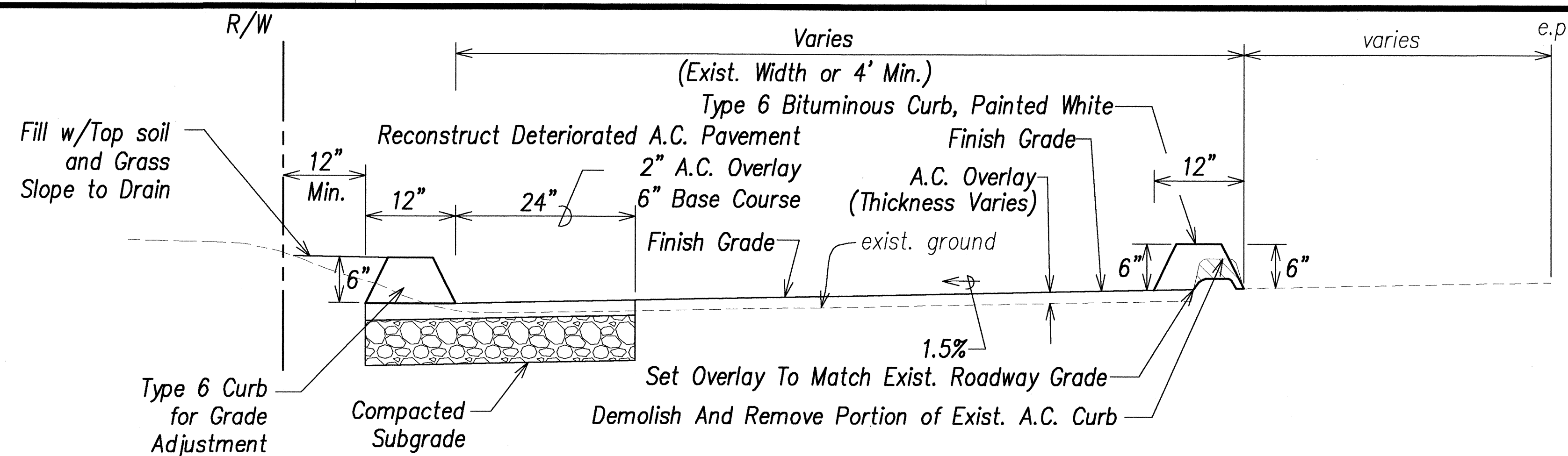
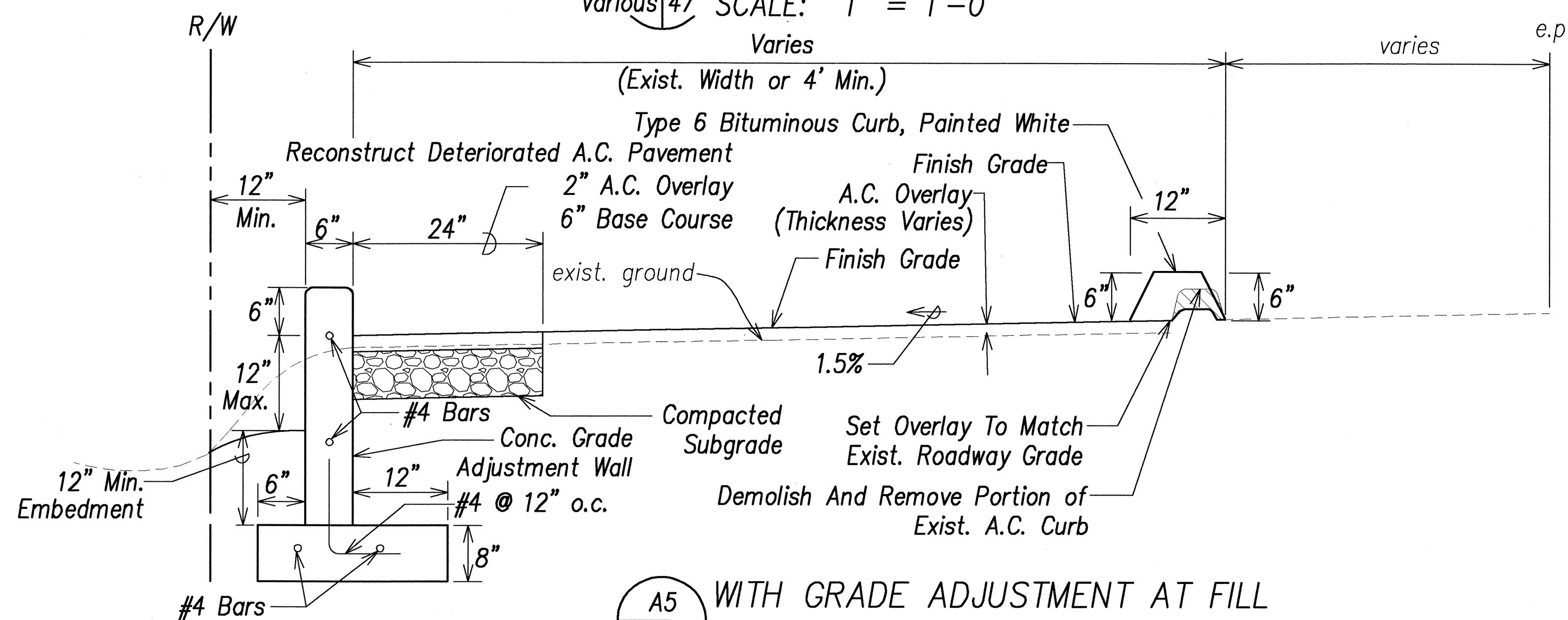


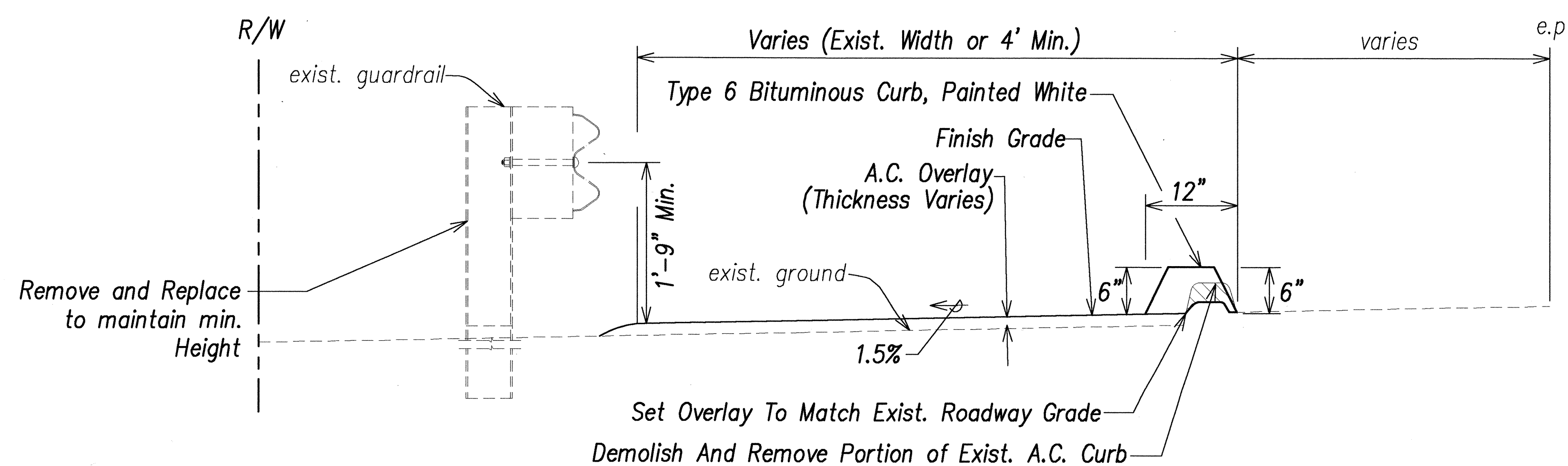
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	47	98




 WITH GRADE ADJUSTMENT AT CUT
 SCALE: 1" = 1'-0"

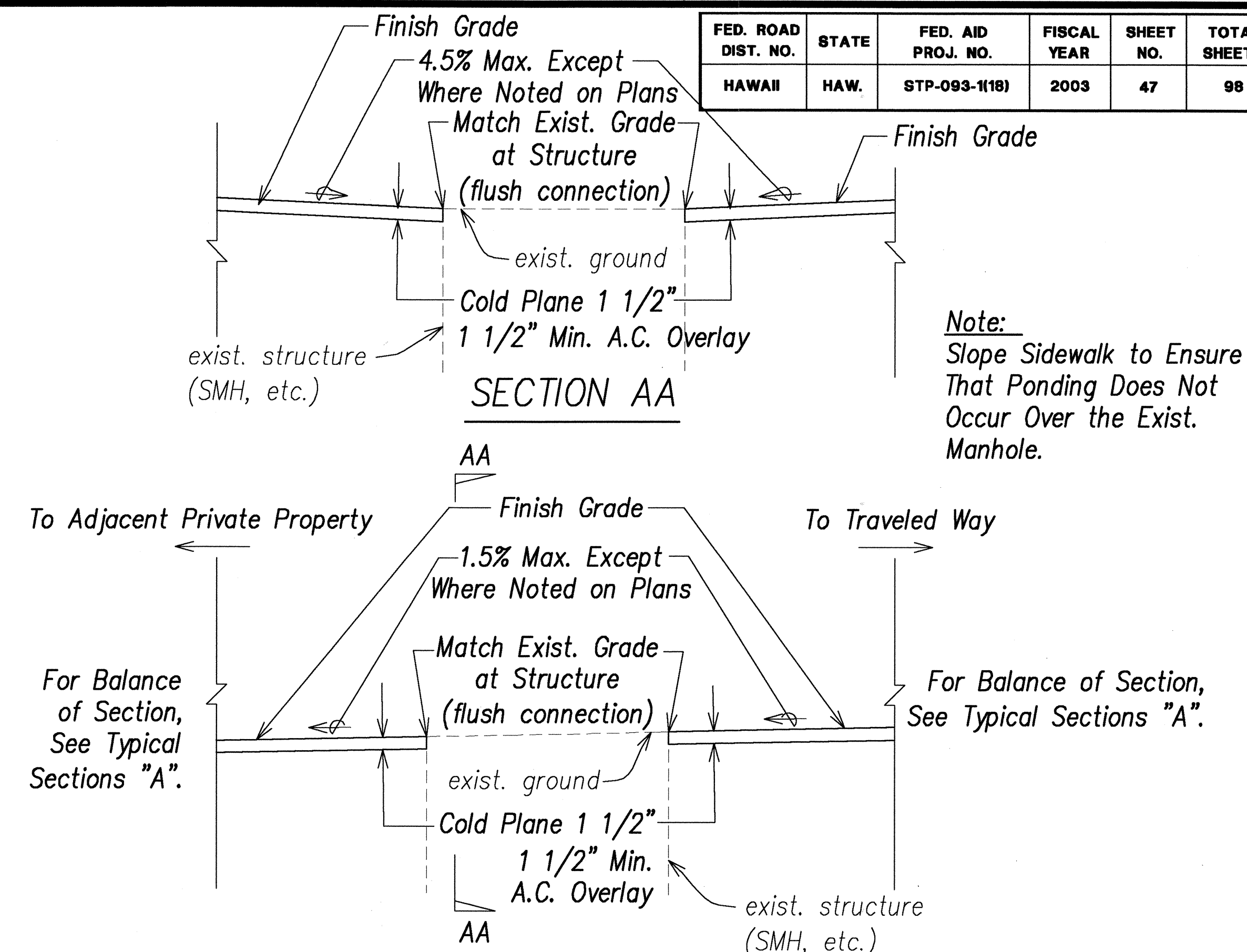


 WITH GRADE ADJUSTMENT AT FILL
 Various 47 SCALE: 1" = 1'-0"

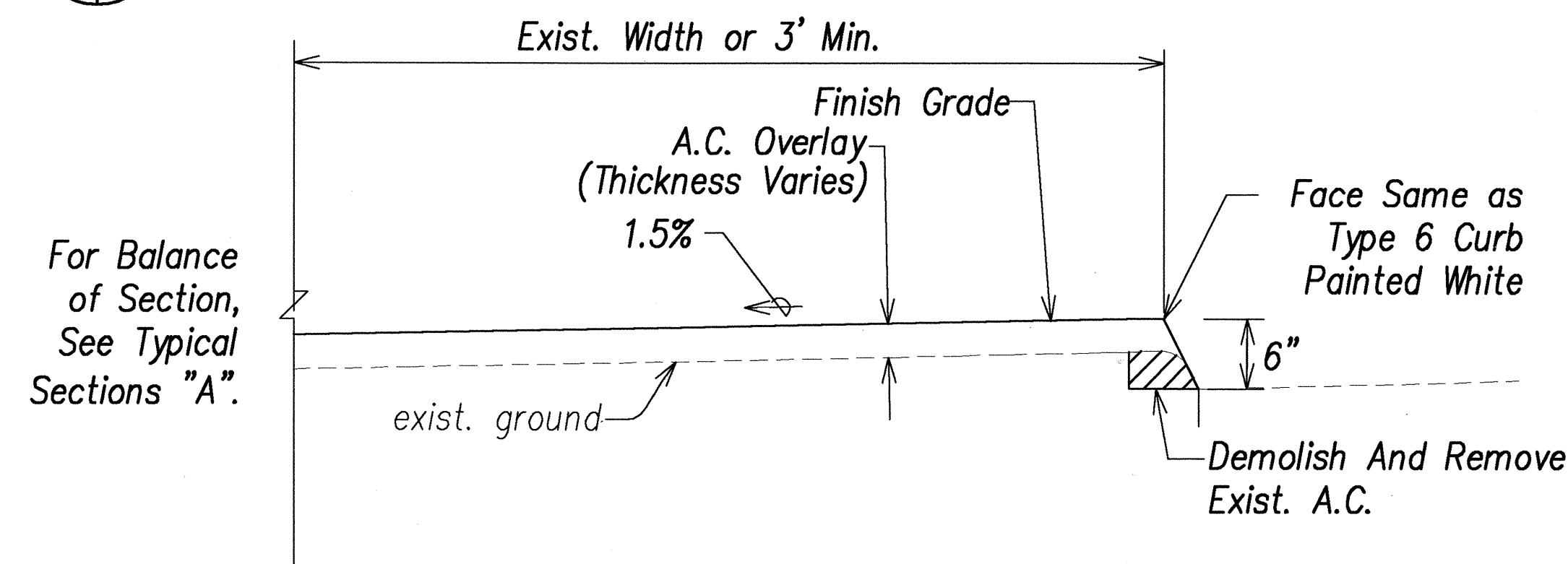



 AT EXISTING GUARDRAIL
 Various | 47 SCALE: 1" = 1'-0"

