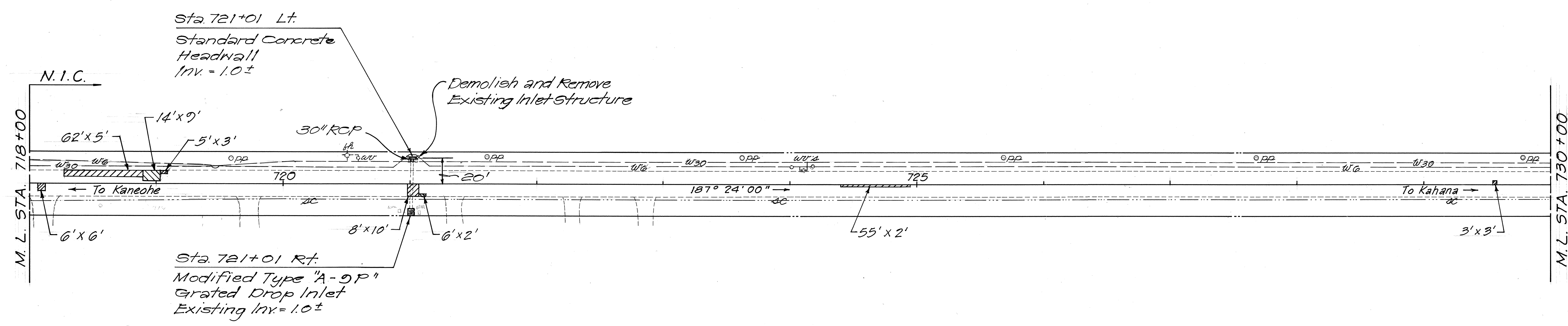


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-86M	1986	7	57

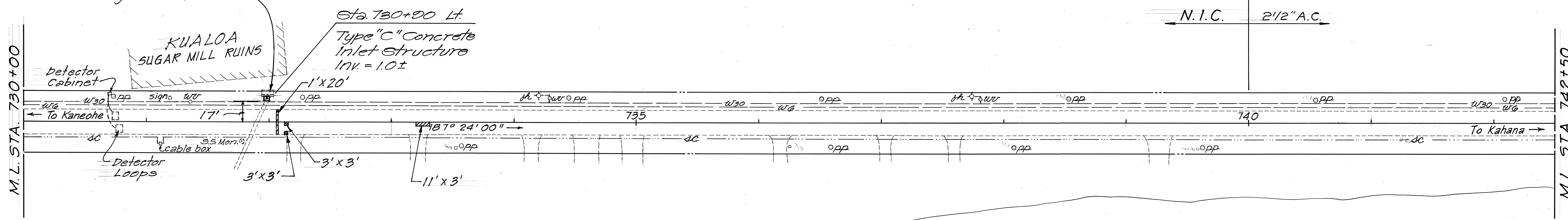
TRUE NORTH
Scale: 1"=40'



Sta. 721+01
Construct: Standard Concrete Headwall
Modified Type "A-9P" Grated Drop Inlet
(For details, see sht. no. H4)
Install: 30" RCP, Class III

Sta. 730+00 Lt.
Construct: Type "C" Concrete Inlet Structure
(For details, see sht. no. H7)

Demolish and Remove Existing Inlet Structure



APPROVED:
R. Regito 6-28-86
Chief, Planning & Engineering, BWS Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
Kualoa to Lau Place
PROJECT No. 83D-01-86M

