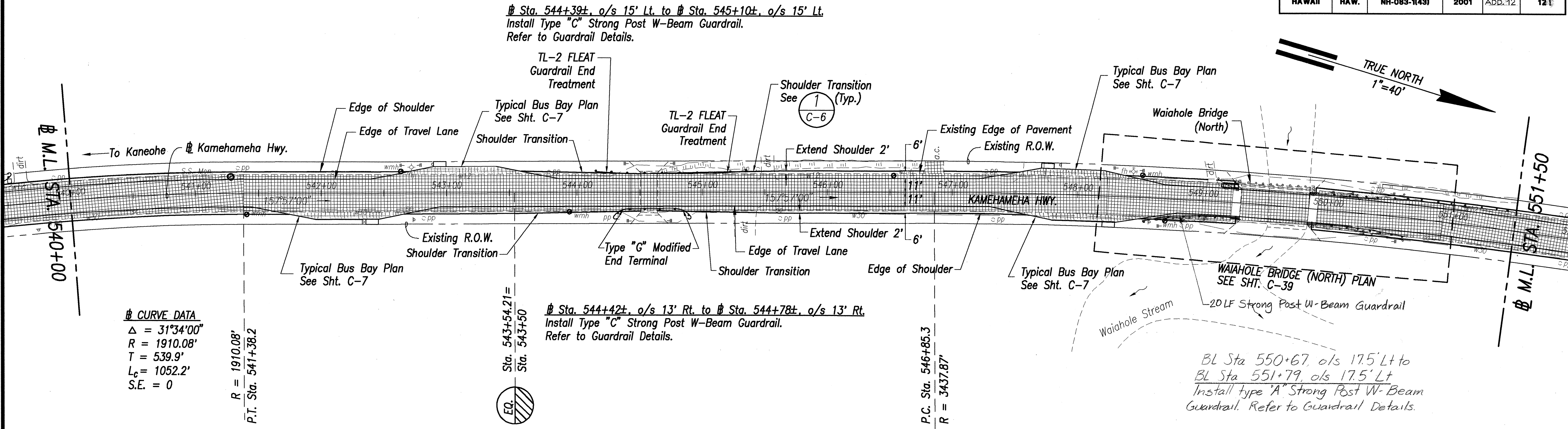


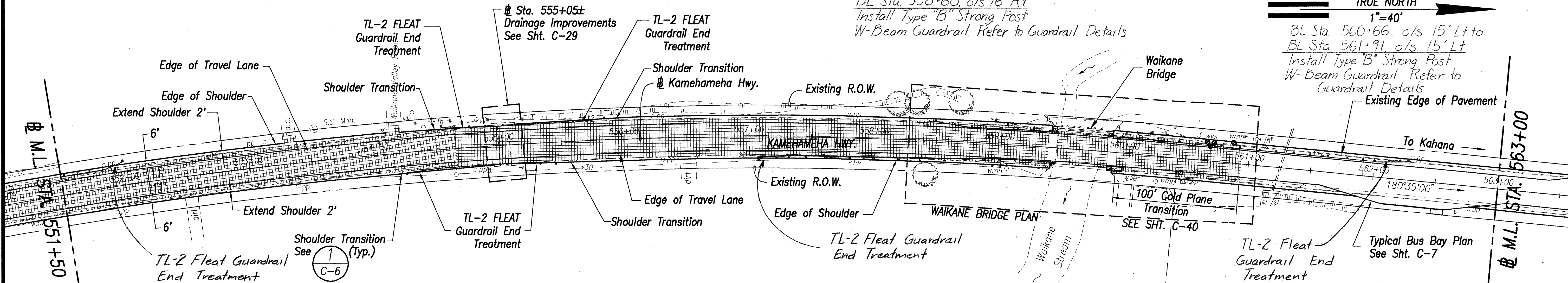
[illegible]

C.O. ADD. 11

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD.12	12



Sta. 554+00±, o/s 16' Lt. to # Sta. 555+60±, o/s 16' Lt.
 Install Double Nested Thrie Beam/Type "C" Strong Post W-Beam Guardrail.
 Refer to Sht. S-25A.

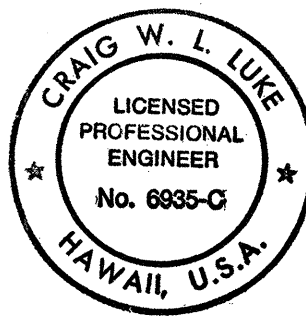


Sta. 554+50±, o/s 14' Rt. to # Sta. 555+30±, o/s 14' Rt.
 Install Double Nested Thrie Beam/Type "C" Strong
 Post W-Beam Guardrail. Refer to Sht. S-25A.

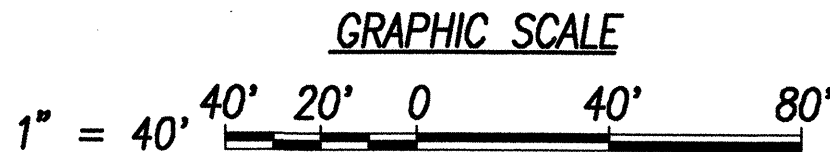
Guardrail Notes

- For Strong Post W-Beam Guardrail, See Sheet S-20 to S-22.
- For TL-2 FLEAT Guardrail End Treatment, See Sheet S-23.
- Provide 3' min. clearance from the edge of the guardrail post to the edge of the water line. Refer to Water Note 23 on Sheet C-3.

APPROVED:
 Catherine R. Dungca
 for Chief, Planning and Engineering, BWS
 (For Construction Within State R/W Only)
 7/30/01
 Date

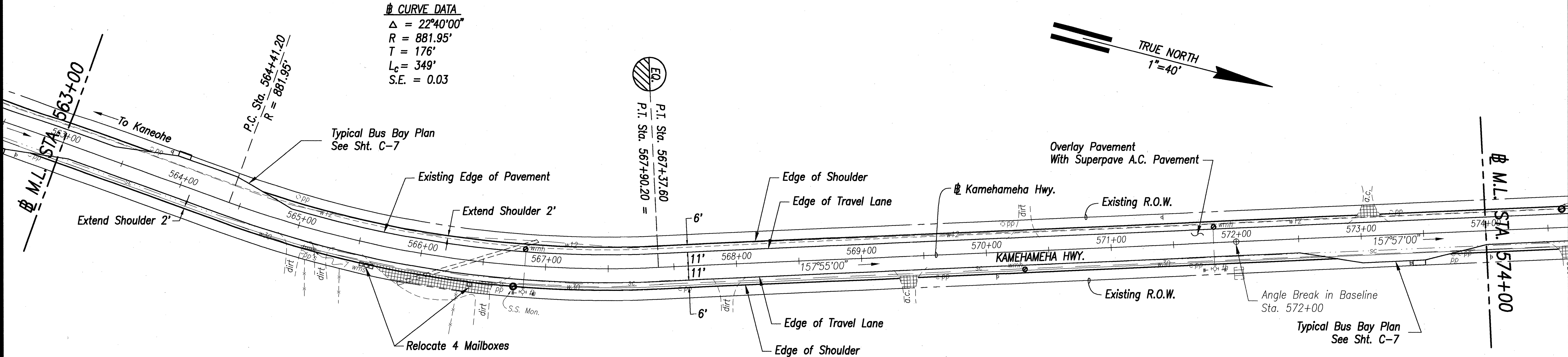


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLAN-2
 (# STA. 540+00 TO # STA. 563+00)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiahole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)

