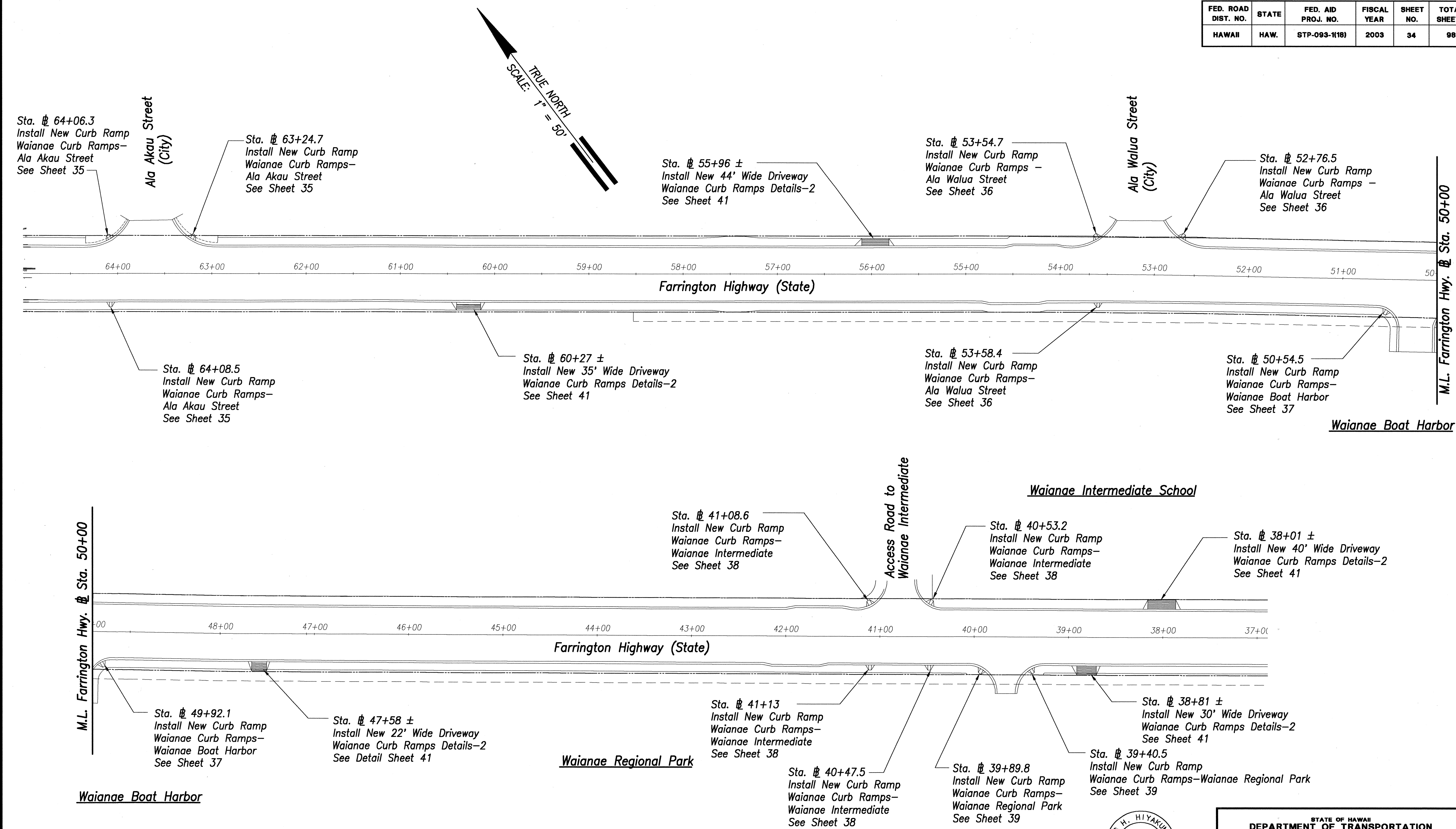


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	34	98



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

APPROVED:

M. J. [Signature] 5/7/03
Chief, Civil Engineering Branch, DPP DATE

THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

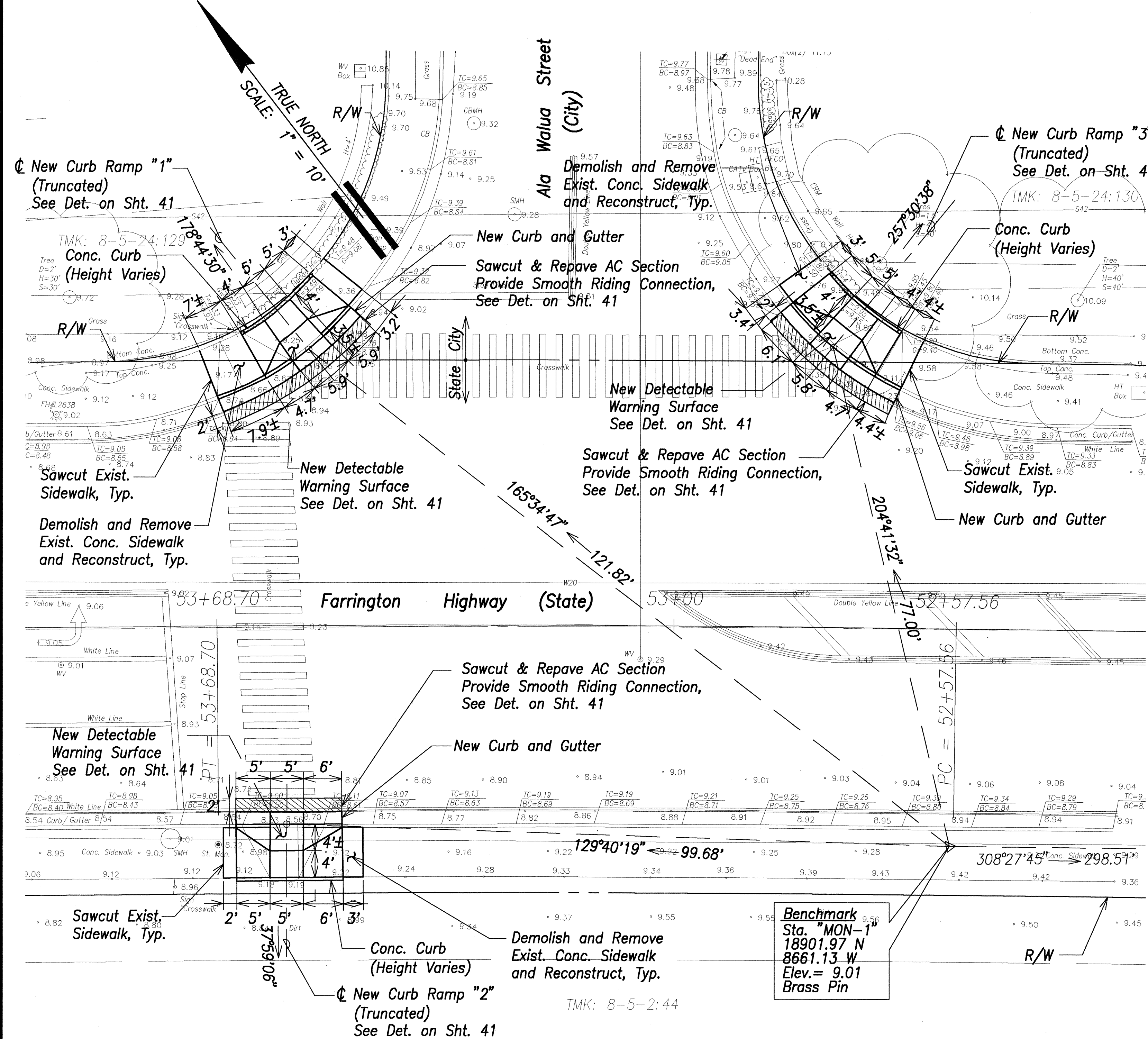
WAIANAE CURB RAMPS
SITE PLAN

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

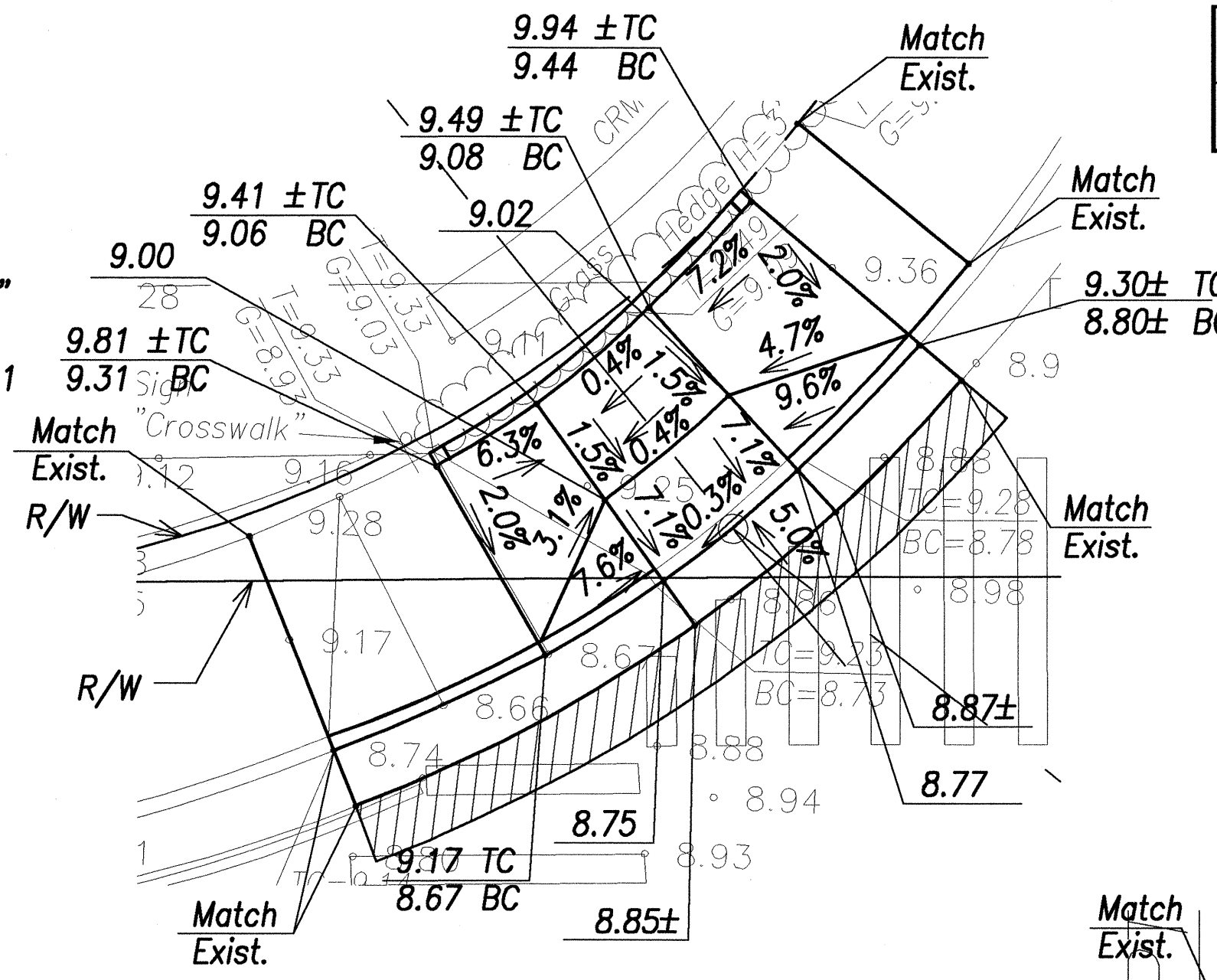
Scale: None Date: 04/23/03

SHEET No. 34 OF 98 SHEETS

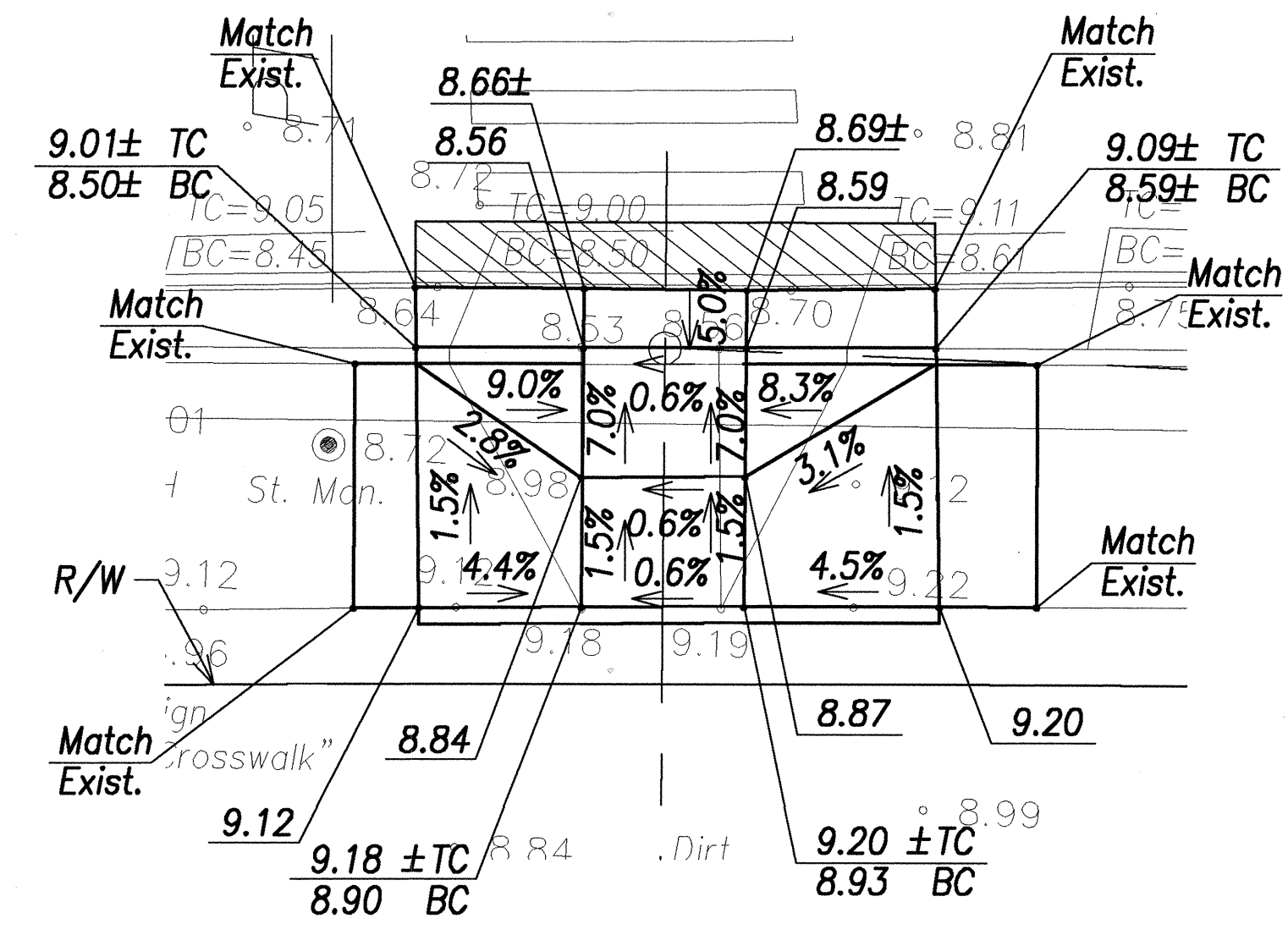
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	36	98