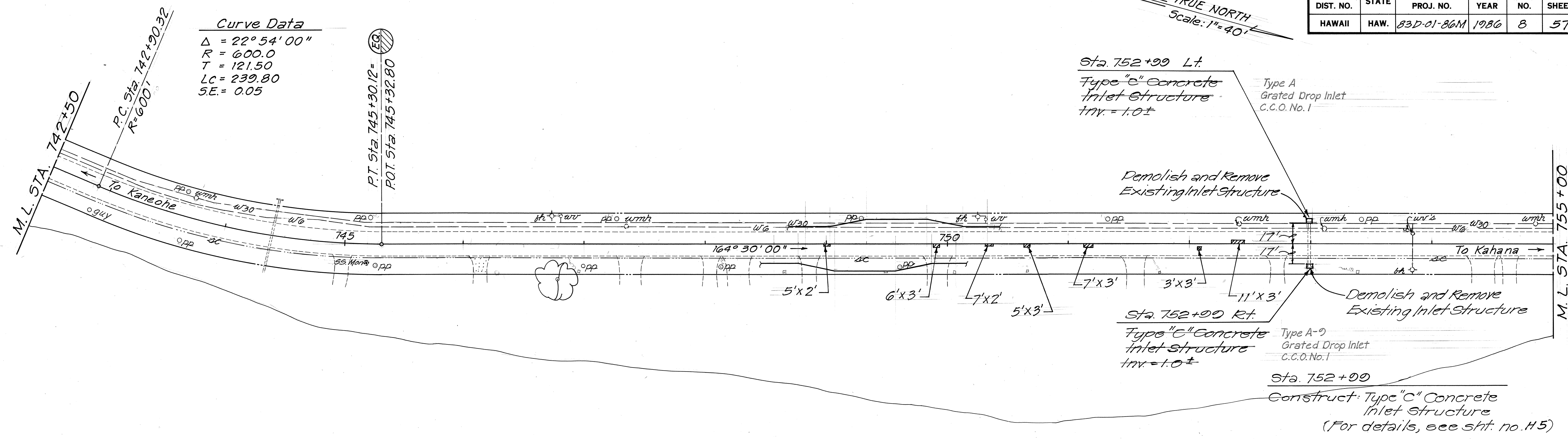
Scale: 1"=40' Date: Feb. 1986
SHEET No. 1 OF 7 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-86M	1986	8	57

TRUE NORTH
Scale: 1"=40'

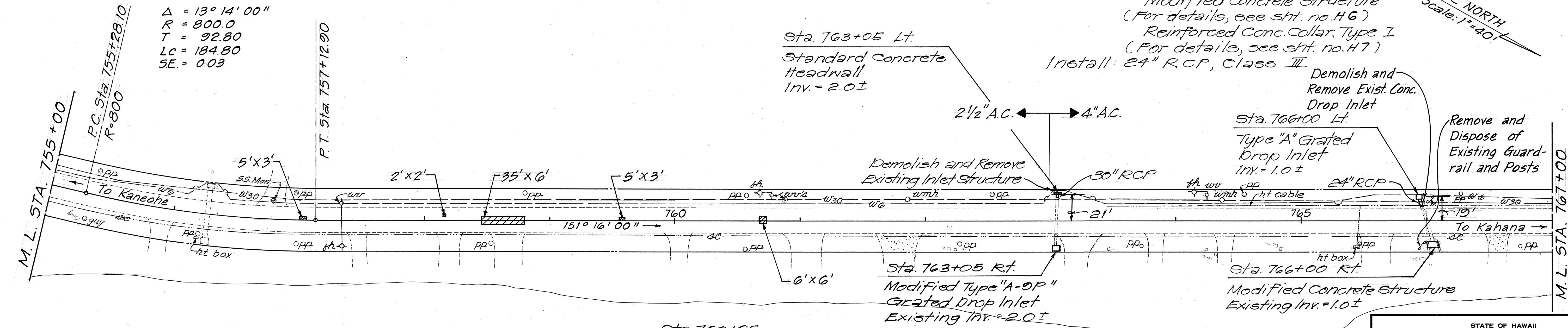
Curve Data
Δ = 22° 54' 00"
R = 600.0
T = 121.50
LC = 239.80
SE = 0.05



Curve Data
Δ = 13° 14' 00"
R = 800.0
T = 92.80
LC = 184.80
SE = 0.03

Sta. 766+00
Construct: Type "A" Grated Drop Inlet
(For details, see sht. no. H3)
Modified Concrete Structure
(For details, see sht. no. H6)
Reinforced Conc. Collar, Type I
(For details, see sht. no. H7)
Install: 24" RCP, Class III

TRUE NORTH
Scale: 1"=40'



Sta. 763+05
Construct: Standard Concrete Headwall
Reinforced Concrete Collar, Type I
(For details, see sht. no. H7)
Modified Type "A-OP" Grated Drop Inlet
(For details, see sht. no. H4)
Install: 30" RCP, Class III

Sta. 766+00 Rt.
Modified Type "A-OP" Grated Drop Inlet
Existing Inv. = 2.0±

APPROVED:
R. [Signature] 6-28-86
Chief, Planning & Engineering, BWS Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Kualoa to Lau Place
PROJECT No. 83D-01-86M
Scale: 1"=40' Date: Feb. 1986
SHEET No. 2 OF 7 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-86M	1986	7	57

TRUE NORTH
Scale: 1"=40'

Curve Data

$\Delta = 31^\circ 51' 00''$
 $R = 400.0'$
 $T = 114.10'$
 $Lc = 222.30'$
 $SE = 0.055$

Sta. 778+33 Lt.

