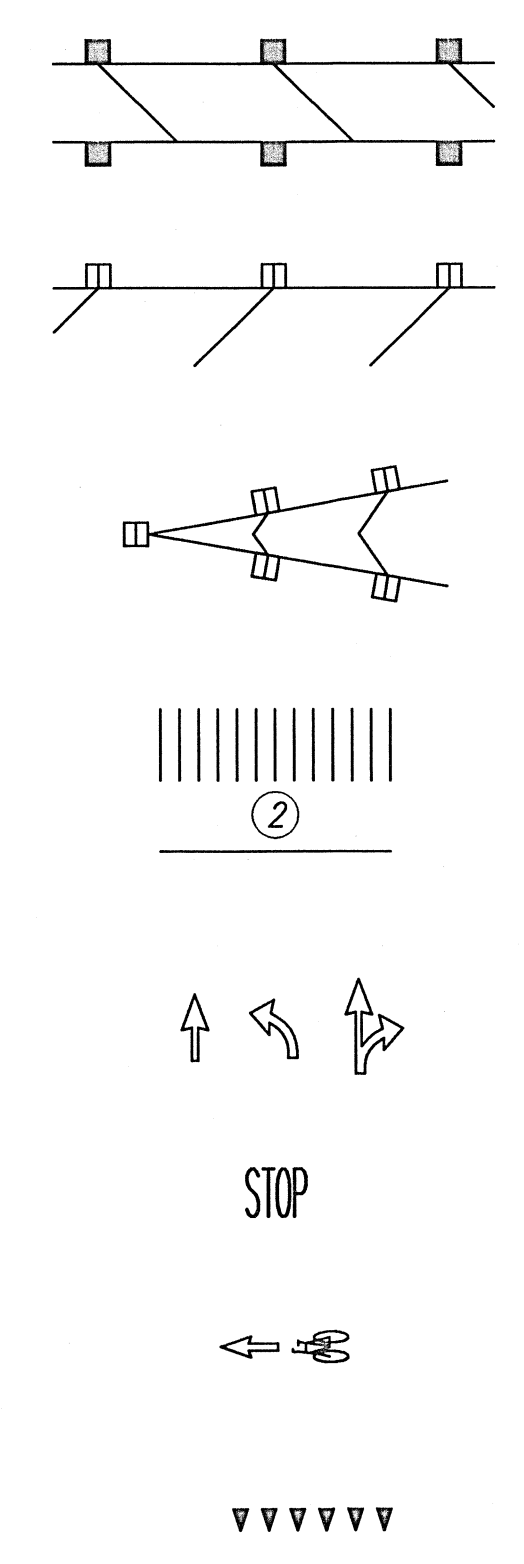
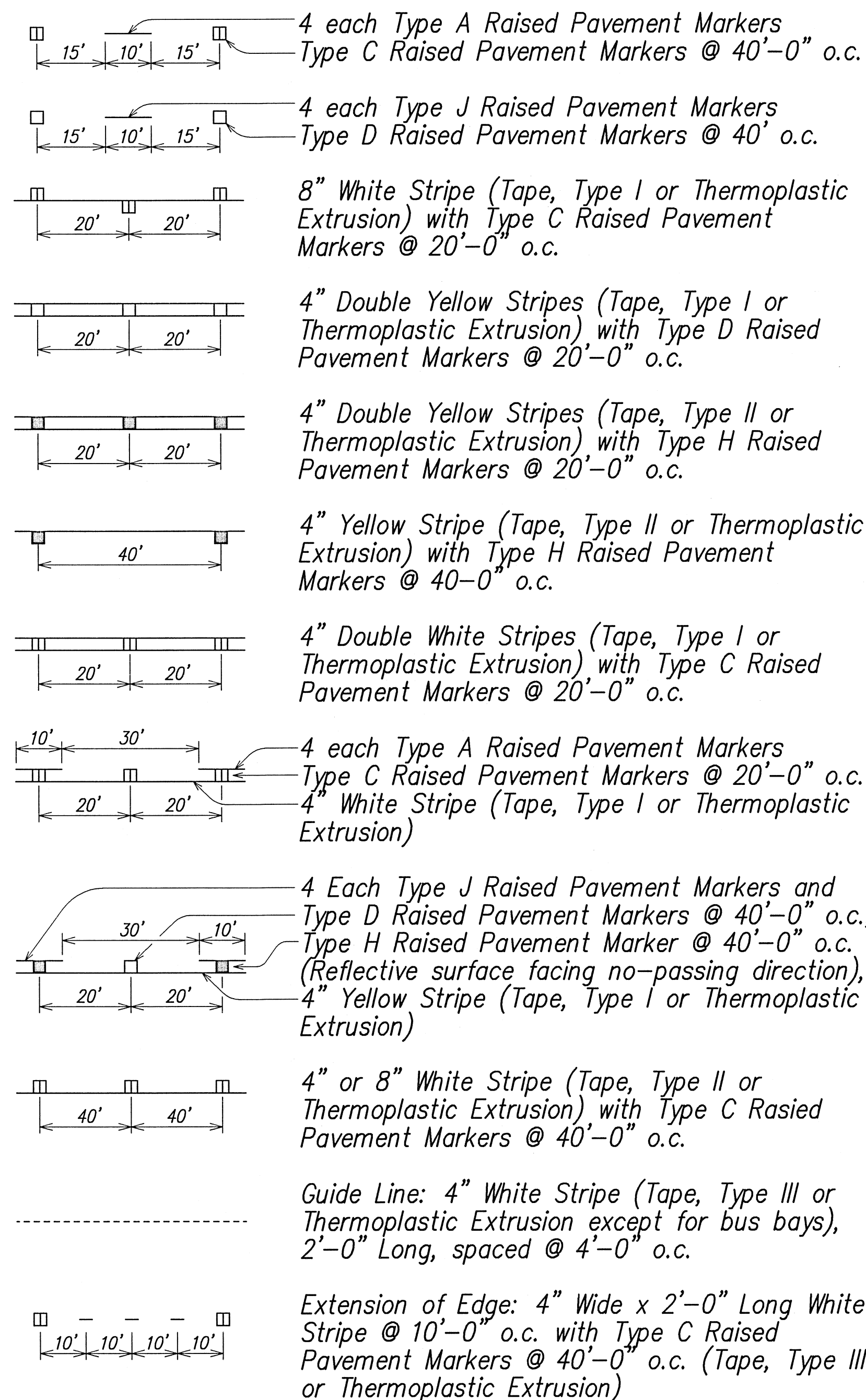