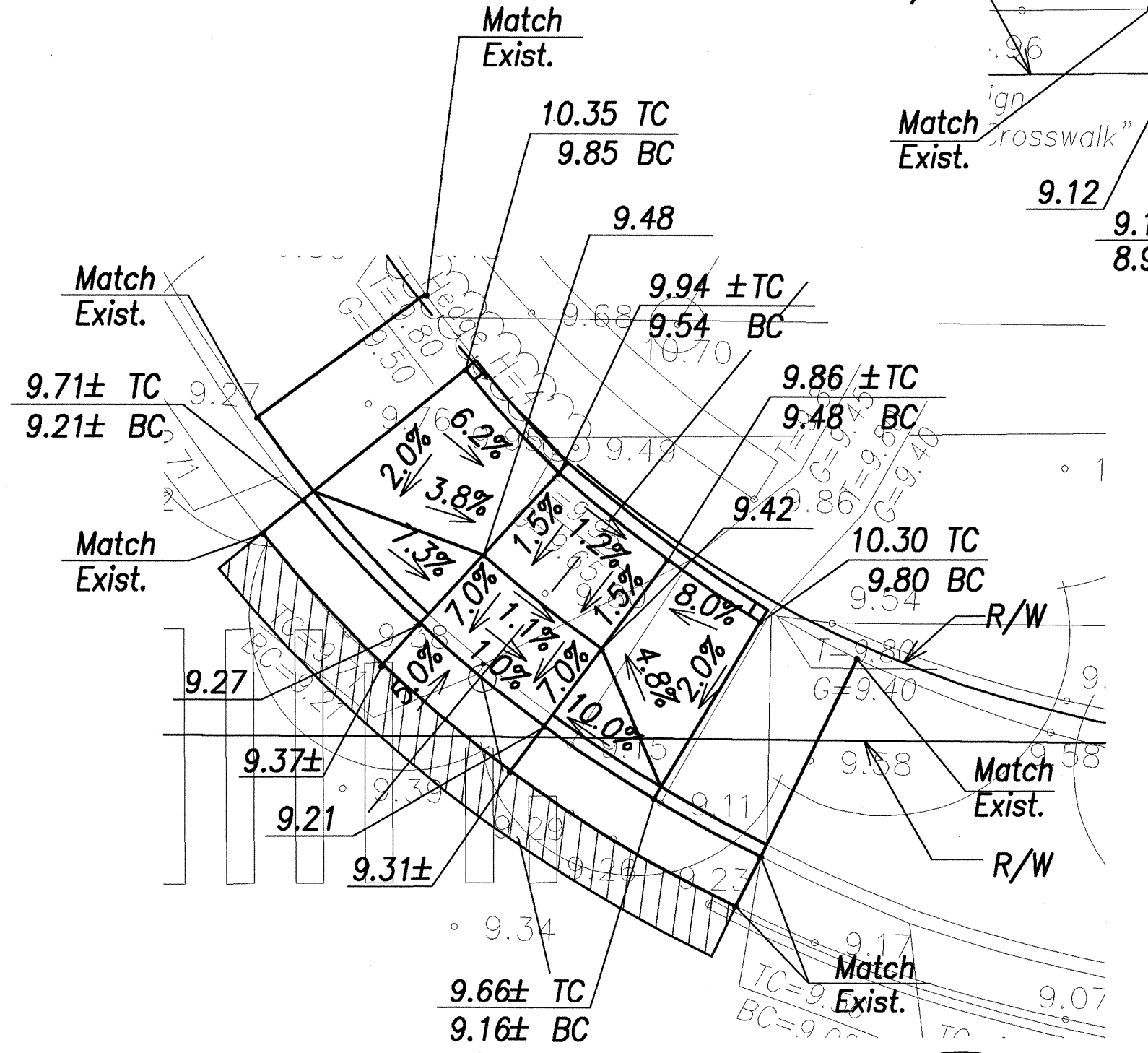
CURB RAMP SITE PLAN – ALA WALUA ST. & FARRINGTON HWY.
 Scale: 1" = 10'



CURB RAMP "1"
 Scale: 1" = 5'



CURB RAMP "2"
 Scale: 1" = 5'



CURB RAMP "3"
 Scale: 1" = 5'

APPROVED:

M. F.
 Chief, Civil Engineering Branch, DPP

5/7/03
 Date

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Greg H. Hiyakimoto
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

WAIANAE CURB RAMPS

ALA WALUA STREET

FARRINGTON HIGHWAY SAFETY IMPROVEMENTS

NANAKULI TO MAKAHA

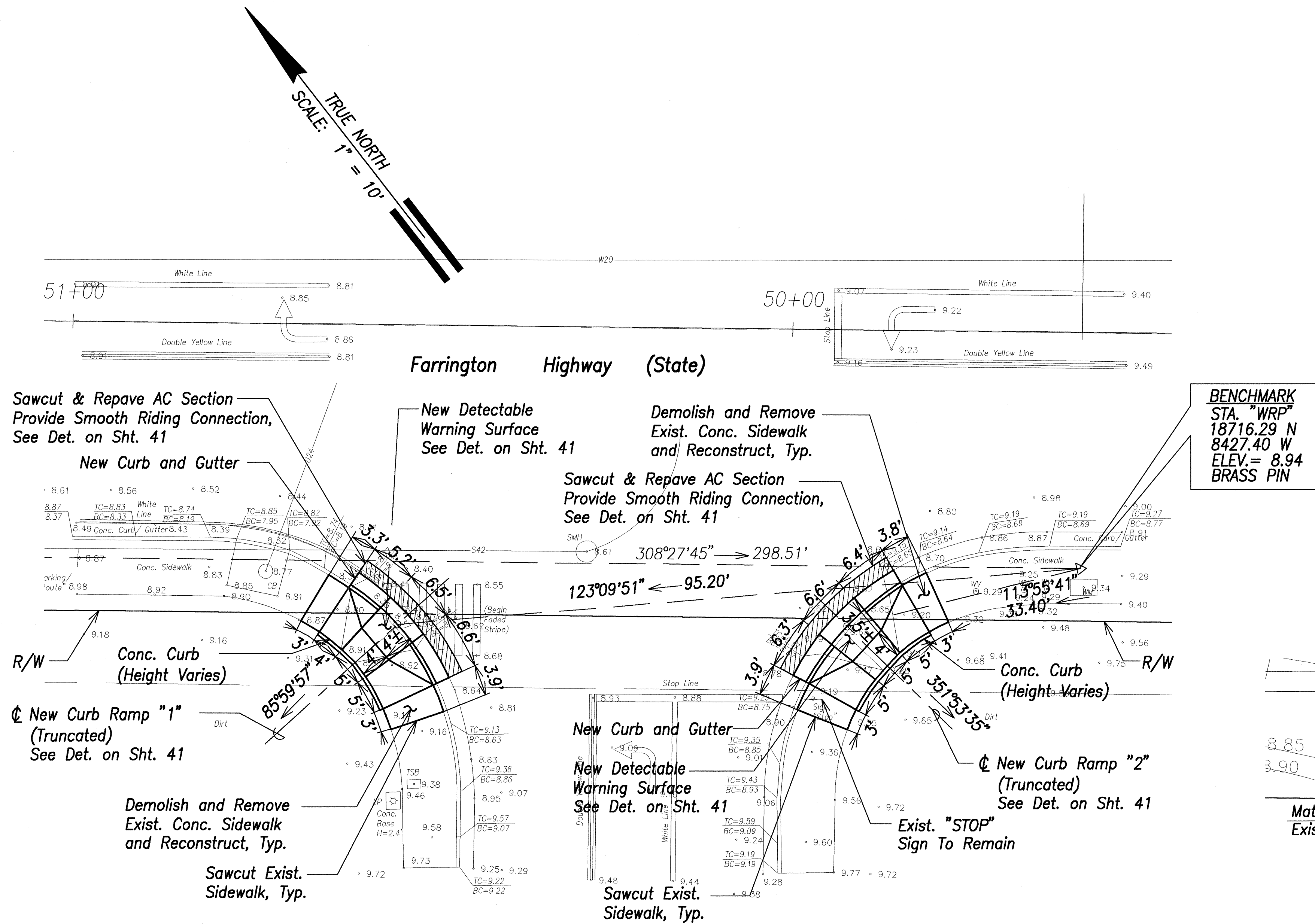
F.A.I. Proj. No. STP-093-1(18)

Scale: As Shown

Date: 04/23/03

SHEET No. 36 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	37	98



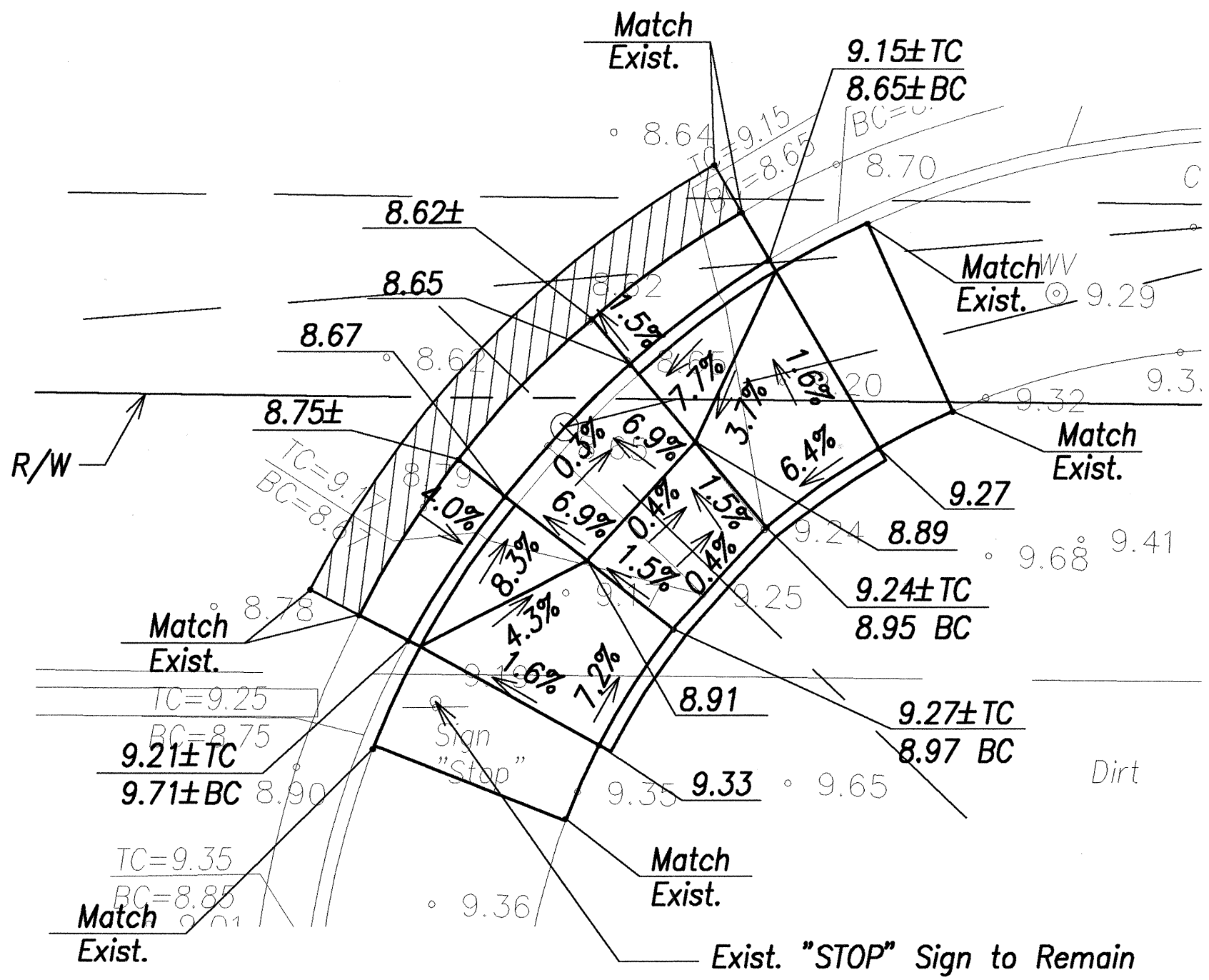
CURB RAMP SITE PLAN – WAIANAE BOAT HARBOR

Scale: 1" = 10'

Note:
Detectable Warning Surfaces shall be installed
at the end of the project.

