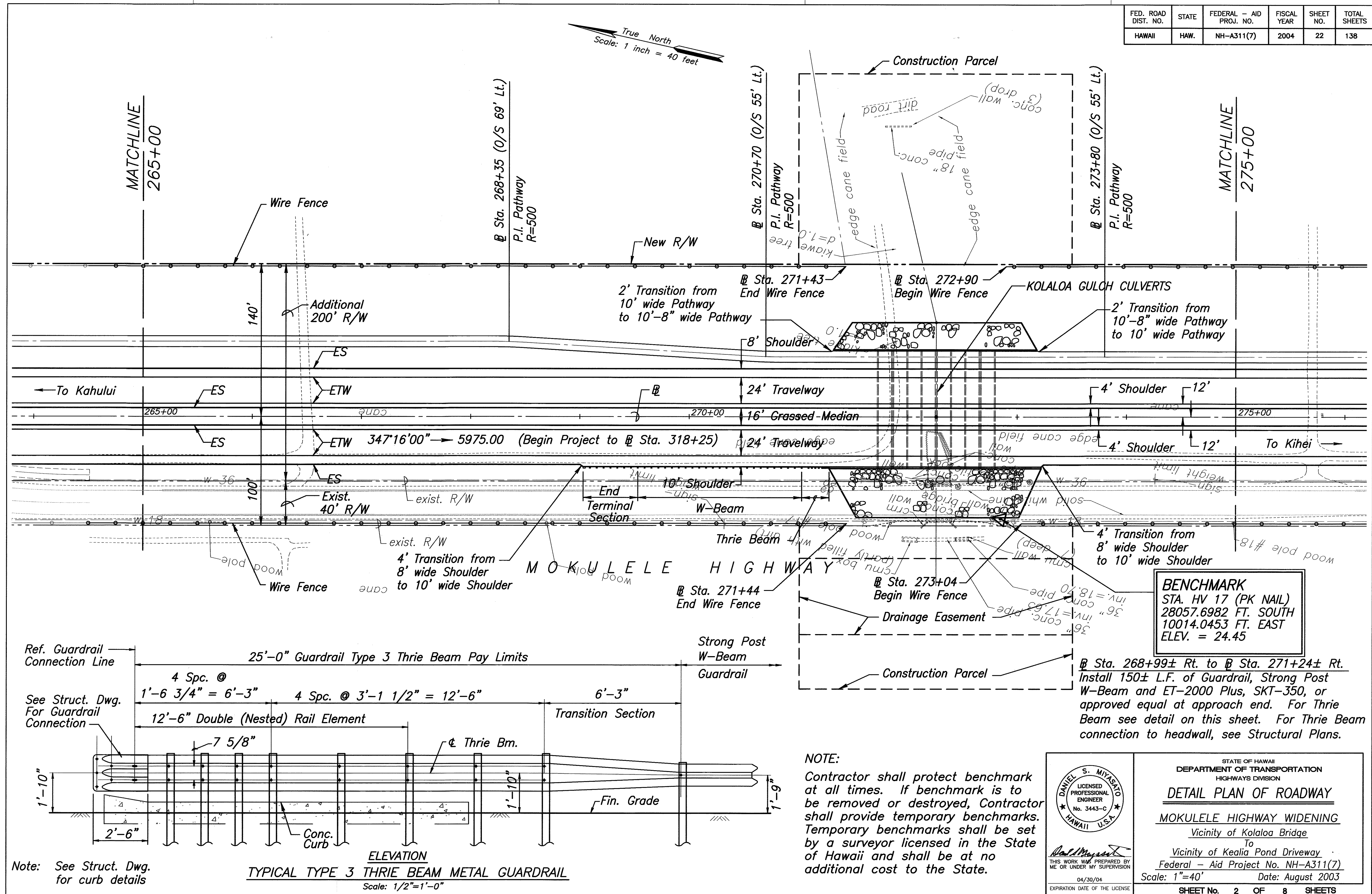
