATA

SPIRAL	CIRCULAR
△ = 43°55'20"	△ = 37°55'20"
Dc = 3°00'00"	R = 1,909.86
θs = 3°00'00"	T = 656.17'
Ls = 200.00'	Lc = 1,264.07'
Ts = 870.48'	
Es = 150.30'	

℄ Sta. 8+00± to ℄ Sta. 68+75± Rt.

Remove 37.5 L.F. exist. ramp down and 37.5 L.F. exist. guardrail. Install 25 L.F. New Guardrail, Type 3-Single w/Steel Post and an ET-2000 at Approach End.

HH Indicates Traffic Bearing Street Light Handhole adjusted to Finish Grade. (for Details see Plan Sht. ADD. 24S-1).

LEGEND FOR AS-BUILT POSTINGS	
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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May 1997

SHEET No. 9 OF 12 SHEETS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY J. Mikayoshi | TRACED BY | DESIGNED BY Pascua/Sequeira | QUANTITIES BY | CHECKED BY | DATE 7/07/97 | NOTE BOOK | CE/Date | CE/Date | No.

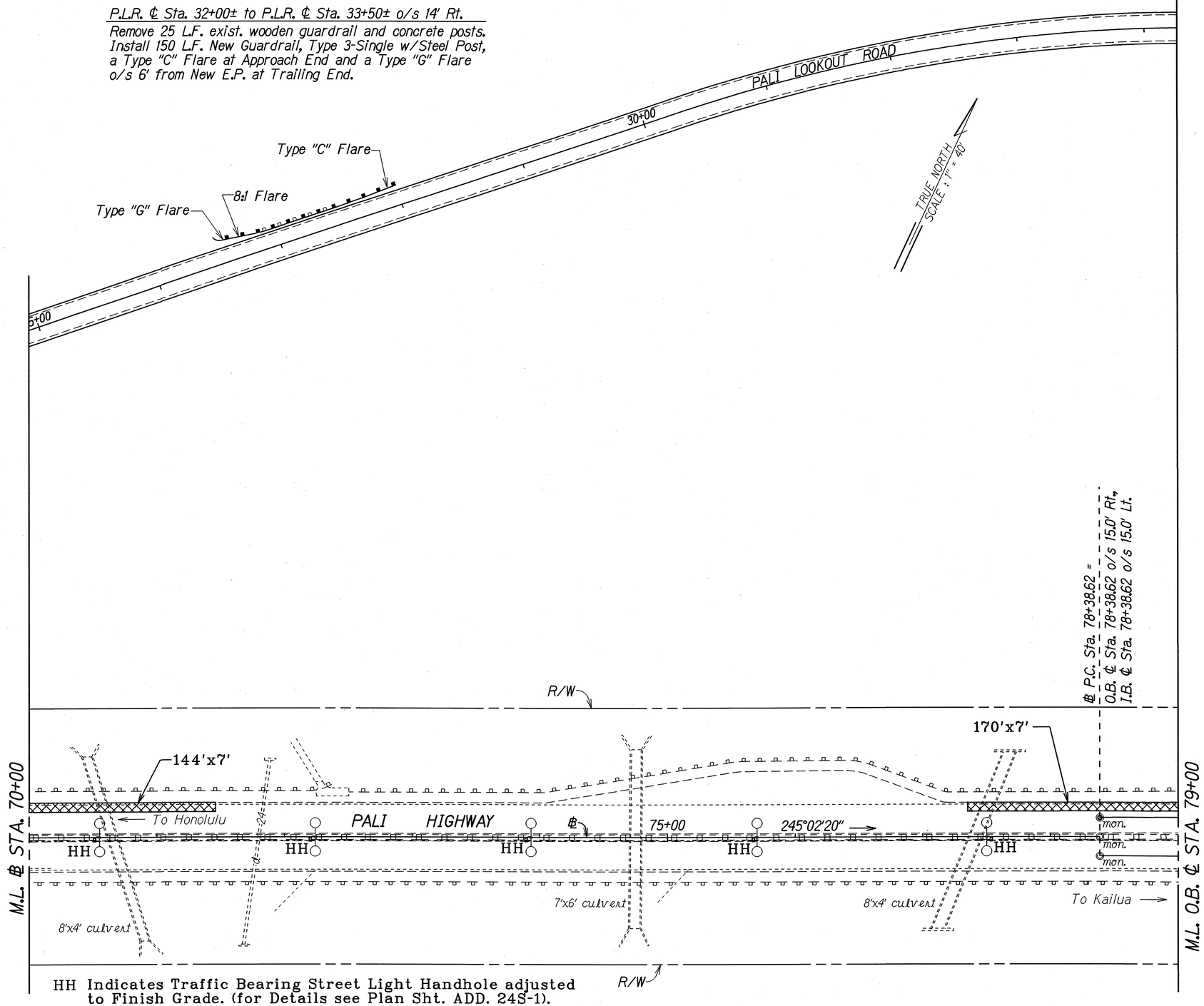
"AS-BUILT"