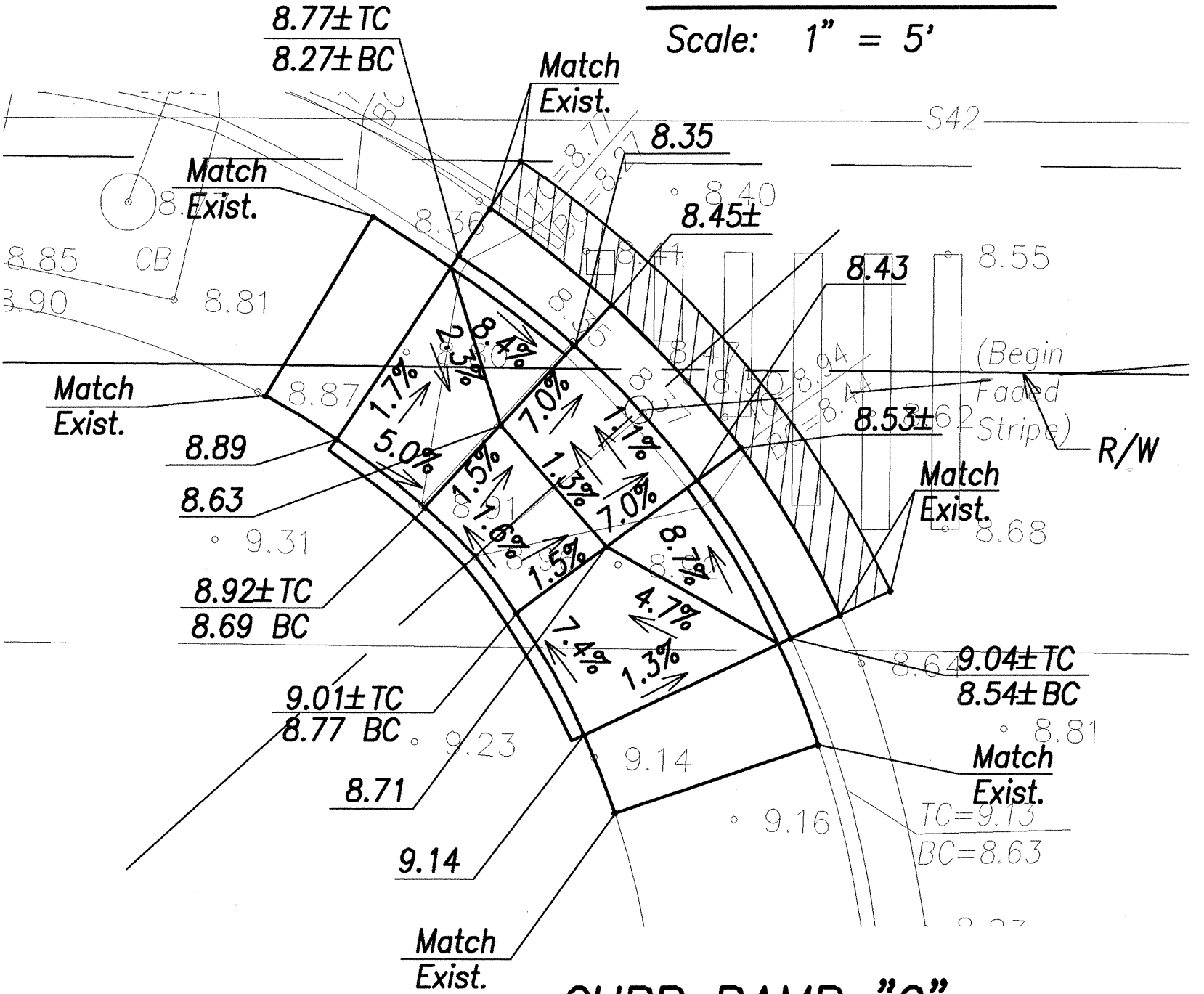
Legend

- 49.52 Exist. Spot Elevation
- 52.58 Finish Spot Grade
- 51.50 TC Finish Top Of Curb
- 51.00 BC Finish Bottom Of Curb



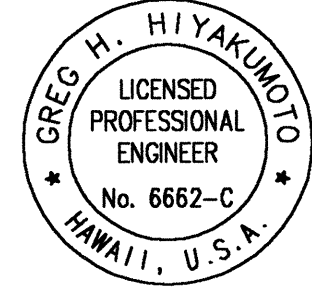
CURB RAMP "1"

Scale: 1" = 5'



CURB RAMP "2"

Scale: 1" = 5'



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April 30, 2004
EXPIRATION DATE
OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WAIANAE CURB RAMPS
WAIANAE BOAT HARBOR

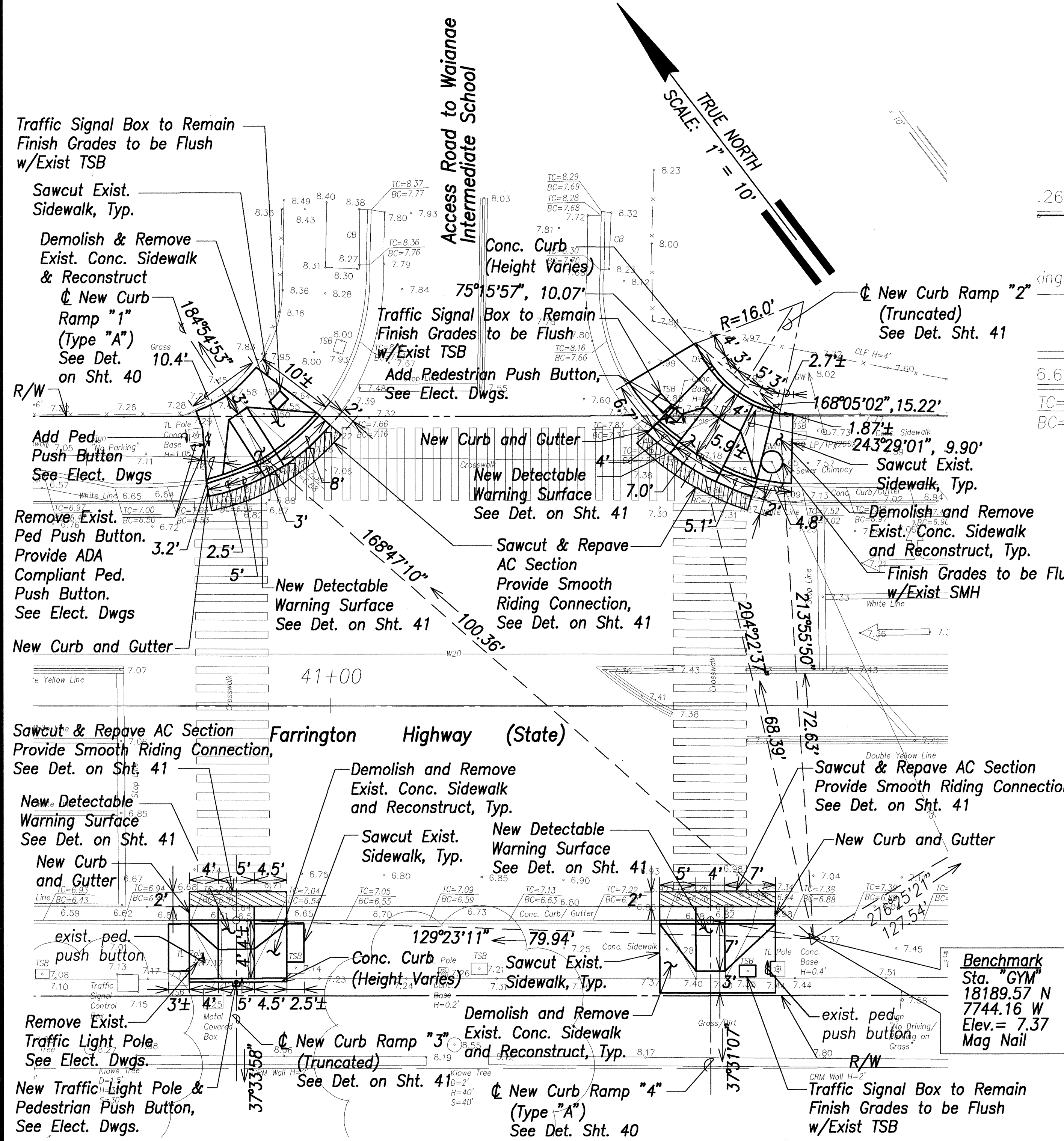
FARRINGTON HIGHWAY SAFETY IMPROVEMENTS
NANAKULI TO MAKAHA
F.A.I. Proj. No. STP-093-1(18)

Scale: As Shown Date: 04/23/03

SHEET No. 37 OF 98 SHEETS

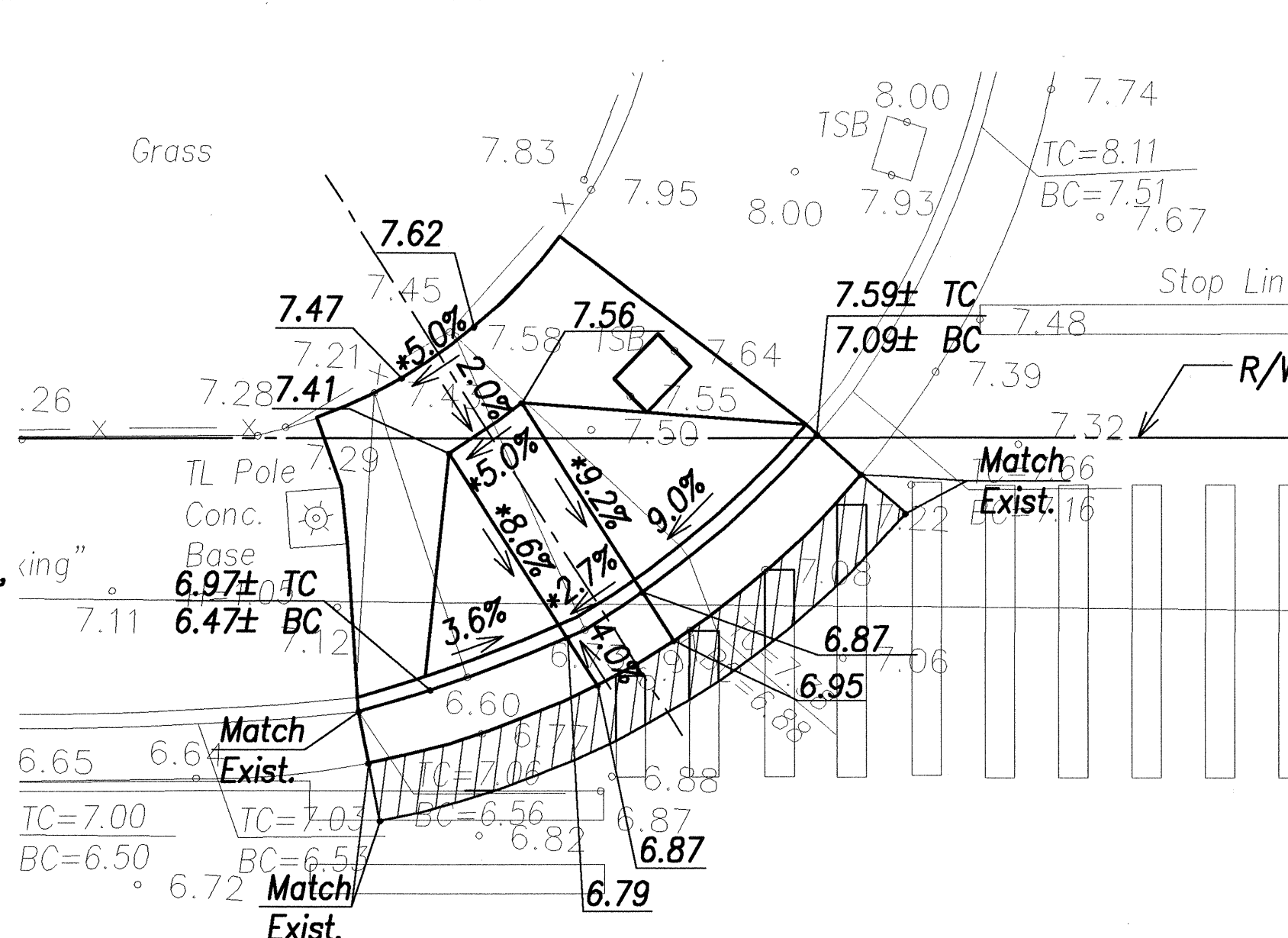
DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	38	98

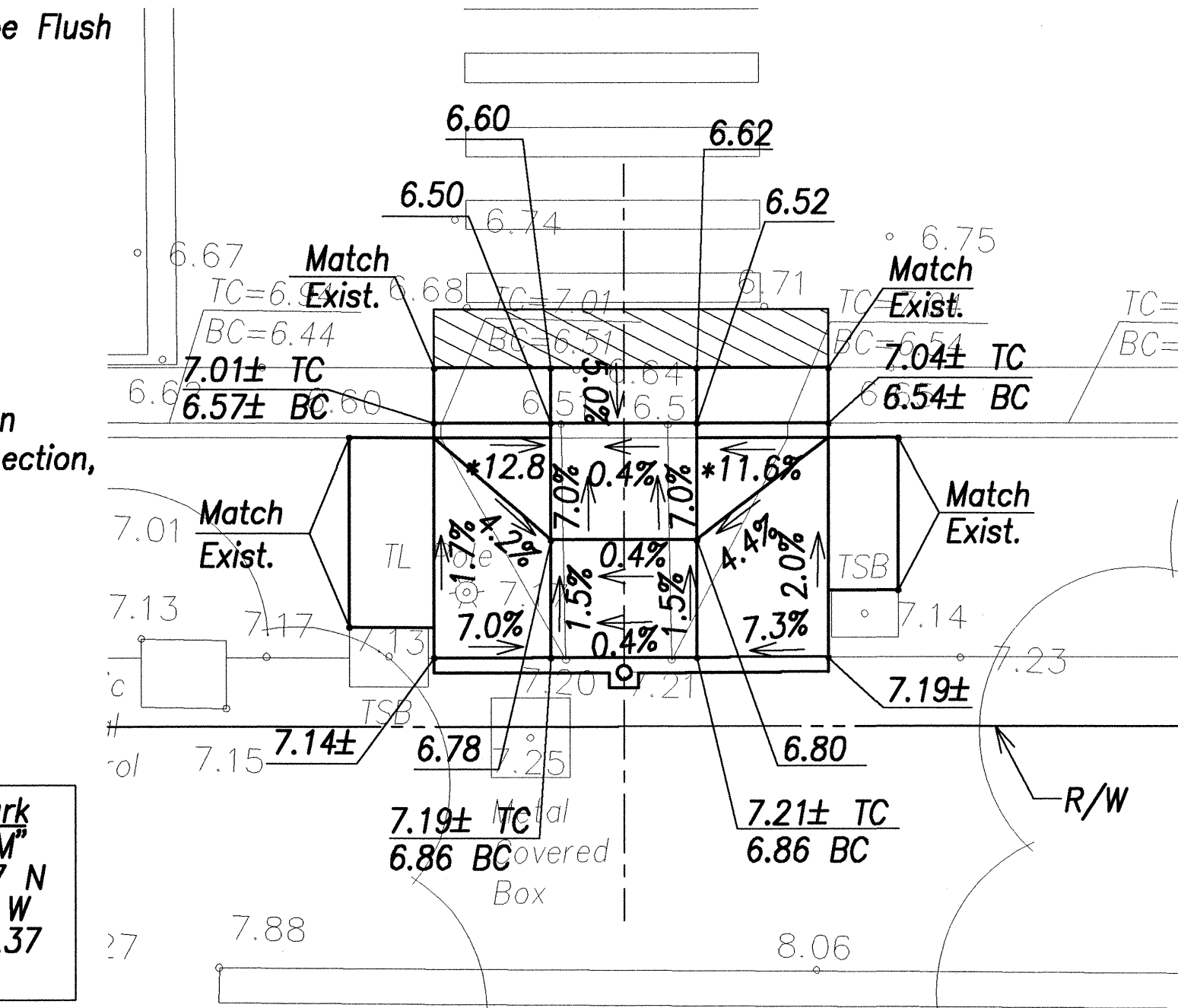


CURB RAMP SITE PLAN - WAIANAE INTERMEDIATE SCHOOL
Scale: 1" = 10"

Note:
Detectable Warning Surfaces shall be installed
at the end of the project.



