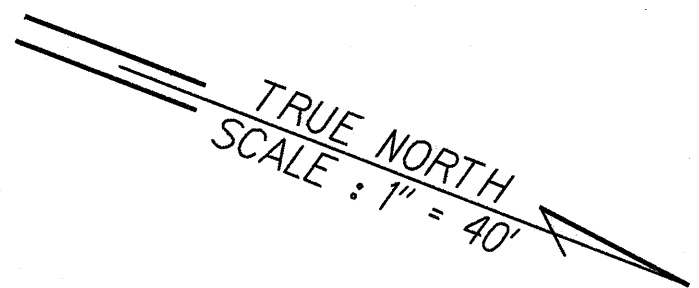
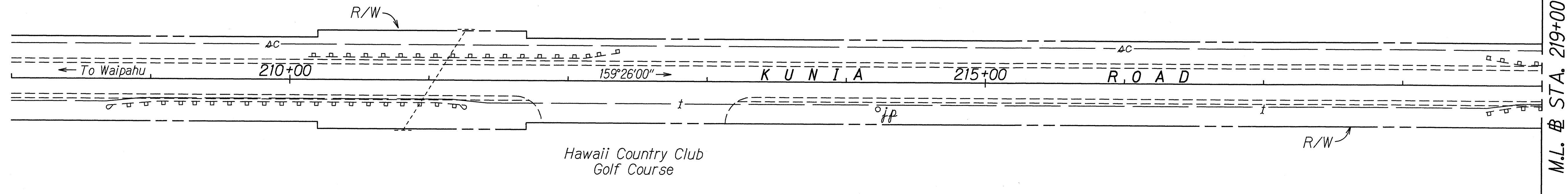
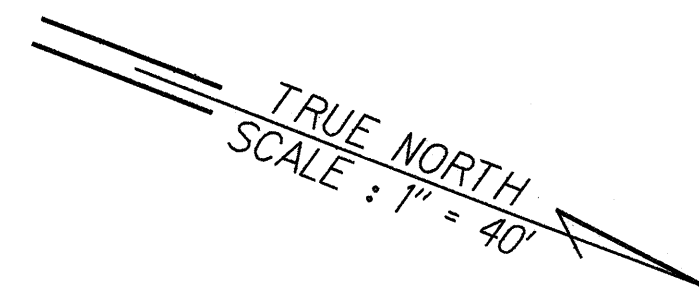
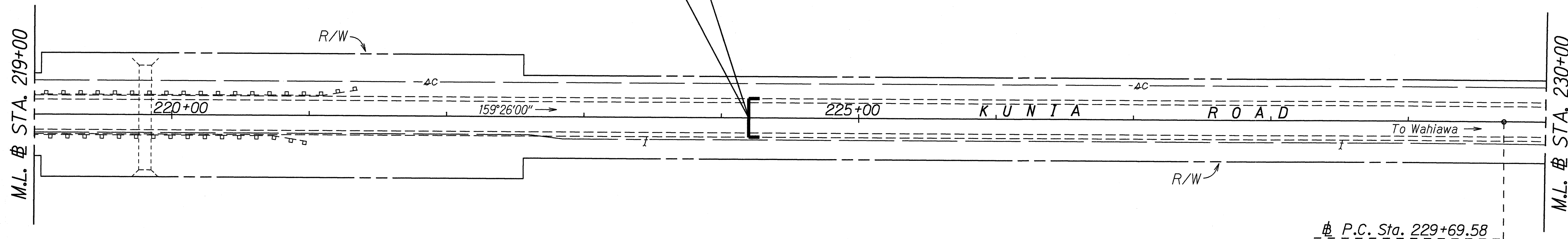


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0750(9)	1995	7	31



BEGIN PROJECT
F.A.P. No. STP-0750(9)
Sta. 224+20±



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY M. Homels	4/21/95
NOTES	CHECKED BY C. Chao	
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

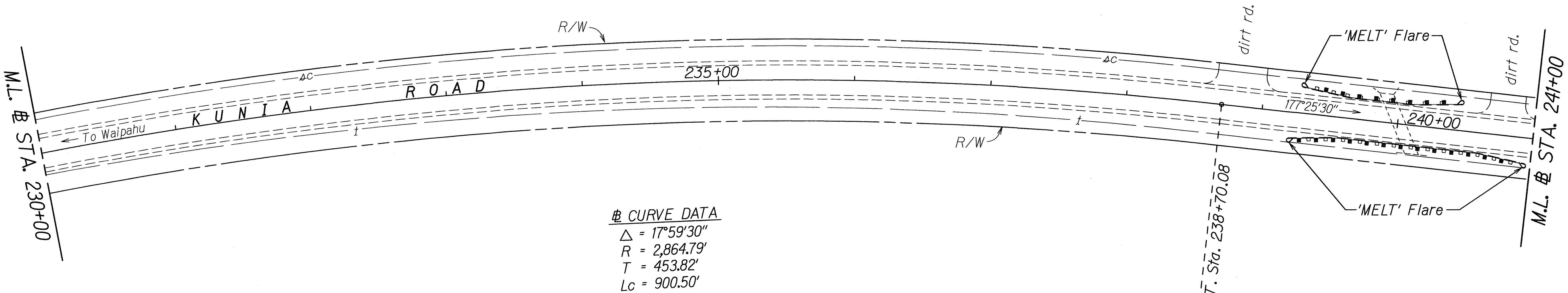
KUNIA ROAD RESURFACING
Hawaii Country Club to Kunia Gate
Fed. Aid Project No. STP-0750(9)

Scale: 1"=40' Date: April, 1995

SHEET No. 7 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0750(9)	1995	8	31

TRUE NORTH
SCALE : 1" = 40'