 **TYPICAL SECTIONS – SHOULDER RECONSTRUCTION**
Various 47 SCALE: 1" = 1'-0"



Various 47 TYPICAL SECTIONS - TRANSITION AT EXISTING STRUCTURE
SCALE: 1" = 1'-0"



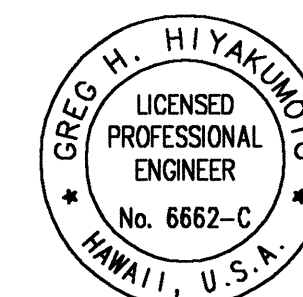
Various 47 TYPICAL SECTIONS - SHOULDER RECONSTRUCTION
SCALE: 1" = 1'-0"

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

APPROVED:

Dennis M. Nickerson
Chief, Wastewater Branch, DPP_{ms}

5/15/03
Date



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

April 30, 2004
EXPIRATION DATE
OF THE LICENSE

**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

SHOULDER RECONSTRUCTION
TYPICAL SECTIONS - 2

FARRINGTON HIGHWAY SAFETY IMPROVEMENTS

NANAKULI TO MAKAHA

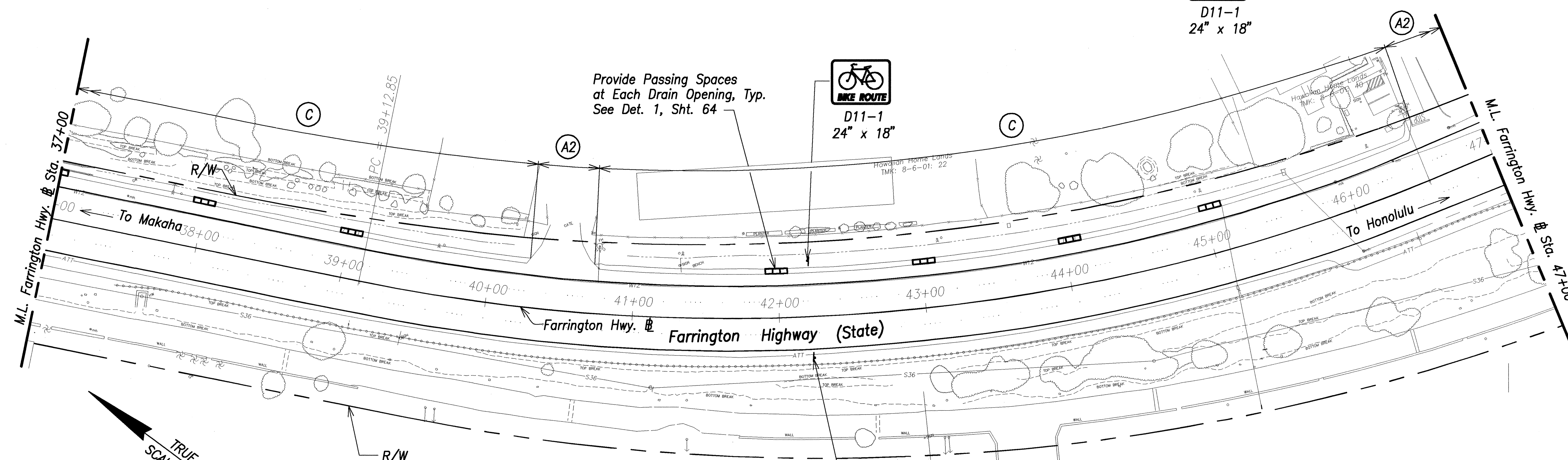
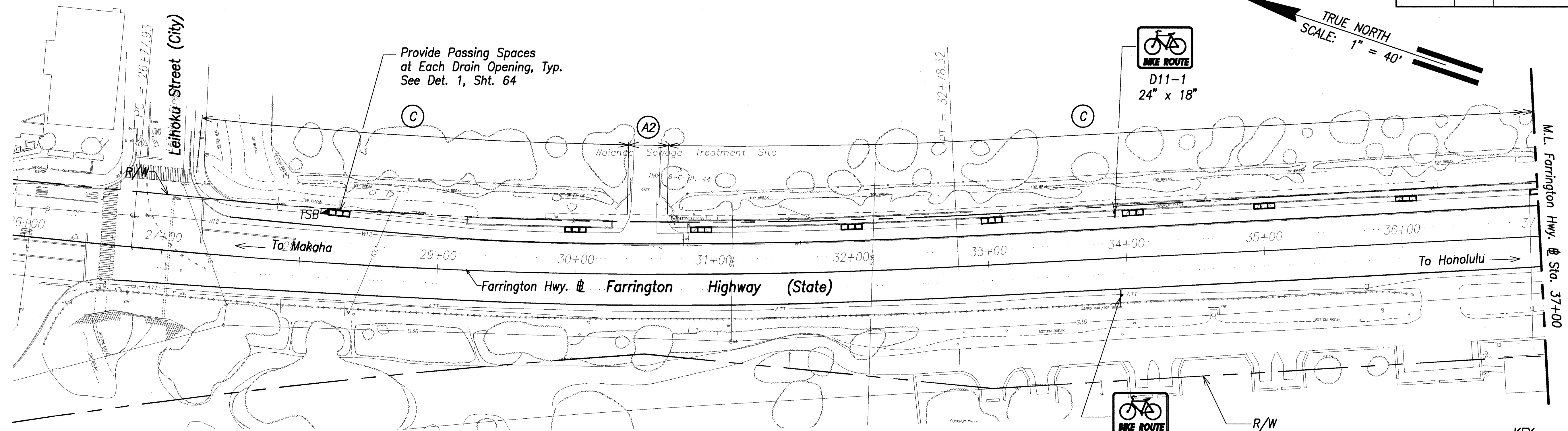
F.A.I. Proj. No. STP-093-1(18)

Scale: 1" = 1'-0"

Date: 04/23/03

SHEET No. 47 OF 98 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	48	98



- KEY**
- (A1) See Section A1 on Sheet 46
 - (A2) See Section A2 on Sheet 46
 - (A3) See Section A3 on Sheet 46
 - (A4) See Section A4 on Sheet 47
 - (A5) See Section A5 on Sheet 47
 - (A6) See Section A6 on Sheet 47
 - (A7) See Section A7 on Sheet 47
 - (B) See Section B on Sheet 47
 - (C) See Section C on Sheet 47

- Note:**
- For all ramps at shoulder reconstruction areas, see detail 1, sheet 64.
 - For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.
 - All utility valve box frames and covers, meter boxes, manhole frames and covers shall be adjusted to new finish grade unless otherwise noted on the plans.



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SIGNATURE: *Greg H. Hiyaquoto* April 30, 2004
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

SHOULDER RECONSTRUCTION
PLAN - 1

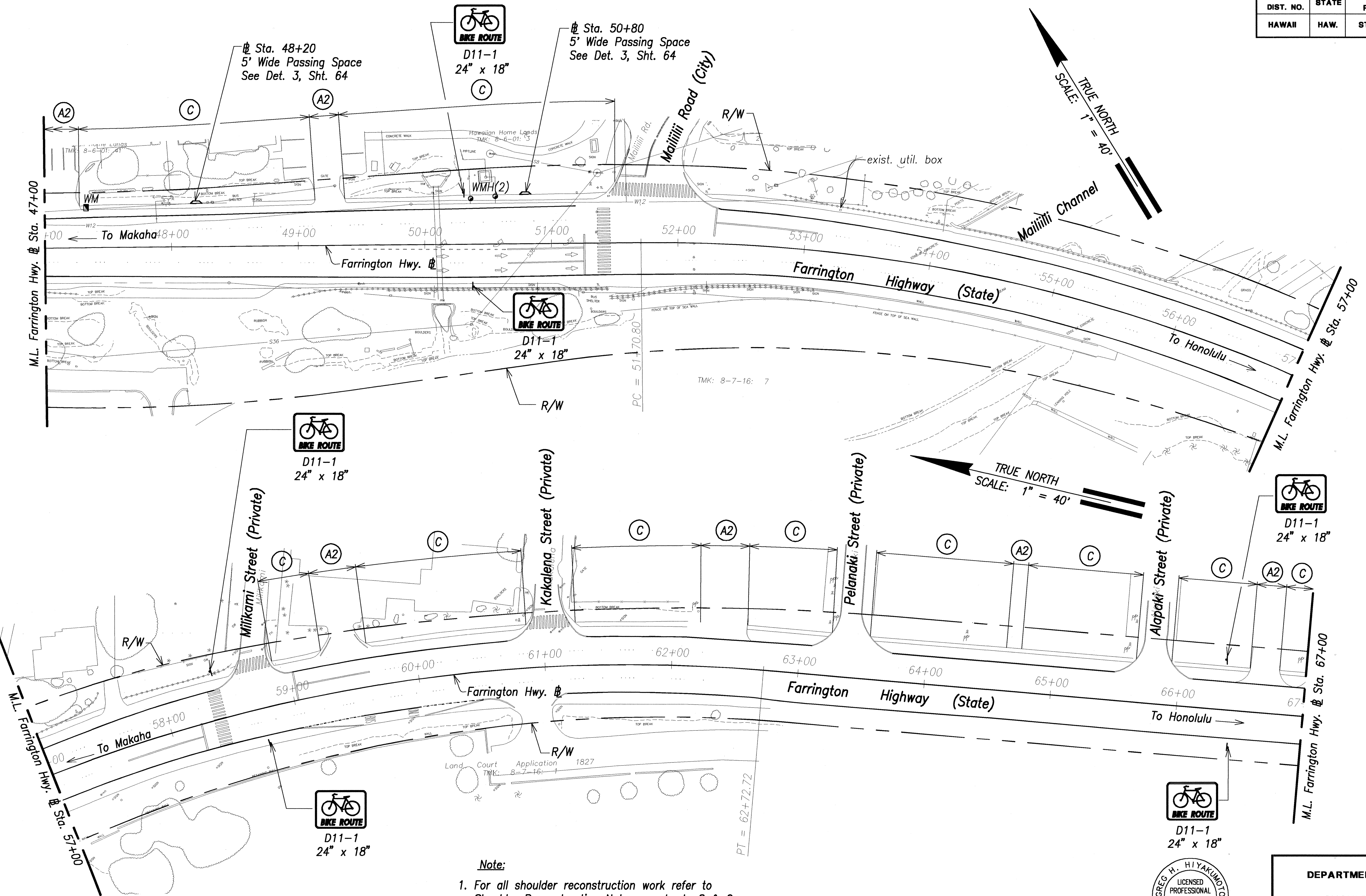
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 48 OF 98 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	49	98



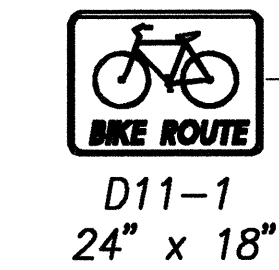
Note:

1. For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.
2. All utility valve box frames and covers, meter boxes, manhole frames and covers shall be adjusted to new finish grade unless otherwise noted on the plans.

APPROVED:

[Signature]
Principal Executive
Maintenance Unit, BWS

4/6/03
Date



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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**SHOULDER RECONSTRUCTION
PLAN - 2**

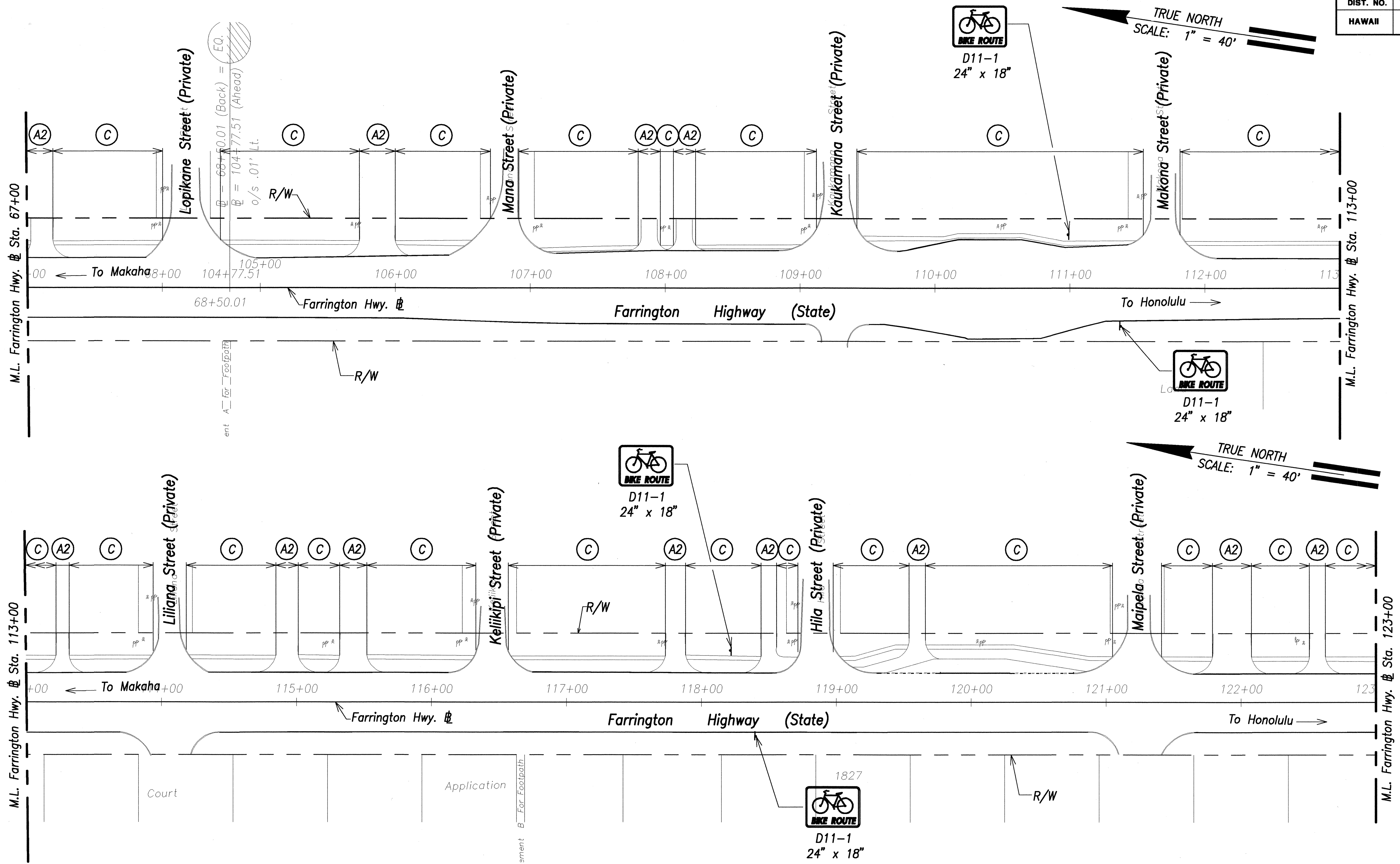
**FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)**

Scale: 1"=40' Date: 04/23/03

SHEET No. 49 OF 98 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
INCHES BY	_____
QUANTITIES 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.	STP-093-1(18)	2003	50	98



- Note:**
- For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	



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OR UNDER MY SUPERVISION.