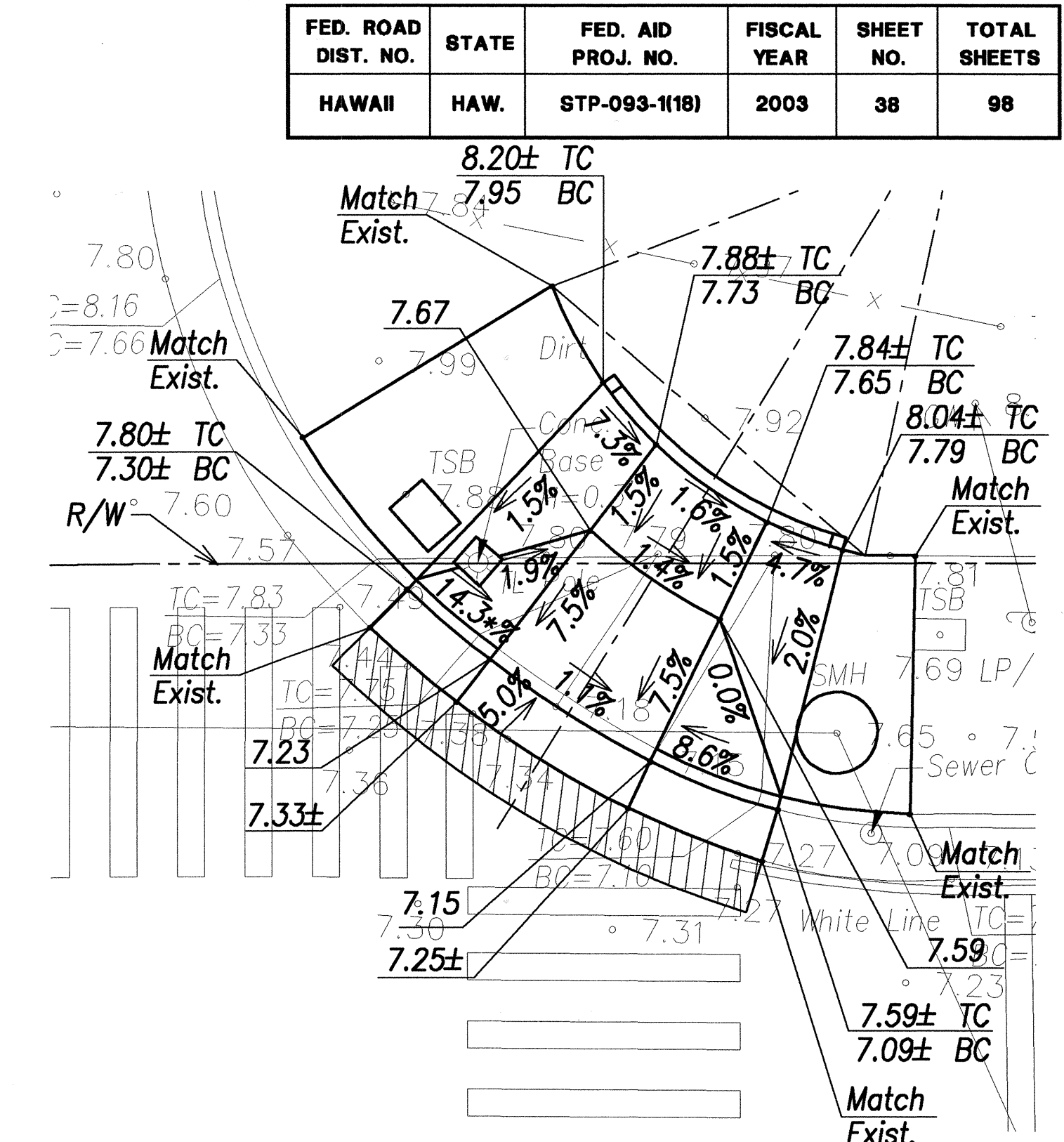
CURB RAMP "1"
Scale: 1" = 5"



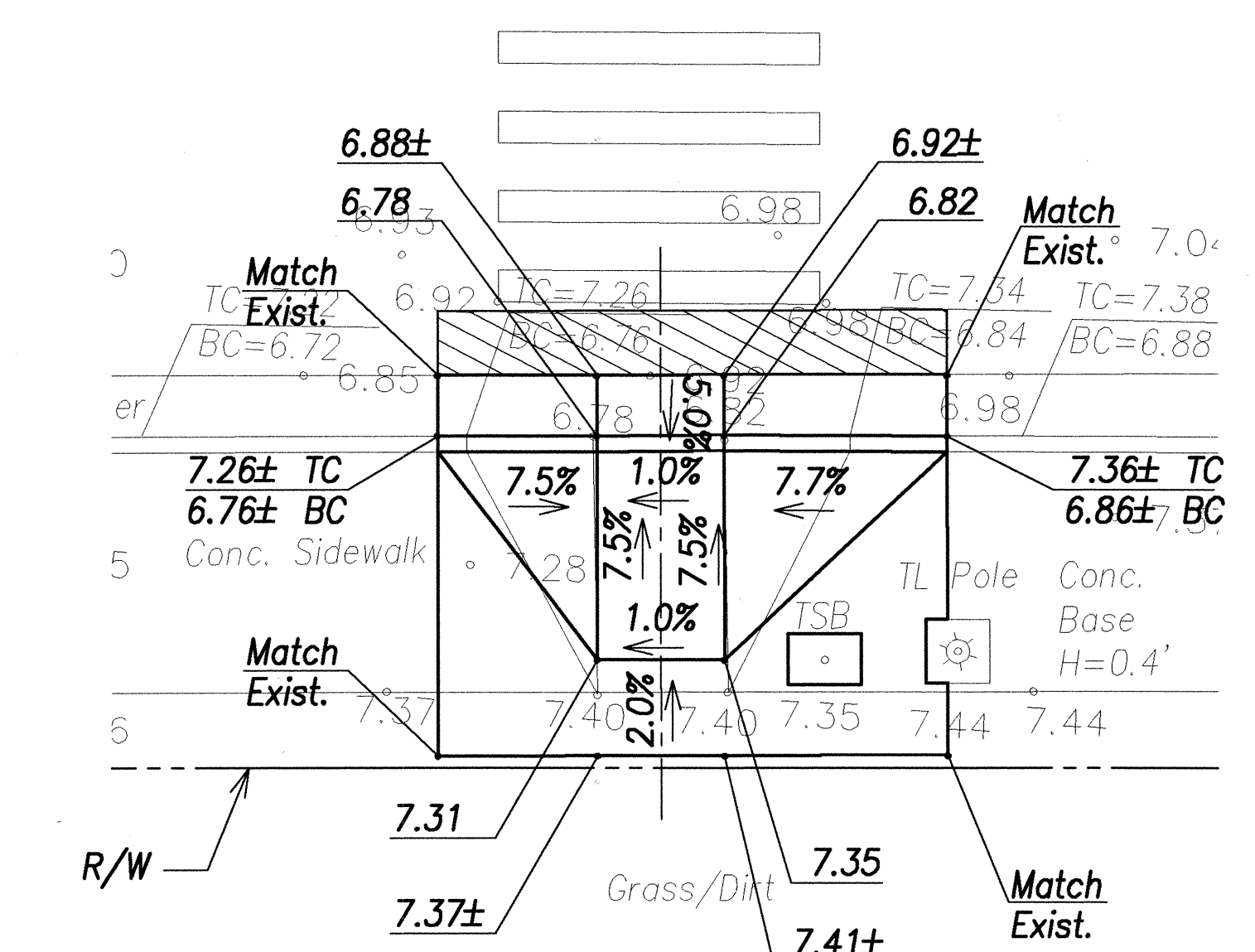
CURB RAMP "3"
Scale: 1" = 5"

Legend

- 49.52 Exist. Spot Elevation
- 52.58 Finish Spot Grade
- 51.50 TC Finish Top Of Curb
- 51.00 BC Finish Bottom Of Curb
- *3.6% Technically Infeasible Form Filed With The Disability And Communication Access Board
- Direction of Pedestrian Push Button



CURB RAMP "2"
Scale: 1" = 5"



CURB RAMP "4"
Scale: 1" = 5"



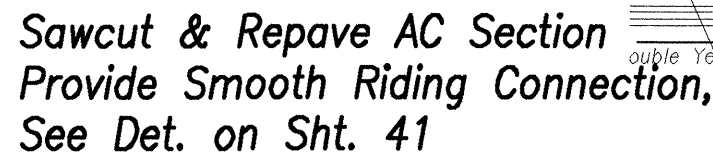
THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WAIANAE CURB RAMPS
WAIANAE INTERMEDIATE SCHOOL
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. 38 OF 98 SHEETS

DATE	
SURVEY PLOTTED BY	
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	39	98



Scale: $1'' = 10'$

RMTC JOB NO.: 1-18835-0E



Scale: $1'' = 5'$



Scale: 1" = 5'

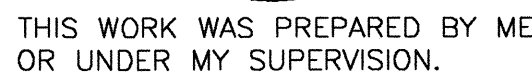
Legend

Exist. Spot Elevation

Finish Spot Grade

Finish Top Of Curb

Finish Bottom Of Curb



SIGNATURE 7/5/03

April 30, 2004
EXPIRATION DATE
OF THE LICENSE

WAIANAE CURB RAMPS
WAIANAE REGIONAL PARK

NANAKULI TO MAKAHA

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

Scale: $1''=10'$

Date: 04/23/03

SHEET No. 39 OF 98 SHEETS

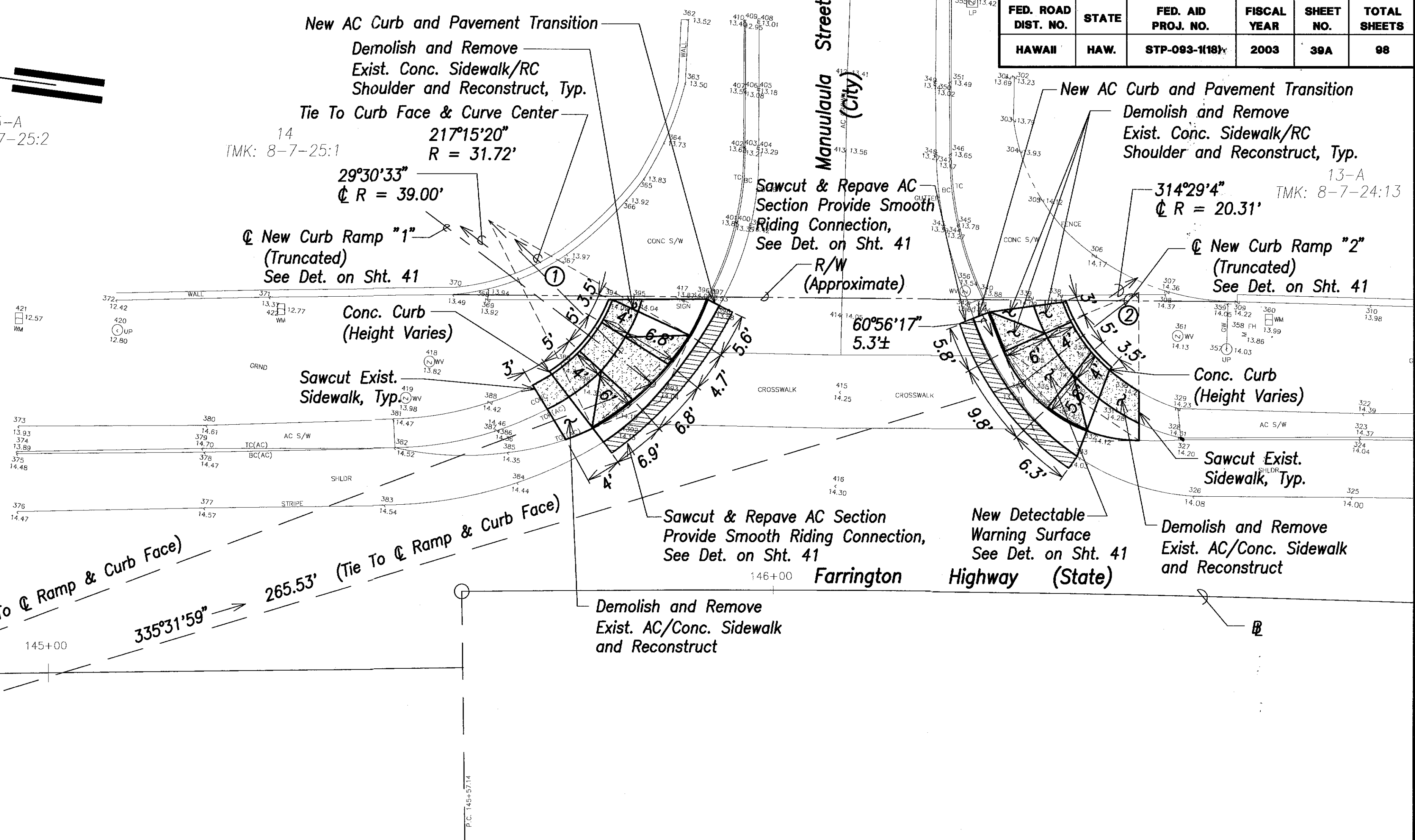
Legend	
• 49.52	Exist. Spot Elevation
52.58	Finish Spot Grade
51.50 TC 51.00 BC	Finish Top Of Curb Finish Bottom Of Curb

Note:
Detectable Warning Surfaces shall be installed
at the end of the project.