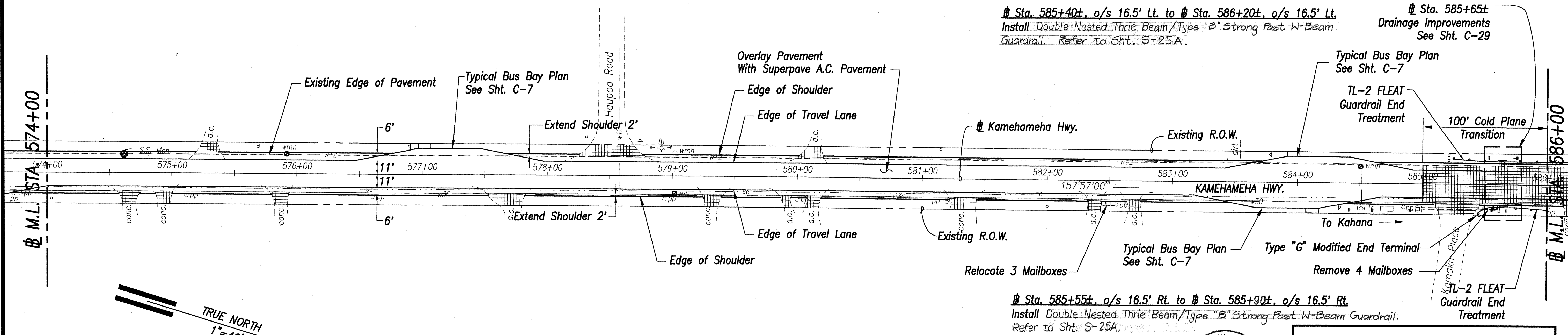


Scale: 1" = 40' Date: August 1, 2000

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 13	121



2/4/02	Revised Guardrail at Var. Culverts. Per Addendum No. 2
DATE	REVISION



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

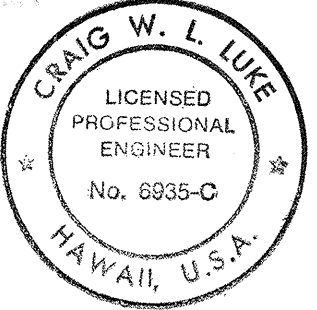
Guardrail Notes

- 1) For Strong Post W-Beam Guardrail, See Sheet S-20 to S-22.
- 2) For TL-2 FLEAT Guardrail End Treatment, See Sheet S-23.
- 3) For Type "G" Modified End Terminal, See Sheet S-24.
- 4) Provide 3' min. clearance from the edge of the guardrail post to the edge of the water line. Refer to Water Note 23 on Sheet C-3.

APPROVED:

Catherine R. Dungca
for Chief, Planning and Engineering, BWS
(For Construction Within State R/W Only)

9/14/00
Date



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

GRAPHIC SCALE

1" = 40' 40' 20' 0 40' 80'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN-3
(⊕ STA. 563+00 TO ⊕ STA. 586+00)

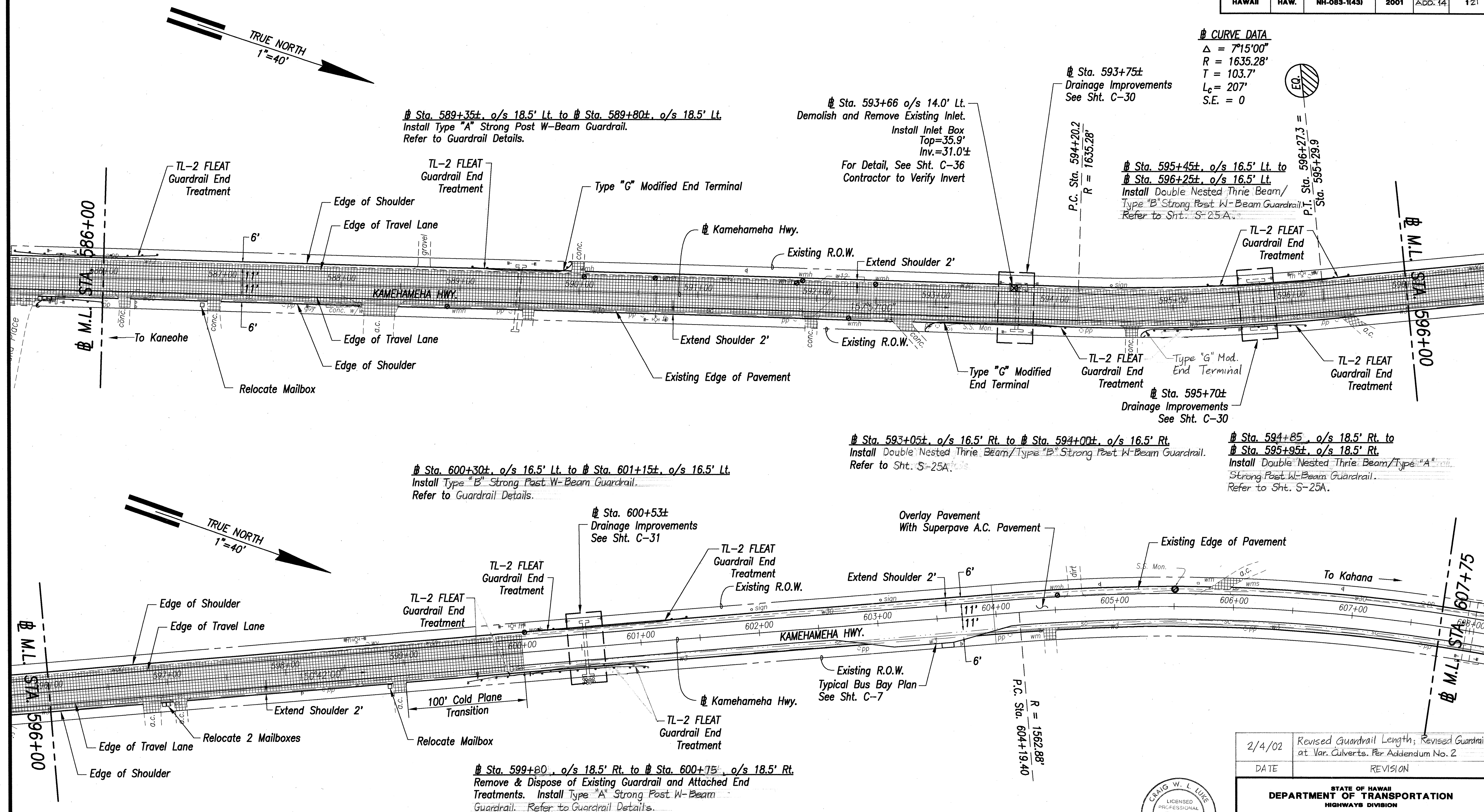
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

Scale: 1" = 40' Date: August 1, 2000

SHEET No. C-11 OF 74 SHEETS

ADD. 13

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 14	121

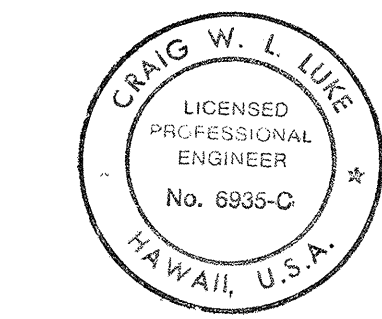
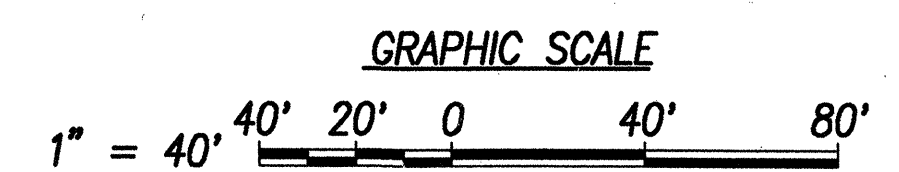


CURVE DATA
 $\Delta = 7^{\circ}15'00''$
 $R = 1635.28'$
 $T = 103.7'$
 $L_c = 207'$
 $S.E. = 0$

Guardrail Notes

- 1) For Strong Post W-Beam Guardrail, See Sheet S-20 to S-22.
- 2) For TL-2 FLEAT Guardrail End Treatment, See Sheet S-23.
- 3) For Type "G" Modified End Terminal, See Sheet S-24.
- 4) Provide 3' min. clearance from the edge of the guardrail post to the edge of the water line. Refer to Water Note 23 on Sheet C-3.