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	79	143

Signing & Pavement Marking Notes:

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- Existing pavement markings and striping not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
- Raised pavement markers shall not be installed within crosswalks.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans or directed by the Engineer shall be incidental to the various signing items.
- Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- All pavement striping shall be as noted on the Legend or plans.
- All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
- Stop signs indicated to be removed shall be removed after the traffic signal system is operational.
- Removal of existing delineators and posts, as directed by the Engineer or shown on the plans, shall be considered incidental to the various signing items.
- Existing signs that are to be replaced shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
- Backing for all new regulatory and warning signs shall not be spliced.
- All sign panels shall conform to Section 630 of the Special Provisions and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
- State Route Marker Symbols, borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
- All new and relocated signs and markers installed on pipe post or light standards are to be mounted with band brackets and steel braces.
- The Contractor shall erect at the beginning and at the end of the project, Work Zone sign assemblies as indicated on the plans or as directed by the Engineer. The Work Zone sign assemblies shall be maintained for the duration of the project. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Work Zone Traffic Control. The Work Zone signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Kauai District Office baseyard in Puhii, or as directed by the Engineer, at the end of the project.

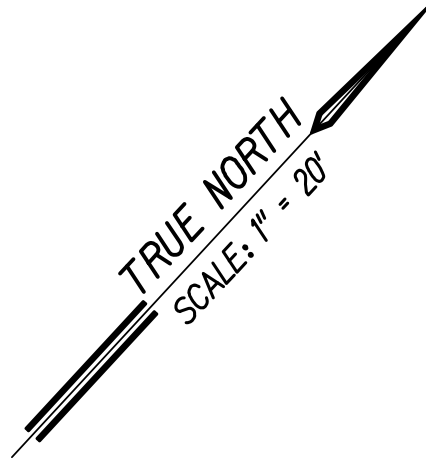
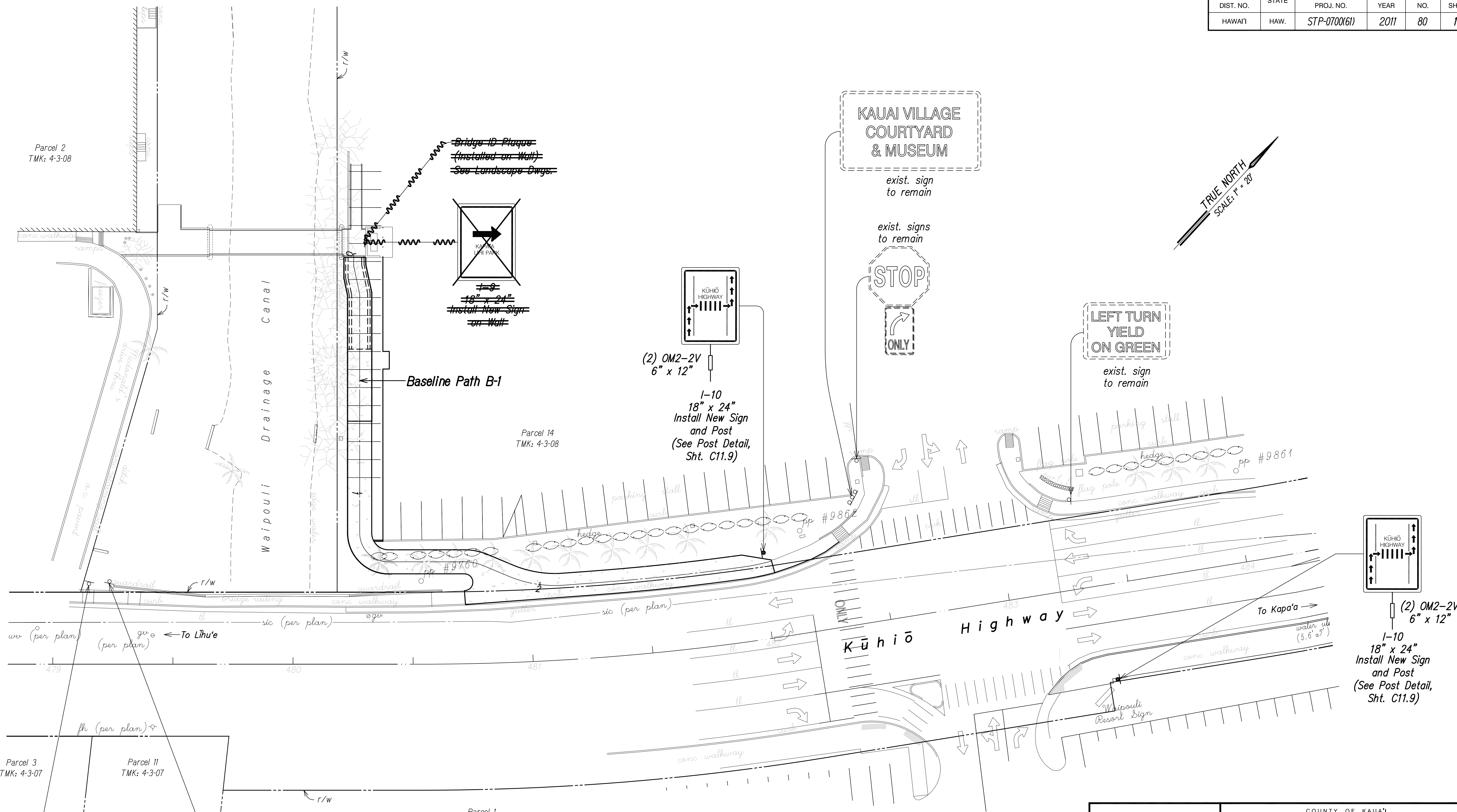
Pavement Marking Legend:



- Removal and reinstalling existing street name signs on regulatory and warning sign posts shall not be paid for separately but shall be considered incidental to the various signing items.
- All sign posts for new and relocated signs on post(s) shall be new. Provide RM-3 reflector markers for each new sign post. The cost of RM-3 reflector markers on new and relocated sign posts shall be considered incidental to the various items of Section 631.
- All permanent striping and pavement marking within the County right-of-way shall be Thermoplastic Extrusion. Tape and painting are not acceptable.