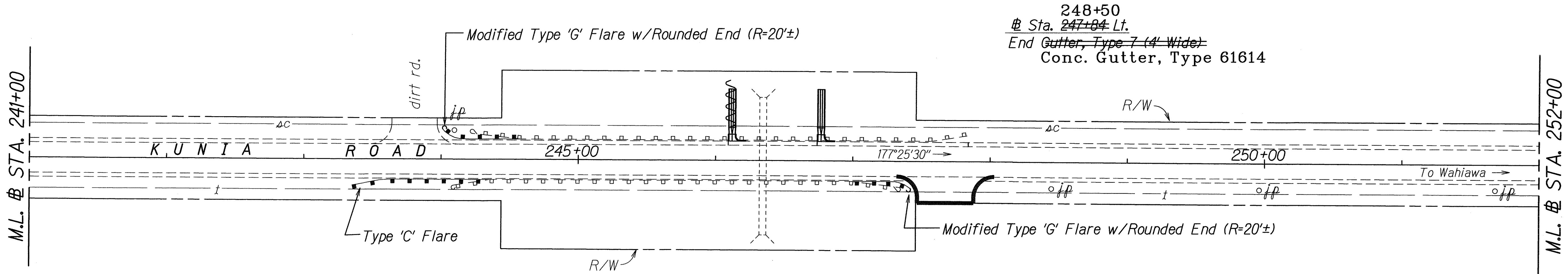
Sta. 239+25± Lt. to Sta. 240+50± Lt.
Remove 125± L.F. of exist. guardrail w/post
Install 65± L.F. of Guardrail, Type 3-Single
w/Steel Post & 2-'MELT' Flares. See Plan
Sht. Nos. 18 - 20 for 'MELT' Details.

Sta. 244+00± Lt. to Sta. 244+60± Lt.
Remove exist. 'BCT' flare. Install and Connect to exist.
75± L.F. of Guardrail, Type 3-Single w/Steel Post &
1-Modified Type 'G' Flare w/Rounded End.

246+74
Sta. 246+12 Lt.
Type I Concrete Spillway Inlet
and 1'-6"x1'-6" Lined Trapezoidal
Drainage Ditch
(For Detail See Plan Sht. No. 17)
Begin Gutter, Type 7 (4' wide)
Conc. Gutter, Type 61614

Sta. 239+20± Rt. to Sta. 240+95± Rt.
Remove 175± L.F. of exist. guardrail w/post
Install 115± L.F. of Guardrail, Type 3-Single
w/Steel Post & 2-'MELT' Flares. See Plan
Sht. Nos. 18 - 20 for 'MELT' Details.

TRUE NORTH
SCALE : 1" = 40'



248+50
Sta. 247+84 Lt.
End Gutter, Type 7 (4' Wide)
Conc. Gutter, Type 61614

Sta. 243+35± Rt. to Sta. 244+40± Rt.
Remove exist. 'BCT' flare. Install and Connect to exist.
150± L.F. of Guardrail, Type 3-Single w/Steel Post &
1-Modified Type 'C' Flare.

Sta. 247+00± Rt. to Sta. 247+40± Rt.
Remove exist. 'BCT' flare. Install and Connect to exist.
50± L.F. of Guardrail, Type 3-Single w/Steel Post &
1-Modified Type 'G' Flare w/Rounded End.

LEGEND FOR AS-BUILT POSTINGS

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

KUNIA ROAD RESURFACING

Hawaii Country Club to Kunia Gate

Fed. Aid Project No. STP-0750(9)

Scale: 1"=40' Date: April, 1995

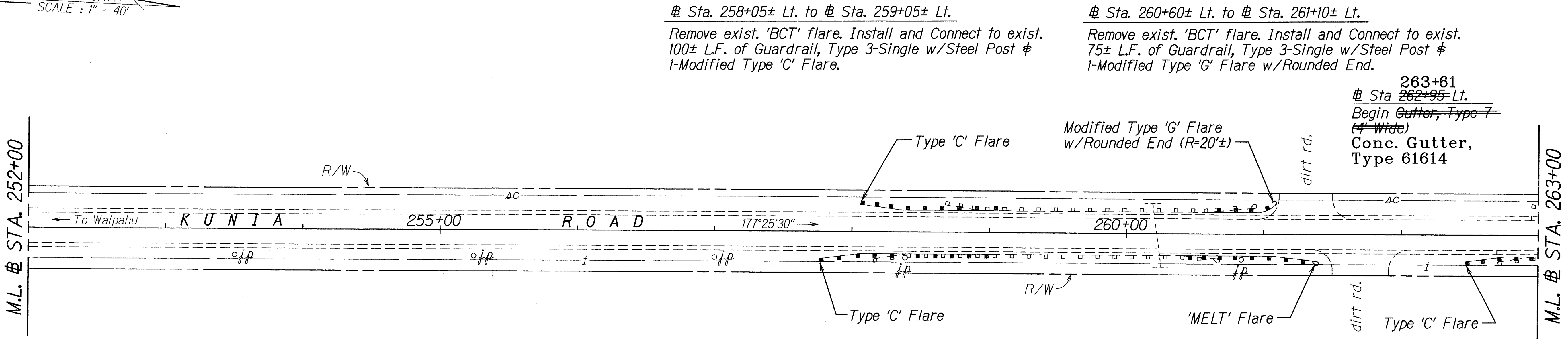
SHEET No. **A2** OF **9** SHEETS

ORIGINAL PLAN	DATE: 4/2/95
SURVEY PLOTTED BY: [Signature]	DESIGNED BY: C. Chao
TRACED BY: [Signature]	CHECKED BY: [Signature]
NOTE BOOK	QUANTITIES BY: [Signature]
NO. 240002	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0750(9)	1995	9	31

TRUE NORTH
SCALE : 1" = 40'



Sta. 258+05± Lt. to Sta. 259+05± Lt.
Remove exist. 'BCT' flare. Install and Connect to exist. 100± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-Modified Type 'C' Flare.

Sta. 260+60± Lt. to Sta. 261+10± Lt.
Remove exist. 'BCT' flare. Install and Connect to exist. 75± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-Modified Type 'G' Flare w/Rounded End.