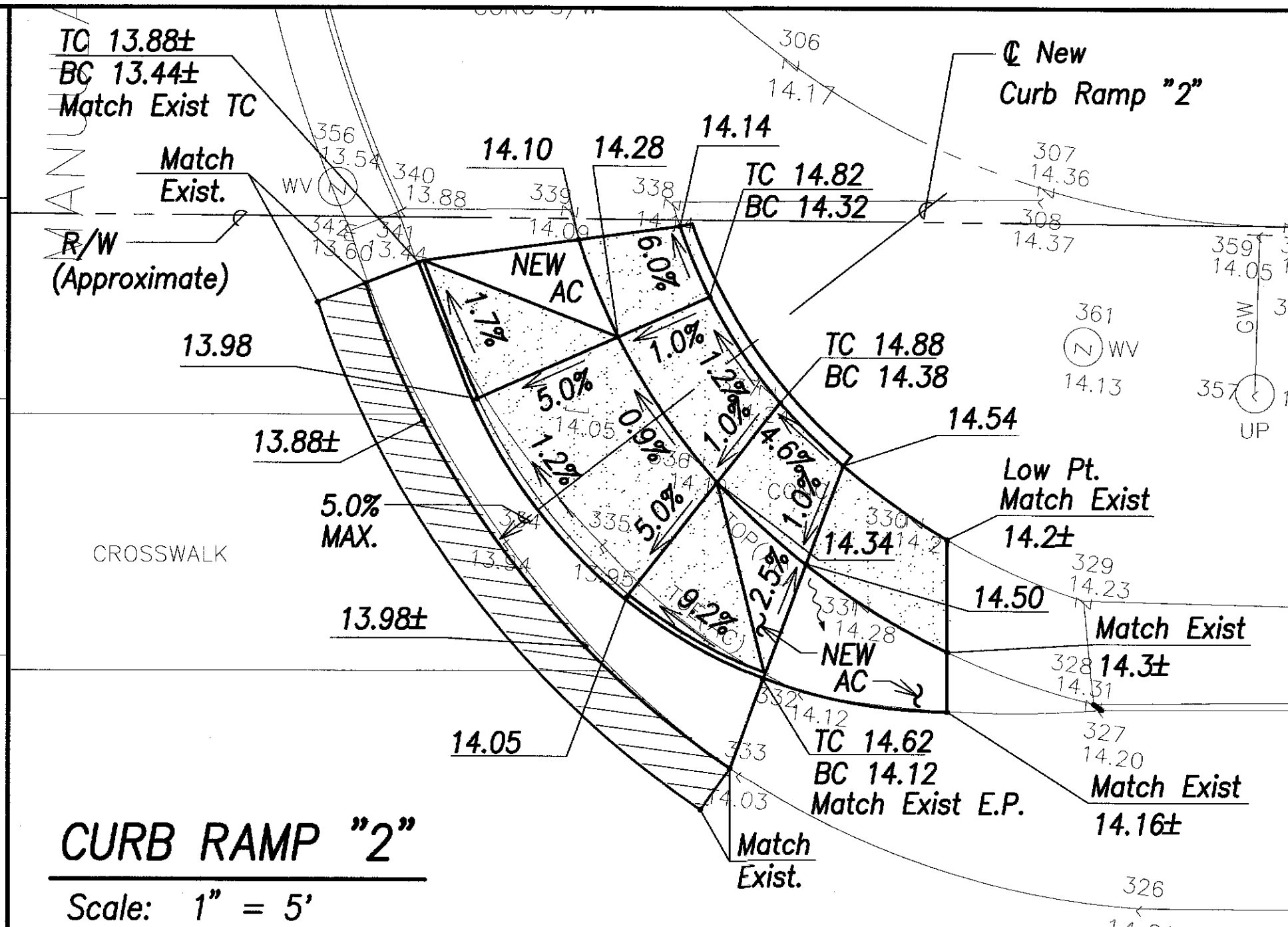
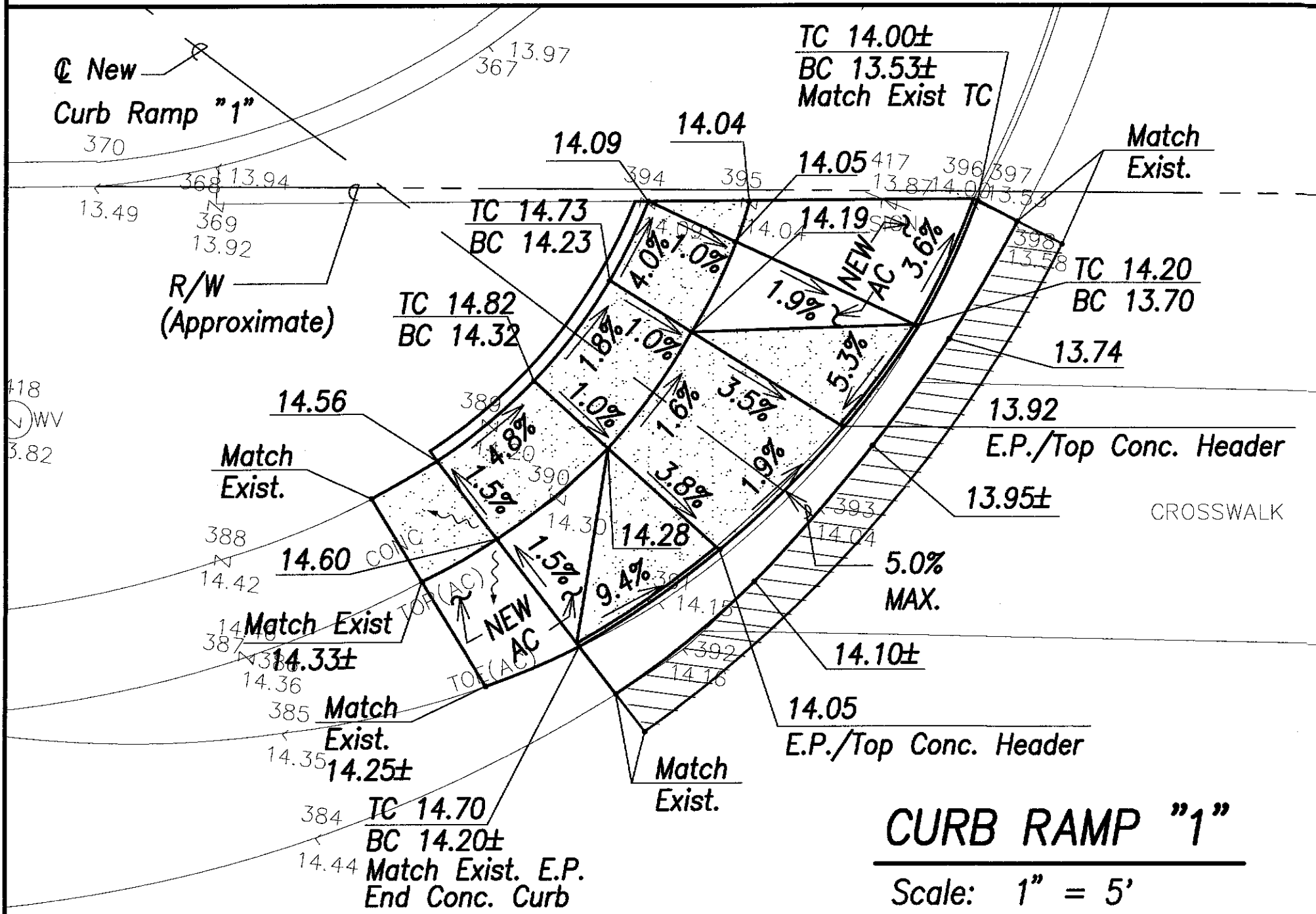
CURB PAVEMENT CURVE DATA		
CURVE	①	②
Δ	33°36'12"	67°57'37"
$\Delta/2$	16°48'06"	33°58'49"
R	31.72'	20.31'
T	9.92'	13.83'
C	18.48'	22.70'
Lc	18.66'	24.09'

Benchmark
Trav. "Fhl1518"
"4" On Conc. Base Of Fh
El = 14.61

TRUE NORTH
SCALE: 1" = 10'
15-A
TMK: 8-7-25:2



CURB RAMP SITE PLAN – MANUULAULA ST. & FARRINGTON HWY.
Scale: 1" = 10'



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



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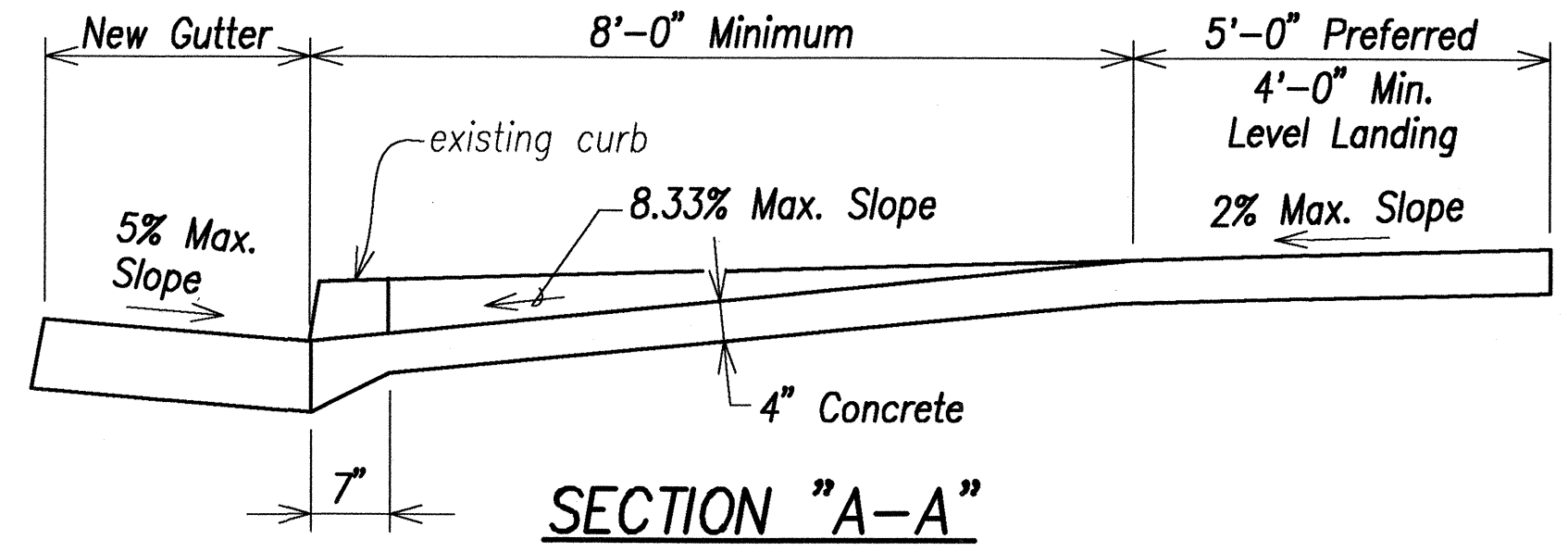
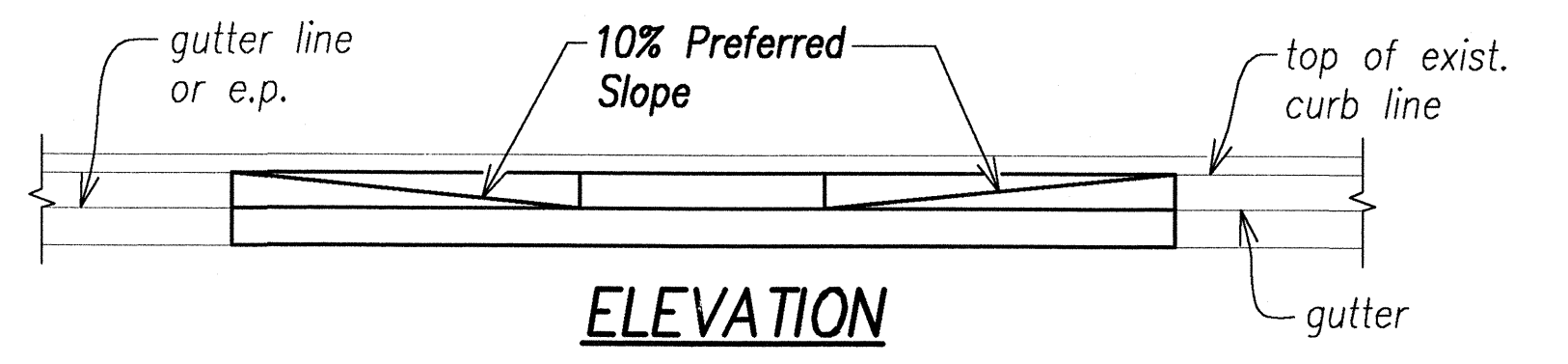
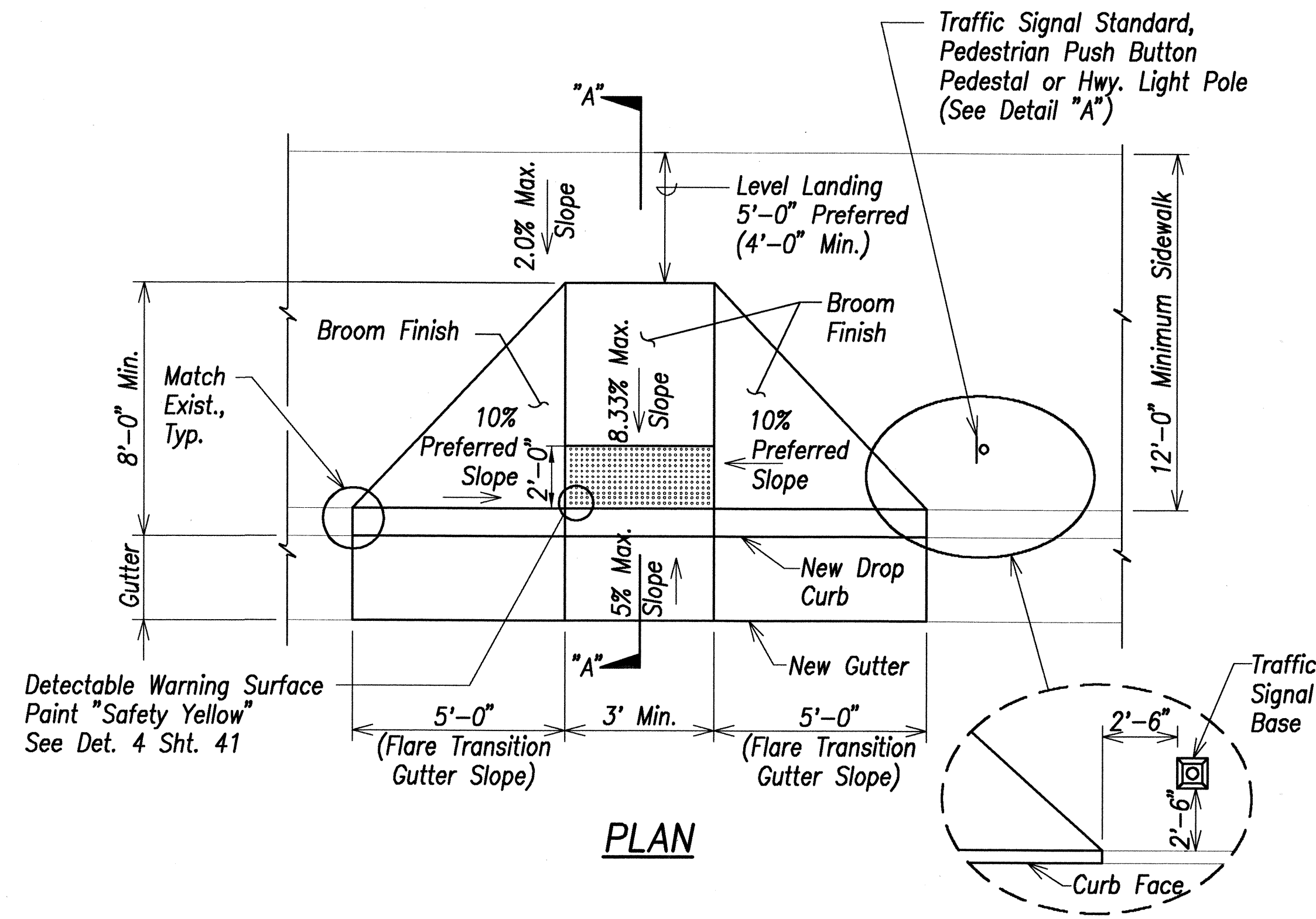
April 30, 2006
EXPIRATION DATE OF THE LICENSE