<p>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.</p> <p><i>Russell M. Arawaka</i> 4-30-12 SIGNATURE EXPIRATION DATE OF THE LICENSE</p>	COUNTY OF KAUAI DEPARTMENT OF PUBLIC WORKS LYDGATE PARK TO KAPA'A BIKE/PEDESTRIAN PATH PHASE B KAPA'A, KAUAI, HAWAII			
	SIGNING & PAVEMENT MARKINGS NOTES AND LEGEND FEDERAL-AID PROJECT NO. STP-0700(61) DATE: NOVEMBER 2011			
DRAWN BY: TSW TRACED BY: CHECKED BY: RMA	F.B. C.B.	SHEET OF	C11.1 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	80	143



SIGNING & STRIPING PLAN
SCALE: 1" = 20'

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Russell M. Araki 4-30-14
 SIGNATURE EXPIRATION DATE OF THE LICENSE

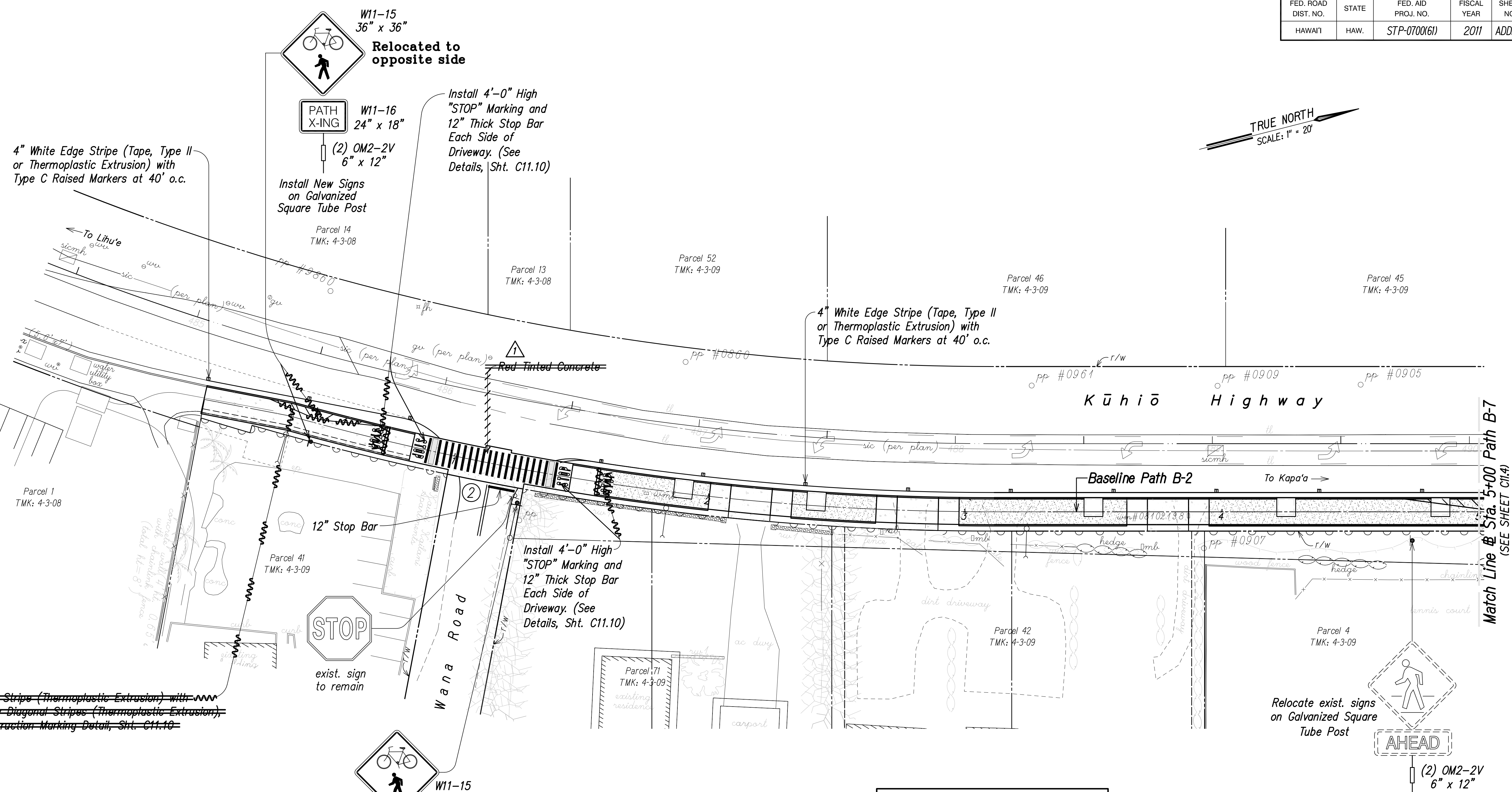
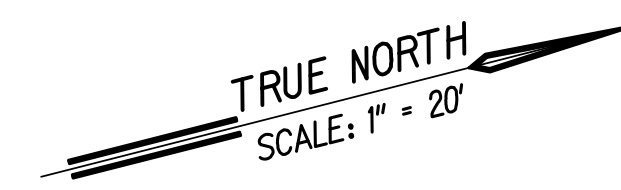
COUNTY OF KAUAI
 DEPARTMENT OF PUBLIC WORKS
 LYDGATE PARK TO KAPA'A BIKE/
 PEDESTRIAN PATH PHASE B
 KAPA'A, KAUAI, HAWAII
SIGNING & STRIPING PLAN
PATH B-1
 FEDERAL-AID PROJECT NO. STP-0700(61)
 DATE: NOVEMBER 2011

DRAWN BY: NGA	F.B.	C.B.	SHEET
TRACED BY: RMA			C11.2
CHECKED BY:			OF SHEETS



"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	ADD. 81	143



4" White Edge Stripe (Tape, Type II or Thermoplastic Extrusion) with Type C Raised Markers at 40' o.c.

W11-15
36" x 36"
Relocated to opposite side

PATH X-ING W11-16
24" x 18"
(2) OM2-2V
6" x 12"
Install New Signs on Galvanized Square Tube Post

Install 4'-0" High "STOP" Marking and 12" Thick Stop Bar Each Side of Driveway. (See Details, Sht. C11.10)

4" White Edge Stripe (Tape, Type II or Thermoplastic Extrusion) with Type C Raised Markers at 40' o.c.