DD3-Highway Design Section

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	32	84

P.L.R. ℄ Sta. 32+00± to P.L.R. ℄ Sta. 33+50± o/s 14' Rt.

Remove 25 L.F. exist. wooden guardrail and concrete posts. Install 150 L.F. New Guardrail, Type 3-Single w/Steel Post, a Type "C" Flare at Approach End and a Type "G" Flare o/s 6' from New E.P. at Trailing End.



HH Indicates Traffic Bearing Street Light Handhole adjusted to Finish Grade. (for Details see Plan Sht. ADD. 24S-1).

LEGEND FOR AS-BUILT POSTINGS	
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~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

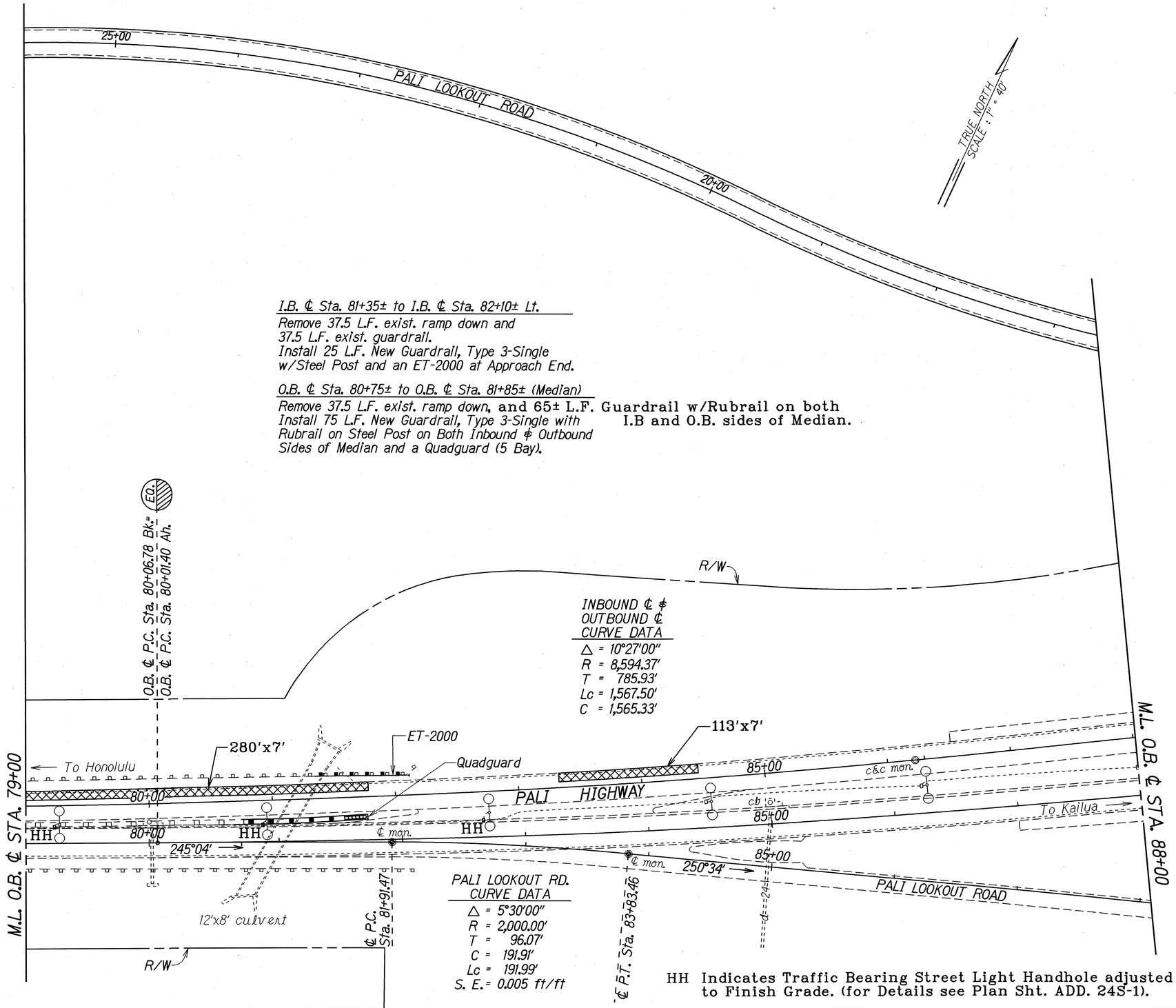
Scale: 1"=40.0' Date: May 1997

SHEET No. 10 OF 12 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY J. Mitsuyoshi	2/27/97
	TRACED BY	
NOTE BOOK 00 Jyme	DESIGNED BY Pascual/Sequeira	
N. Quintanilla	QUANTITIES BY	
	CHECKED BY	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	33	84



I.B. ℄ Sta. 81+35± to I.B. ℄ Sta. 82+10± Lt.

Remove 37.5 L.F. exist. ramp down and 37.5 L.F. exist. guardrail.
Install 25 L.F. New Guardrail, Type 3-Single w/Steel Post and an ET-2000 at Approach End.

O.B. ℄ Sta. 80+75± to O.B. ℄ Sta. 81+85± (Median)

Remove 37.5 L.F. exist. ramp down, and 65± L.F. Guardrail w/Rubrail on both I.B and O.B. sides of Median.
Install 75 L.F. New Guardrail, Type 3-Single with Rubrail on Steel Post on Both Inbound & Outbound Sides of Median and a Quadguard (5 Bay).

HH Indicates Traffic Bearing Street Light Handhole adjusted to Finish Grade. (for Details see Plan Sht. ADD. 24S-1).

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE 7/27/93
	DRAWN BY J. Miyasaki	
	TRACED BY	
NOTE BOOK	DESIGNED BY Pacific Planners	
603/me	QUANTITIES BY	
No. Guardrail	CHECKED BY	