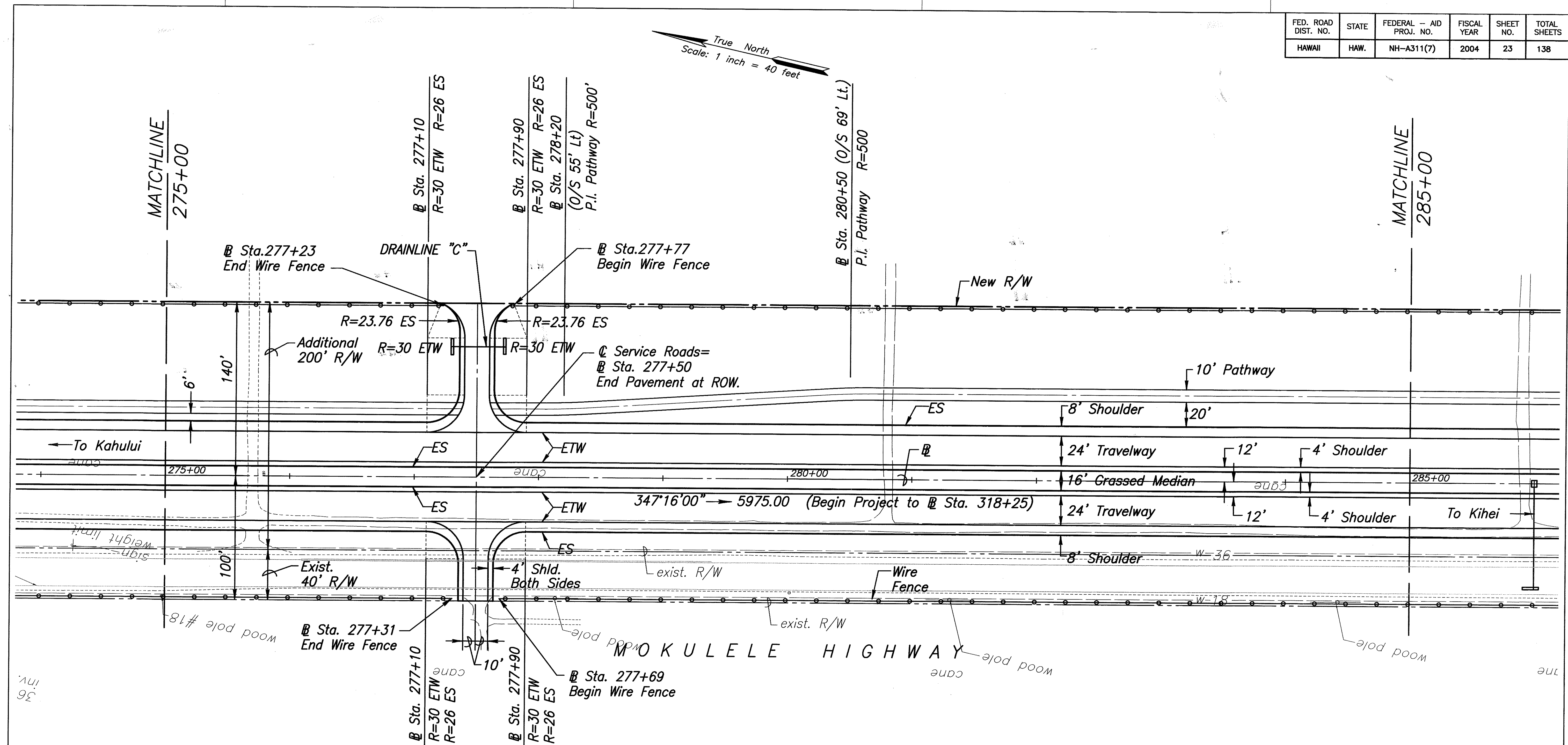


FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	22	138



FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	23	138



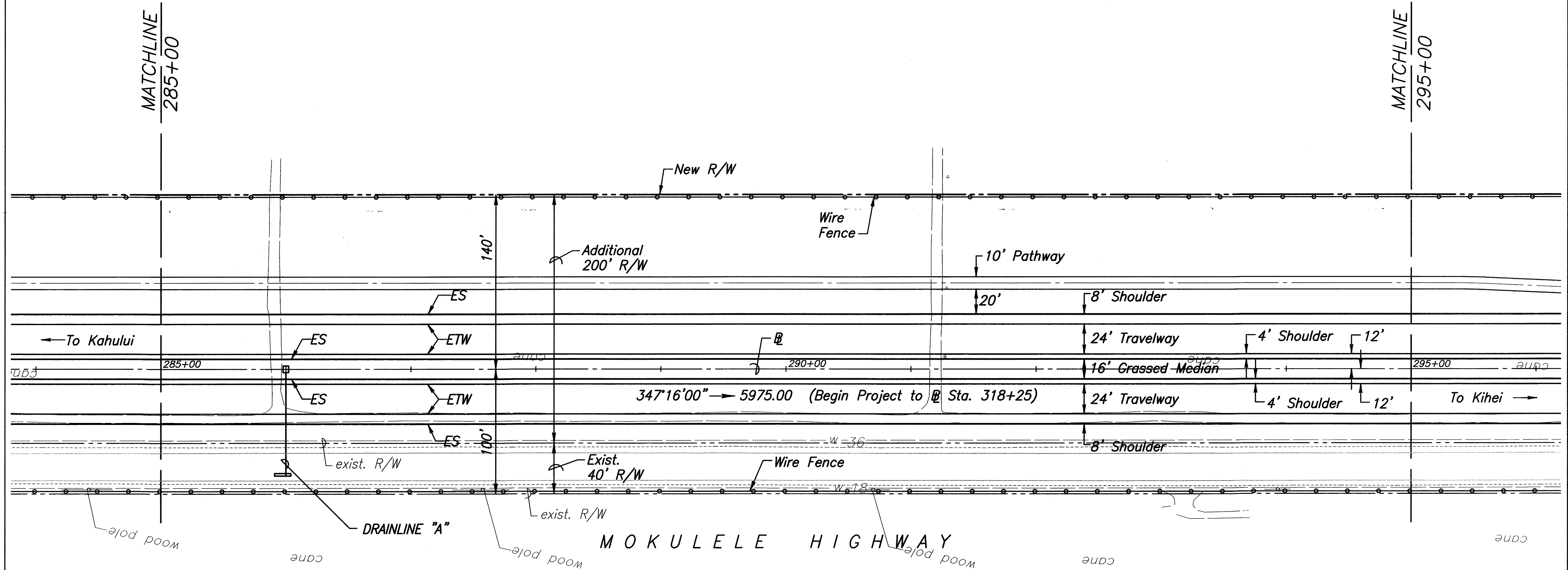
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	
	QUANTITIES BY	
	CHECKED BY	

DANIEL S. MIYASATO
 LICENSED PROFESSIONAL ENGINEER
 No. 3443-C
 HAWAII, U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
DETAIL PLAN OF ROADWAY
MOKULELE HIGHWAY WIDENING
 Vicinity of Kolaloa Bridge
 To
 Vicinity of Kealia Pond Driveway
 Federal - Aid Project No. NH-A311(7)
 Scale: 1"=40' Date: August 2003