12" Stop Bar
Parcel 41
TMK: 4-3-09
STOP
exist. sign to remain

Install 4'-0" High "STOP" Marking and 12" Thick Stop Bar Each Side of Driveway. (See Details, Sht. C11.10)

Relocate exist. signs on Galvanized Square Tube Post
AHEAD
(2) OM2-2V
6" x 12"

~~6" White Stripes (Thermoplastic Extrusion) with~~
~~6" Yellow Diagonal Stripes (Thermoplastic Extrusion),~~
~~See Obstruction Marking Detail, Sht. C11.10~~

W11-15
30" x 30"
PATH X-ING W11-16
24" x 18"
(2) OM2-2V
6" x 12"
Install New Signs on Galvanized Square Tube Post

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

DATE	REVISION
1/23/12	Deleted Red Tinted Concrete at Wana Road.

RUSSELL M. ARAKI
LICENSED PROFESSIONAL ENGINEER
No. 8297-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Russell M. Araki 4-30-14
SIGNATURE EXPIRATION DATE OF THE LICENSE

COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
LYDGATE PARK TO KAPA'A BIKE/
PEDESTRIAN PATH PHASE B
KAPA'A, KAUAI, HAWAII

SIGNING & STRIPING PLAN
PATH B-2
FEDERAL-AID PROJECT NO. STP-0700(61)
DATE: NOVEMBER 2011

DRAWN BY: NGA	F.B.	C.B.	SHEET
TRACED BY: RMA			C11.3
CHECKED BY:			OF SHEETS

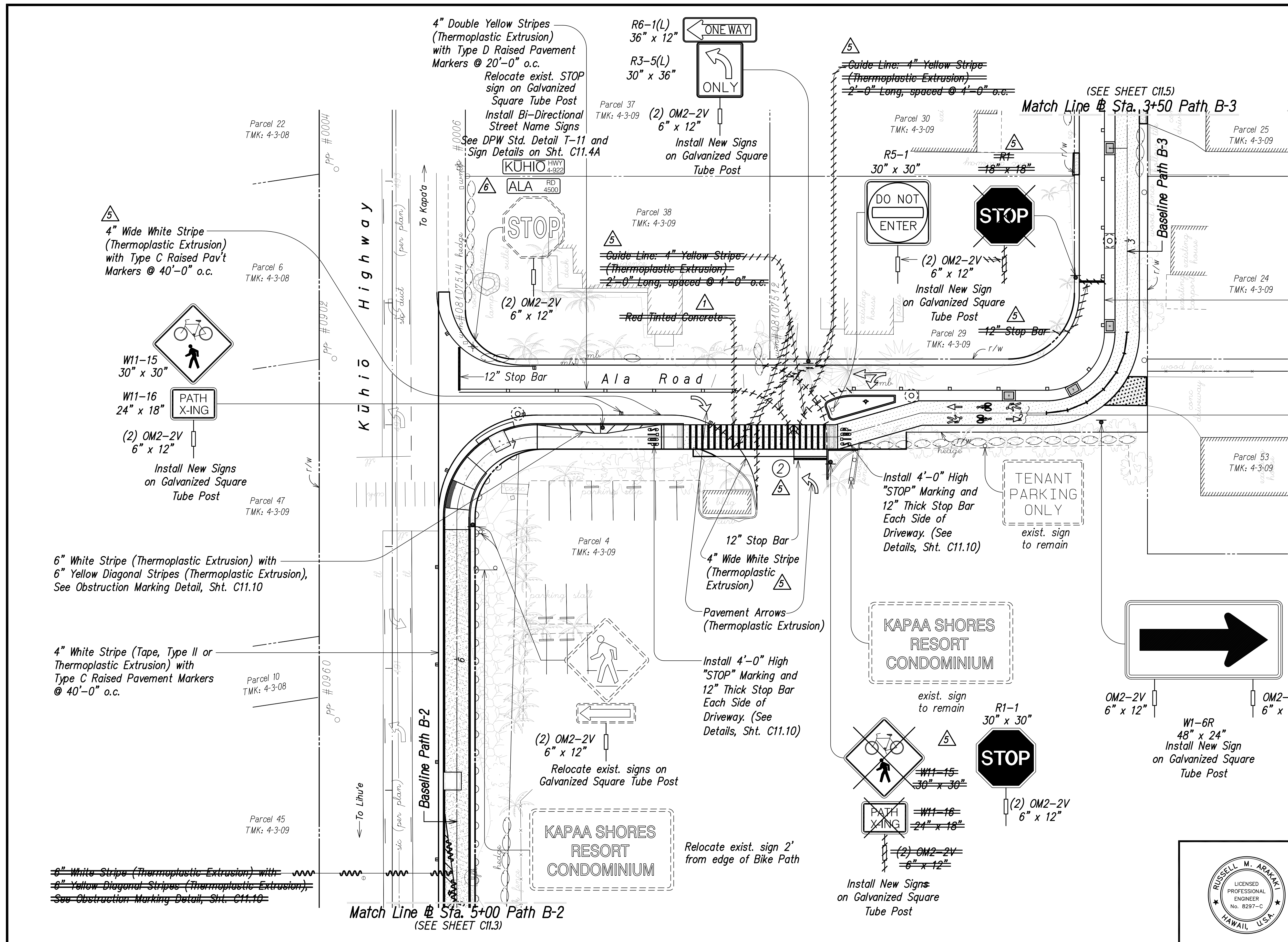
SIGNING & STRIPING PLAN
SCALE: 1" = 20'

"AS-BUILT"

ADD. 81

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	C.O. 82	143

TRUE NORTH
SCALE: 1" = 20'



6" Wide
~~4" Double Yellow Stripes~~
(Thermoplastic Extrusion)
with Type D Raised Pavement
Markers @ 20'-0" o.c.

Path Pavement Markings
See Detail on Sht. C11.5

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

DATE	REVISION
9/27/13	Added Kuhio Hwy and Ala Road Signs
5/30/13	Revised Striping
1/23/12	Deleted Red Tinted Concrete at Driveway.