SIGNATURE: *Greg H. Hiyaikunoto* April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

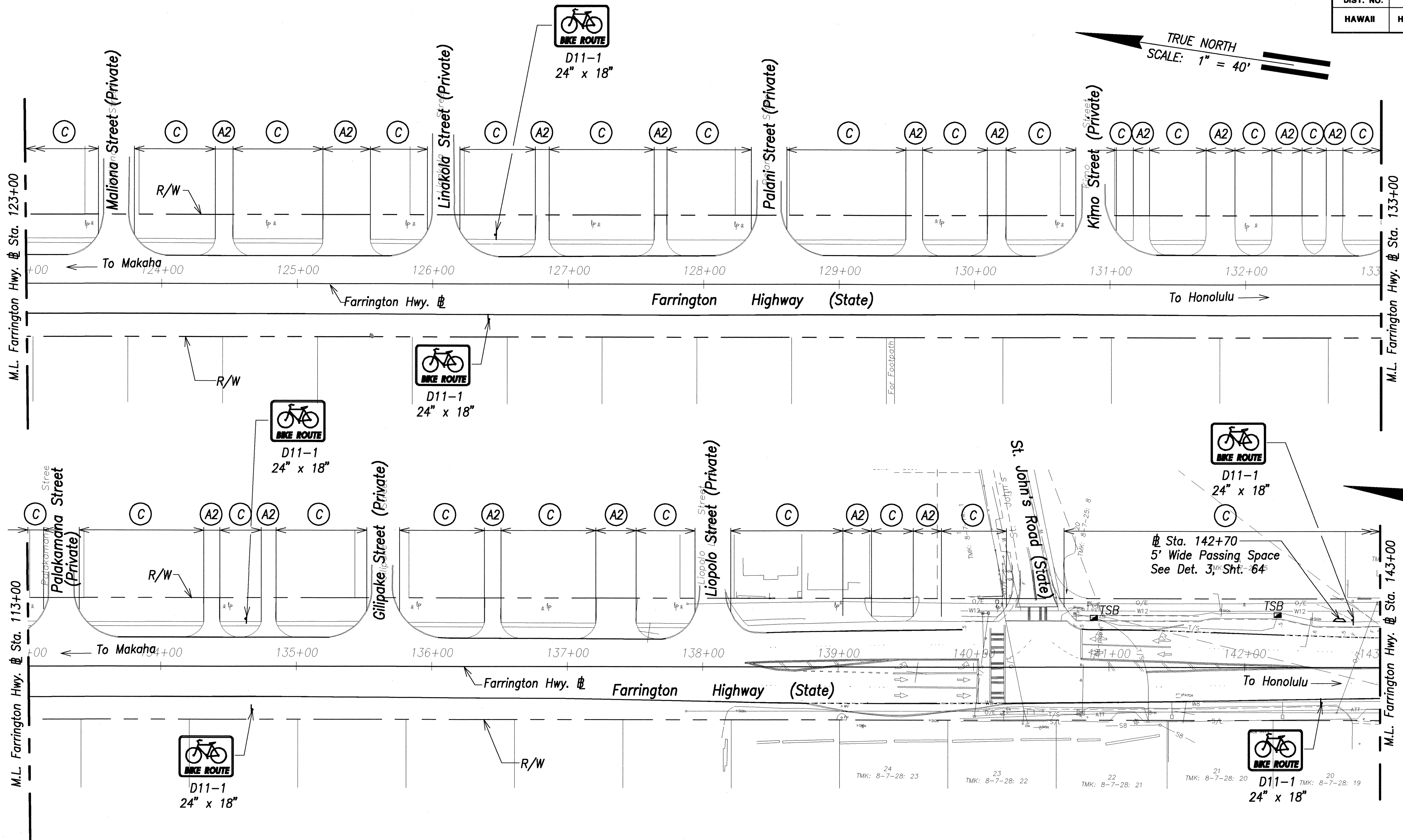
SHOULDER RECONSTRUCTION
PLAN - 3

FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 50 OF 98 SHEETS

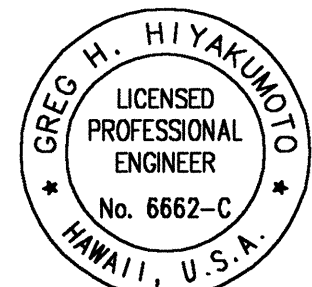
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	51	98



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

Note:

- For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.
- All utility valve box frames and covers, meter boxes, manhole frames and covers shall be adjusted to new finish grade unless otherwise noted on the plans.



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SIGNATURE: *Greg H. Hiyakumoto* April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

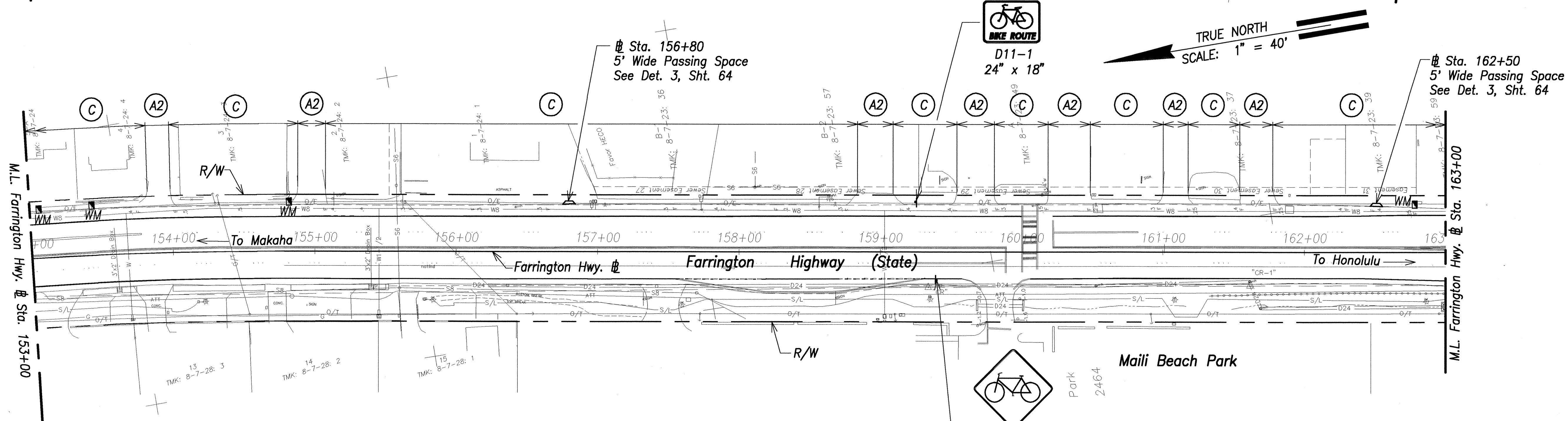
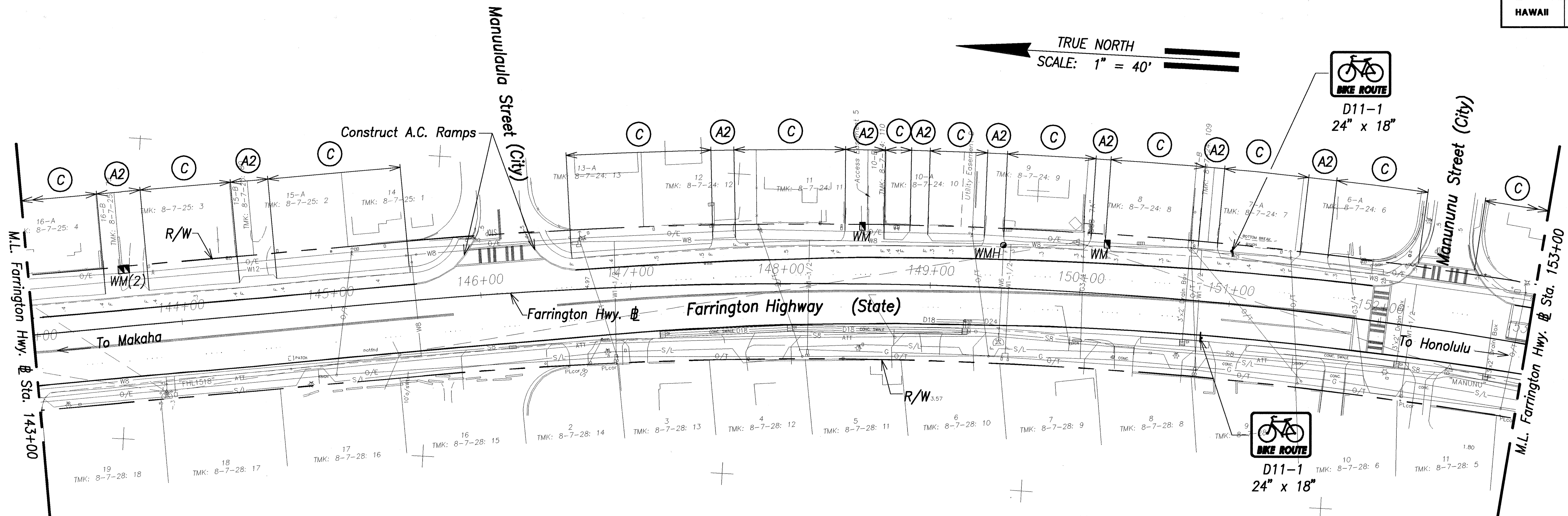
SHOULDER RECONSTRUCTION
PLAN - 4

FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 51 OF 98 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	52	98



Note:

- For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.
- All utility valve box frames and covers, meter boxes, manhole frames and covers shall be adjusted to new finish grade unless otherwise noted on the plans.

APPROVED:

Joseph W. Keenan
Principal Executive
Maintenance Unit, BWS

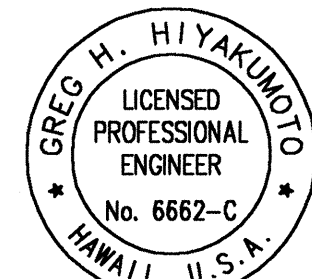
5/6/03
Date



W11-1
30" x 30"

**SHARE
THE
ROAD**

W16-1
24" x 30"



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OR UNDER MY SUPERVISION.

SIGNATURE: *Greg H. Hiakimoto* April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER RECONSTRUCTION
PLAN - 5

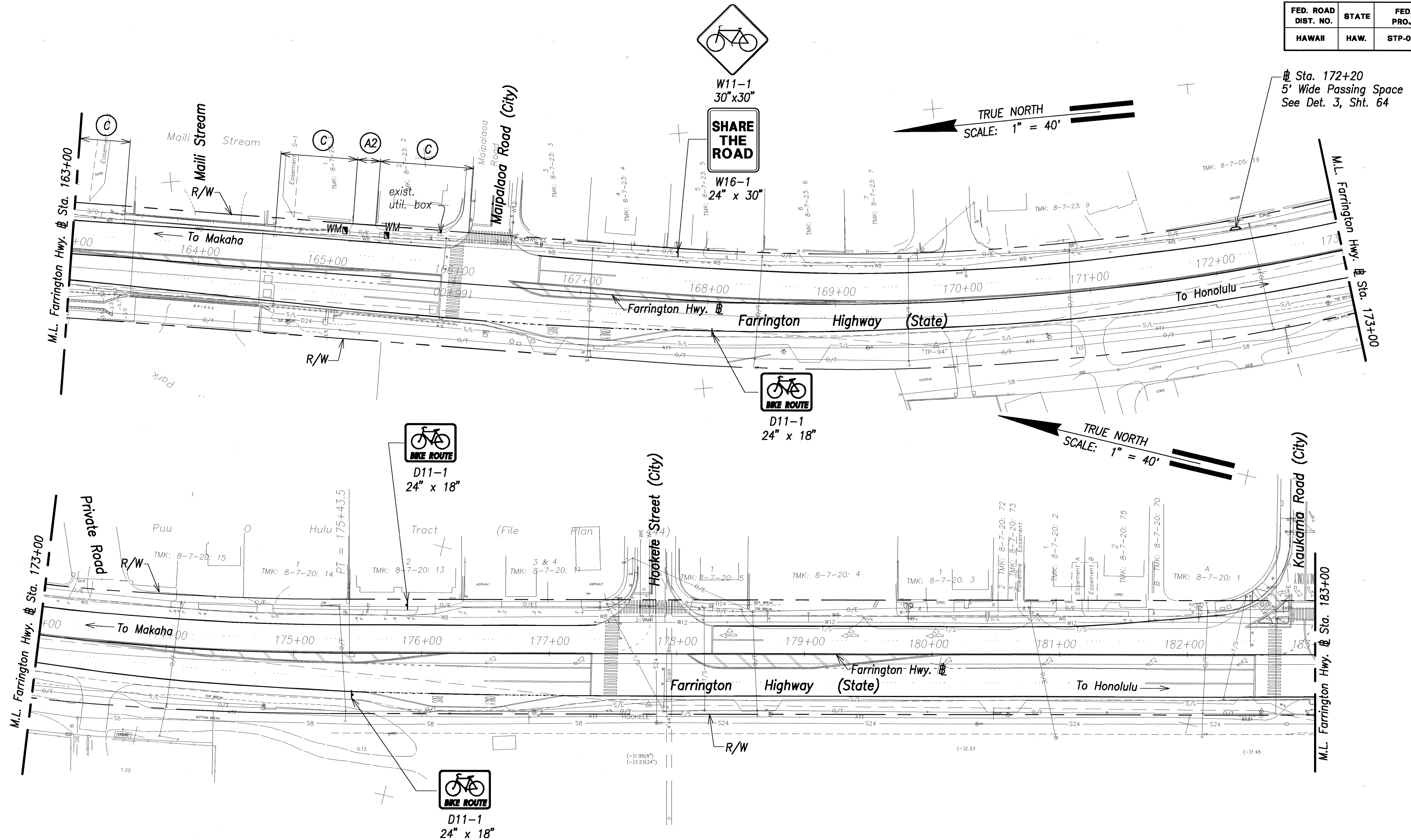
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 52 OF 98 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN 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.	STP-093-1(18)	2003	53	98



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

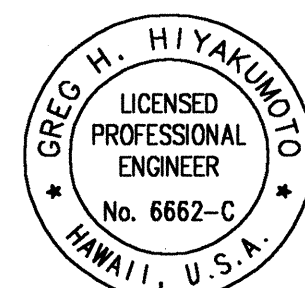
Note:

- For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.
- All utility valve box frames and covers, meter boxes, manhole frames and covers shall be adjusted to new finish grade unless otherwise noted on the plans.