SHEET No. 3 OF 8 SHEETS

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



FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	24	138

DANIEL S. MIYASATO
LICENSED PROFESSIONAL ENGINEER
No. 3443-C
HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

04/30/04

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

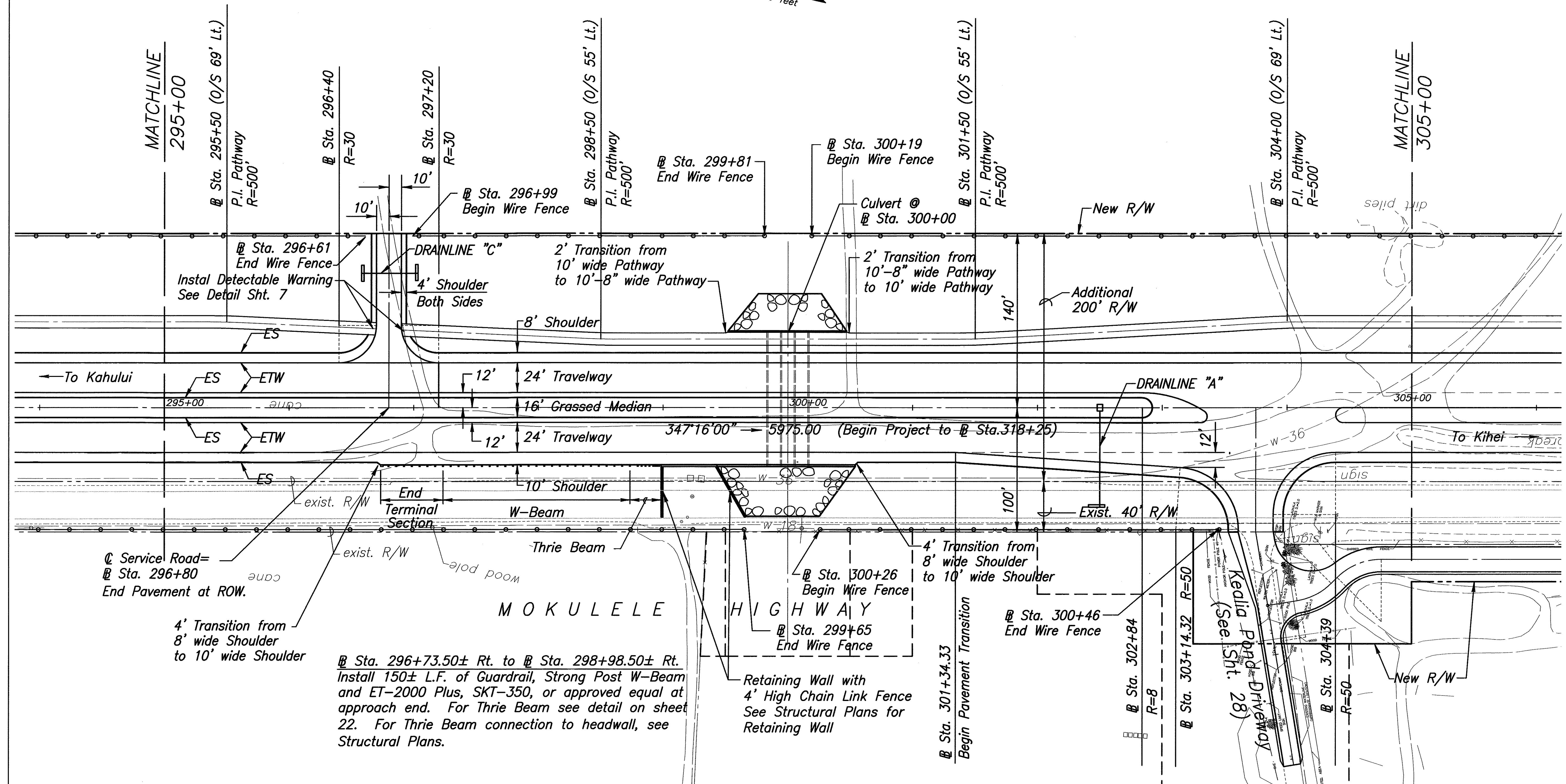
MOKULELE HIGHWAY WIDENING

Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)

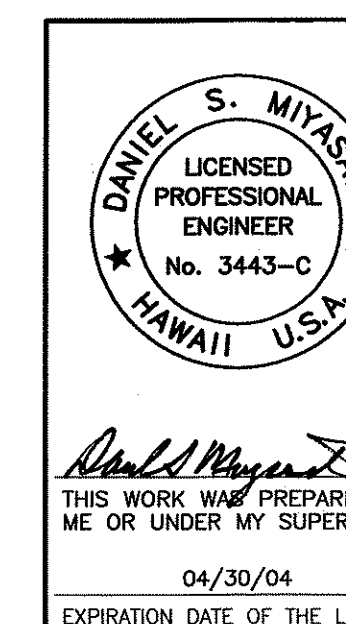
Scale: 1"=40' Date: August 2003

SHEET No. 4 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL — AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	25	138



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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