RUSSELL M. ARAKAKI
LICENSED PROFESSIONAL ENGINEER
No. 8297-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Russell M. Arakaki
SIGNATURE

EXPIRATION DATE OF THE LICENSE

COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
LYDGATE PARK TO KAPA'A BIKE/
PEDESTRIAN PATH PHASE B
KAPA'A, KAUAI, HAWAII

SIGNING & STRIPING PLAN
PATH B-2 & B-3
FEDERAL-AID PROJECT NO. STP-0700(61)
DATE: NOVEMBER 2011

DRAWN BY: NGA	F.B.	C.B.	SHEET
TRACED BY: RMA			C11.4
CHECKED BY:			OF SHEETS

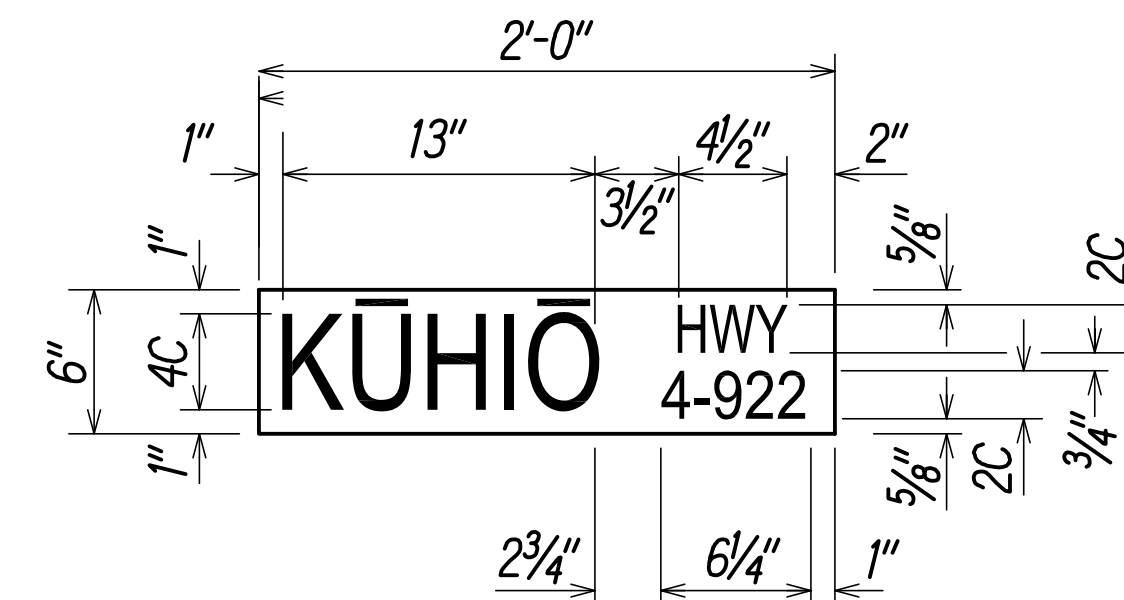
SIGNING & STRIPING PLAN
SCALE: 1" = 20'

APPROVED: _____ DATE _____
COUNTY ENGINEER (FOR WORK WITHIN COUNTY RIGHT OF WAY)

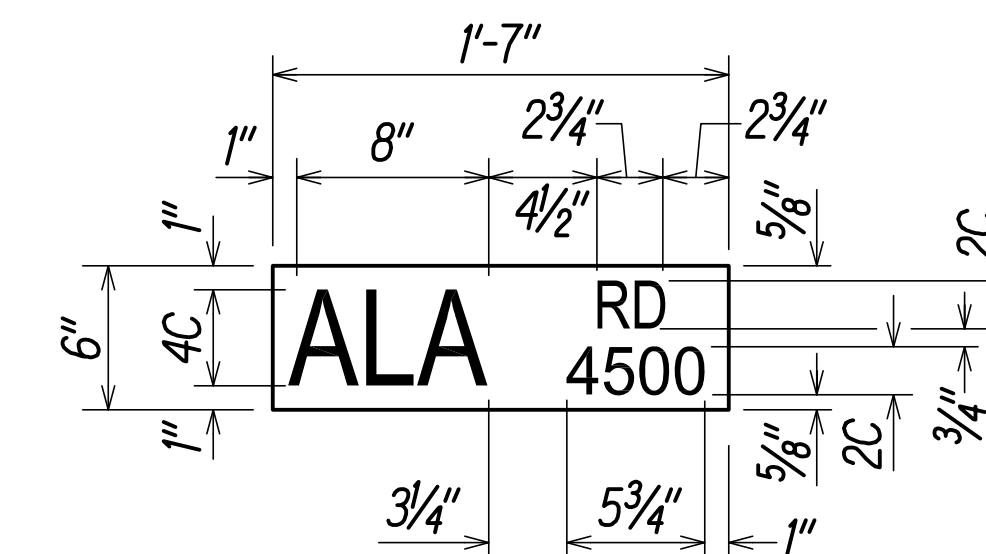
"AS-BUILT"

C.O. 82

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	C.O. 82 S-1	143



KUHIO HIGHWAY SIGN



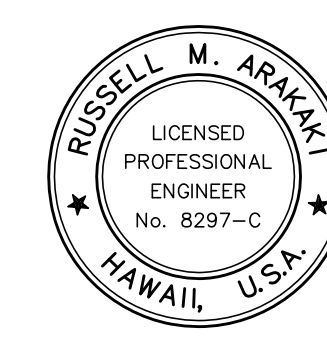
ALA ROAD SIGN

Notes:

1. Both Street Name signs shall be installed on same sign post with Stop sign.
2. The Street Name signs shall be retroreflective to show the same shape and similar color, both day and night, and on two sides (visible to both directions).
3. The legend shall be white on a green background.
4. Font size and spacing shall conform to Federal Highway Administration Standard Highway Signs convention.

STREET NAME SIGNS ON SIGN POST [△]
Scale: 1-1/2" = 1'-0"

9/27/13	△ Added New Sheet
DATE	REVISION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Russell M. Araki 4-30-14
SIGNATURE EXPIRATION DATE OF THE LICENSE