CCO# 8

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**WAIANAE CURB RAMPS
MANUULAULA STREET**
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. 39A OF 98 SHEETS

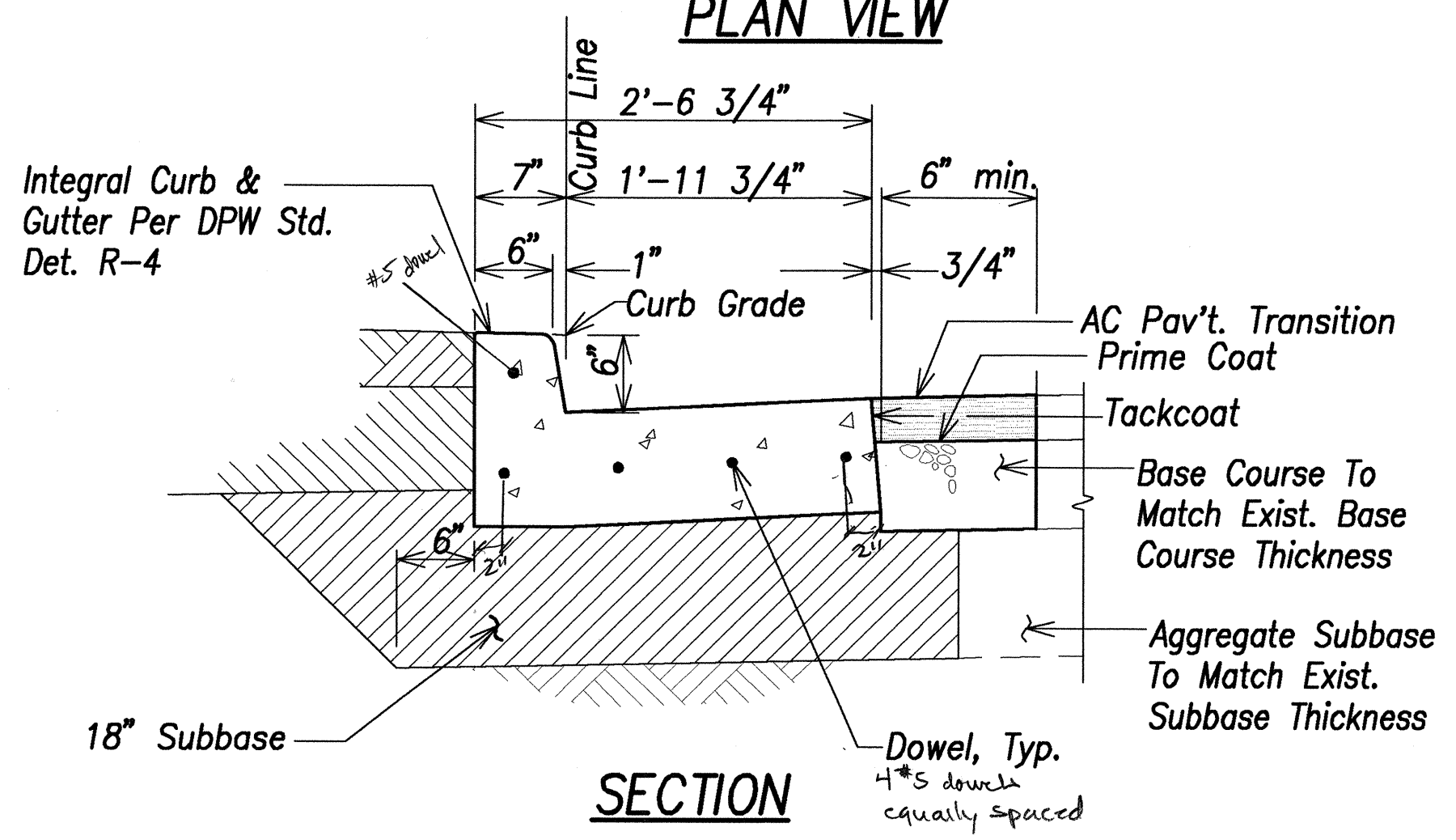
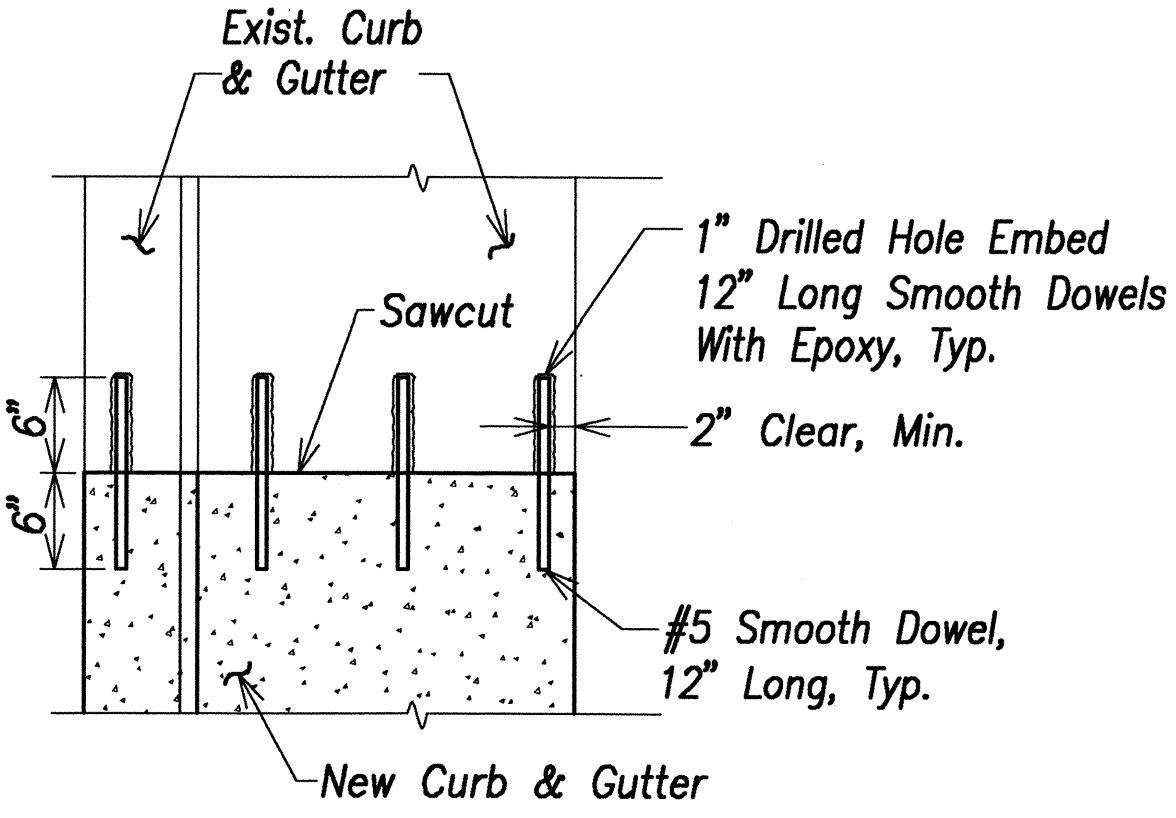
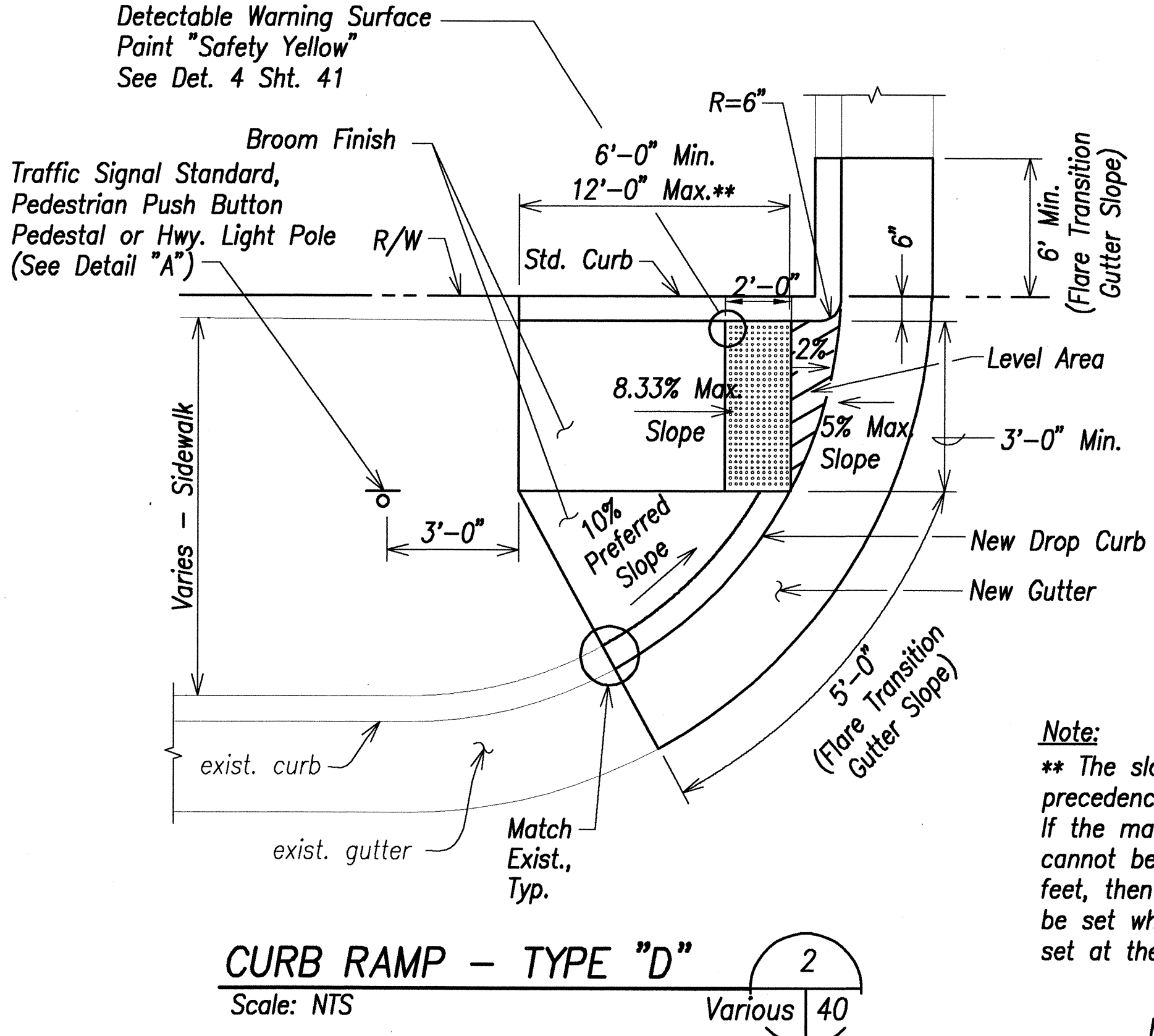
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	40	98