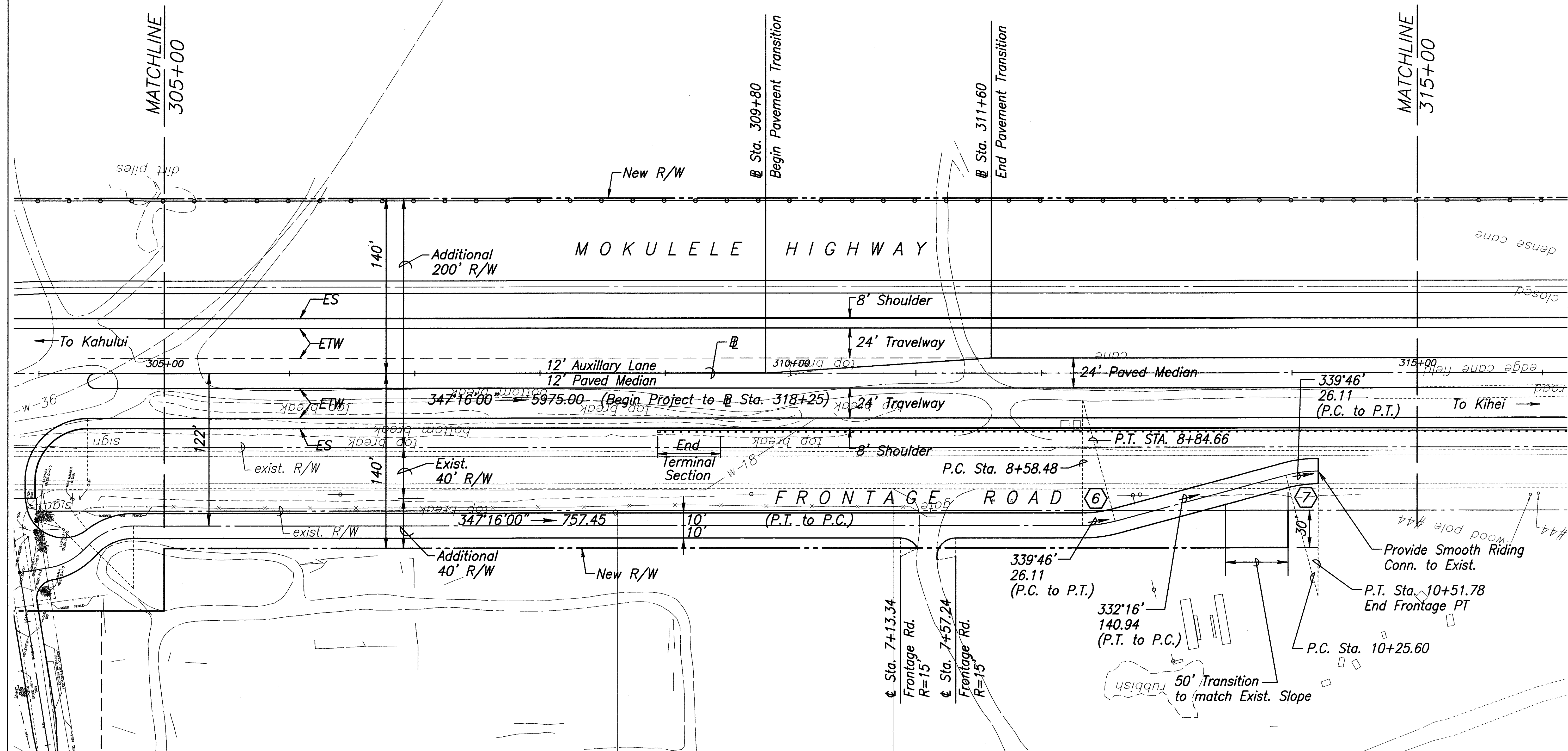
DETAIL PLAN OF ROADWAY

MOKULELE HIGHWAY WIDENING
Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)
Scale: 1"=40' Date: August 2003

SHEET No. 5 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	26	138

True North
Scale: 1 inch = 40 feet



6	7
$\Delta = 15'00''$	$\Delta = 15'00''$
$\Delta/2 = 7'30''$	$\Delta/2 = 7'30''$
$R = 100.00$	$R = 100.00$
$T = 13.17$	$T = 13.17$
$C = 26.11$	$C = 26.11$
$L = 26.18$	$L = 26.18$