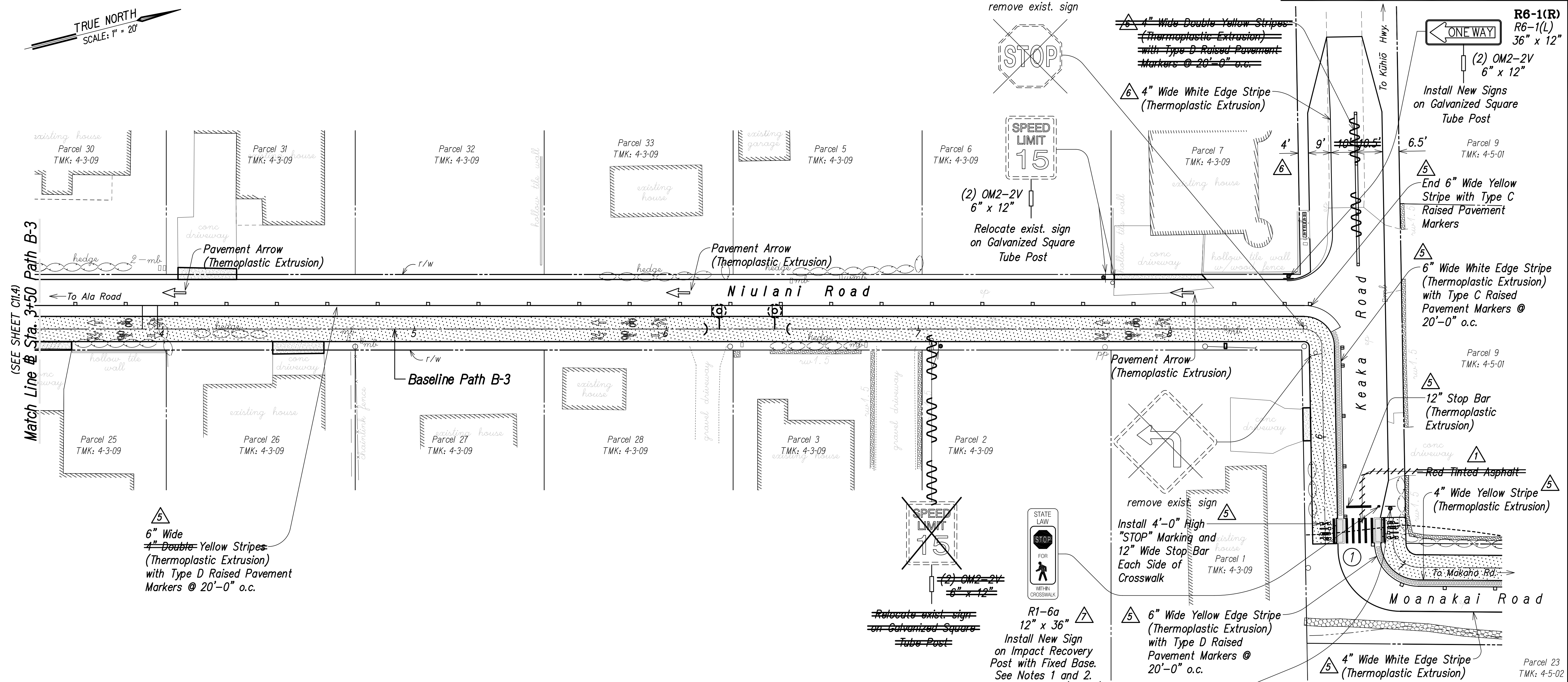
COUNTY OF KAUAI DEPARTMENT OF PUBLIC WORKS LYDGATE PARK TO KAPA'A BIKE/ PEDESTRIAN PATH PHASE B KAPA'A, KAUAI, HAWAII			
SIGN DETAILS			
FEDERAL-AID PROJECT NO. STP-0700(61) DATE: NOVEMBER 2011			
DRAWN BY:	NGA	F.B.	C.B.
TRACED BY:			
CHECKED BY:	RMA		
			SHEET C11.4A OF SHEETS

"AS-BUILT"

C.O. 82 S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	C.O. 83	143

TRUE NORTH
SCALE: 1" = 20'



5
6" Wide
~~4" Double Yellow Stripes~~
(Thermoplastic Extrusion)
with Type D Raised Pavement
Markers @ 20'-0" o.c.

remove exist. sign
STOP
SPEED LIMIT 15
(2) OM2-2V
6" x 12"
Relocate exist. sign
on Galvanized Square
Tube Post
4" Wide White Edge Stripe
(Thermoplastic Extrusion)
4" Wide Double Yellow Stripes
(Thermoplastic Extrusion)
with Type D Raised Pavement
Markers @ 20'-0" o.c.

R6-1(R)
R6-1(L)
36" x 12"
(2) OM2-2V
6" x 12"
Install New Signs
on Galvanized Square
Tube Post

5
End 6" Wide Yellow
Stripe with Type C
Raised Pavement
Markers
5
6" Wide White Edge Stripe
(Thermoplastic Extrusion)
with Type C Raised
Pavement Markers @
20'-0" o.c.

Pavement Arrow
(Thermoplastic Extrusion)

remove exist. sign
Install 4'-0" High
"STOP" Marking and
12" Wide Stop Bar
Each Side of
Crosswalk
5
6" Wide Yellow Edge Stripe
(Thermoplastic Extrusion)
with Type D Raised
Pavement Markers @
20'-0" o.c.

Relocate exist. sign
on Galvanized Square
Tube Post
R1-6a
12" x 36"
Install New Sign
on Impact Recovery
Post with Fixed Base.
See Notes 1 and 2.
Face Sign West (Mauka).

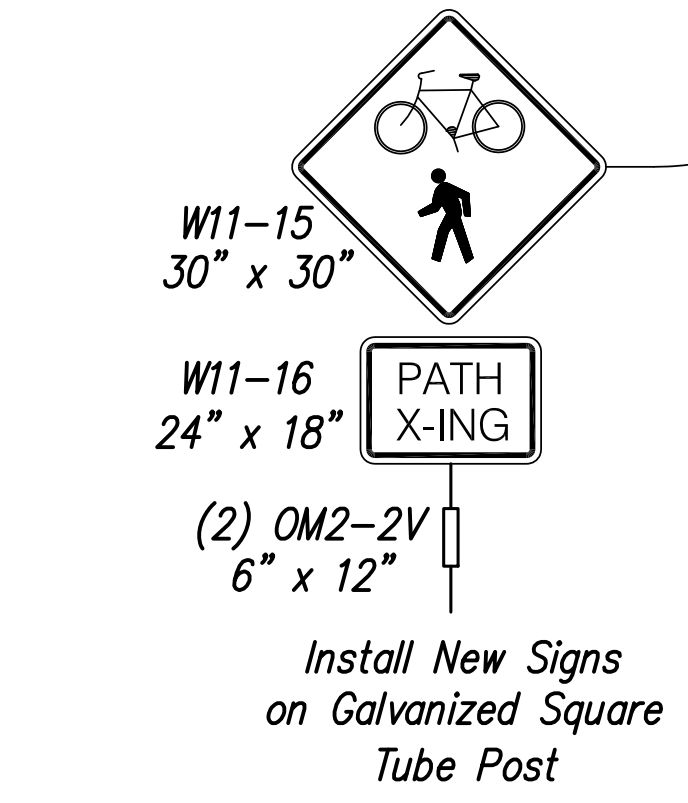
1
Red Tinted Asphalt
4" Wide Yellow Stripe
(Thermoplastic Extrusion)
5
4" Wide White Edge Stripe
(Thermoplastic Extrusion)