APPROVED:

Joseph W. Keane
Principal Executive
Maintenance Unit, BWS

5/6/03
Date

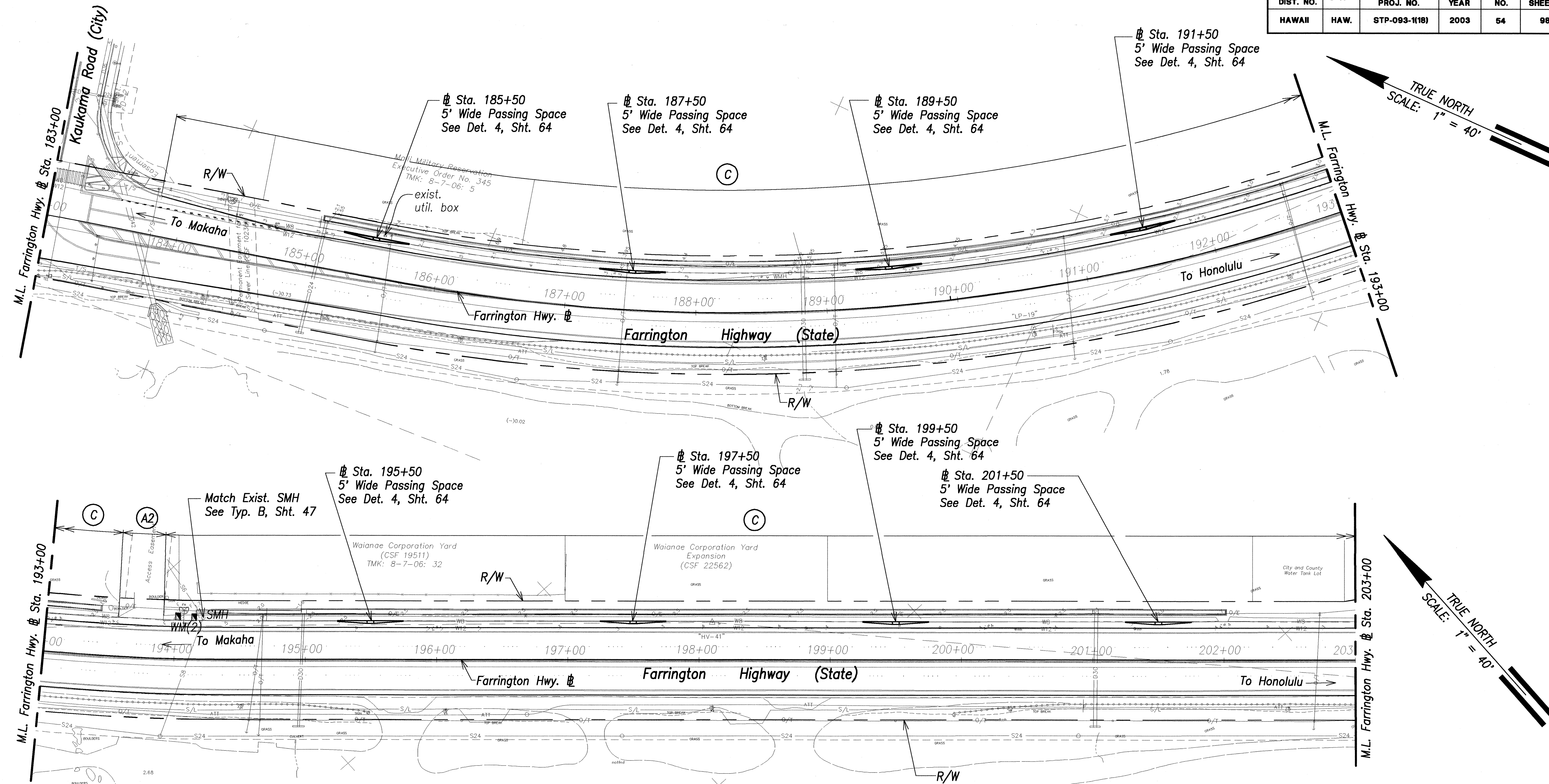


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SIGNATURE *Greg H. Hiyakimoto* April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SHOULDER RECONSTRUCTION
PLAN - 6
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)
Scale: 1"=40' Date: 04/23/03
SHEET No. 53 OF 98 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	54	98



Notes:

- For Location of "Bike Route" Signs from Kaukama Road to Sta. 235+00 Farrington Hwy. See Median Barrier Signing & Striping Plans.
- For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.
- All utility valve box frames and covers, meter boxes, manhole frames and covers shall be adjusted to new finish grade unless otherwise noted on the plans.

APPROVED:

[Signature]
Principal Executive
Maintenance Unit, BWS *DP*

5/6/03
Date

[Signature]
Chief, Wastewater Branch, DPP *m*

5/15/03
Date



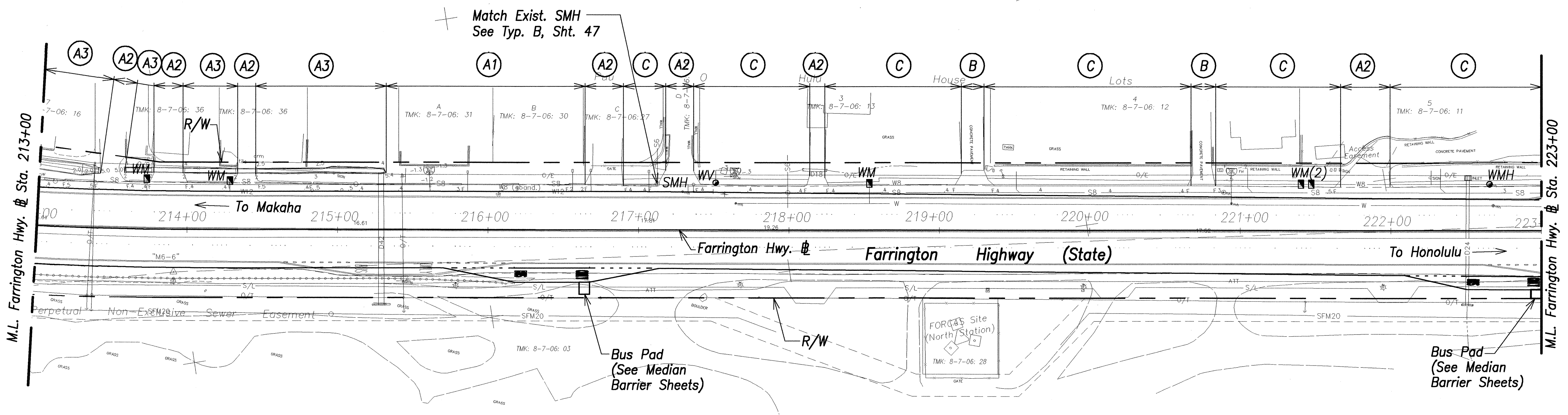
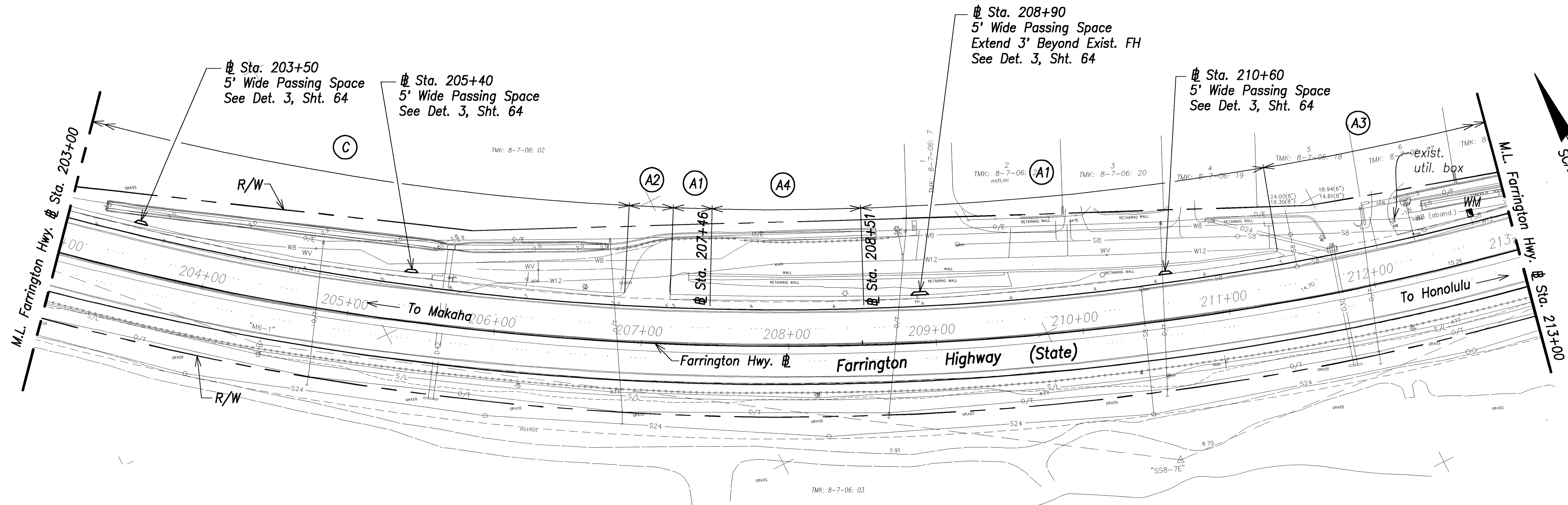
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

[Signature] April 30, 2004
SIGNATURE DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SHOULDER RECONSTRUCTION
PLAN - 7
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)
Scale: 1"=40' Date: 04/23/03
SHEET No. 54 OF 98 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES 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.	STP-093-1(18)	2003	55	98



Notes:

1. For Location of "Bike Route" Signs from Kaukama Road to Sta. 235+00 Farrington Hwy. See Median Barrier Signing & Striping Plans.
2. For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.
3. All utility valve box frames and covers, meter boxes, manhole frames and covers shall be adjusted to new finish grade unless otherwise noted on the plans.

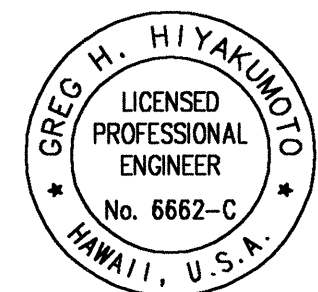
APPROVED:

Dennis M. Nishimura
Chief, Wastewater Branch, DPP *m*

5/15/03
Date

Paul W. Kachun
Principal Executive
Maintenance Unit, BWS *op*

5/16/03
Date



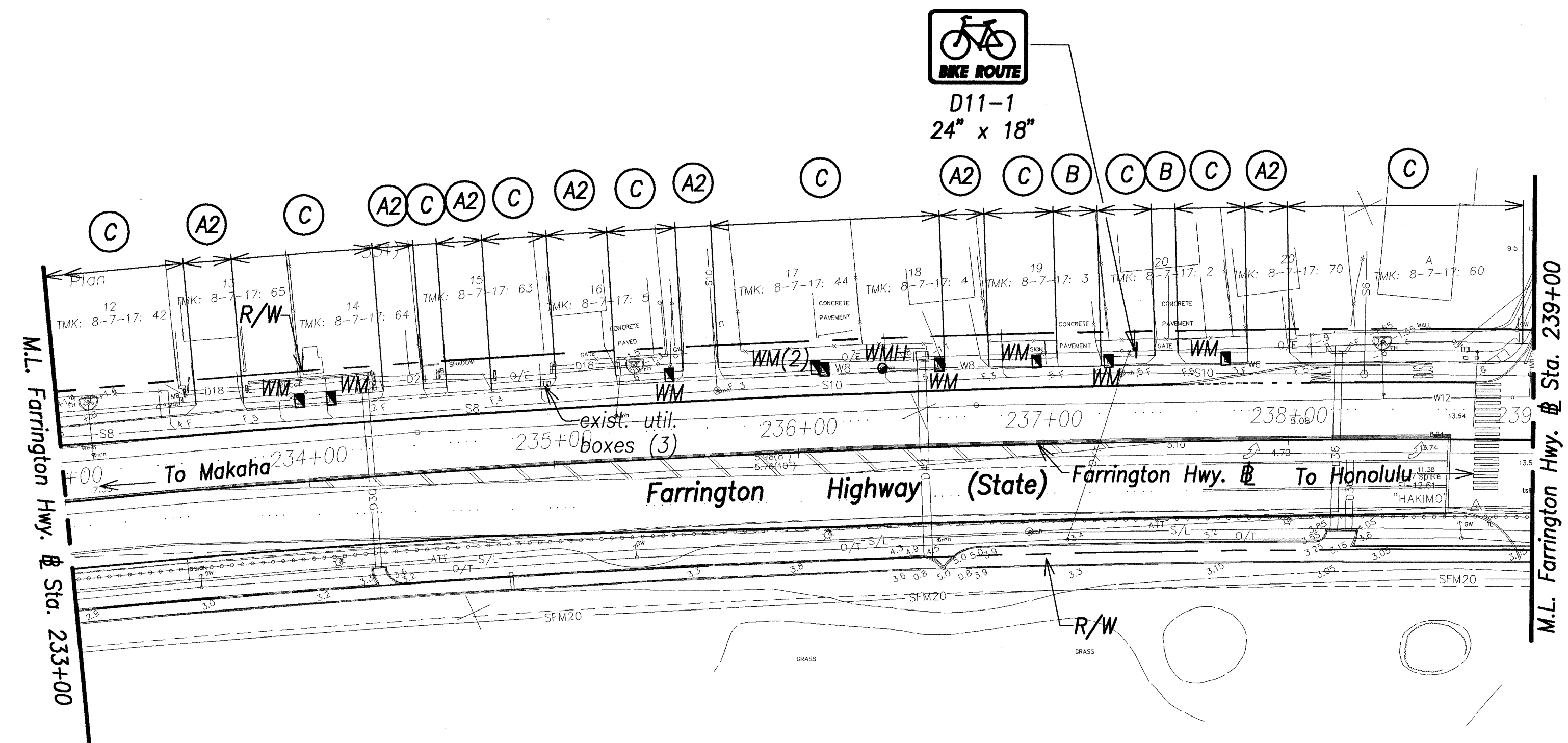
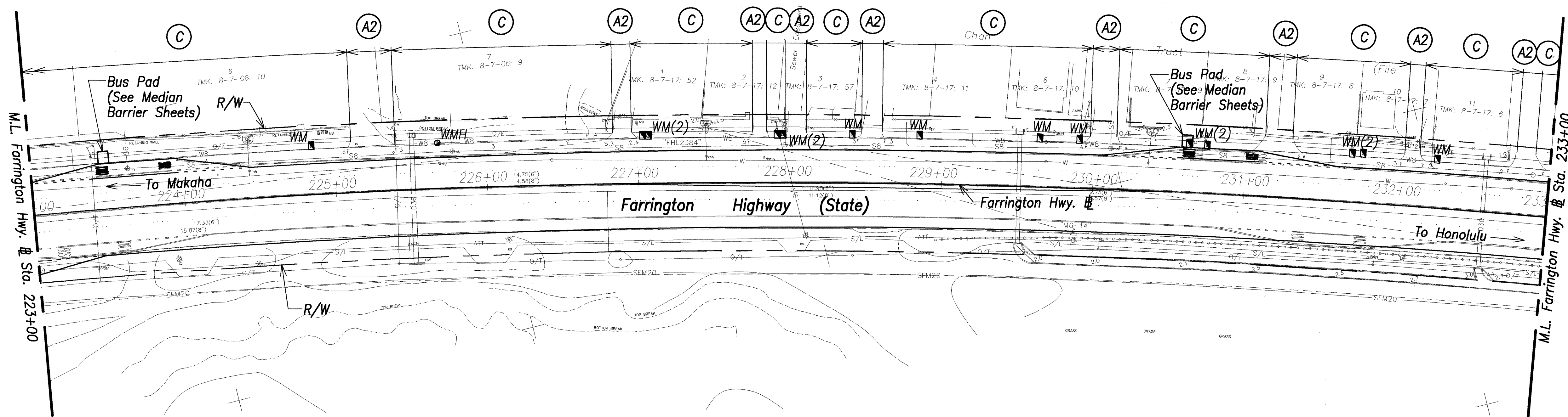
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Greg H. Hiyanoto April 30, 2004
SIGNATURE DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SHOULDER RECONSTRUCTION
PLAN - 8
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)
Scale: 1"=40' Date: 04/23/03
SHEET No. 55 OF 98 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
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.	STP-093-1(18)	2003	56	98



- Note:**
- For Location of "Bike Route" Signs from Kaukama Road to Sta. 235+00 Farrington Hwy. See Median Barrier Signing & Striping Plans
 - For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.
 - All utility valve box frames and covers, meter boxes, manhole frames and covers shall be adjusted to new finish grade unless otherwise noted on the plans.

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

APPROVED:

Greg W. Kahan
Principal Executive
Maintenance Unit, BWS

5/2/03
Date



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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER RECONSTRUCTION
PLAN - 9

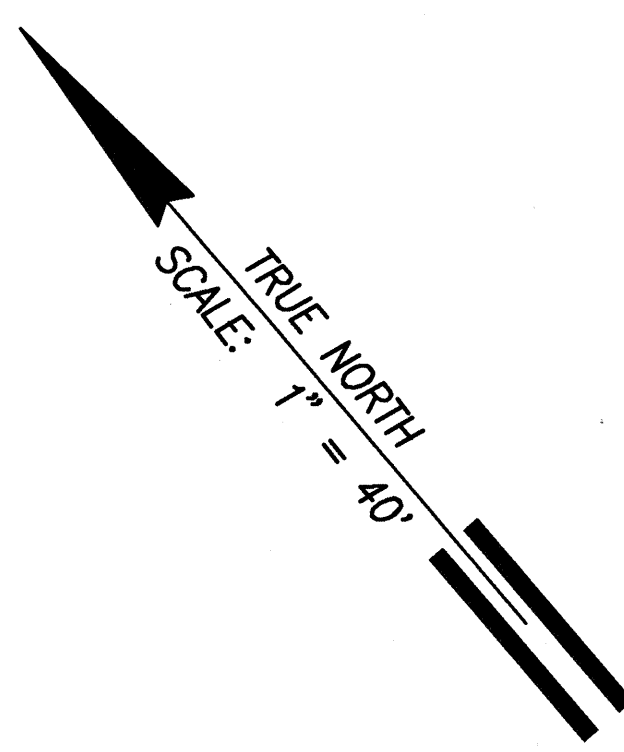
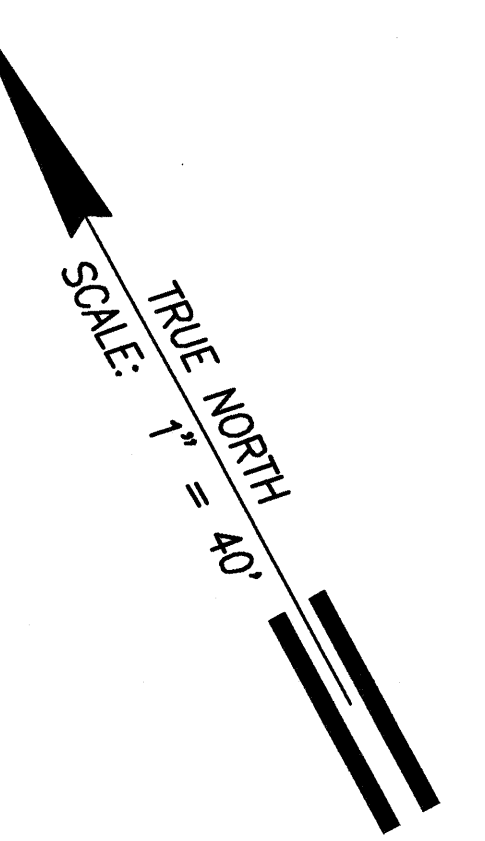
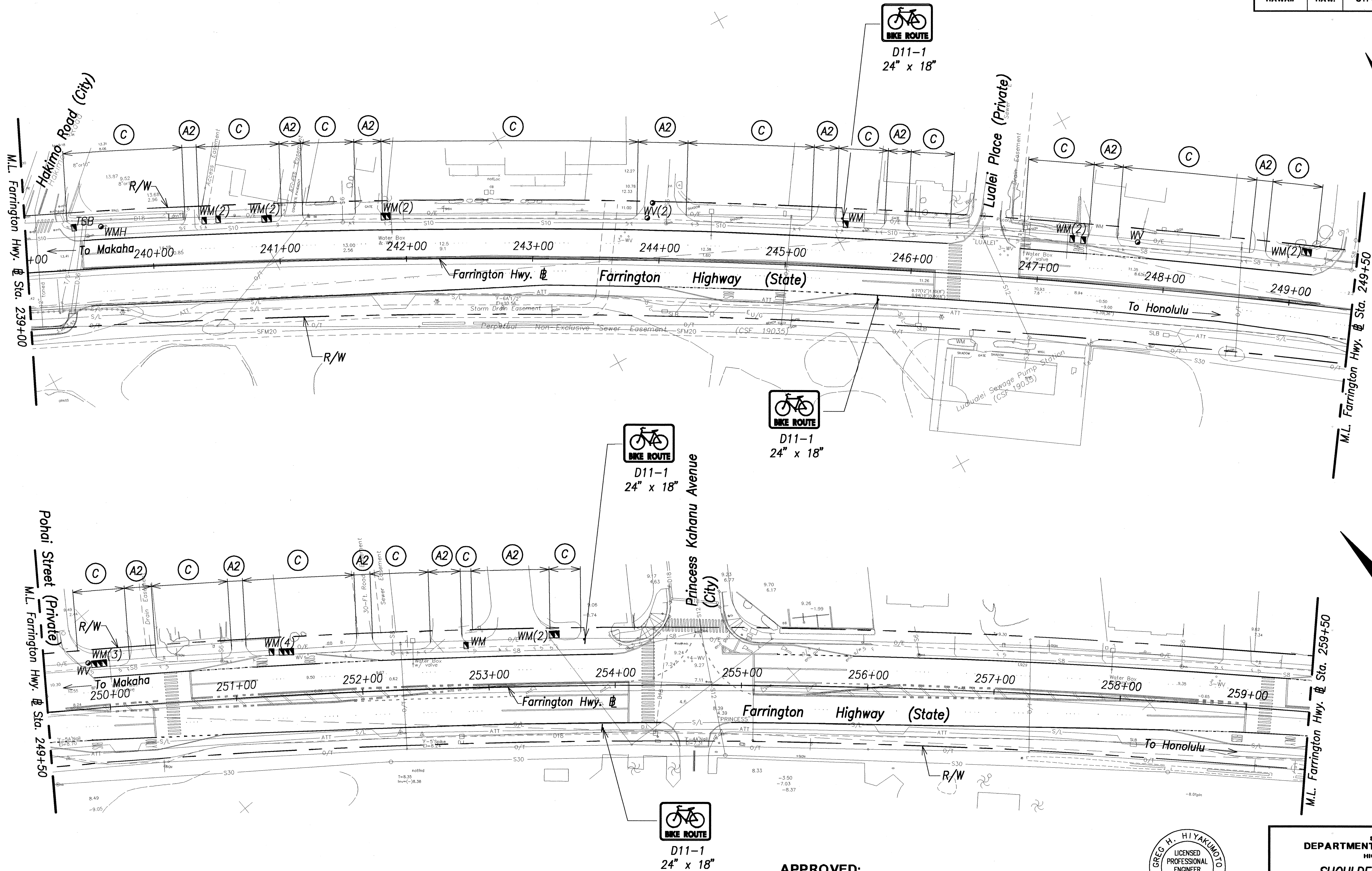
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40'

Date: 04/23/03

SHEET No. 56 OF 98 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	57	98



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

Note:
For all shoulder reconstruction work refer to Shoulder Reconstruction Notes on sheets 8 & 9.

APPROVED:

[Signature]
Principal Executive
Maintenance Unit, BWS

[Signature]
Date



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April 30, 2004
SIGNATURE *[Signature]* EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

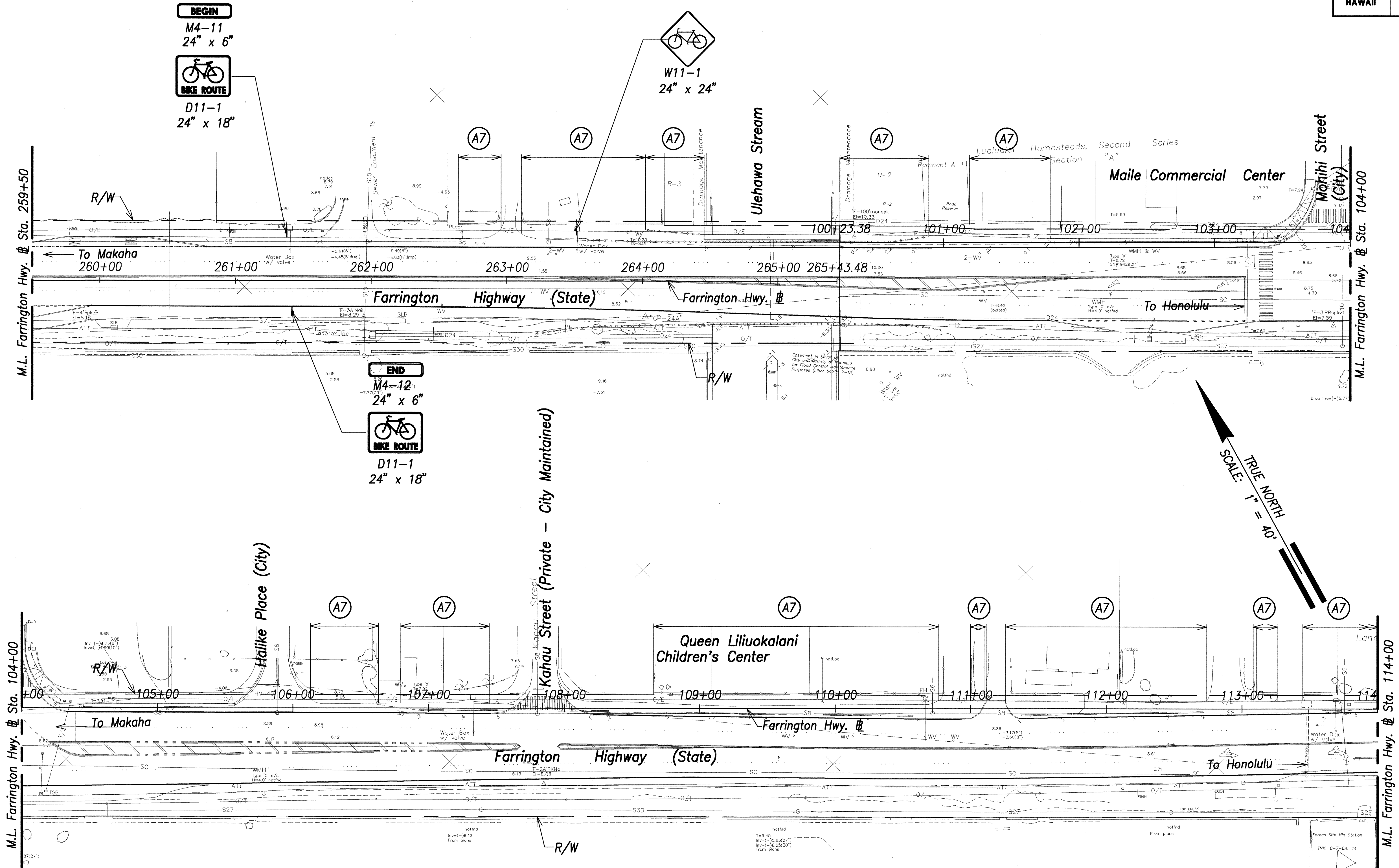
SHOULDER RECONSTRUCTION
PLAN - 10

FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 57 OF 98 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	58	98



DATE	_____
SURVEY PLANNED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

Note:
For all shoulder reconstruction work
refer to Shoulder Reconstruction
Notes on sheets 8 & 9.