Type "A" Grated Drop Inlet

Inv. = 15.0± 24" RCP

P.C. Sta. 775+90.0
R=400'

Sta. 778+33

Construct Type "A" Grated Drop Inlet

(For details, see sht. no. H3)

Reinforced Concrete Collar, Type I

(For details, see sht. no. H7)

Install: 24" RCP, Class III

Sta. 778+60± to Sta. 779+10± Rt.

Install 50 lin. ft. rubrail as directed by the Engineer.

775+70 Rt.

Sta. 777+30± to Sta. 782+00± Rt.

Remove and dispose of exist. wooden guardrail w/ posts.

Install approx. 425 lin. ft. guardrail type 3 single w/ steel posts and BCT approach and trailing flares.

Sta. 775+65± to Sta. 776+25± Rt.

Install 62 lin. ft. (incl. 50 lin. ft. rubrail) guardrail, type 3 w/ steel posts and W beam end section (rounded) @ trailing end. See Plan Sht. DT 518.

Type G Guardrail Anchor

Stations 772+45 Rt.

776+20 Rt.

782+00 Rt.

784+80 Lt.

C.C.O. No. 5

Curve Data

$\Delta = 11^\circ 24' 00''$
 $R = 800.0'$
 $T = 79.60'$
 $Lc = 159.20'$
 $SE = 0.02$

P.C. Sta. 769+22.1
R=800'

Sta. 784+80± to Sta. 787+10± Lt.

Remove & dispose of exist. wooden guardrail w/ post

Install 210 lin. ft. guardrail, type 3 w/ steel posts

Install BCT approach flare & W beam end section (rounded) @ trailing end.

Construct compacted fill slope (approx. quantity 15 c.y.) for the guardrail installation as directed by the Engineer.

TRUE NORTH
Scale: 1"=40'

Curve Data

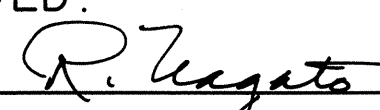
$\Delta = 31^\circ 29' 00''$
 $R = 700.0'$
 $T = 197.40'$
 $Lc = 384.60'$
 $SE = 0.04$

P.C. Sta. 782+98.0
R=700'

Sta. 782+00 Rt.

Type 3 Single Guardrail with Steel post
C.C.O. No. 5

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

APPROVED:

 Chief, Planning & Engineering, BWS Date 5-28-86

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Kualoa to Lau Place
PROJECT No. 83D-01-86M

Scale: 1"=40' Date: Feb. 1986
 SHEET No. 3 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-86M	1986	10	57

TRUE NORTH
Scale: 1"=40'

Curve Data

$\Delta = 5^{\circ}19'00''$
 $R = 2000.0$
 $T = 92.9$
 $Lc = 185.6$
 $SE = 0$

Station 794+15

Repair Culvert and Guardrail Connection. Remove existing Guardrail. Install 265 Lin. Ft. Type 3 Guardrail w/ Steel Posts. Install BCT (4 ea.).

Curve Data

$\Delta = 8^{\circ}16'00''$
 $R = 1000.0$
 $T = 72.27$
 $Lc = 144.28$
 $SE = 0.02$

Curve Data

$\Delta = 13^{\circ}23'00''$
 $R = 1000.0$
 $T = 117.3$
 $Lc = 233.6$
 $SE = 0.02$

Curve Data

$\Delta = 7^{\circ}40'00''$
 $R = 970.15$
 $T = 65.0$
 $Lc = 129.81$
 $SE = 0.02$

Curve Data

$\Delta = 36^{\circ}56'00''$
 $R = 600.0$
 $T = 200.37$
 $Lc = 386.73$
 $SE = 0.05$