LEGEND FOR AS-BUILT POSTINGS

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

SIGNING & STRIPING PLAN
SCALE: 1" = 20'

- Notes:
- The In-Street Pedestrian Crosswalk Sign shall comply with the latest Edition of the Manual on Uniform Traffic Control Devices (MUTCD).
 - The Post, Sign Mounting Panel and Fixed Base shall be manufactured by Impact Recovery Systems, Inc. or equal, acceptable to the Engineer and meet the following requirements:
 - The Post and Sign Mounting Panel shall be white, constructed of flexible polyethylene plastic resistant to ultraviolet light, ozone and hydrocarbons;
 - Equipped with an anti-twist feature that prevents the sign from twisting sideways;
 - The Post and Sign shall be secured with Stainless Steel Fasteners.
 - Fixed Base shall be secured with Stainless Steel Lag Screws and Washers, and Epoxy in accordance with the Manufacturer's recommendations; and,
 - NCHRP-350 Approved.



APPROVED:
COUNTY ENGINEER (FOR WORK WITHIN COUNTY RIGHT OF WAY) DATE

RUSSELL M. ARAKI
LICENSED PROFESSIONAL ENGINEER
No. 8297-C
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Russell M. Araki 4-30-14
SIGNATURE EXPIRATION DATE OF THE LICENSE

DATE	REVISION
8/01/13	Added Sign and Notes.
7/17/13	Added Striping.
4/05/13	Revised Striping.
1/23/12	Deleted Red Tinted Asphalt at Keaka Road.

COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
LYDGATE PARK TO KAPA'A BIKE/
PEDESTRIAN PATH PHASE B
KAPA'A, KAUAI, HAWAII
SIGNING & STRIPING PLAN
PATH B-3
FEDERAL-AID PROJECT NO. STP-0700(61)
DATE: NOVEMBER 2011
DRAWN BY: NGA
TRACED BY: F.B.
CHECKED BY: RMA
SHEET C11.5 OF SHEETS

"AS-BUILT"

C.O. 83

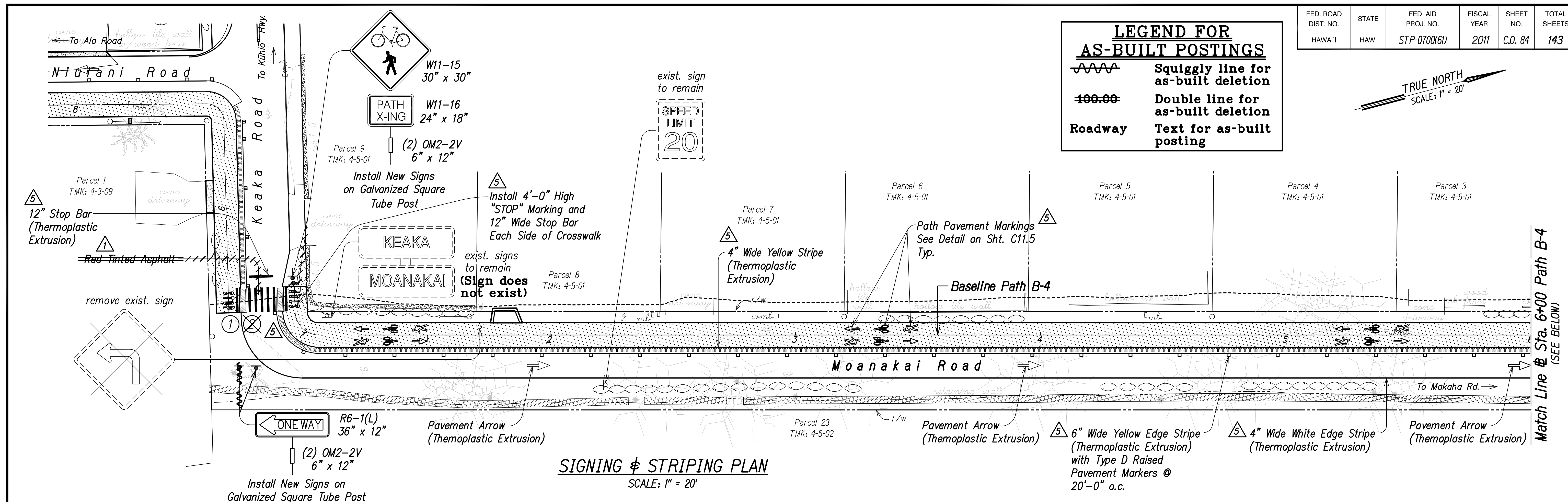
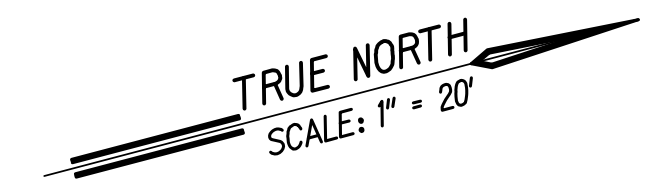
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	C.O. 84	143