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OR UNDER MY SUPERVISION.

SIGNATURE: *Greg H. Hiyakumoto* April 30, 2004
7/5/03 EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

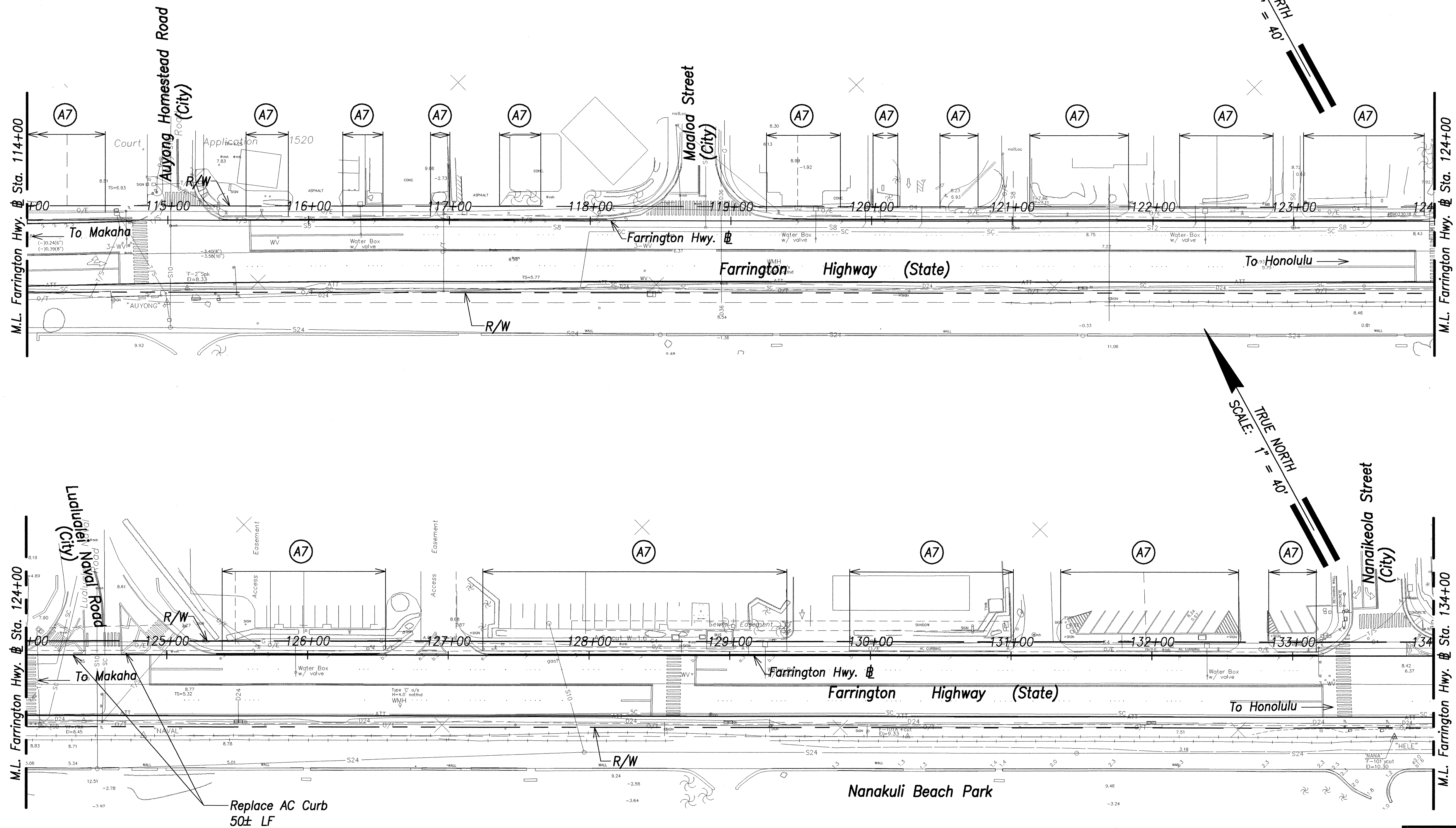
SHOULDER RECONSTRUCTION
PLAN - 11

FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 58 OF 98 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	59	98

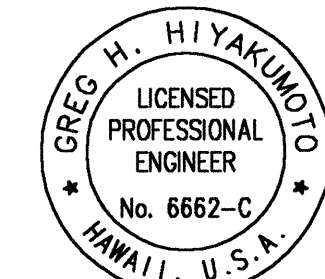


TRUE NORTH
SCALE: 1" = 40'

TRUE NORTH
SCALE: 1" = 40'

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

Note:
For all shoulder reconstruction work
refer to Shoulder Reconstruction
Notes on sheets 8 & 9.



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OR UNDER MY SUPERVISION.

April 30, 2004
EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

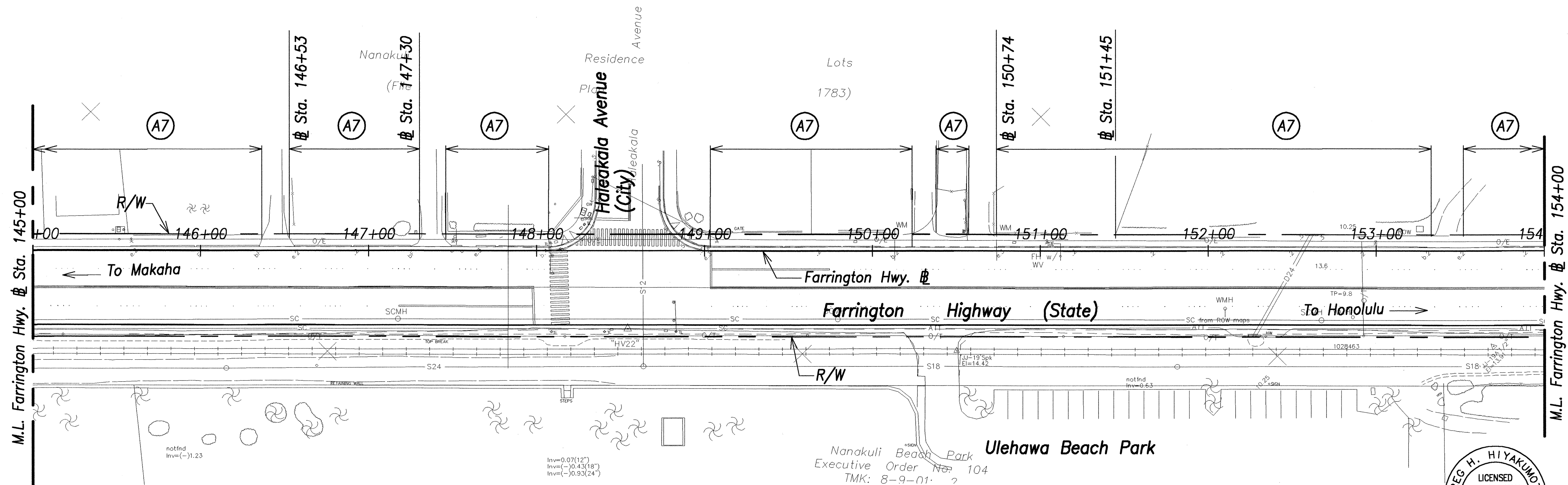
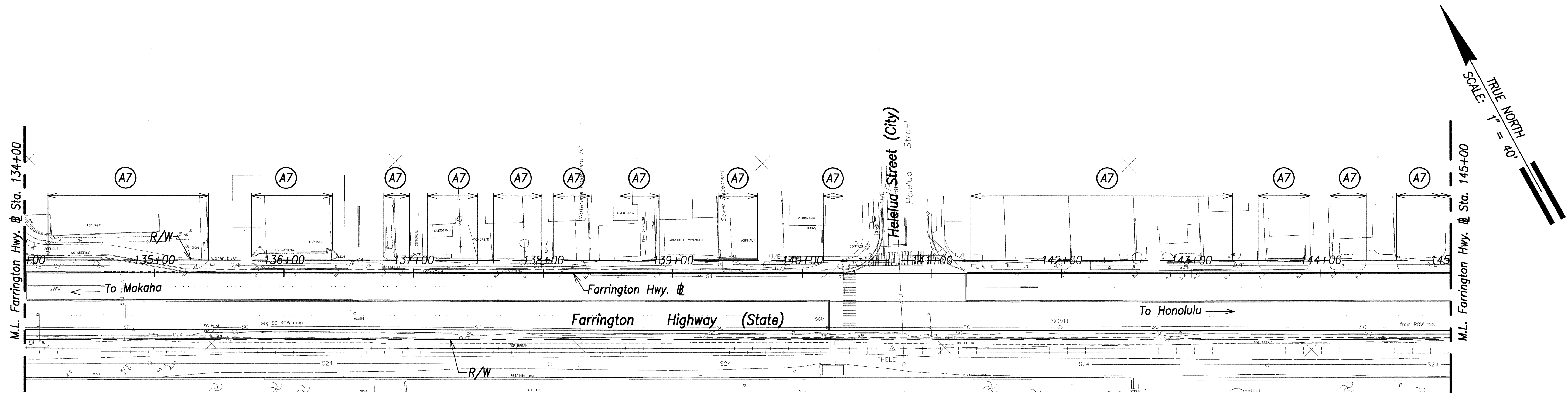
**SHOULDER RECONSTRUCTION
PLAN - 12**

**FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)**

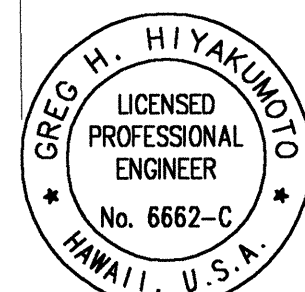
Scale: 1"=40' Date: 04/23/03

SHEET No. 59 OF 98 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	60	98



Note:
For all shoulder reconstruction work
refer to Shoulder Reconstruction
Notes on sheets 8 & 9.



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OR UNDER MY SUPERVISION.

April 30, 2004
EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER RECONSTRUCTION
PLAN - 13

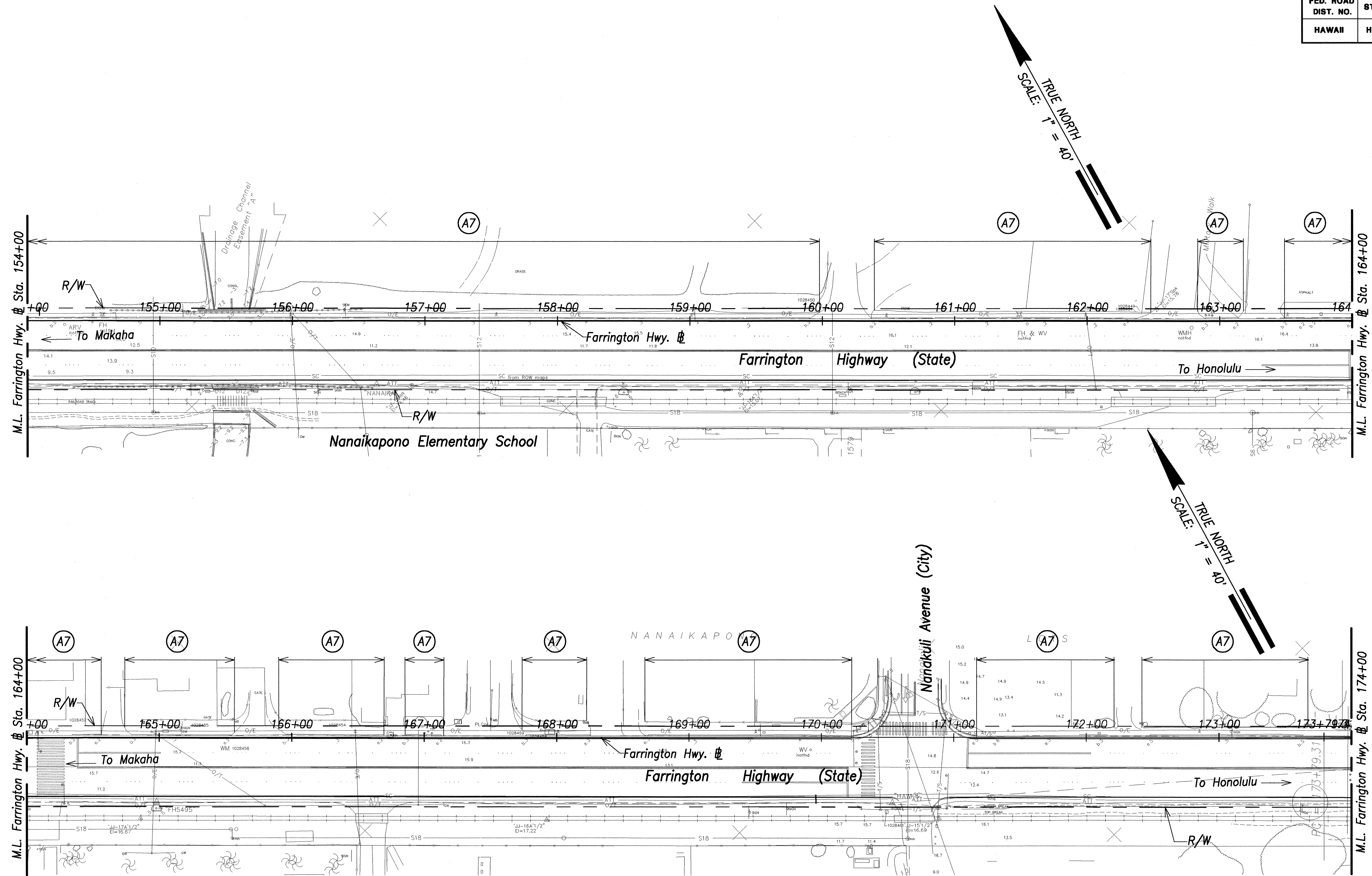
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 60 OF 98 SHEETS

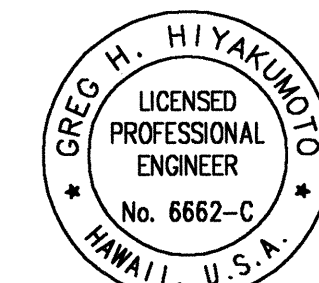
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	61	98



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

Note:
For all shoulder reconstruction work
refer to Shoulder Reconstruction
Notes on sheets 8 & 9.