LEGEND FOR AS-BUILT POSTINGS

∧∧∧∧	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

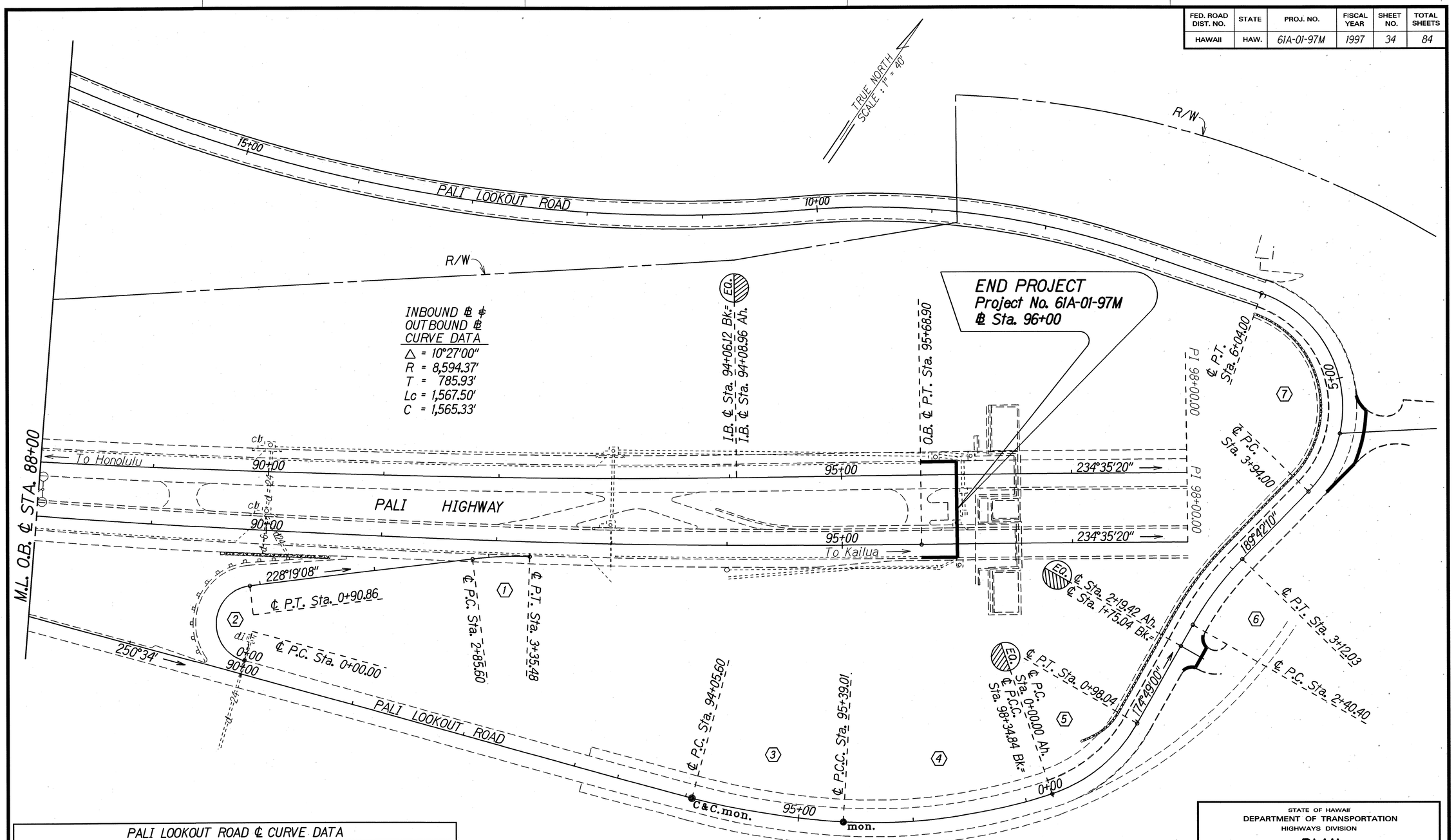
Scale: 1"=40.0' Date: May 1997

SHEET No. 11 OF 12 SHEETS

"AS-BUILT"

DD3-Highway Design Section

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	61A-01-97M	1997	34	84



PALI LOOKOUT ROAD ℄ CURVE DATA							
	1	2	3	4	5	6	7
△	8°35'53"	157°45'08"	12°00'00"	35°30'00"	41°36'00"	14°53'10"	115°30'00"
R	332.43'	33.00'	636.99'	477.46'	135.03'	275.68'	104.17'
T	24.99'	167.83'	66.95'	152.84'	51.29'	36.02'	165.10'
Lc	49.80'	90.86'	133.41'	295.83'	98.04'	71.62'	210.00'
C	49.84'	64.76'	133.17'	183.21'	96.00'	71.42'	176.20'

LEGEND FOR AS-BUILT POSTINGS	
∿∿∿	Squiggly line for as-built deletion
~~100.00~~	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

PALI HIGHWAY RESURFACING
Country Club Rd. to Tunnel Entrance, Including Both Rds. to Lookouts
Project No. 61A-01-97M

Scale: 1"=40.0' Date: May 1997

SHEET No. 12 OF 12 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY J. Miyagishi DATE 7/27/97
TRACED BY
DESIGNED BY Fasola/Siquera
NOTE BOOK 063,Vine
QUANTITIES BY
N. Gonzalez CHECKED BY

"AS-BUILT"