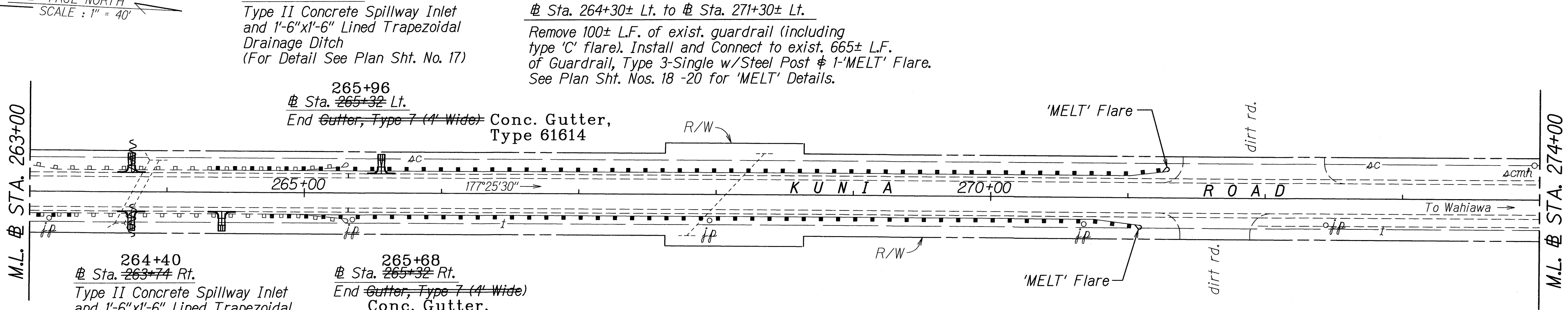
Sta. 257+75± Rt. to Sta. 259+00± Rt.
Remove 85± L.F. of exist. guardrail (including type 'C' flare). Install and Connect to exist. 125± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-Type 'C' Flare.

Sta. 260+35± Rt. to Sta. 261+40± Rt.
Remove exist. 'BCT' flare. Install and Connect to exist. 75± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-'MELT' Flare. See Plan Sht. Nos. 18 -20 for 'MELT' Details.

Sta. 262+45± Rt. to Sta. 263+35± Rt.
Remove 60± L.F. of exist. guardrail (including type 'C' flare). Install and Connect to exist. 90± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-Type 'C' Flare.

263+05
Sta. 262+70± Rt.
Begin Gutter, Type 7 (4' Wide) Conc. Gutter, Type 61614

TRUE NORTH
SCALE : 1" = 40'



Sta. 264+30± Lt. to Sta. 271+30± Lt.
Remove 100± L.F. of exist. guardrail (including type 'C' flare). Install and Connect to exist. 665± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-'MELT' Flare. See Plan Sht. Nos. 18 -20 for 'MELT' Details.

264+40
Sta. 263+74± Rt.
Type II Concrete Spillway Inlet and 1'-6"x1'-6" Lined Trapezoidal Drainage Ditch
(For Detail See Plan Sht. No. 17)

265+68
Sta. 265+32± Rt.
End Gutter, Type 7 (4' Wide) Conc. Gutter, Type 61614

Sta. 264+70± Rt. to Sta. 271+10± Rt.
Remove 60± L.F. of exist. guardrail (including 'BCT' flare). Install and Connect to exist. 600± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-'MELT' Flare. See Plan Sht. Nos. 18 -20 for 'MELT' Details.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

KUNIA ROAD RESURFACING
Hawaii Country Club to Kunia Gate
Fed. Aid Project No. STP-0750(9)

Scale: 1"=40'

Date: April, 1995

SHEET No. A3 OF 9 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	4/21/95
TRACED BY	
CHECKED BY	
NOTED BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
admm	
4/21/95	

"AS-BUILT"

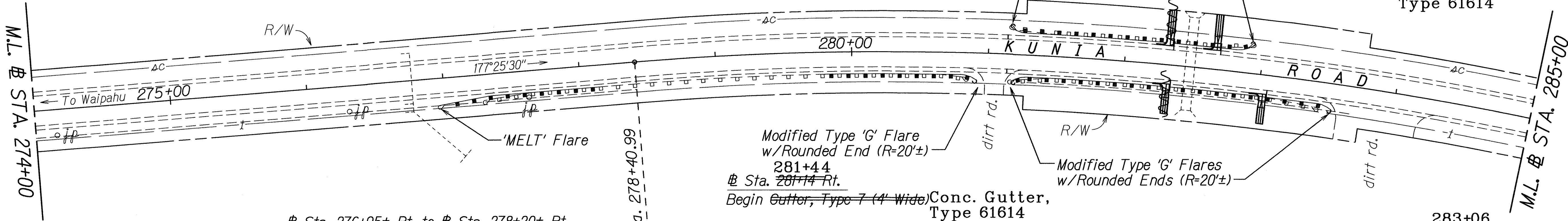
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0750(9)	1995	10	31

TRUE NORTH
SCALE : 1" = 40'

Ⓢ CURVE DATA
 $\Delta = 22^{\circ}50'$
 $R = 2,291.83'$
 $T = 462.80'$
 $L_c = 913.32'$

Ⓢ Sta. 281+15± Lt. to Ⓢ Sta. 282+95± Lt.
 Remove 190± L.F. of exist. guardrail.
 Install 190± L.F. of Guardrail, Type 3-Single
 w/2-Modified Type 'G' Flares w/Rounded Ends.

282+66
Ⓢ Sta. 282+32-Lt.
 Type I Concrete Spillway Inlet
 and 1'-6"x1'-6" Lined Trapezoidal
 Drainage Ditch
 (For Detail See Plan Sht. No. 17)
 End ~~Gutter, Type 7 (4' Wide)~~
 Conc. Gutter,
 Type 61614



Ⓢ Sta. 276+95± Rt. to Ⓢ Sta. 278+20± Rt.
 Remove 90± L.F. of exist. guardrail (including
 'BCT' flare). Install and Connect to exist.,
 90± L.F. of Guardrail, Type 3-Single
 w/Steel Post & 1-'MELT' Flares. See
 Plan Sht. Nos. 18 -20 for 'MELT' Details.

Ⓢ Sta. 279+80± Rt. to Ⓢ Sta. 280+95± Rt.
 Remove 100± L.F. of exist. guardrail.
 Install and connect to exist., 125± L.F. of Guardrail,
 Type 3-Single w/Steel Post & 1-Modified Type 'G'
 Flare w/Rounded End.