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

SIGNATURE: *Greg H. Hiyaunio* April 30, 2004
7/5/03 EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

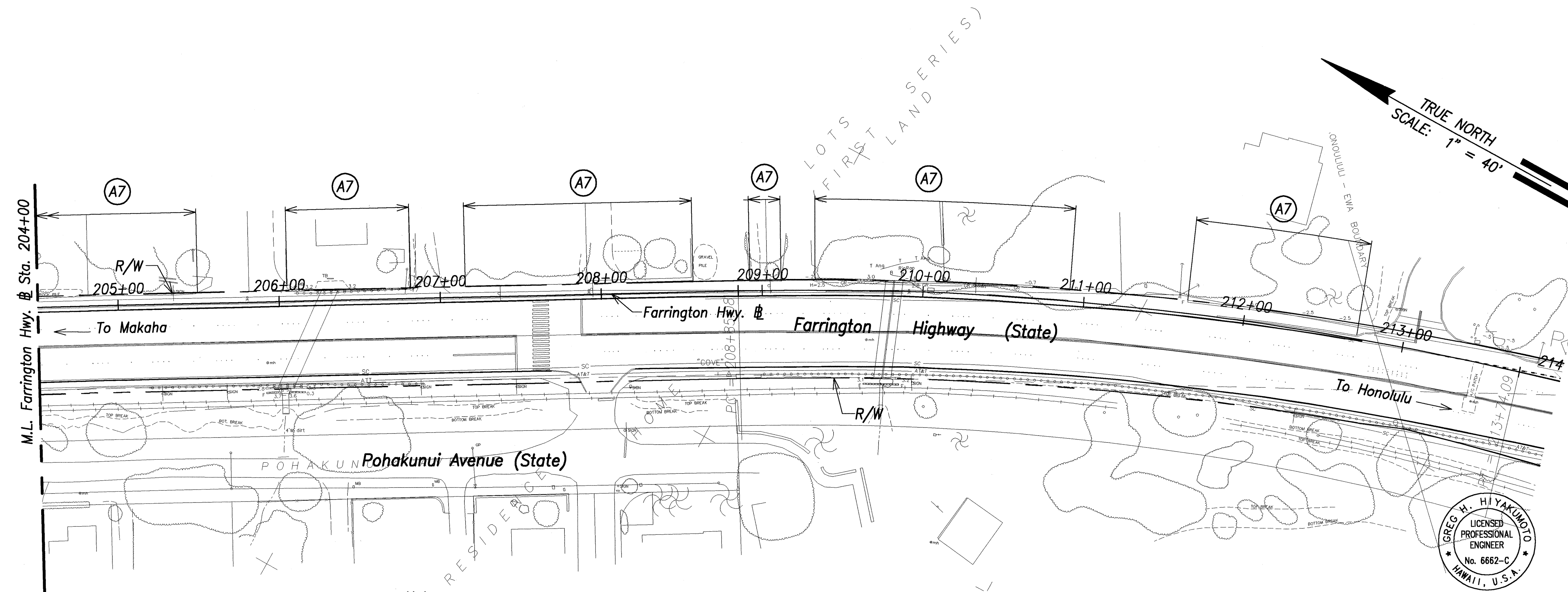
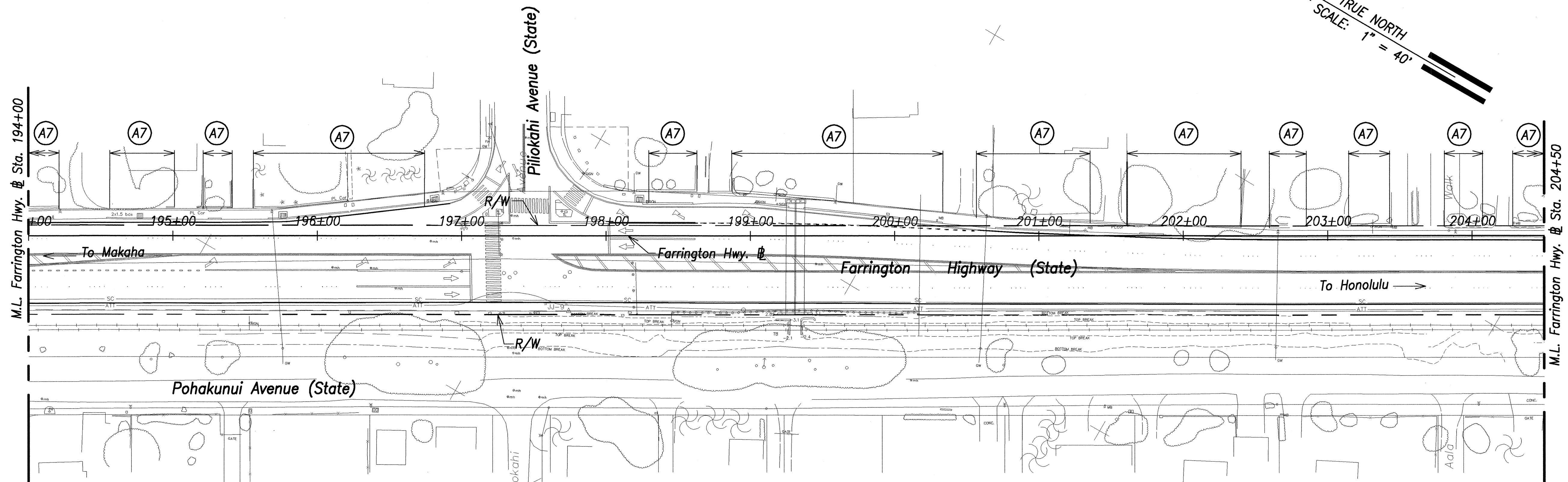
SHOULDER RECONSTRUCTION
PLAN - 14

FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 61 OF 98 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	63	98



Note:
For all shoulder reconstruction work
refer to Shoulder Reconstruction
Notes on sheets 8 & 9.



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April 30, 2004
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER RECONSTRUCTION
PLAN - 16

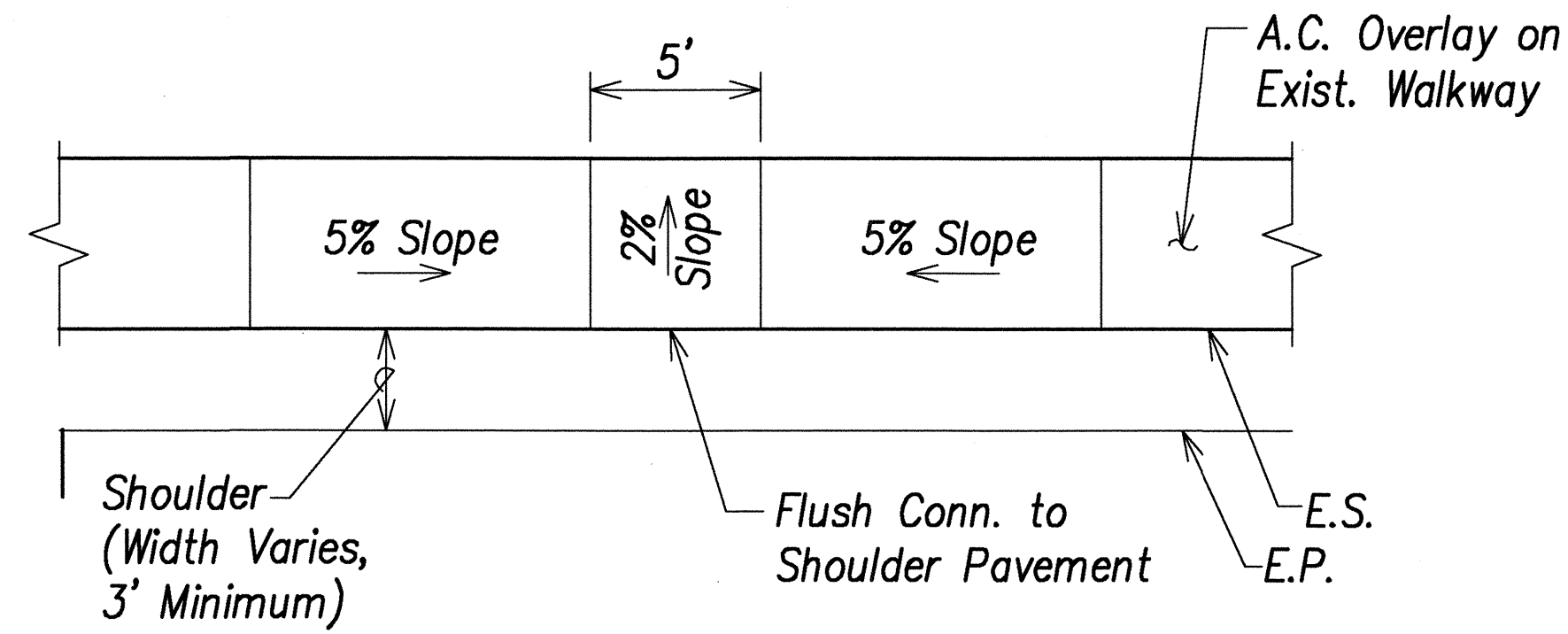
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: 1"=40' Date: 04/23/03

SHEET No. 63 OF 98 SHEETS

DATE	_____
SURVEY PLANNED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
No.	_____

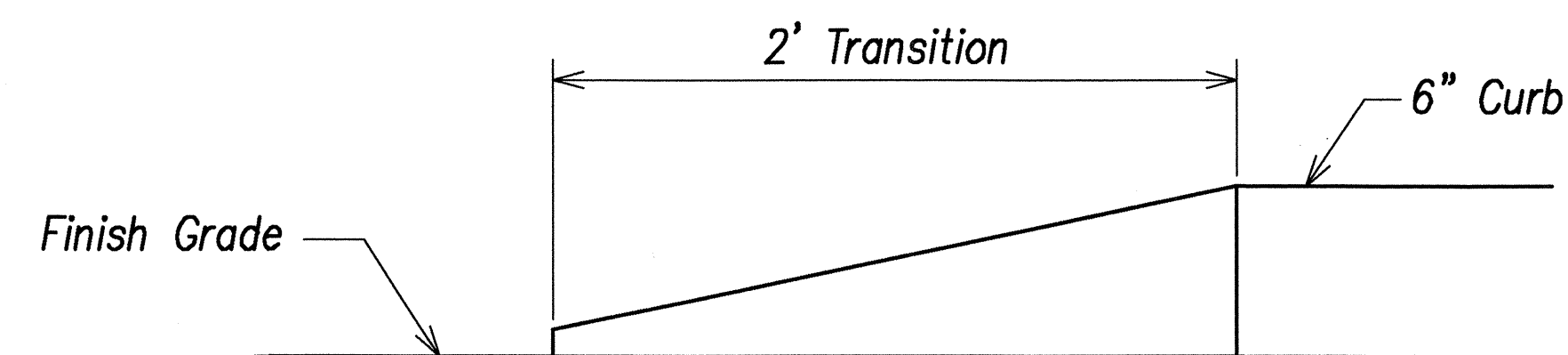
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	64	98



PASSING SPACE AT DRAIN OPENING

SCALE: 1" = 5'