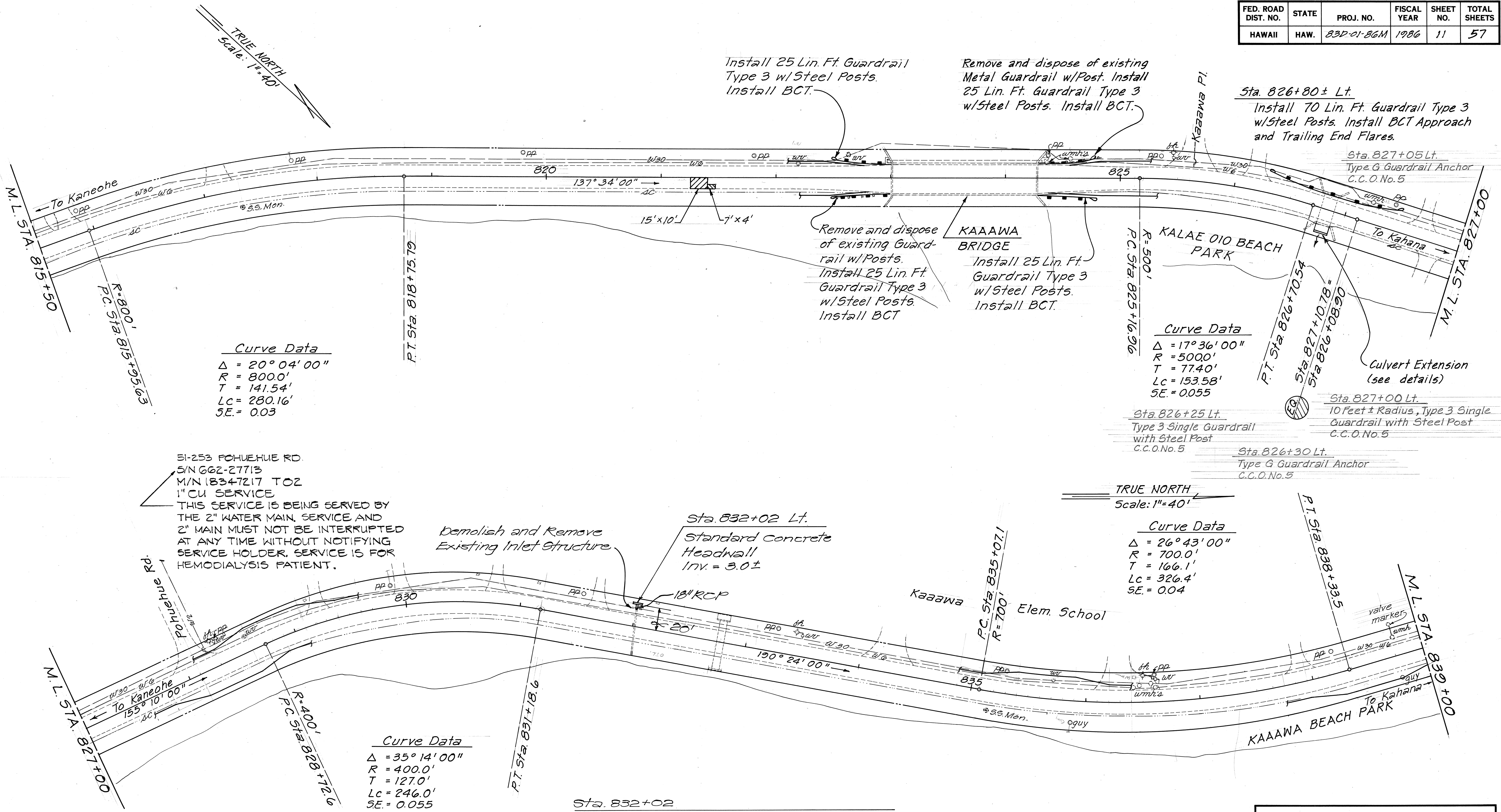
DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

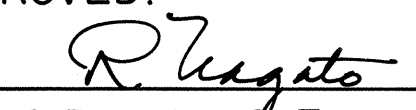
ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Kualoa to Lau Place
PROJECT No. 83D-01-86M
Scale: 1"=40' Date: Feb. 1986
SHEET No. 4 OF 7 SHEETS