APPROVED:
Catherine R. Dungca
 for Chief, Planning and Engineering, BWS
 (For Construction Within State R/W Only)
 Date: 9/14/00

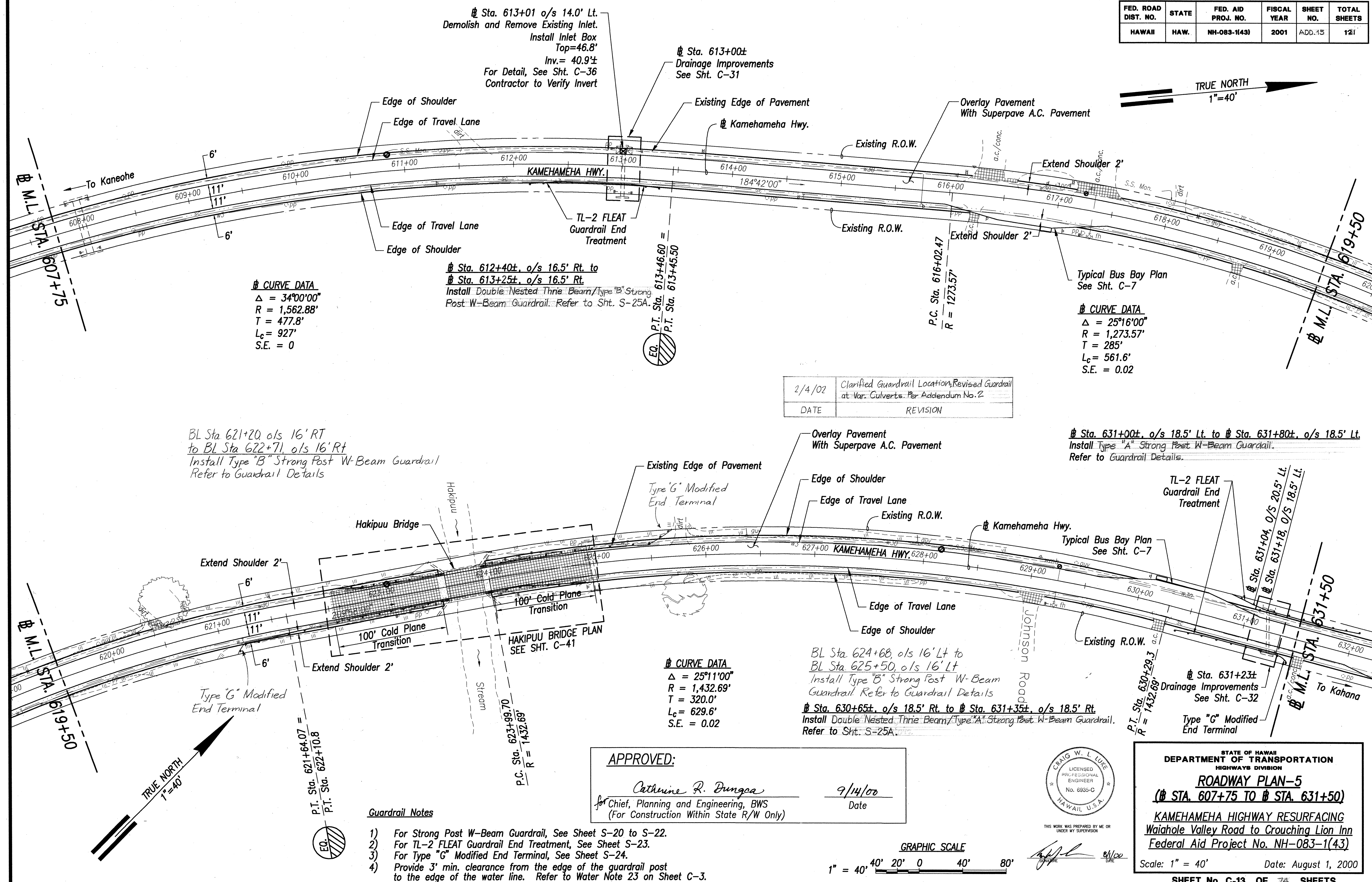


2/4/02	Revised Guardrail Length; Revised Guardrail at Van. Culverts. Per Addendum No. 2
DATE	REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLAN-4
(# STA. 586+00 TO # STA. 607+75)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000
SHEET No. C-12 OF 74 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 15	121



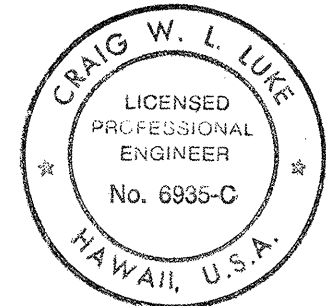
2/4/02	Clarified Guardrail Location, Revised Guardrail at Var. Culverts. Per Addendum No. 2
DATE	REVISION

APPROVED:

Catharine R. Dungea

for Chief, Planning and Engineering, BWS
(For Construction Within State R/W Only)

9/14/00
Date



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

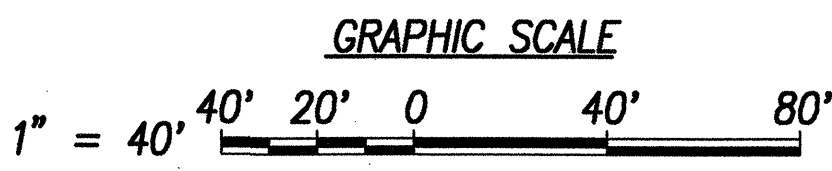
ROADWAY PLAN-5
(# STA. 607+75 TO # STA. 631+50)

KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

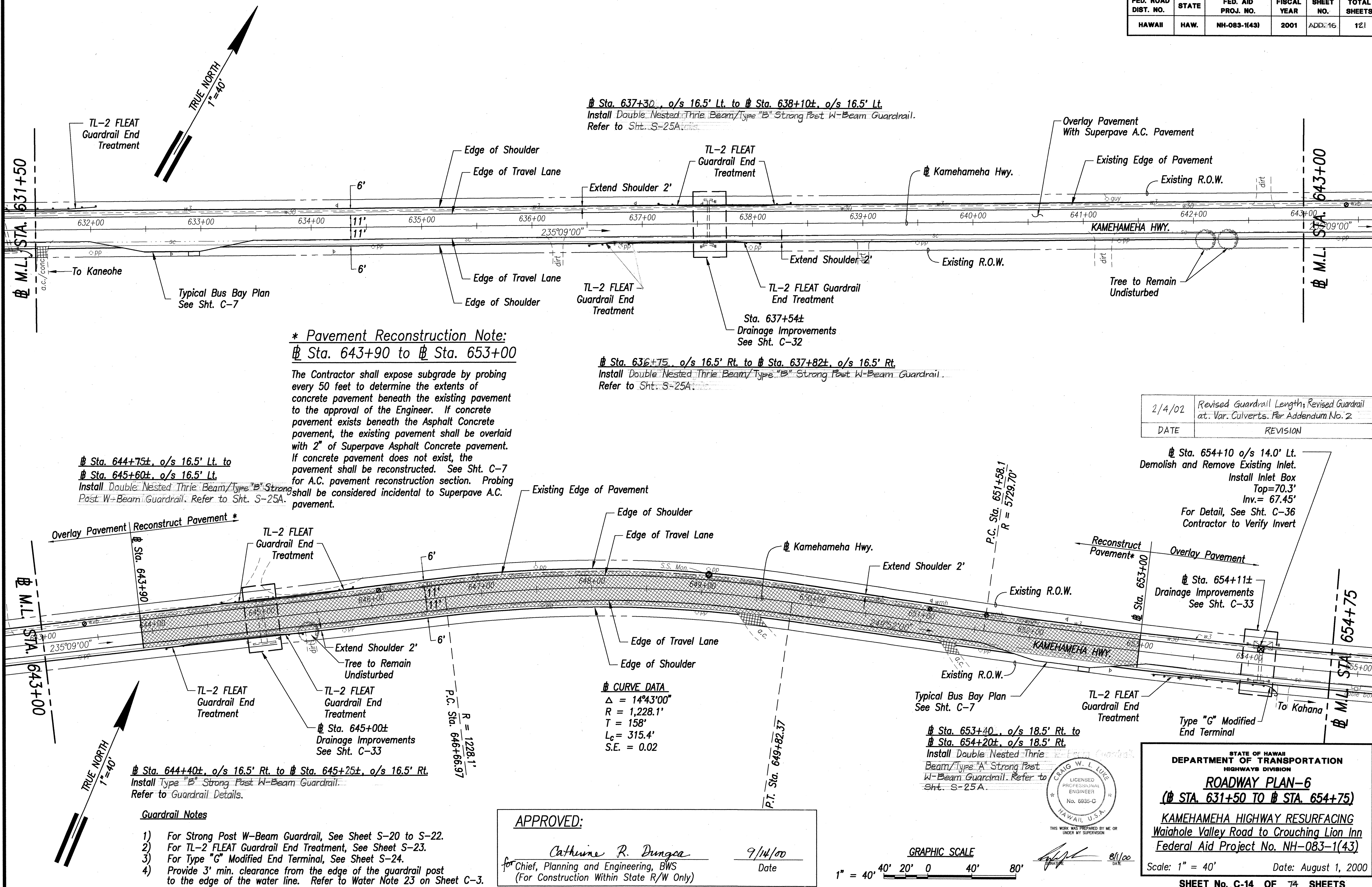
Scale: 1" = 40' Date: August 1, 2000

SHEET No. C-13 OF 74 SHEETS

- Guardrail Notes**
- 1) For Strong Post W-Beam Guardrail, See Sheet S-20 to S-22.
 - 2) For TL-2 FLEAT Guardrail End Treatment, See Sheet S-23.
 - 3) For Type "G" Modified End Terminal, See Sheet S-24.
 - 4) Provide 3' min. clearance from the edge of the guardrail post to the edge of the water line. Refer to Water Note 23 on Sheet C-3.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 16	121



*** Pavement Reconstruction Note:**
 Sta. 643+90 to Sta. 653+00

The Contractor shall expose subgrade by probing every 50 feet to determine the extents of concrete pavement beneath the existing pavement to the approval of the Engineer. If concrete pavement exists beneath the Asphalt Concrete pavement, the existing pavement shall be overlaid with 2" of Superpave Asphalt Concrete pavement. If concrete pavement does not exist, the pavement shall be reconstructed. See Sht. C-7 for A.C. pavement reconstruction section. Probing shall be considered incidental to Superpave A.C. pavement.

Sta. 644+75±, o/s 16.5' Lt. to
 Sta. 645+60±, o/s 16.5' Lt.
 Install Double Nested Thrie Beam/Type "B" Strong
 Post W-Beam Guardrail. Refer to Sht. S-25A.

Overlay Pavement *
 Reconstruct Pavement *

Sta. 644+40±, o/s 16.5' Rt. to Sta. 645+25±, o/s 16.5' Rt.
 Install Type "B" Strong Post W-Beam Guardrail.
 Refer to Guardrail Details.

Guardrail Notes

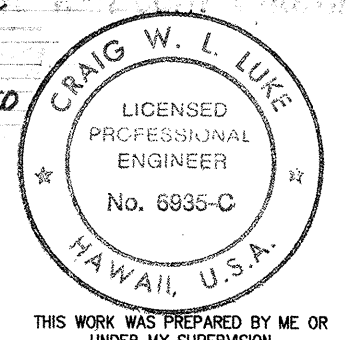
- 1) For Strong Post W-Beam Guardrail, See Sheet S-20 to S-22.
- 2) For TL-2 FLEAT Guardrail End Treatment, See Sheet S-23.
- 3) For Type "G" Modified End Terminal, See Sheet S-24.
- 4) Provide 3' min. clearance from the edge of the guardrail post to the edge of the water line. Refer to Water Note 23 on Sheet C-3.

APPROVED:

Catherine R. Dungca
 Chief, Planning and Engineering, BWS
 (For Construction Within State R/W Only)

9/14/00
 Date

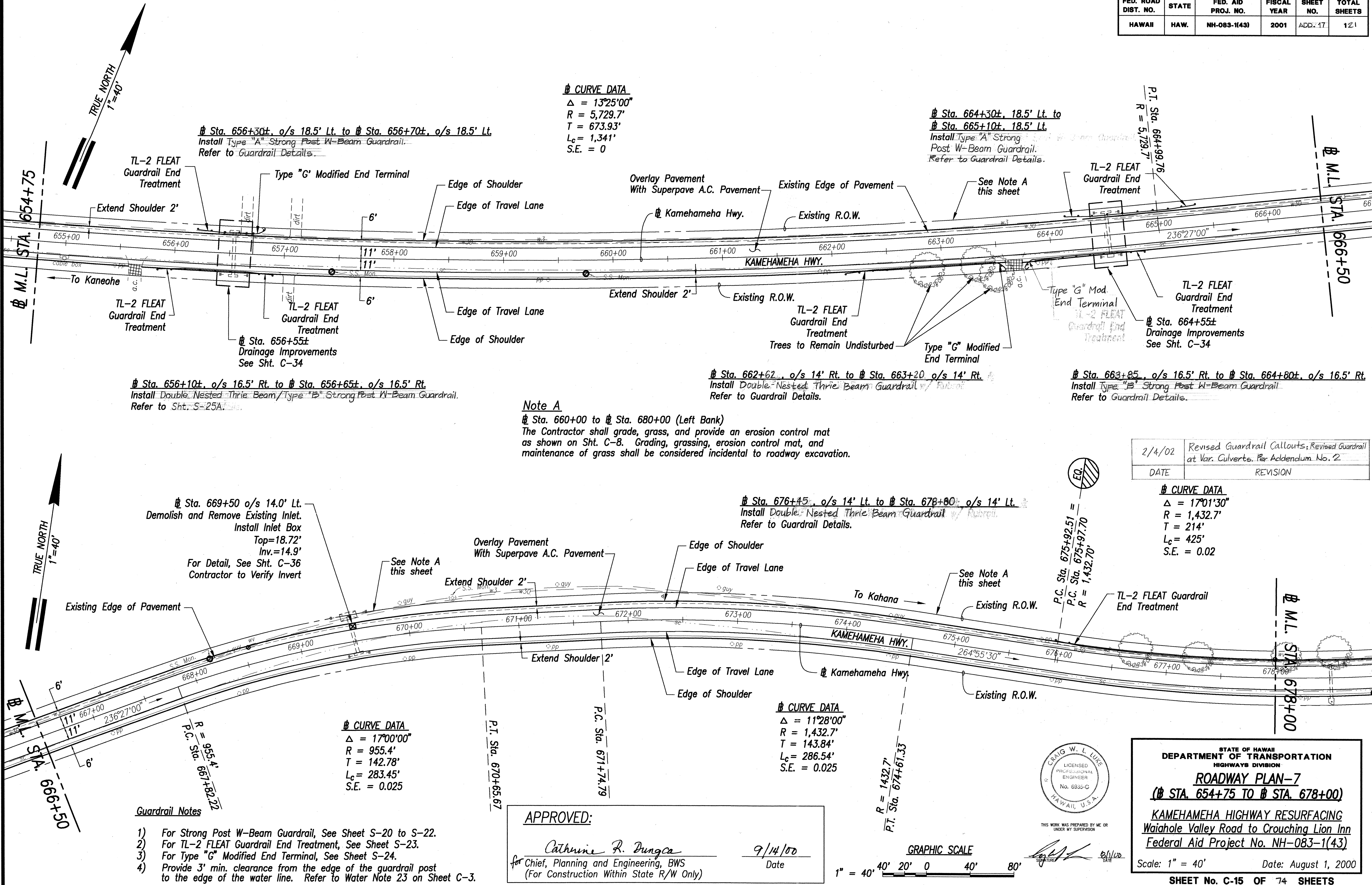
GRAPHIC SCALE
 1" = 40' 40' 20' 0 40' 80'