At Sta. 308+94± Rt. to At Sta. 323+13± Rt.
Install 1400± L.F. of Guardrail, Strong Post
W-Beam and ET-2000 Plus, SKT-350, or
approved equal at approach and trailing end.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
04/30/04
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLAN OF ROADWAY

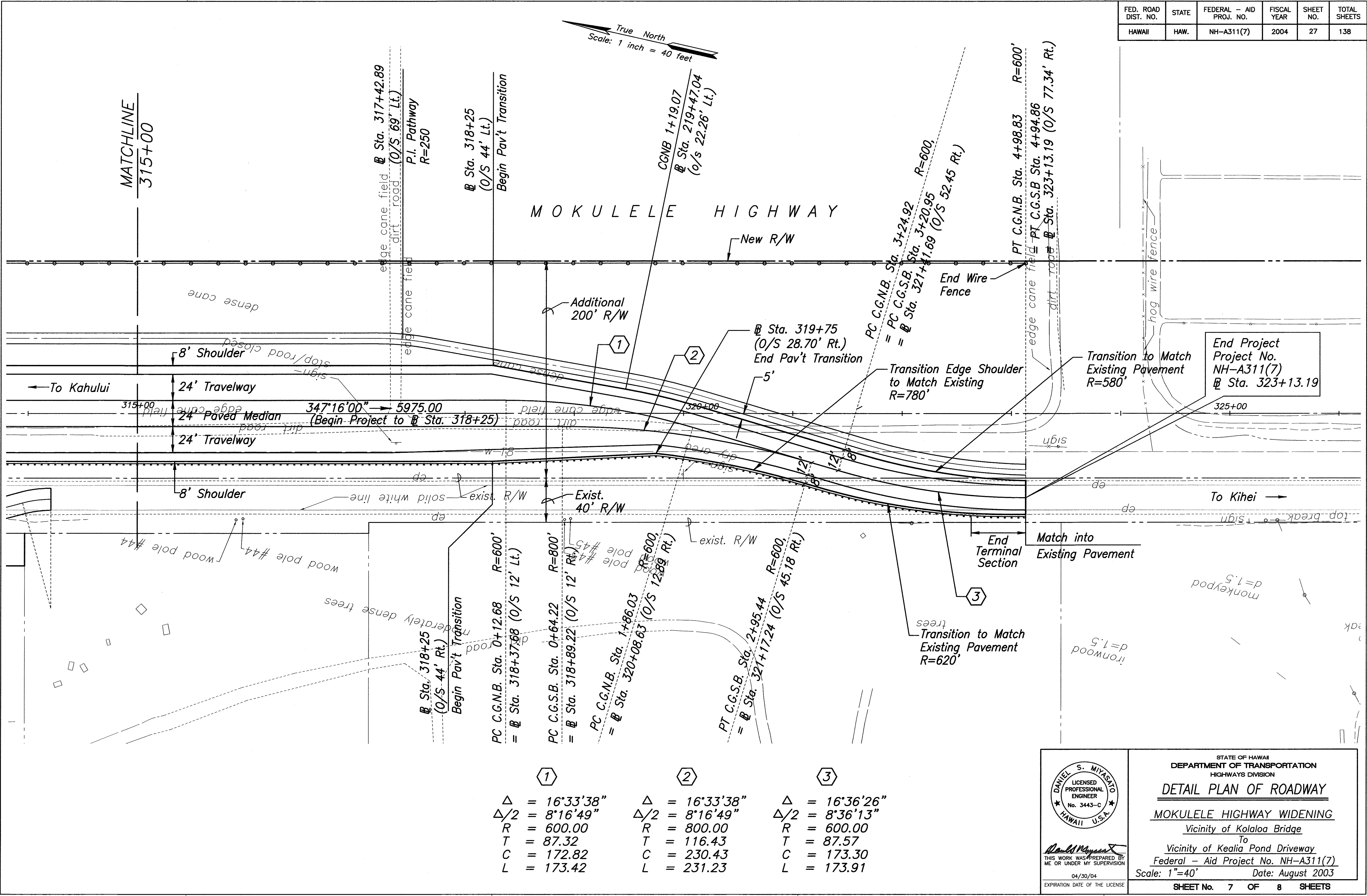
MOKULELE HIGHWAY WIDENING
Vicinity of Kolaloa Bridge
To
Vicinity of Kealala Pond Driveway
Federal - Aid Project No. NH-A311(7)
Scale: 1"=40' Date: August 2003

SHEET No. 6 OF 8 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
No.	