Ⓢ Sta. 281+15± Rt. to Ⓢ Sta. 283+55± Rt.
 Remove 225± L.F. of exist. guardrail.
 Install 225± L.F. of Guardrail, Type 3-Single
 w/Steel Post & 2-Modified Type 'G' Flares
 w/Rounded Ends.

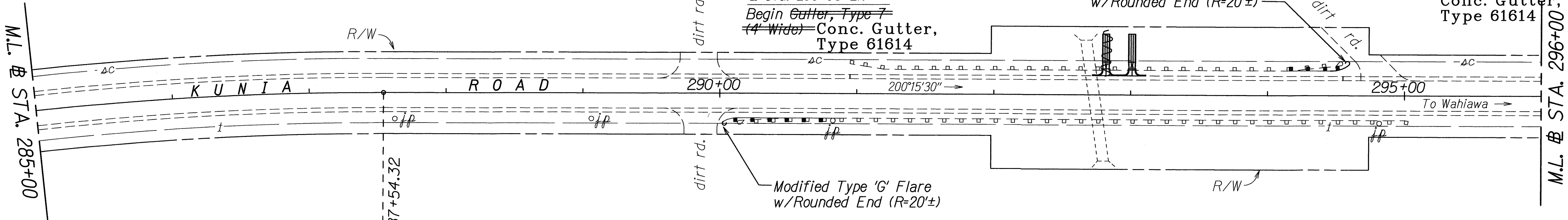
283+06
Ⓢ Sta. 282+32 Rt.
 Type I Concrete Spillway Inlet
 and 1'-6"x1'-6" Lined Trapezoidal
 Drainage Ditch
 (For Detail See Plan Sht. No. 17)
 End ~~Gutter, Type 7 (4' Wide)~~
 Conc. Gutter,
 Type 61614

TRUE NORTH
SCALE : 1" = 40'

293+01
Ⓢ Sta. 292+82 Lt.
 Type II Concrete Spillway Inlet
 and 1'-6"x1'-6" Lined Trapezoidal
 Drainage Ditch
 (For Detail See Plan Sht. No. 17)

Ⓢ Sta. 294+15± Lt. to Ⓢ Sta. 294+60± Lt.
 Remove exist. 'BCT' flare. Install and Connect to exist.
 50± L.F. of Guardrail, Type 3-Single w/Steel Post &
 1-Modified Type 'G' Flare w/Rounded End.

294+05
Ⓢ Sta. 294+55 Lt.
 End ~~Gutter, Type 7 (4' Wide)~~
 Conc. Gutter,
 Type 61614



Ⓢ Sta. 290+00± Rt. to Ⓢ Sta. 290+85± Rt.
 Remove 70± L.F. of exist. guardrail (Including 'BCT' flare).
 Install and Connect to exist., 85± L.F. of Guardrail, Type 3-Single
 w/Steel Post & 1-Modified Type 'G' Flare w/Rounded Ends.

LEGEND FOR AS-BUILT POSTINGS

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### PLAN

**KUNIA ROAD RESURFACING**  
**Hawaii Country Club to Kunia Gate**  
**Fed. Aid Project No. STP-0750(9)**

Scale: 1"=40' Date: April, 1995

SHEET No. **A4** OF **9** SHEETS

"AS-BUILT"

10

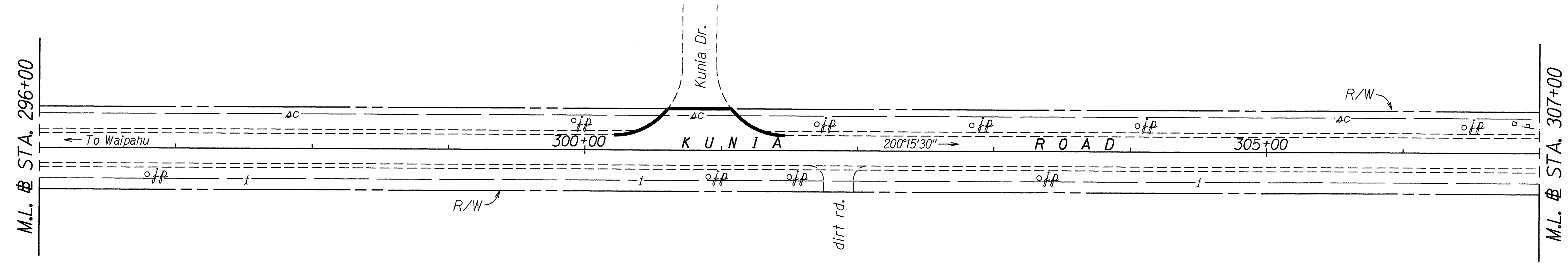
|                   |         |
|-------------------|---------|
| SURVEY PLOTTED BY | DATE    |
| DRAWN BY          | 4-21-95 |
| TRACED BY         |         |
| NOTED BY          |         |
| QUANTITIES BY     |         |
| CHECKED BY        |         |

|               |      |
|---------------|------|
| ORIGINAL PLAN | DATE |
| NOTE BOOK     |      |
| QUANTITIES BY |      |
| CHECKED BY    |      |



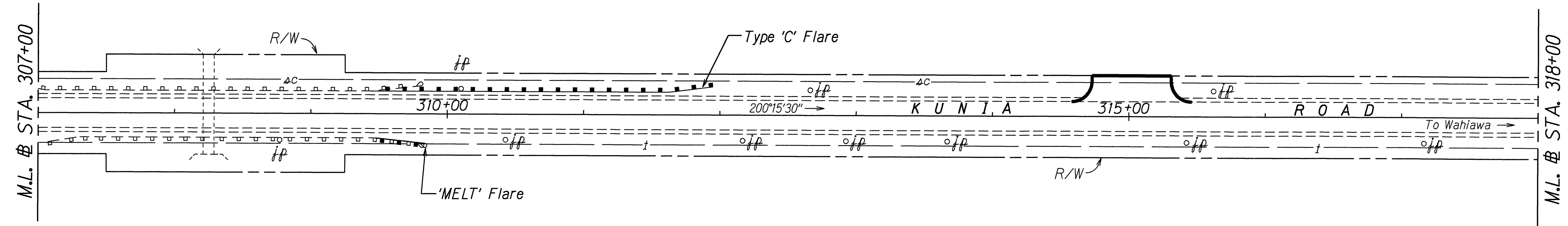
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0750(9)        | 1995        | 11        | 31           |

TRUE NORTH  
SCALE : 1" = 40'



TRUE NORTH  
SCALE : 1" = 40'

Sta. 309+45± Lt. to Sta. 311+95± Lt.  
Remove exist. 'BCT' flare. Install and Connect to exist., 250± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-Modified Type 'C' Flare.