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLAN-6
 (Sta. 631+50 TO Sta. 654+75)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiahole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000
 SHEET No. C-14 OF 74 SHEETS

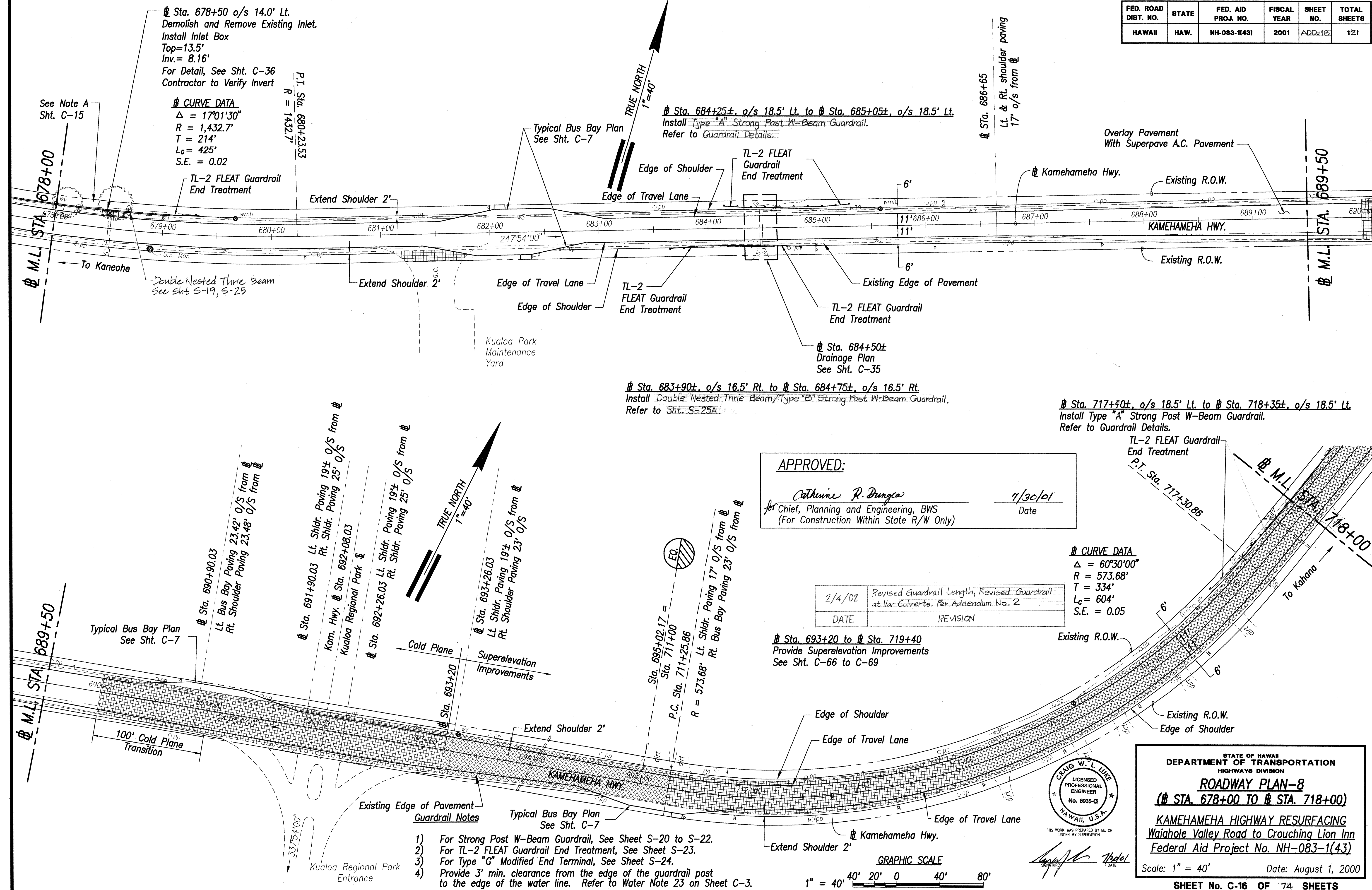
ADD. 16

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 17	121



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

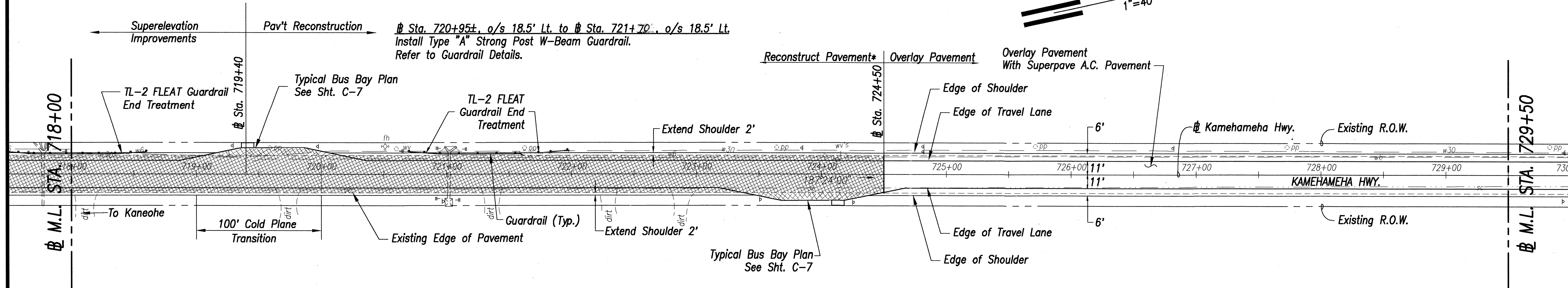
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 18	121



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

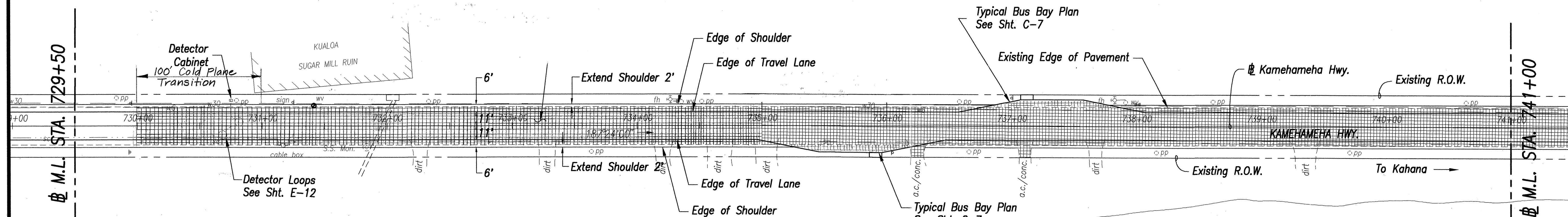
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 19	121

Sta. 717+40±, o/s 18.5' Lt. to # Sta. 718+35±, o/s 18.5' Lt.
Install Type "A" Strong Post W-Beam Guardrail.
Refer to Guardrail Details.



*** Pavement Reconstruction Note:**
Sta. 719+40 to # Sta. 724+50

The Contractor shall expose subgrade by probing every 50 feet to determine the extents of concrete pavement beneath the existing pavement to the approval of the Engineer. If concrete pavement exists beneath the Asphalt Concrete pavement, the existing pavement shall be overlaid with 2" of Superpave Asphalt Concrete pavement. If concrete pavement does not exist, the pavement shall be reconstructed. See Sht. C-7 for A.C. pavement reconstruction section. Probing shall be considered incidental to Superpave A.C. pavement.