APPROVED: R. Hagita 5-28-86
Chief, Planning & Engineering, BWS Date

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-86M	1986	11	57



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

APPROVED:

 Chief, Planning & Engineering, BWS 6-28-86
 Date

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

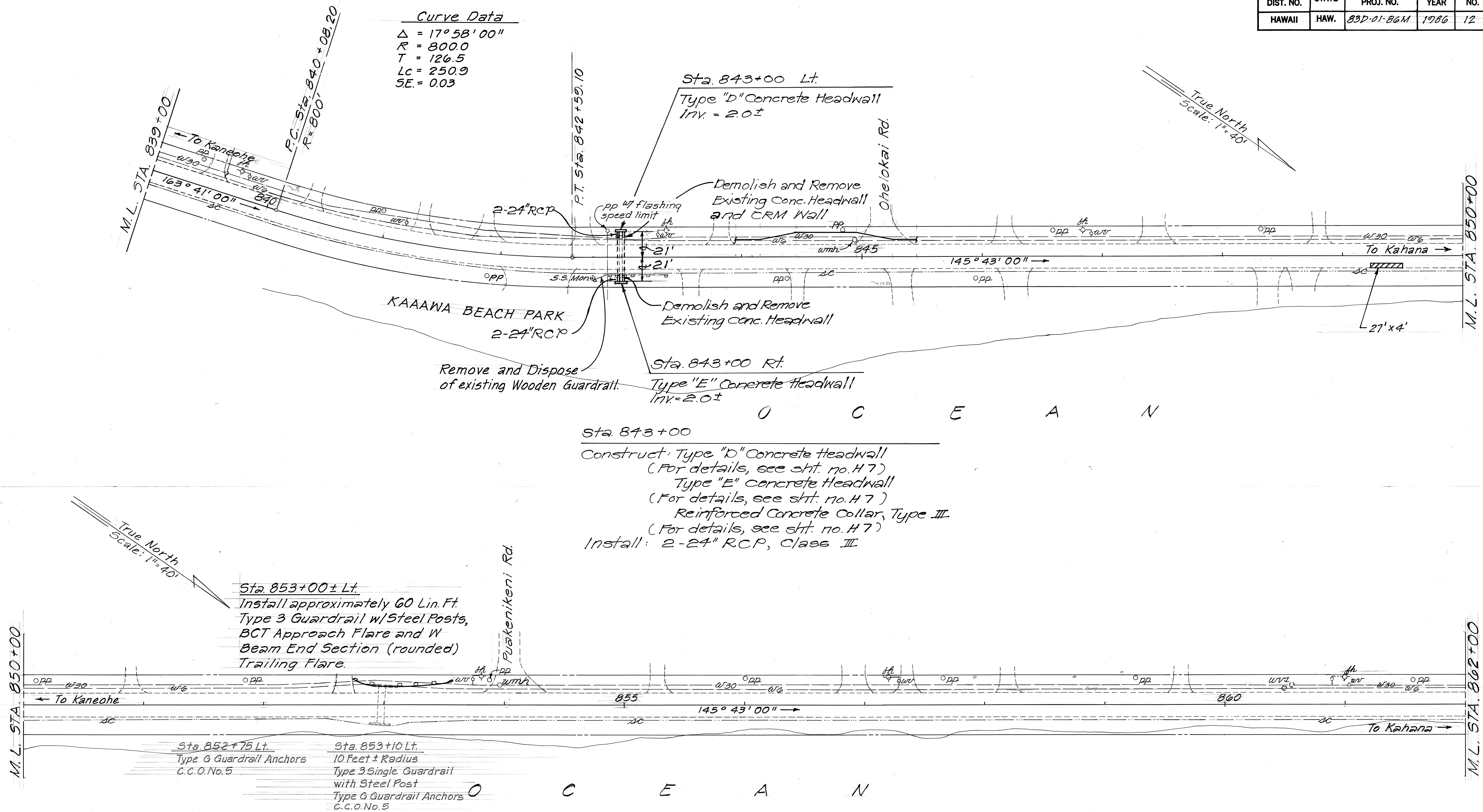
ROADWAY PLANS

KAMEHAMEHA HIGHWAY RESURFACING
 Kualoa to Lau Place
 PROJECT No. 83D-01-86M

Scale: 1"=40' Date: Feb. 1986
 SHEET No. 5 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-86M	1986	12	57