PROJ. NO.: M5901.00
7/31/02
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FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(7)	2004	27	138



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY	CHECKED BY	

1	2	3
Δ = 16°33'38"	Δ = 16°33'38"	Δ = 16°36'26"
$\Delta/2$ = 8°16'49"	$\Delta/2$ = 8°16'49"	$\Delta/2$ = 8°36'13"
R = 600.00	R = 800.00	R = 600.00
T = 87.32	T = 116.43	T = 87.57
C = 172.82	C = 230.43	C = 173.30
L = 173.42	L = 231.23	L = 173.91

DANIEL S. MIYASATO
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STATE OF HAWAII
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HIGHWAYS DIVISION

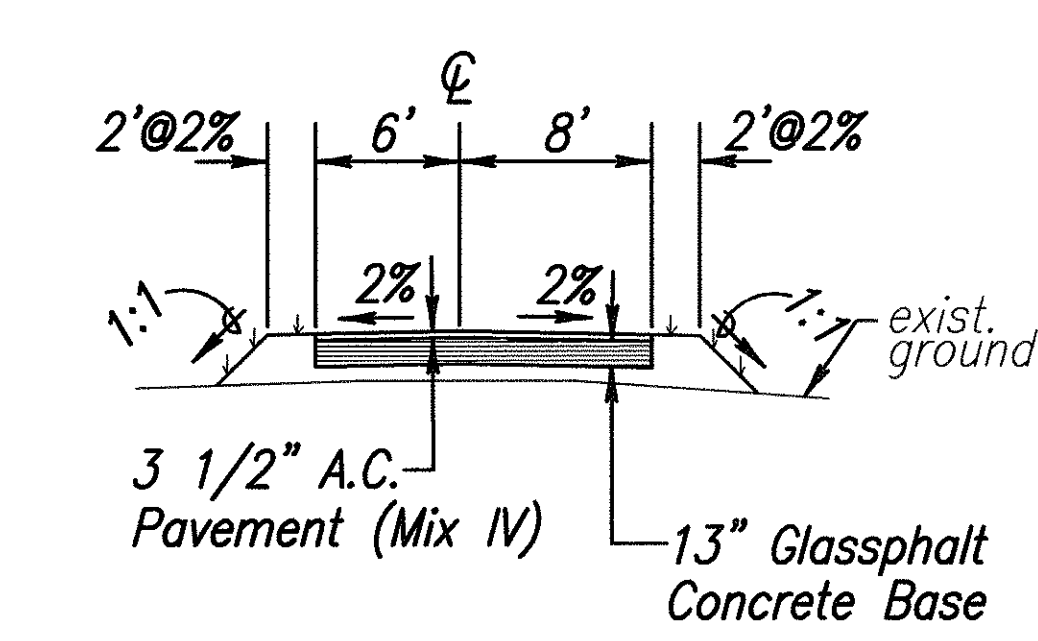
DETAIL PLAN OF ROADWAY

MOKULELE HIGHWAY WIDENING

Vicinity of Kolaloa Bridge
To
Vicinity of Kealia Pond Driveway
Federal - Aid Project No. NH-A311(7)

Scale: 1"=40' Date: August 2003

SHEET No. 7 OF 8 SHEETS



Scale: $1/8"=1'-0"$

4	5
$\Delta = 35^{\circ}44'00''$	$\Delta = 45^{\circ}00'00''$
$\Delta/2 = 17^{\circ}52'00''$	$\Delta/2 = 22^{\circ}30'00''$
$R = 50.00$	$R = 50.00$
$T = 16.12$	$T = 20.71$
$C = 30.68$	$C = 38.27$
$L = 31.18$	$L = 39.27$

Scale: $1/8" = 1'-0"$

PROJ. NO.: M9901.00

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9/30/03

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