Sta. 309+45± Rt. to Sta. 309+80± Rt.  
Remove exist. 'BCT' flare. Install and Connect to exist. guardrail, 1-'MELT' Flare. See Plan Sht. Nos. 18 - 20 for 'MELT' Details.

|               |                     |         |
|---------------|---------------------|---------|
| ORIGINAL PLAN | SURVEY PLOTTED BY   | DATE    |
| NOTE BOOK     | DRAWN BY M. Howells | 4/21/95 |
| adlmh         | CHECKED BY C. Chaga |         |
| N. 200005     | QUANTITIES BY       |         |
|               | CHECKED BY          |         |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### PLAN

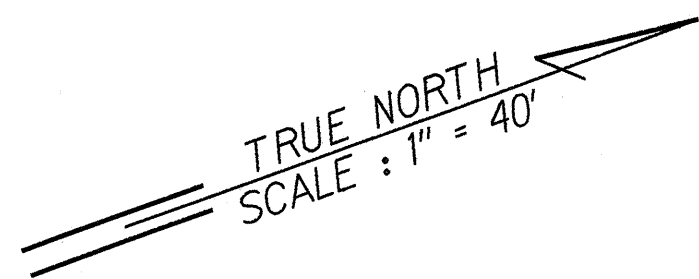
KUNIA ROAD RESURFACING  
Hawaii Country Club to Kunia Gate  
Fed. Aid Project No. STP-0750(9)

Scale: 1"=40'
Date: April, 1995

SHEET No. A5 OF 9 SHEETS



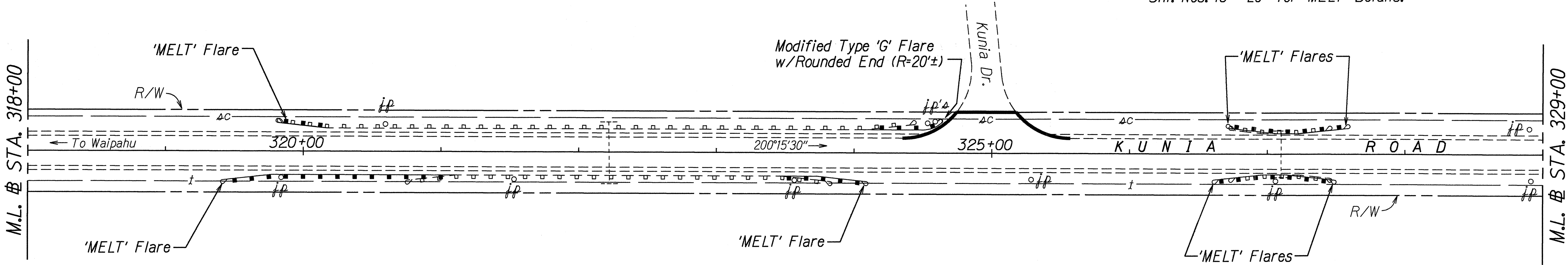
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0750(9)        | 1995        | 12        | 31           |



Sta. 319+80± Lt. to Sta. 320+15± Lt.  
Remove exist. 'BCT' flare. Install and Connect to exist. guardrail, 1-'MELT' Flare. See Plan Sht. Nos. 18 - 20 for 'MELT' Details.

Sta. 324+10± Lt. to Sta. 324+65± Lt.  
Remove exist. 'BCT' flare. Install and Connect to exist. 65± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-Modified Type 'G' Flare w/Rounded End.

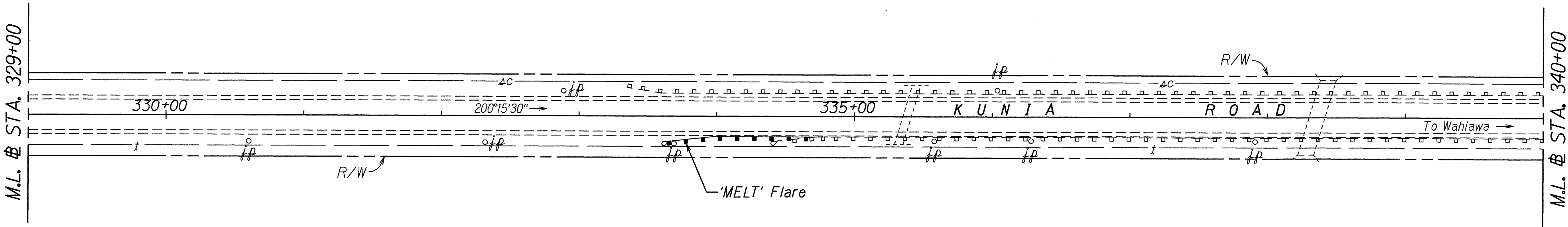
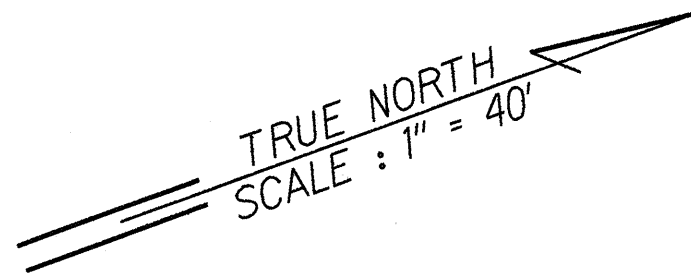
Sta. 326+70± Lt. to Sta. 327+60± Lt.  
Remove 75± L.F. of exist. guardrail. Install 25± L.F. of Guardrail, Type 3-Single w/Steel Post & 2-'MELT' Flares. See Plan Sht. Nos. 18 - 20 for 'MELT' Details.