Curve Data
 $\Delta = 17^{\circ}58'00''$
 $R = 800.0$
 $T = 126.5$
 $Lc = 250.9$
 $SE = 0.03$



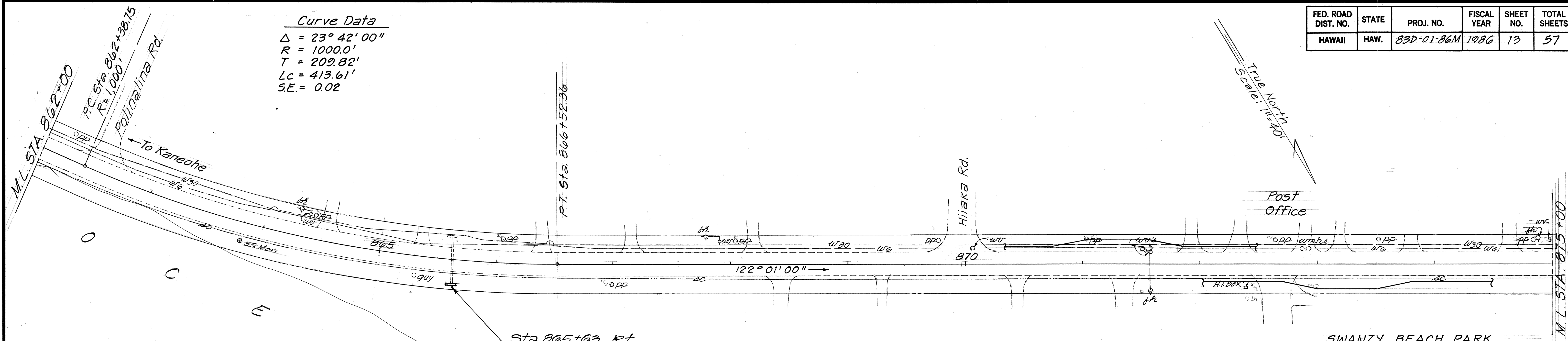
APPROVED: R. Ugata 5-28-86
 Chief, Planning & Engineering, BWS Date

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
ROADWAY PLANS
KAMEHAMEHA HIGHWAY RESURFACING
Kualoa to Lau Place
PROJECT No. 83D-01-86M
 Scale: 1"=40' Date: Feb. 1986
 SHEET No. 6 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-86M	1986	13	57

Curve Data

$\Delta = 23^\circ 42' 00''$
 $R = 1000.0'$
 $T = 209.82'$
 $Lc = 413.61'$
 $SE = 0.02$



Sta. 865+63

Construct Modified Concrete Headwall
(For details, see sht. no. H2)

END PROJECT
@ STA. 889+50±

Sta. 887+40

Construct Type "A" Grated Drop Inlet
(For details, see sht. no. H3)
Reinforced Concrete Collar, Type I
(For details, see sht. no. H7)
Install: 18" RCP, Class III

Sta. 887+40 Lt.

Type "A" Grated Drop Inlet
Inv. = 2.5±
Demolish and Remove Existing
Grated Drop Inlet

Curve Data

$\Delta = 14^\circ 54' 00''$
 $R = 800.0'$
 $T = 104.61'$
 $Lc = 208.04'$
 $SE = 0.03$

Install approx. 45 lin. ft.
quardrail, type 3 w/steel
posts and W beam end
section (rounded) @
trailing end.

Remove & dispose
of exist. quardrail
w/ posts.
Install 25 lin. ft. quard-
rail, type 3 w/steel
posts.
Install BCT.

Kaaawa
Fire
Station

Remove & dispose
of exist. quardrail
w/ post.
Install 25 lin. ft.
quardrail type 3 w/ posts
Install BCT.

Station 881+70 Lt.
Type G Guardrail Anchors C.C.O. No. 5

APPROVED:

Chief, Planning & Engineering, BWS # Date

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
 ROADWAY PLANS
 KAMEHAMEHA HIGHWAY RESURFACING
 KUALOA TO LAU PLACE
 PROJECT No. 83D-01-86M
 Scale: 1" = 40' Date: Feb. 1986
 SHEET No. 7 OF 7 SHEETS