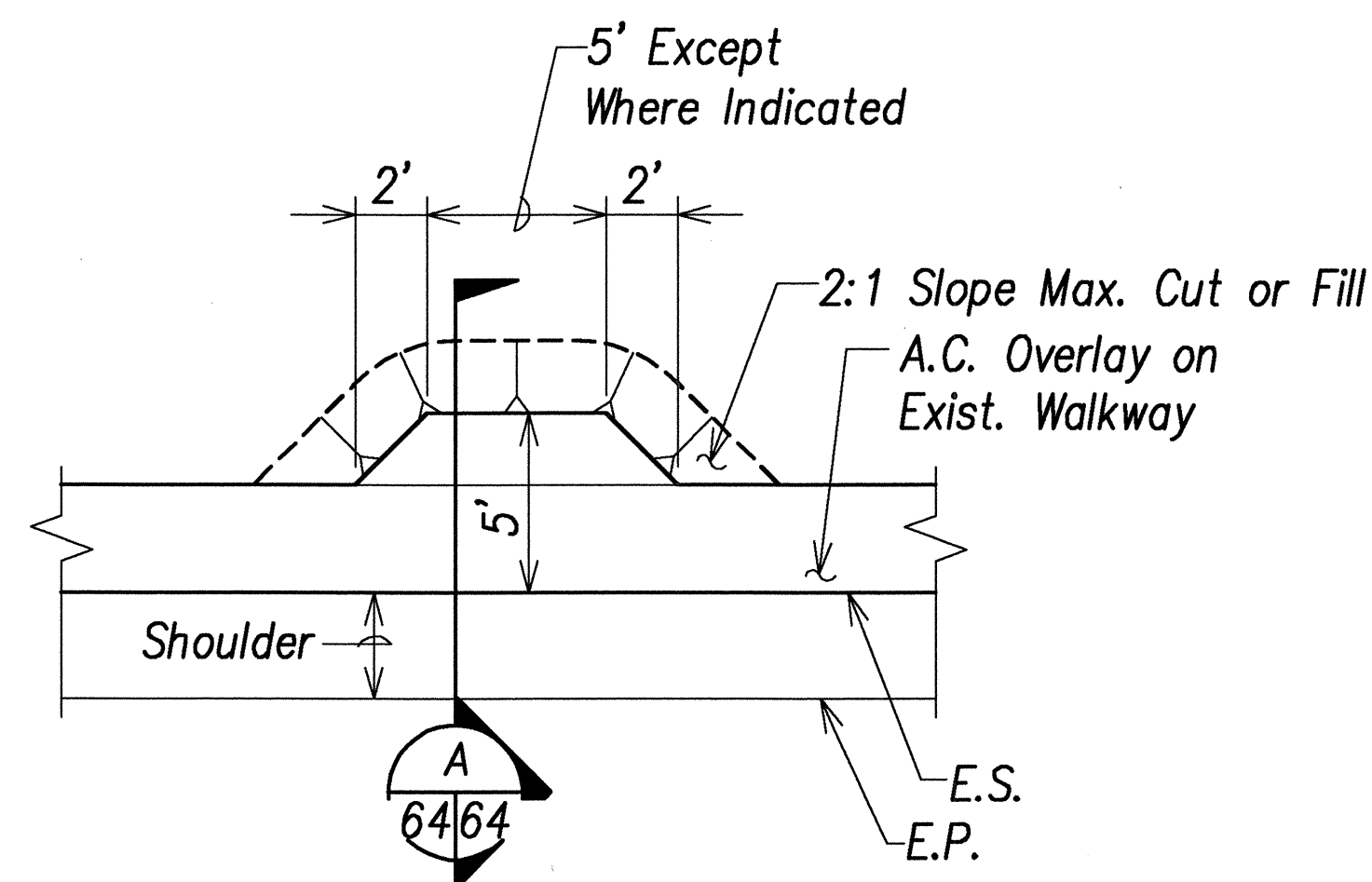
Various 1/64



PROFILE: CURB TRANSITION

SCALE: 1" = 0'-6"

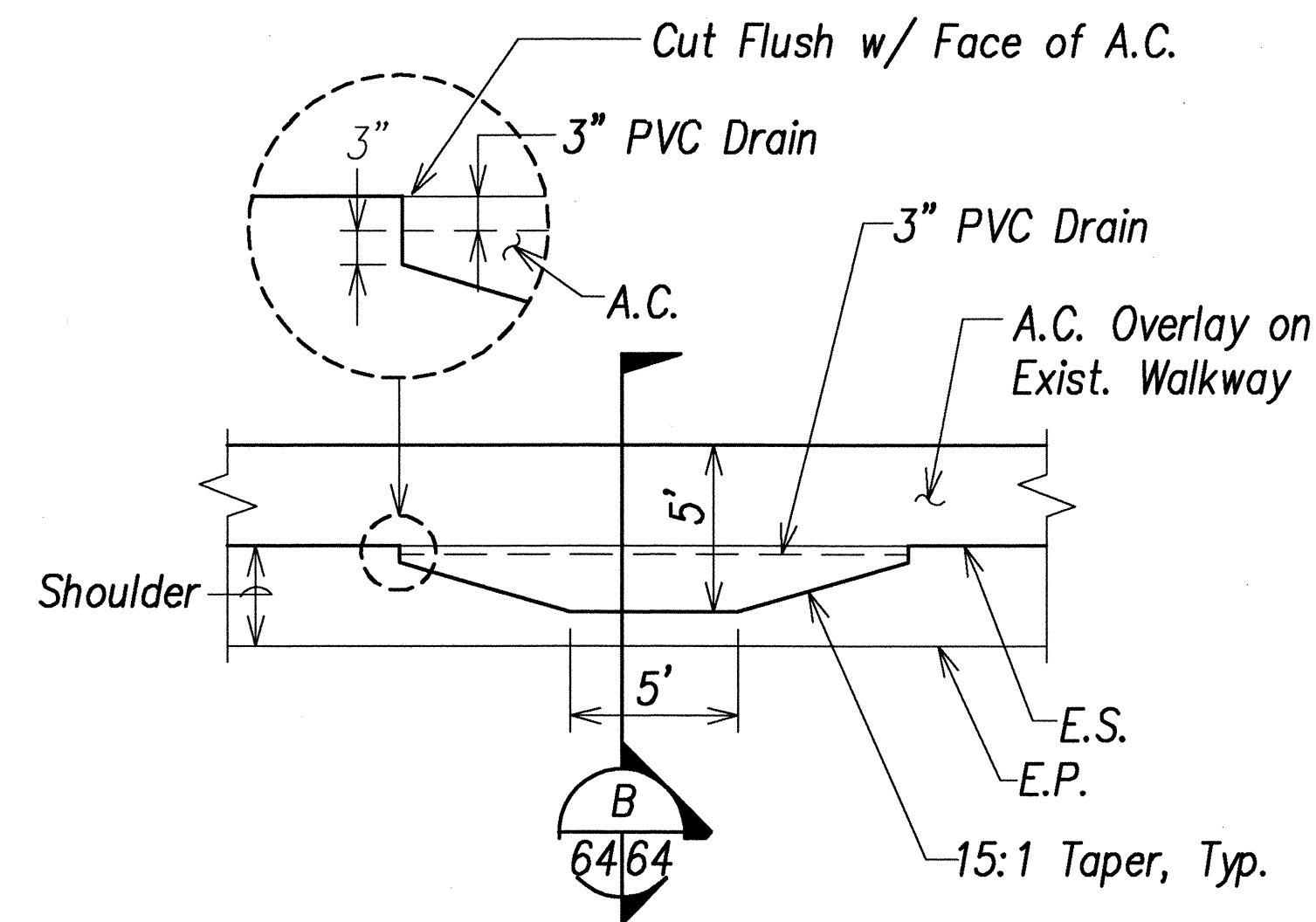
Various 64



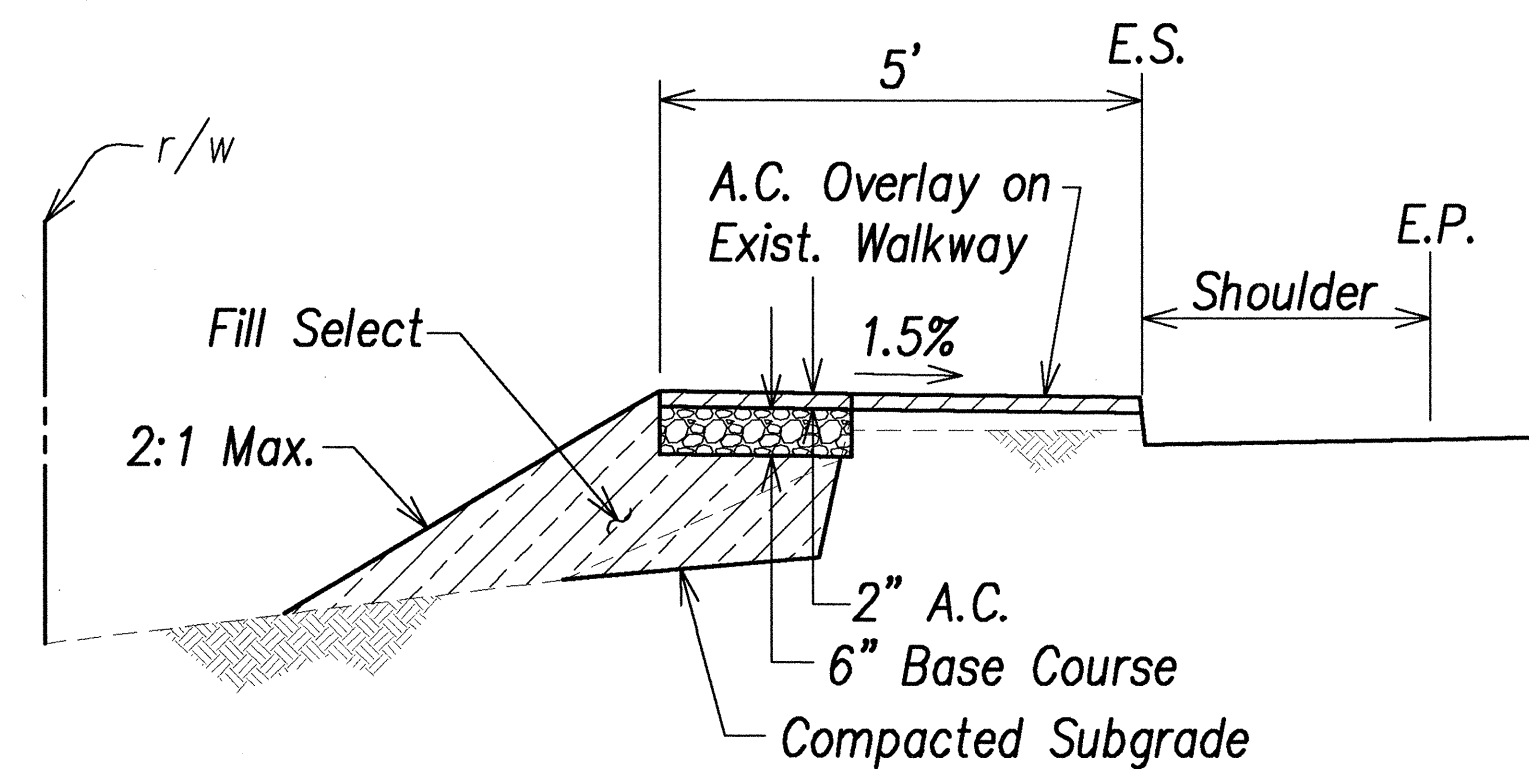
PASSING SPACE AT A.C. WALKWAY

SCALE: 1" = 5'

Various 3 64



PASSING SPACE AT A.C. WALKWAY
(SHOULDER SIDE)
SCALE: 1" = 5' 4
Various 64

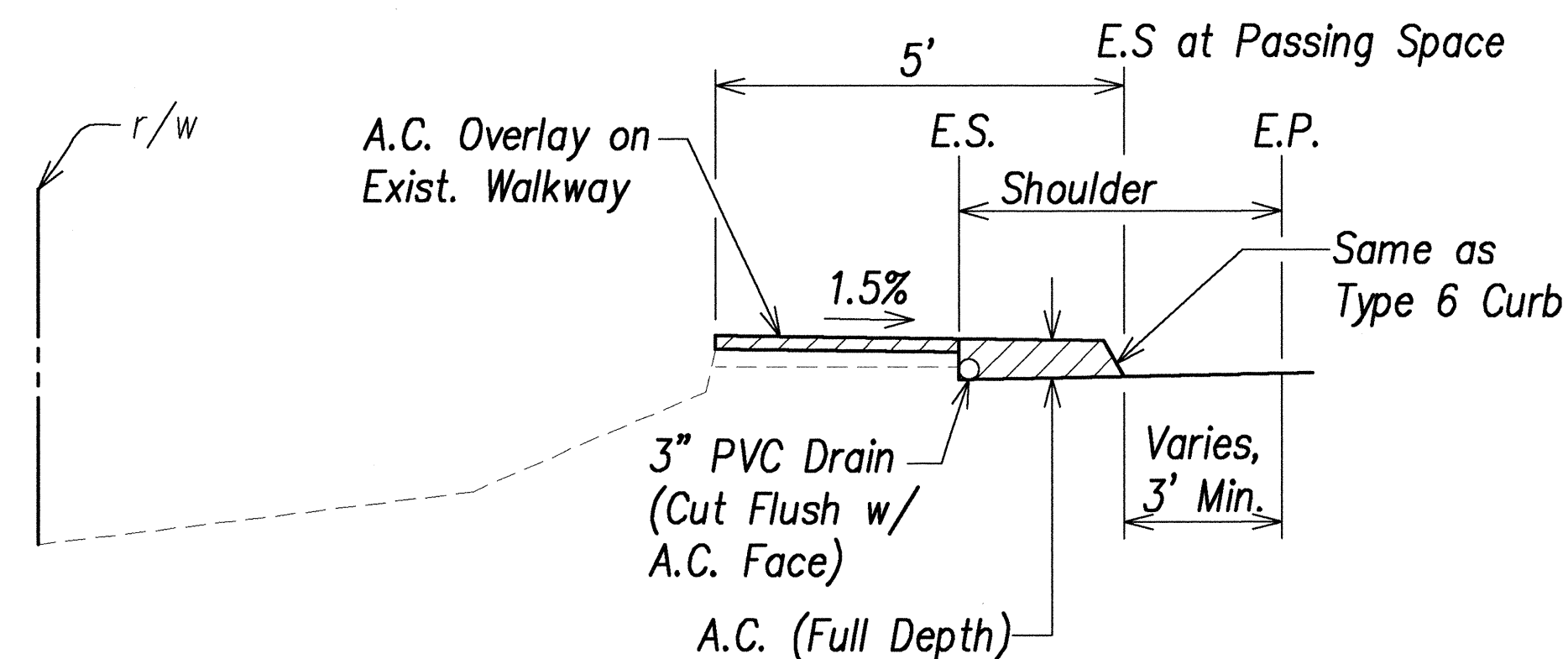


SECTION

SCALE: 1" = 2'

A

64 64



SECTION

SCALE: 1" = 2'

B

64 | 64



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OR UNDER MY SUPERVISION.

[Signature] April 30, 2004
SIGNATURE 7/5/03 EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHOULDER RECONSTRUCTION
DETAILS

FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: as shown Date: 04/23/03

SHEET No. 64 OF 98 SHEETS