Sta. 319+40± Rt. to Sta. 321+05± Rt.  
Remove exist. 'BCT' flare. Install and Connect to exist. 135± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-'MELT' Flare. See Plan Sht. Nos. 18 - 20 for 'MELT' Details.

Sta. 323+45± Rt. to Sta. 324+10± Rt.  
Remove exist. 'BCT' flare. Install and Connect to exist. 35± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-'MELT' Flare. See Plan Sht. Nos. 18 - 20 for 'MELT' Details.

Sta. 326+60± Rt. to Sta. 327+50± Rt.  
Remove 75± L.F. of exist. guardrail. Install 25± L.F. of Guardrail, Type 3-Single w/Steel Post & 2-'MELT' Flares. See Plan Sht. Nos. 18 - 20 for 'MELT' Details.



Sta. 333+60± Rt. to Sta. 334+75± Rt.  
Remove exist. 'BCT' flare. Install and Connect to exist. 85± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-'MELT' Flare. See Plan Sht. Nos. 18 - 20 for 'MELT' Details.

|               |                   |        |
|---------------|-------------------|--------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE   |
| NOTE BOOK     | DRAWN BY          | 4/2/95 |
| adlmh         | CHECKED BY        |        |
| N. 2/undp6    |                   |        |

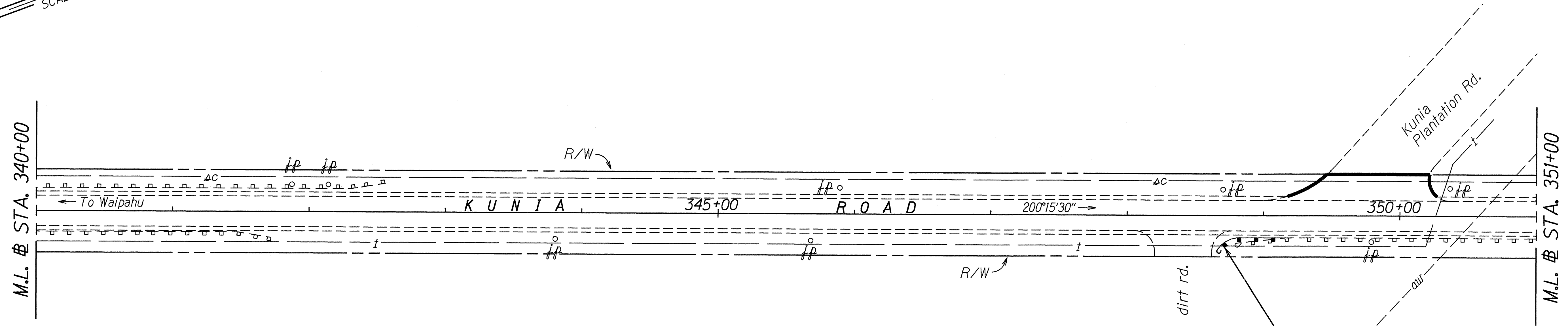
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PLAN**  
  
**KUNIA ROAD RESURFACING**  
Hawaii Country Club to Kunia Gate  
Fed. Aid Project No. STP-0750(9)  
Scale: 1"=40'      Date: April, 1995  
SHEET No. A6 OF 9 SHEETS



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0750(9)        | 1995        | 13        | 31           |

TRUE NORTH  
SCALE : 1" = 40'

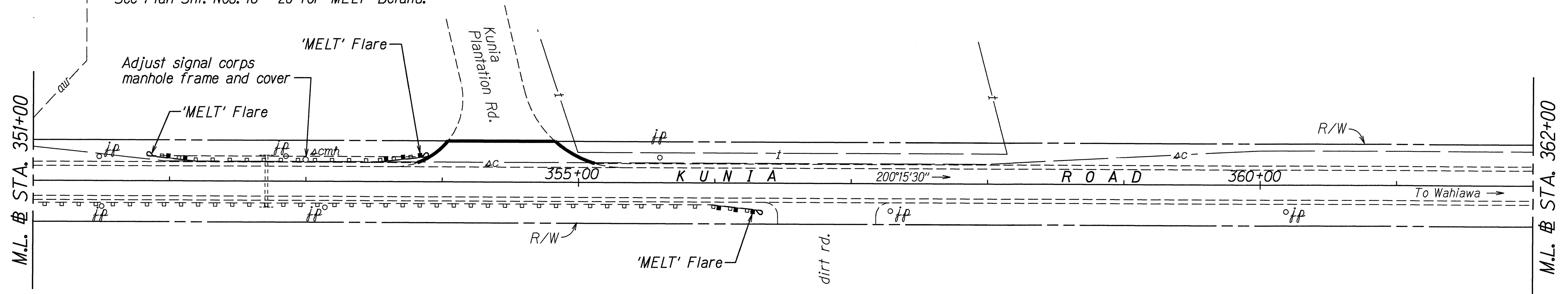


Sta. 353+55± Lt. to Sta. 353+90± Lt.  
Remove exist. BCT flare. Install and  
Connect to exist. guardrail. 1-'MELT' Flare.  
See Plan Sht. Nos. 18 -20 for 'MELT' Details.

Sta. 348+65± Rt. to Sta. 349+15± Rt.  
Remove exist. BCT flare. Install and Connect to exist.  
65± L.F. of Guardrail, Type 3-Single w/Steel Post &  
1-Modified Type 'G' Flare w/Rounded End.

TRUE NORTH  
SCALE : 1" = 40'

Sta. 351+90± Lt. to Sta. 352+25± Lt.  
Remove exist. BCT flare. Install and  
Connect to exist. guardrail. 1-'MELT' Flare.  
See Plan Sht. Nos. 18 - 20 for 'MELT' Details.