Guardrail Notes

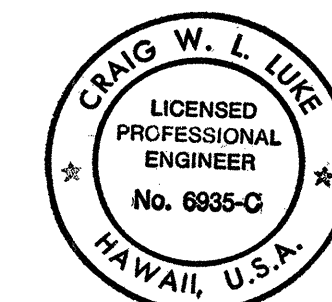
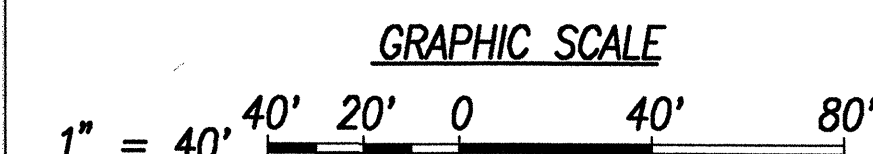
- 1) For Strong Post W-Beam Guardrail, See Sheet S-20 to S-22.
- 2) For TL-2 FLEAT Guardrail End Treatment, See Sheet S-23.
- 3) Provide 3' min. clearance from the edge of the guardrail post to the edge of the water line. Refer to Water Note 23 on Sheet C-3.

APPROVED:

Catherine R. Dugra
for Chief, Planning and Engineering, BWS
(For Construction Within State R/W Only)

7/30/01
Date

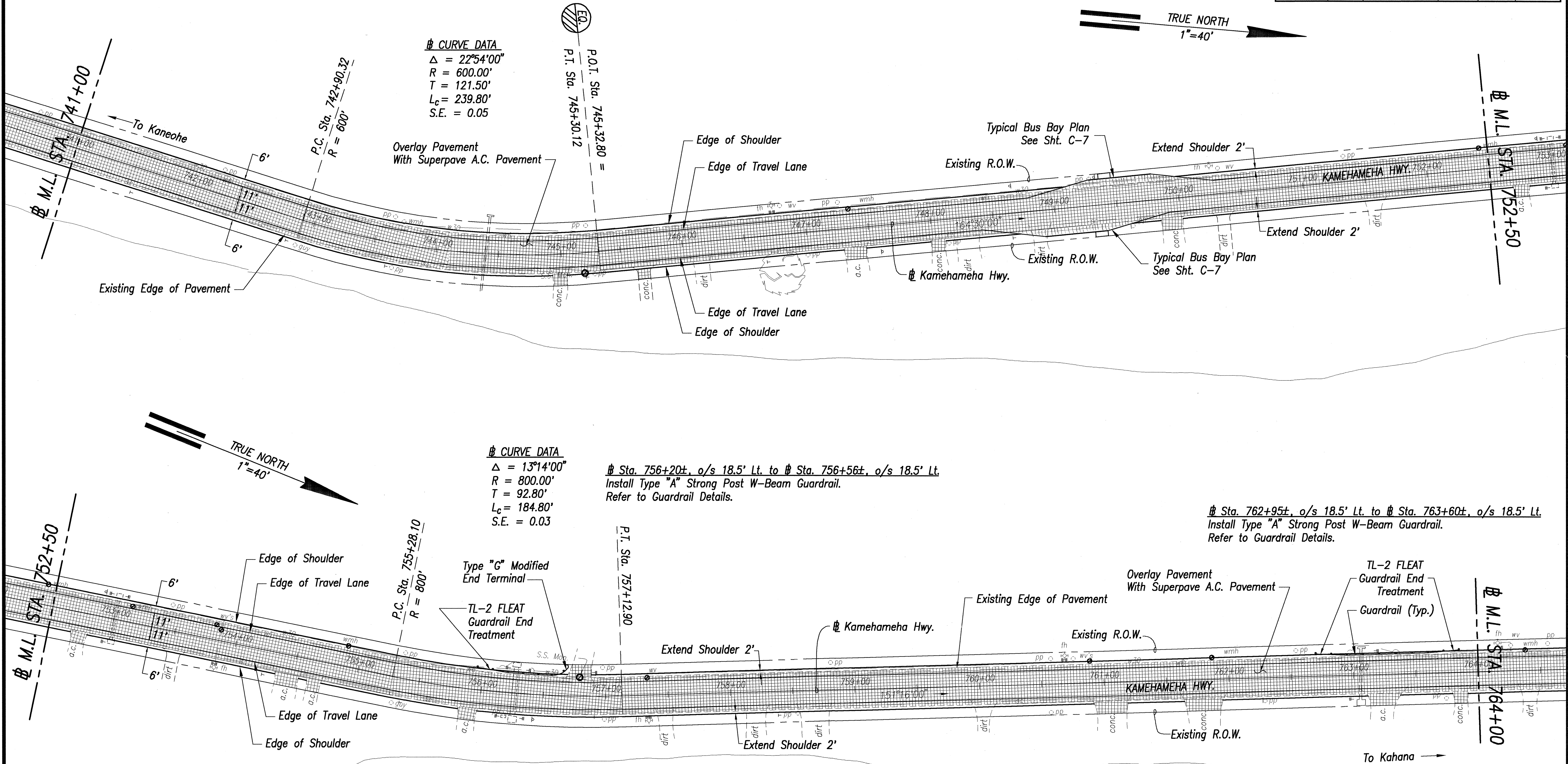
2/4/02	Revised Guardrail Length Per Addendum No. 2
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN-9
(# STA. 718+00 TO # STA. 741+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)
Scale: 1" = 40' Date: August 1, 2000
SHEET No. C-17 OF 74 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	20	121



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

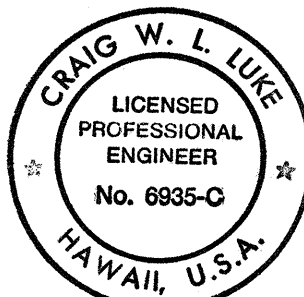
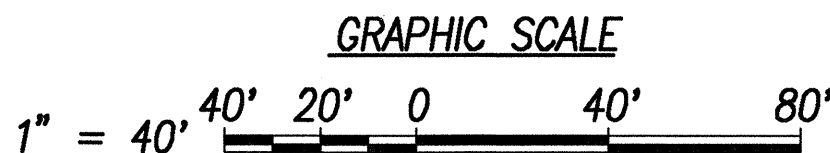
Guardrail Notes

- 1) For Strong Post W-Beam Guardrail, See Sheet S-20 to S-22.
- 2) For TL-2 FLEAT Guardrail End Treatment, See Sheet S-23.
- 3) For Type "G" Modified End Terminal, See Sheet S-24.
- 4) Provide 3' min. clearance from the edge of the guardrail post to the edge of the water line. Refer to Water Note 23 on Sheet C-3.

APPROVED:

Catherine R. Dungea
for Chief, Planning and Engineering, BWS
(For Construction Within State R/W Only)

7/30/01
Date



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
[Signature]
DATE: 7/30/01

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN-10
(# STA. 741+00 TO # STA. 764+00)

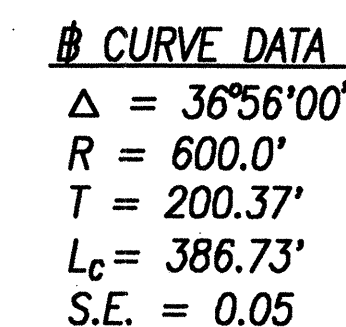
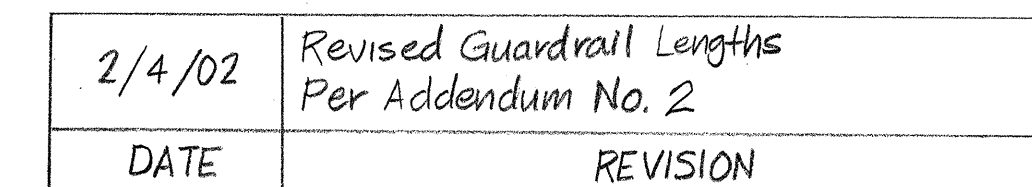
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

Scale: 1" = 40' Date: August 1, 2000

SHEET No. C-18 OF 74 SHEETS



Sta. 793+58±, o/s 15' Lt. to # Sta. 794+70±, o/s 15' Lt.
Demolish and Remove Existing Guardrail and
End Treatments. Install Type "C" Strong Post
W-Beam Guardrail. Refer to Guardrail Details.