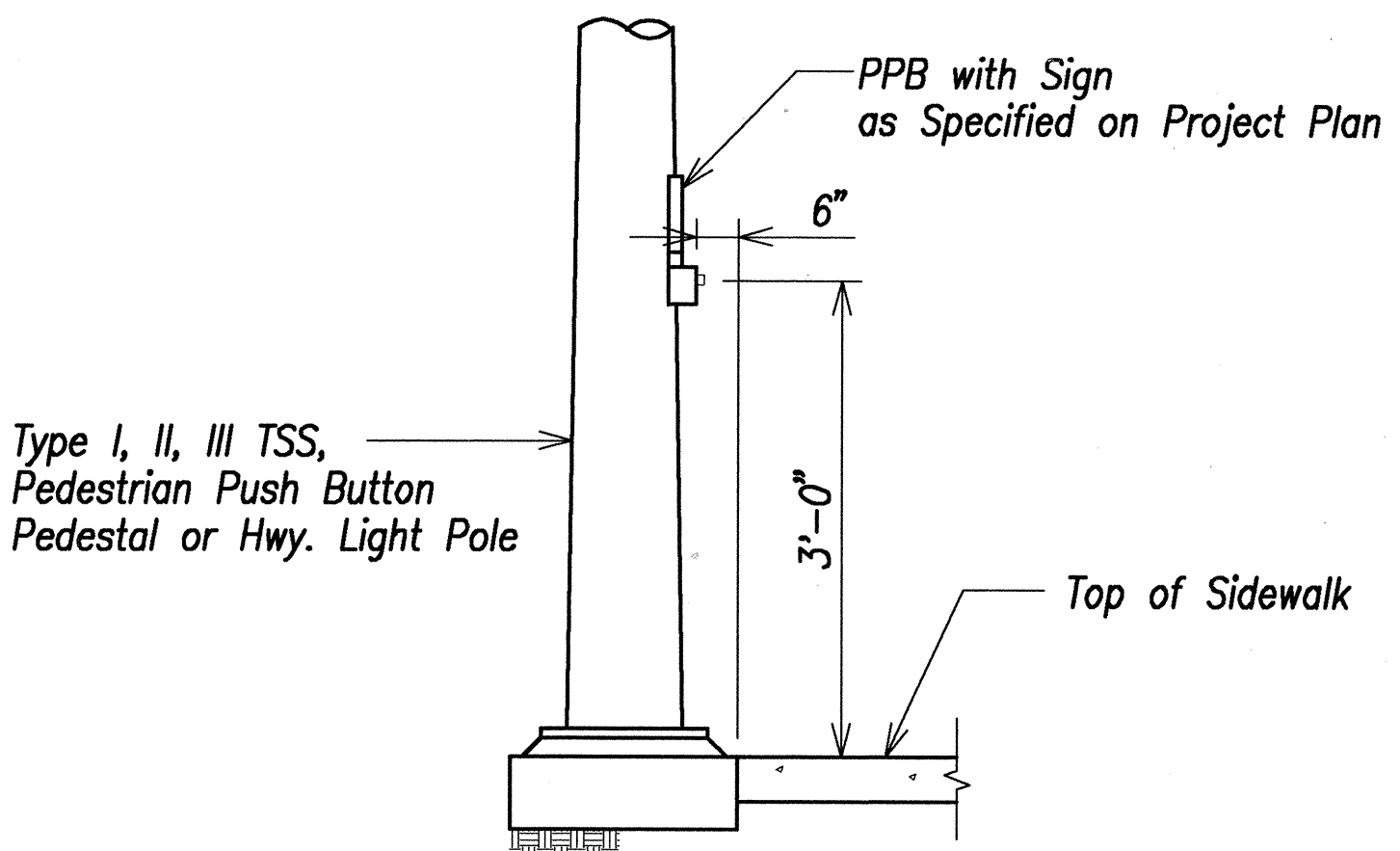


CURB RAMP - TYPE "A"
SIDEWALK WIDTH 12'-0" OR GREATER
 Scale: NTS

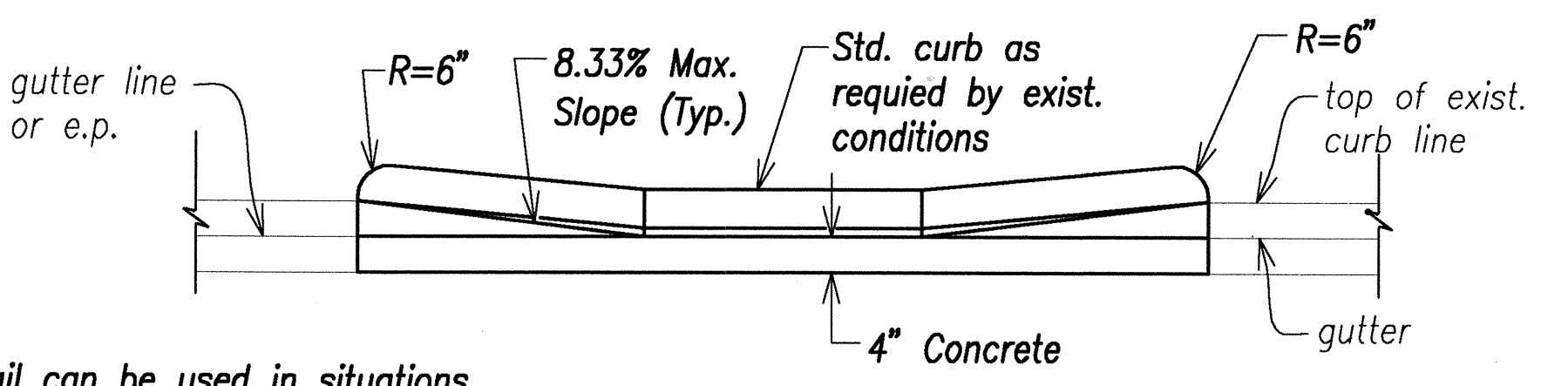
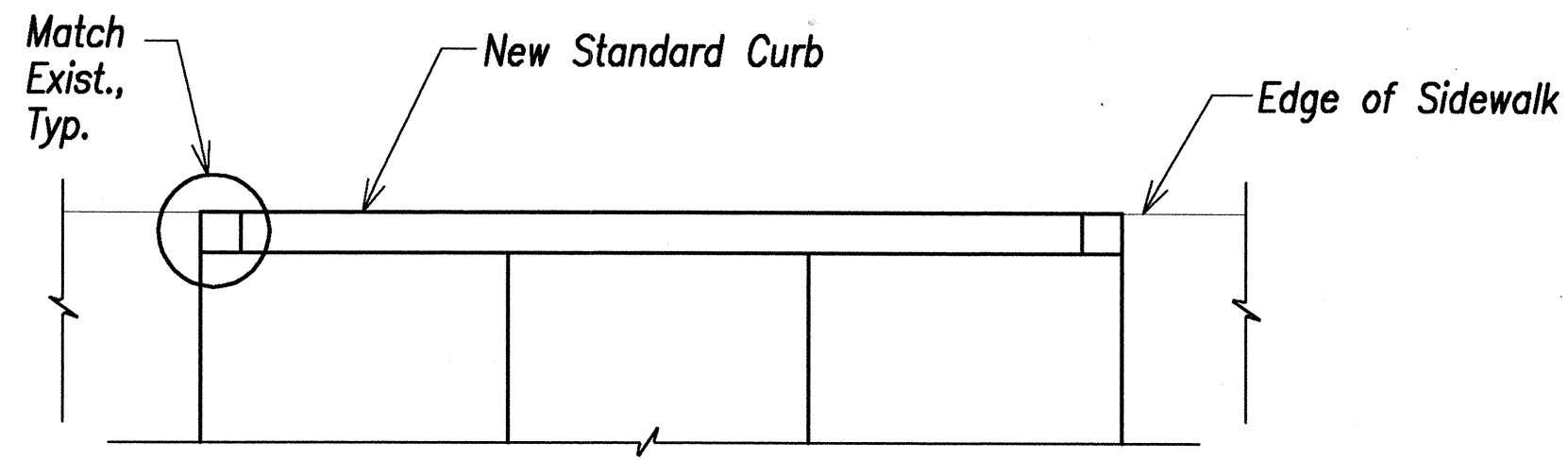
APPROVED: M. Fagan 5/7/23
 Chief, Civil Engineering Branch, DPP Date



INTEGRAL CURB & GUTTER CONNECTION DETAIL
 SCALE: 1" = 1'-0"

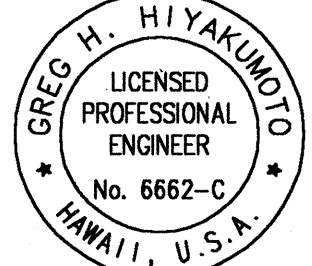


Note:
 ** The slope of the ramp shall take precedence over the length of the ramp. If the maximum slope of a ramp cannot be met within a length of 12 feet, then the slope of the ramp shall be set when the length of the ramp is set at the maximum of 12 feet.



Note:
 This detail can be used in situations where the edge of sidewalk cannot be flush with the face of (back) curb due to right of way restrictions.

DETAIL - BACK CURB
 Scale: NTS



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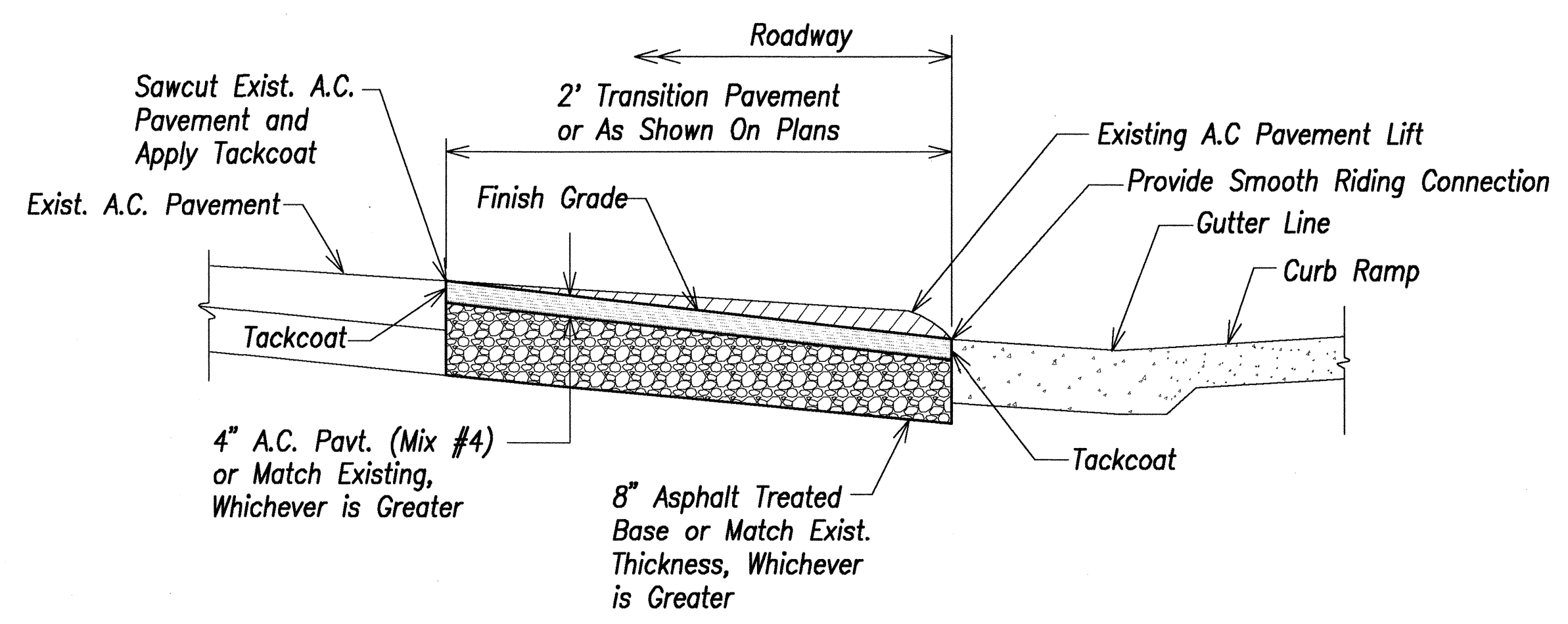
SIGNATURE: Greg H. Hiyaikunoto April 30, 2004
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WAIANAE CURB RAMPS
DETAILS - 1
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. 40 OF 98 SHEETS

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
NO.	_____

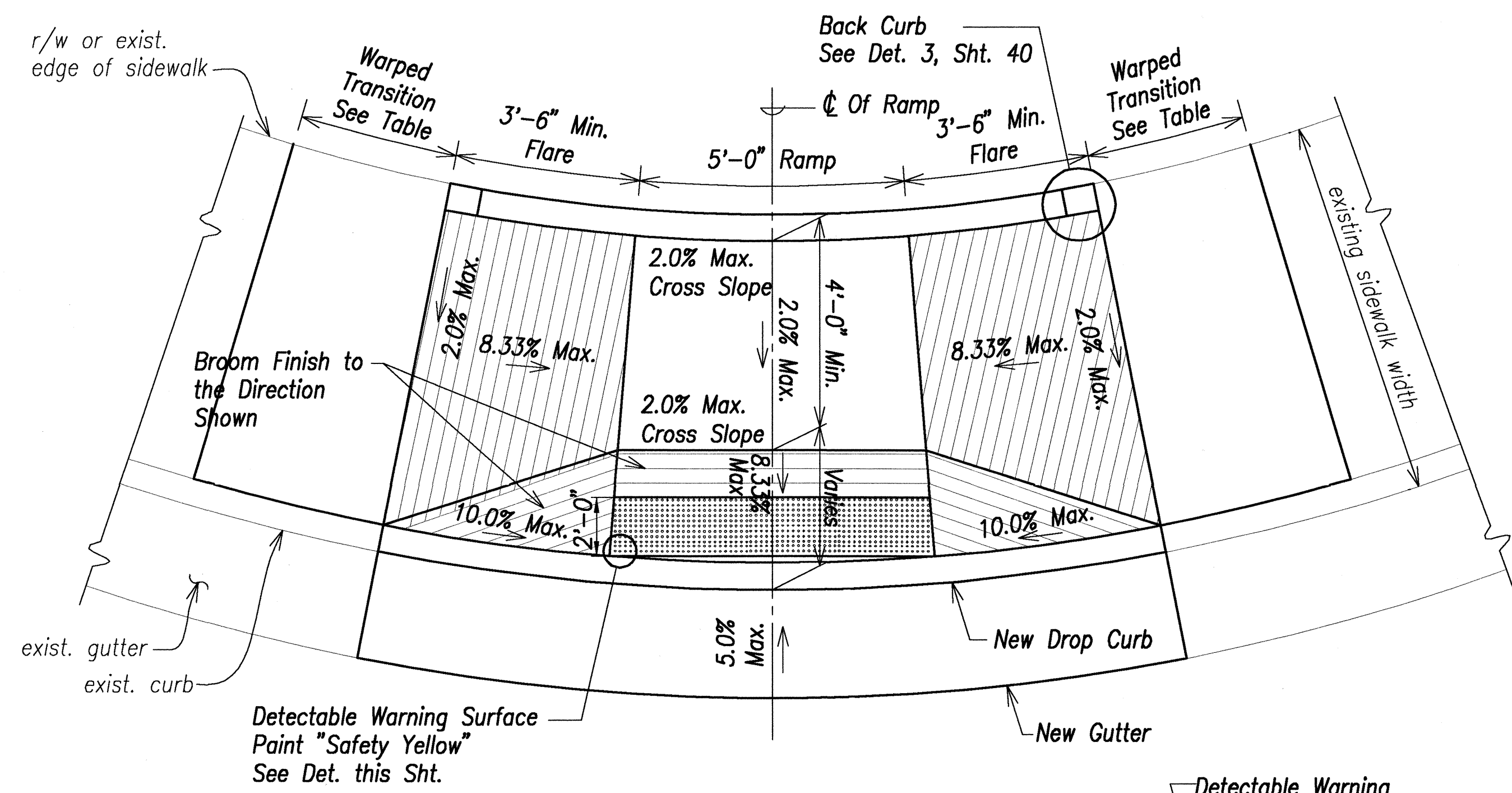
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(18)	2003	41	98