Sta. 356+00± Rt. to Sta. 357+35± Rt.  
Remove exist. BCT flare. Install and  
Connect to exist. guardrail. 1-'MELT' Flare.  
See Plan Sht. Nos. 18 - 20 for 'MELT' Details.

|                   |         |
|-------------------|---------|
| SURVEY PLOTTED BY | DATE    |
| DRAWN BY          | 4-21-95 |
| NOTED BY          |         |
| CHECKED BY        |         |
| ORIGINAL PLAN     |         |
| NOTE BOOK         |         |
| NO. 200007        |         |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

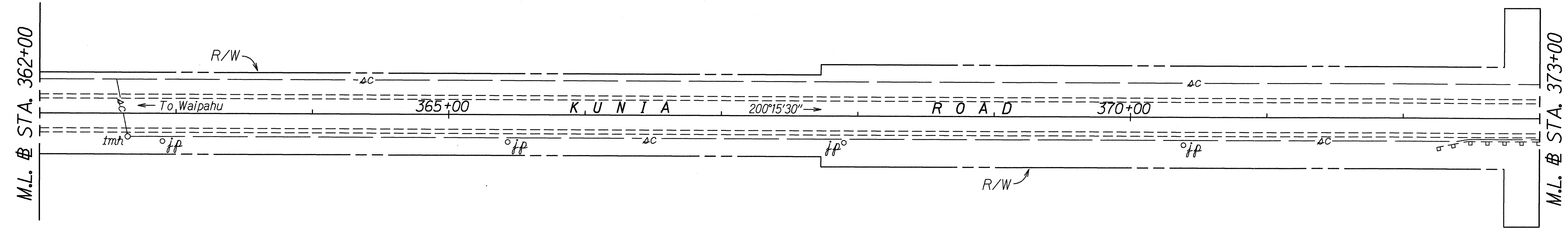
**PLAN**  
  
**KUNIA ROAD RESURFACING**  
**Hawaii Country Club to Kunia Gate**  
**Fed. Aid Project No. STP-0750(9)**  
Scale: 1"=40'      Date: April, 1995

SHEET No. A7 OF 9 SHEETS



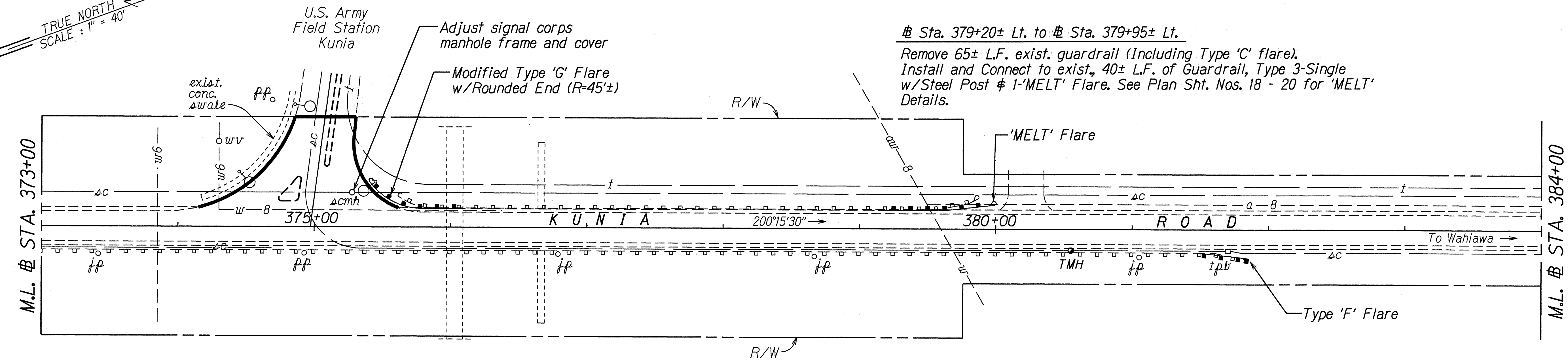
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0750(9)        | 1995        | 14        | 31           |

TRUE NORTH  
SCALE : 1" = 40'



Sta. 375+40± Lt. to Sta. 376+10± Lt.  
Remove 50± L.F. exist. guardrail (Including 'BCT' flare).  
Install and Connect to exist. 65± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-Modified Type 'G' Flare w/Rounded End.

TRUE NORTH  
SCALE : 1" = 40'



Sta. 379+20± Lt. to Sta. 379+95± Lt.  
Remove 65± L.F. exist. guardrail (Including Type 'C' flare).  
Install and Connect to exist. 40± L.F. of Guardrail, Type 3-Single w/Steel Post & 1-'MELT' Flare. See Plan Sht. Nos. 18 - 20 for 'MELT' Details.

Sta. 381+60± Rt. to Sta. 381+85± Rt.  
Remove 25± L.F. exist. guardrail (Including Type 'F' flare).  
Install and Connect to exist. 50± L.F. of Guardrail, Type 3-Single w/Steel Post & 1- Type 'F' Flare.

|               |                   |         |
|---------------|-------------------|---------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE    |
| NOTES BOOK    | DRAWN BY          | 4/21/95 |
| DATE          | CHECKED BY        |         |
| 4/21/95       |                   |         |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### PLAN