Guardrail Notes

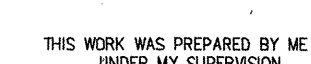
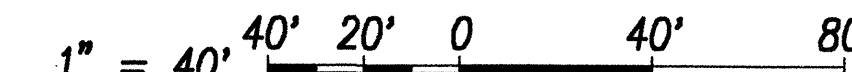
- 1) For Strong Post W-Beam Guardrail, See Sheet S-20 to S-22.
- 2) For TL-2 FLEAT Guardrail End Treatment, See Sheet S-23.
- 3) Provide 3' min. clearance from the edge of the guardrail post to the edge of the water line. Refer to Water Note 23 on Sheet C-3.

APPROVED:

for Catherine R. Dunga
Chief, Planning and Engineering, BWS
(For Construction Within State R/W Only)

7/30/01
Date

GRAPHIC SCALE



ROADWAY PLAN-12
(# STA. 787+00 TO # STA. 810+00)

KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

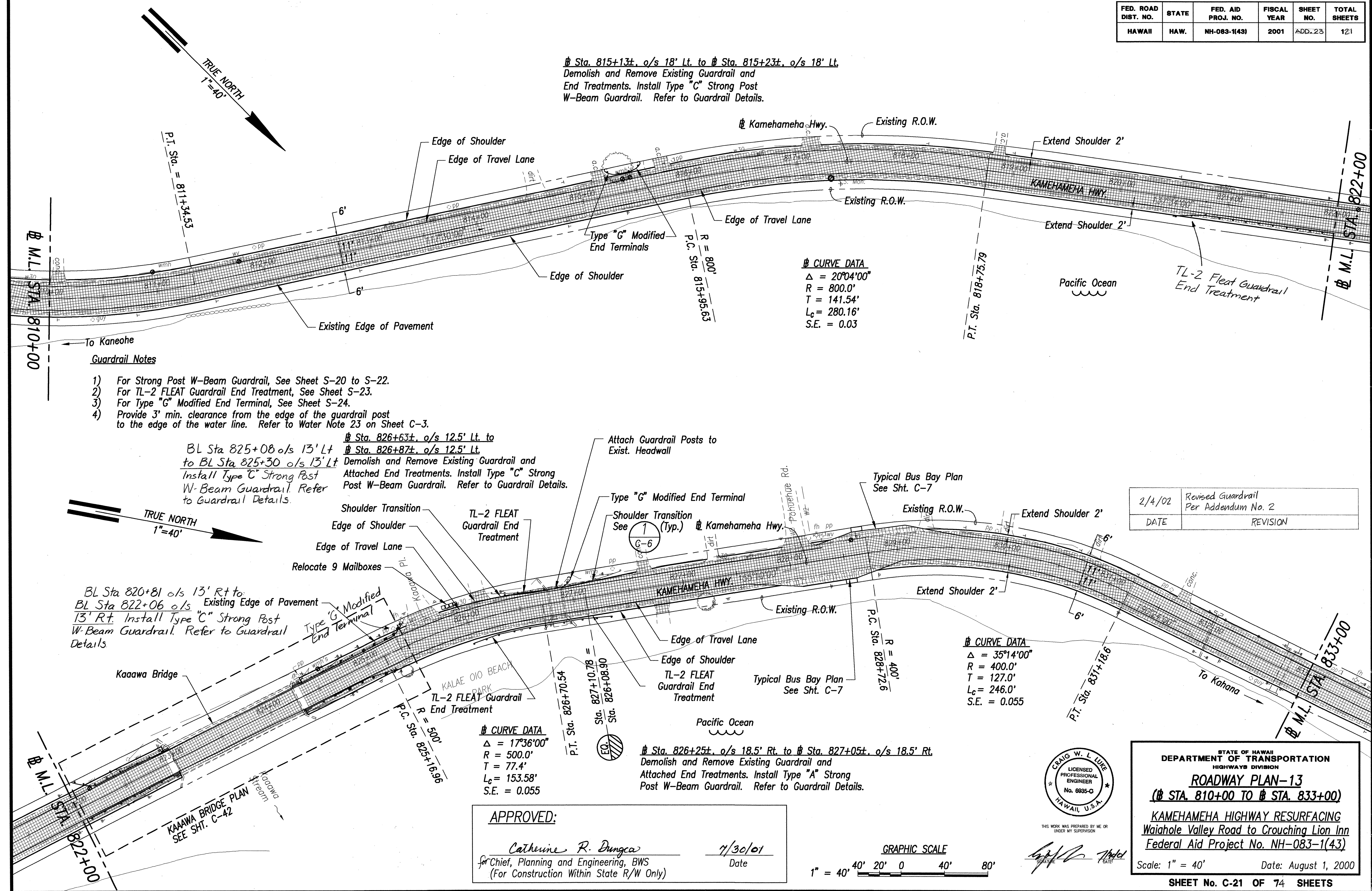
Scale: 1" = 40'

Date: August 1, 2000

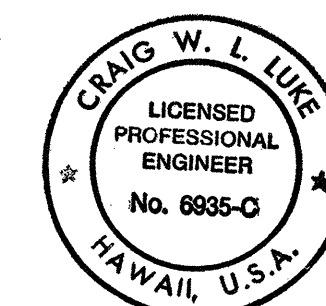
SHEET No. C-20 OF 74 SHEETS

ADD. 22

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 23	121



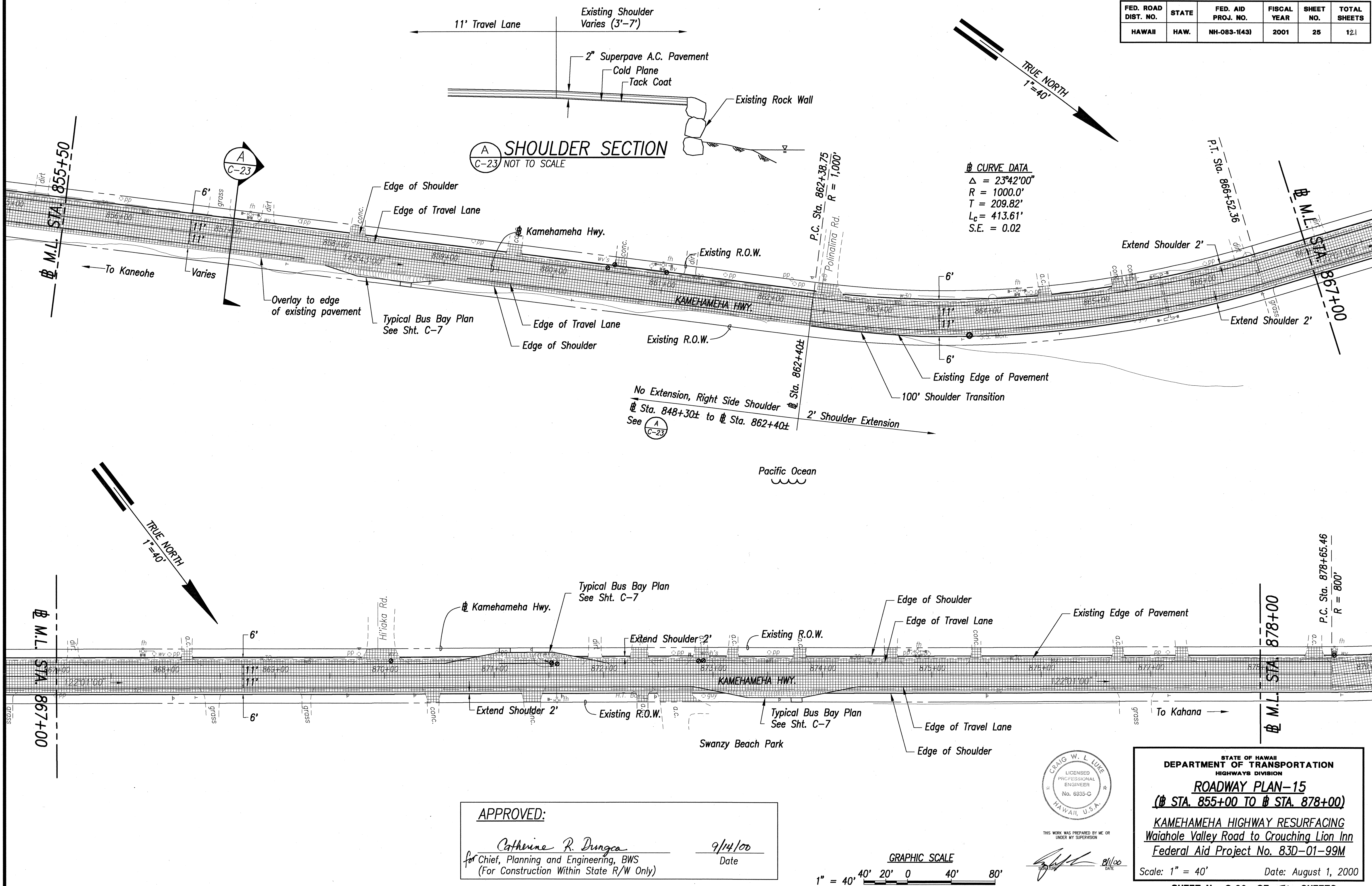
DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: *[Handwritten Signature]* Date: *[Handwritten Date]*