PAVEMENT TRANSITION DETAIL

Scale: 1" = 2'-0"

1
Various 41

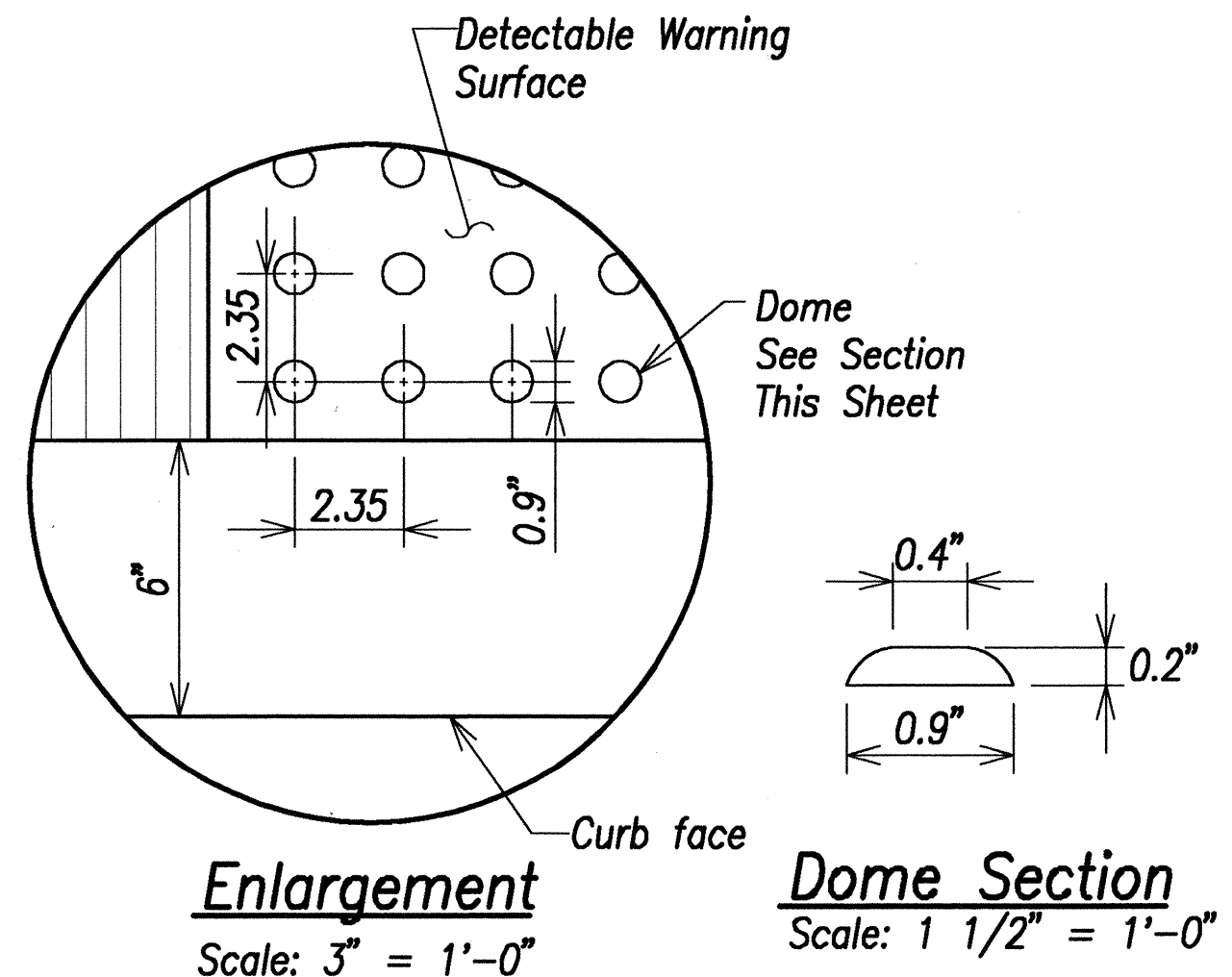


Warped Transition Table NTS	
Difference In Slope Between Planes	Warped Transition Length
0% - 2%	36" Long Transition Min.
2.1% - 4%	48" Long Transition Min.
4.1% - 6%	36" Long Transition Min.
6% And Greater	(left To Engineer's Discretion)

TRUNCATED CURB RAMP

Scale: NTS

2
Various 41



Enlargement

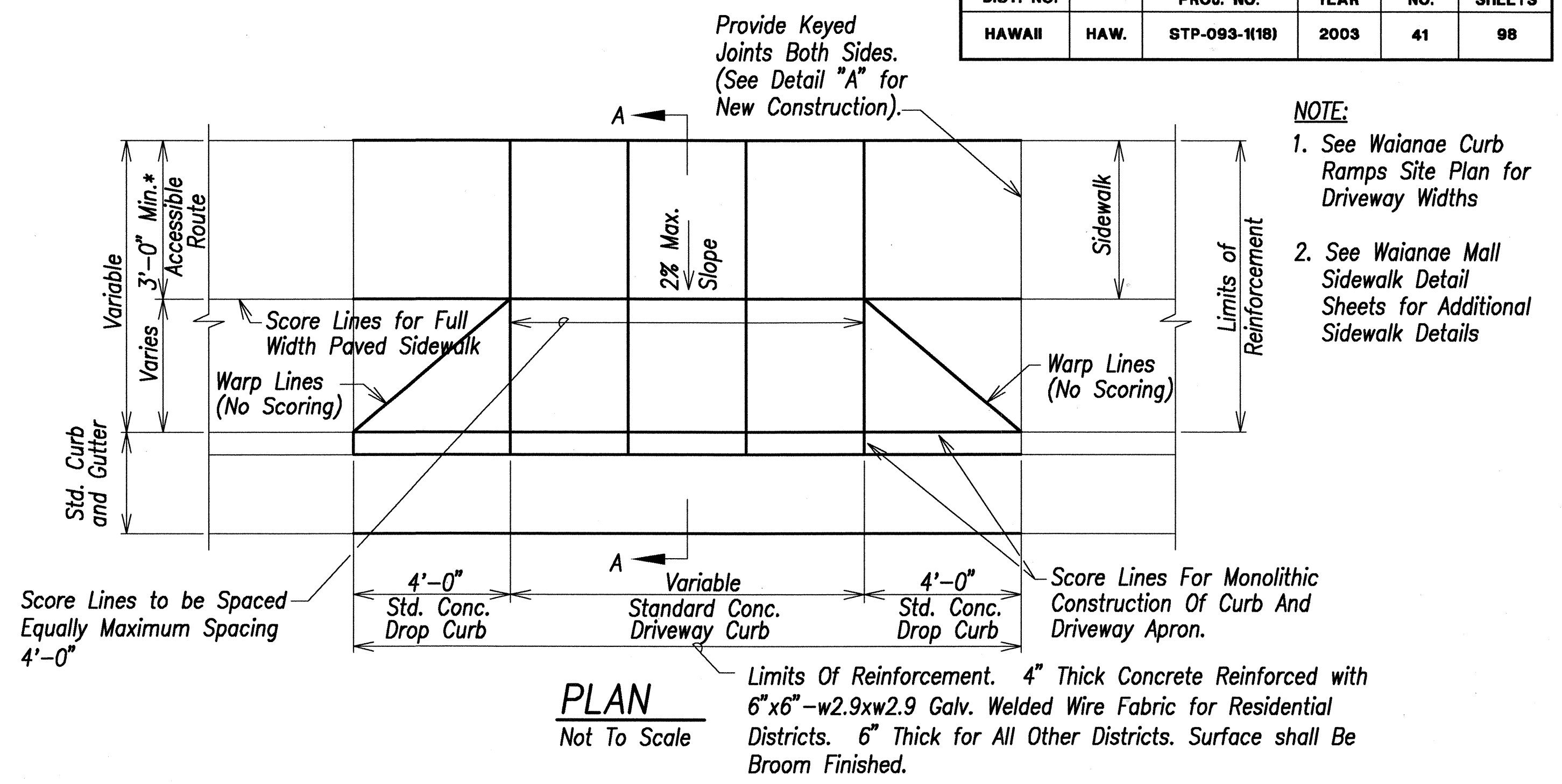
Scale: 3" = 1'-0"

Dome Section

Scale: 1 1/2" = 1'-0"

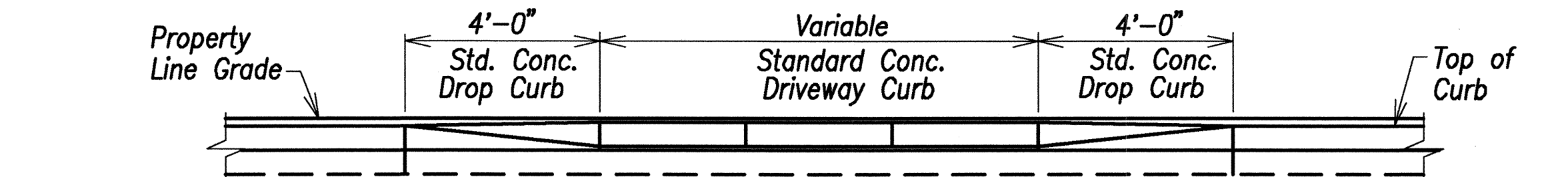
DETECTABLE WARNING PAD DETAIL

4
41 41



PLAN

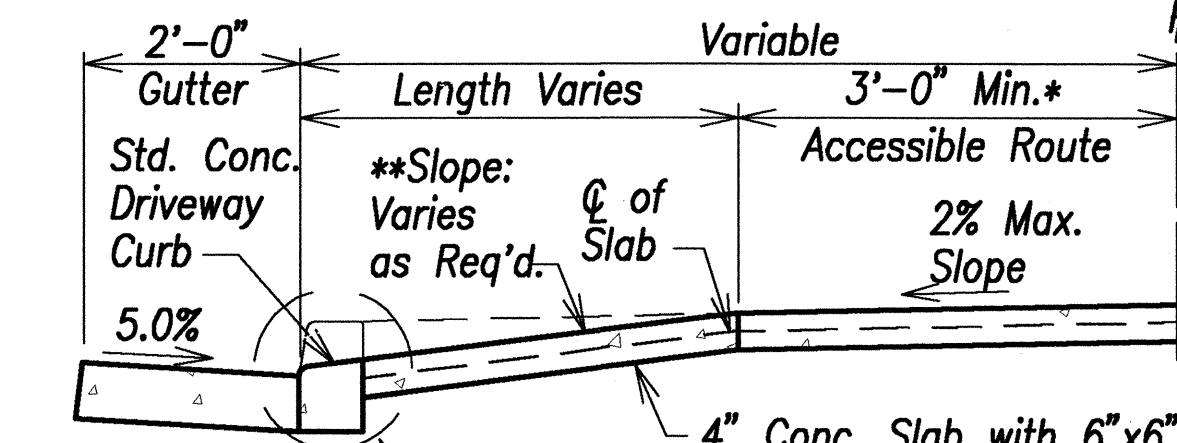
Not To Scale



ELEVATION

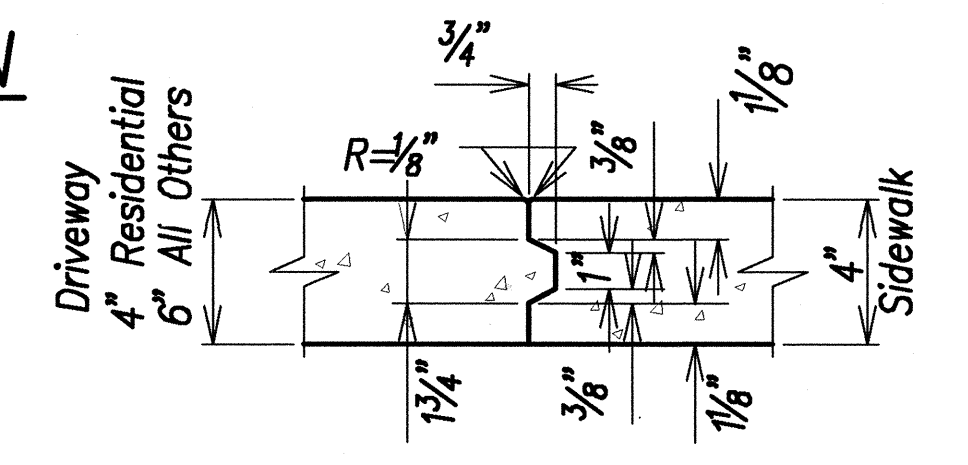
Not To Scale

- * Match Width of Existing Sidewalk Whenever Possible.
- ** Breakover and Departure Angles Should Not Exceed 10 Degrees or 17%.



SECTION A-A

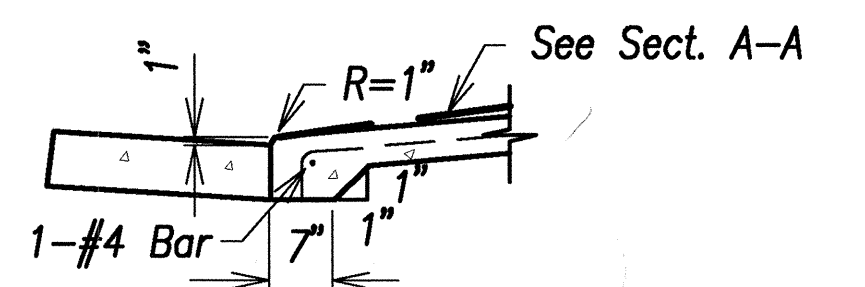
Not to Scale



DETAIL "A"

Not to Scale

(New Construction)



ALTERNATE DETAIL

Not to Scale

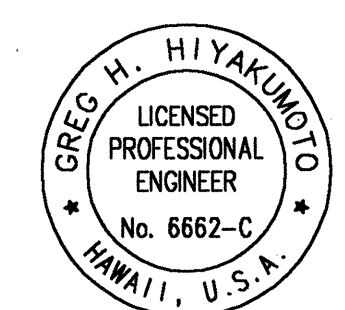
DRIVEWAY APRON DETAIL

Scale: None

3
Various 41

APPROVED:

M. J. [Signature] 5/7/03
Chief, Civil Engineering Branch, DPP ^{WR} Date



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

WAIAE CURB RAMPS
DETAILS - 2

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. 41 OF 98 SHEETS

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