#### KUNIA ROAD RESURFACING

Hawaii Country Club to Kunia Gate

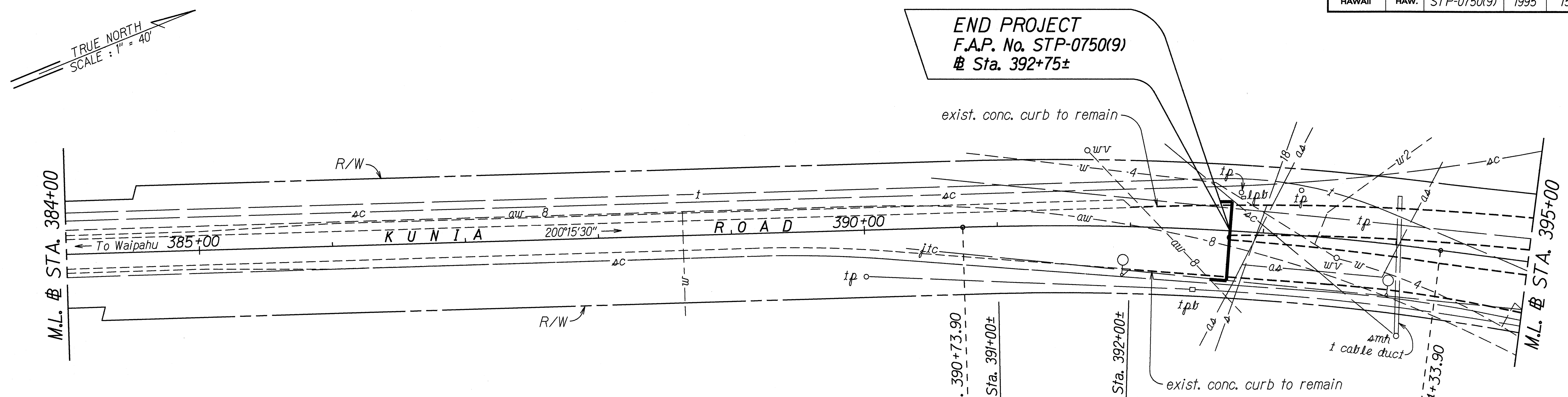
Fed. Aid Project No. STP-0750(9)

Scale: 1"=40'      Date: April, 1995

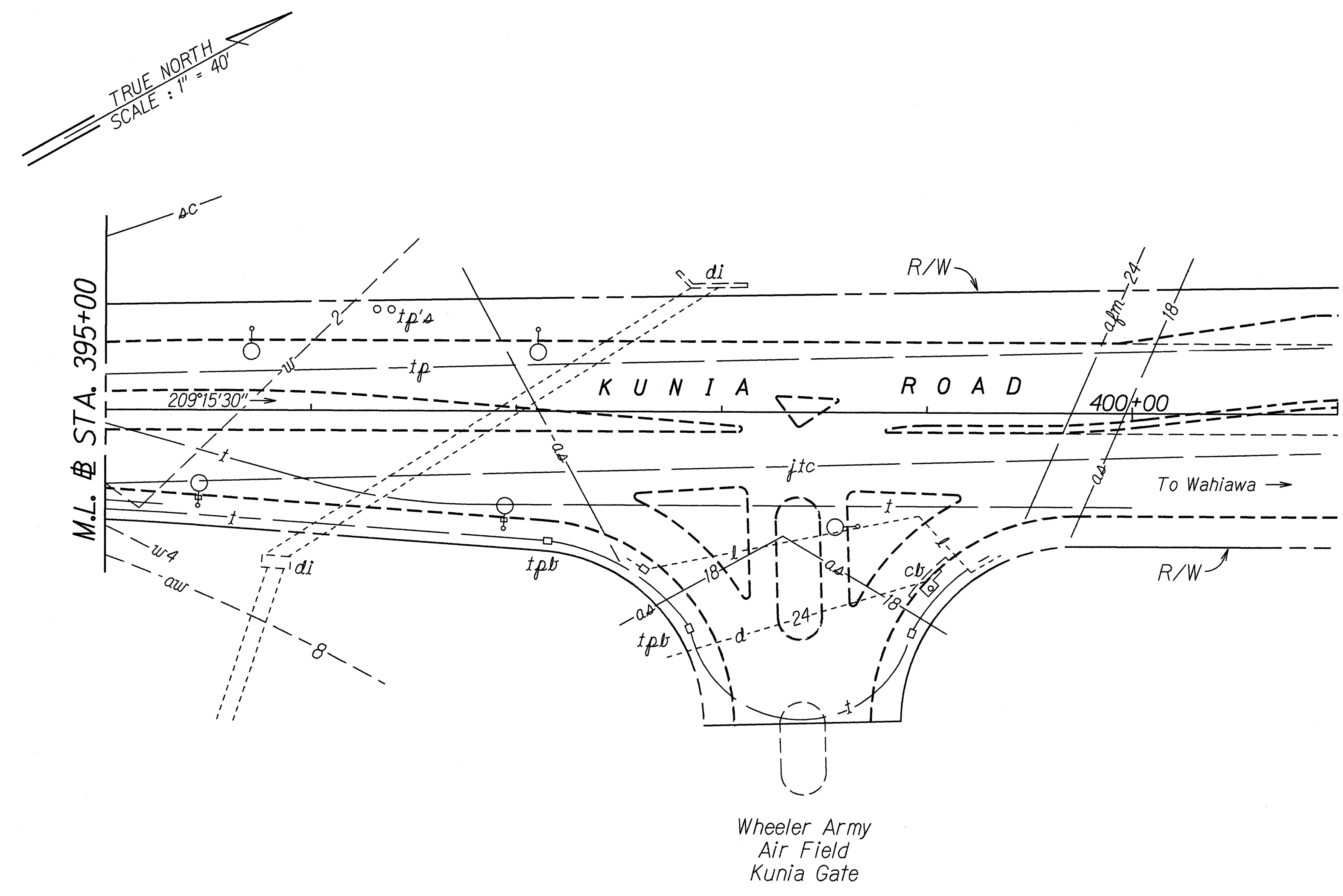
SHEET No. A8 OF 9 SHEETS



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0750(9)        | 1995        | 15        | 31           |



**CURVE DATA**  
 $\Delta = 9^{\circ}00'$   
 $R = 2,291.83'$   
 $T = 180.37'$   
 $L_c = 360.00'$   
 $S. E. = 0.015 \text{ ft/ft}$



|                   |            |
|-------------------|------------|
| ORIGINAL PLAN     | DATE       |
| SURVEY PLOTTED BY | 4/7/95     |
| DRAWN BY          | M. Howells |
| NOTED BY          | C. Chana   |
| CHECKED BY        | adlmh      |
|                   | N. 2/undp9 |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PLAN**  
**KUNIA ROAD RESURFACING**  
**Hawaii Country Club to Kunia Gate**  
**Fed. Aid Project No. STP-0750(9)**  
Scale: 1"=40'      Date: April, 1995

SHEET No. A9 OF 9 SHEETS