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	25	121



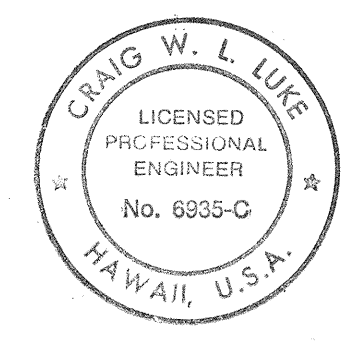
SHOULDER SECTION
C-23 NOT TO SCALE

CURVE DATA
 $\Delta = 23^\circ 42' 00''$
 $R = 1000.0'$
 $T = 209.82'$
 $L_c = 413.61'$
 $S.E. = 0.02$

APPROVED:

Catherine R. Dungea
 for Chief, Planning and Engineering, BWS
 (For Construction Within State R/W Only)

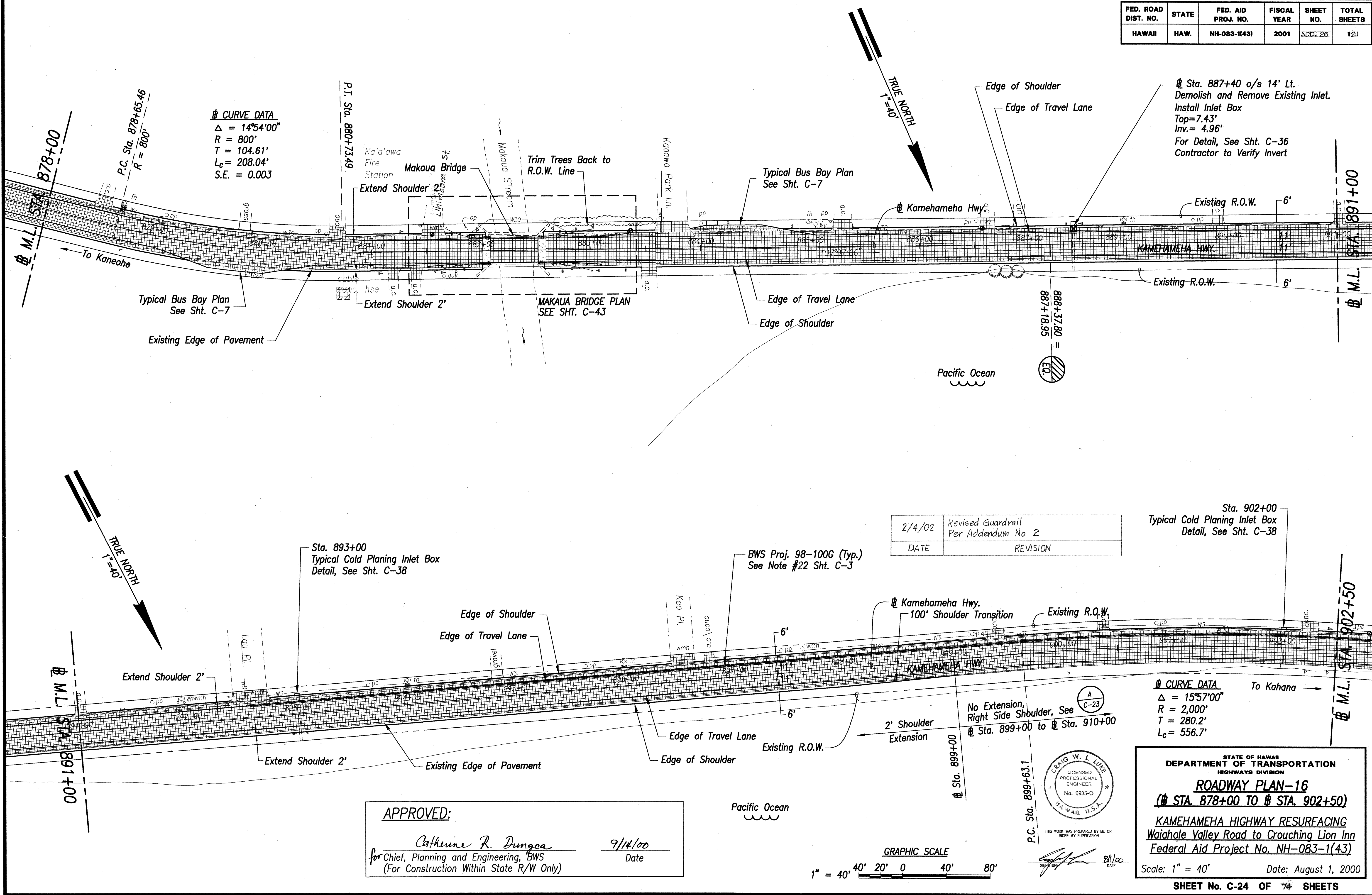
9/14/00
 Date



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLAN-15
(# STA. 855+00 TO # STA. 878+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. 83D-01-99M
 Scale: 1" = 40' Date: August 1, 2000
 SHEET No. C-23 OF 74 SHEETS

SURVEY PLATTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-083-1(43)	2001	ADD. 26	121



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

APPROVED:

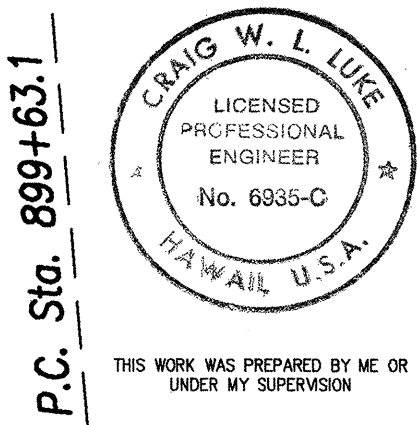
Catherine R. Dungoa

for Chief, Planning and Engineering, BWS

(For Construction Within State R/W Only)

9/14/00

Date



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ROADWAY PLAN-16

(Sta. 878+00 to Sta. 902+50)

KAMEHAMEHA HIGHWAY RESURFACING

Waiahole Valley Road to Crouching Lion Inn

Federal Aid Project No. NH-083-1(43)

Scale: 1" = 40'

Date: August 1, 2000

SHEET No. C-24 OF 74 SHEETS