LEGEND FOR AS-BUILT POSTINGS

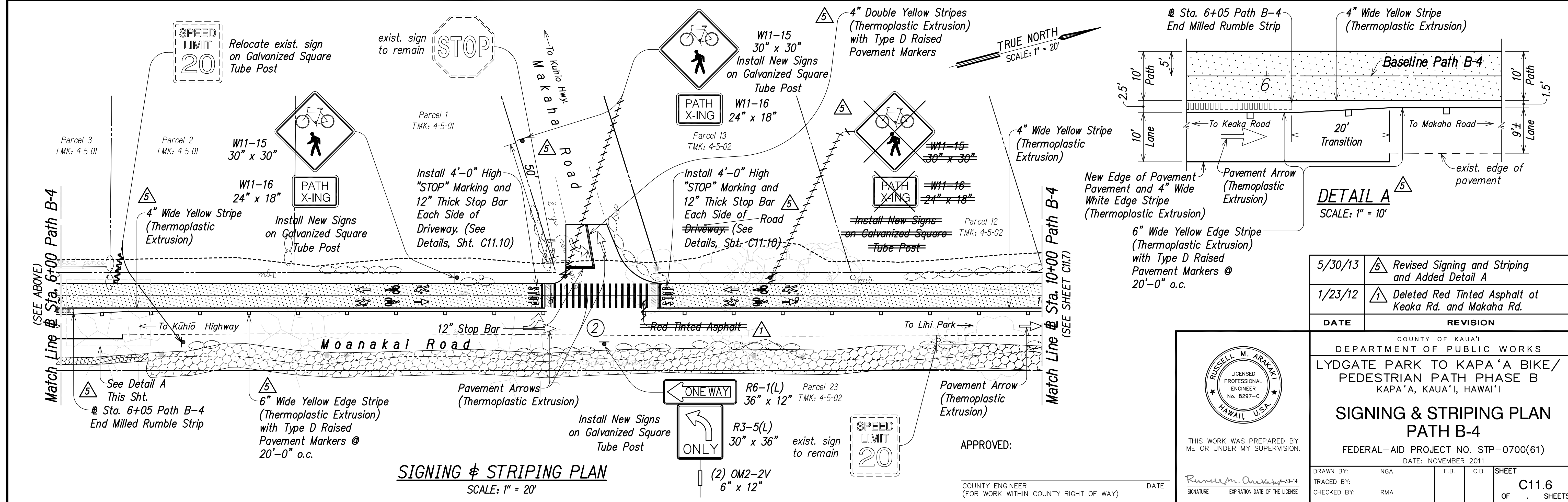
Squiggly line for as-built deletion

Double line for as-built deletion

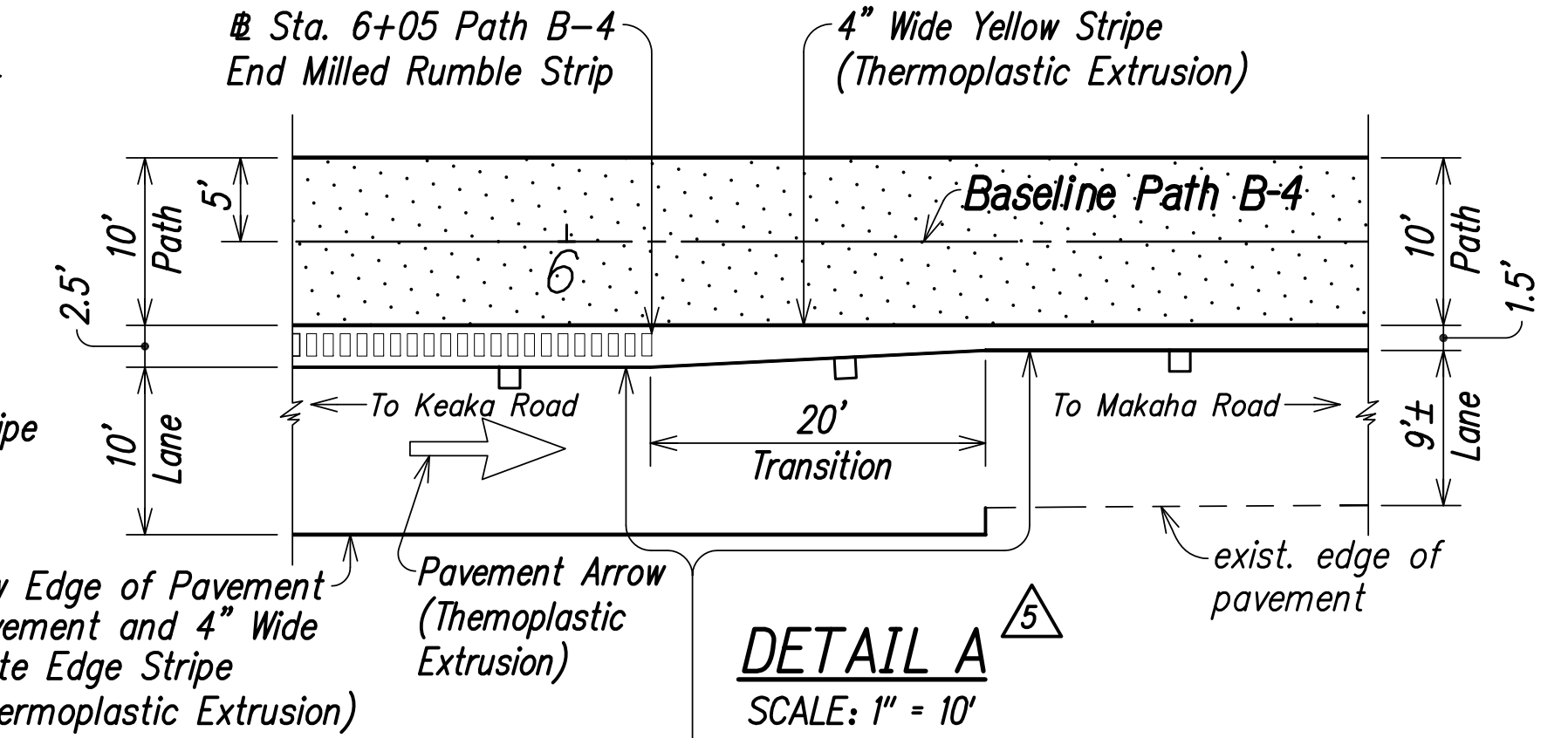
Roadway Text for as-built posting



SIGNING & STRIPING PLAN
SCALE: 1" = 20'



SIGNING & STRIPING PLAN
SCALE: 1" = 20'



DETAIL A
SCALE: 1" = 10'

DATE	REVISION
5/30/13	Revised Signing and Striping and Added Detail A
1/23/12	Deleted Red Tinted Asphalt at Keaka Rd. and Makaha Rd.

RUSSELL M. ARAKAKI
LICENSED PROFESSIONAL ENGINEER
No. 8297-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Russell M. Arakaki 3-14
SIGNATURE EXPIRATION DATE OF THE LICENSE

COUNTY OF KAUAI
DEPARTMENT OF PUBLIC WORKS
LYDGATE PARK TO KAPA'A BIKE/
PEDESTRIAN PATH PHASE B
KAPA'A, KAUAI, HAWAII

SIGNING & STRIPING PLAN
PATH B-4
FEDERAL-AID PROJECT NO. STP-0700(61)
DATE: NOVEMBER 2011

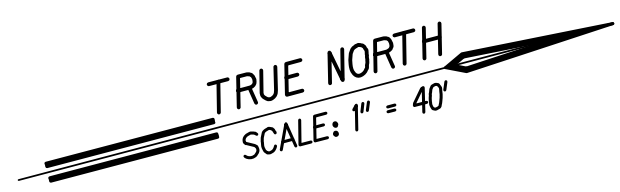
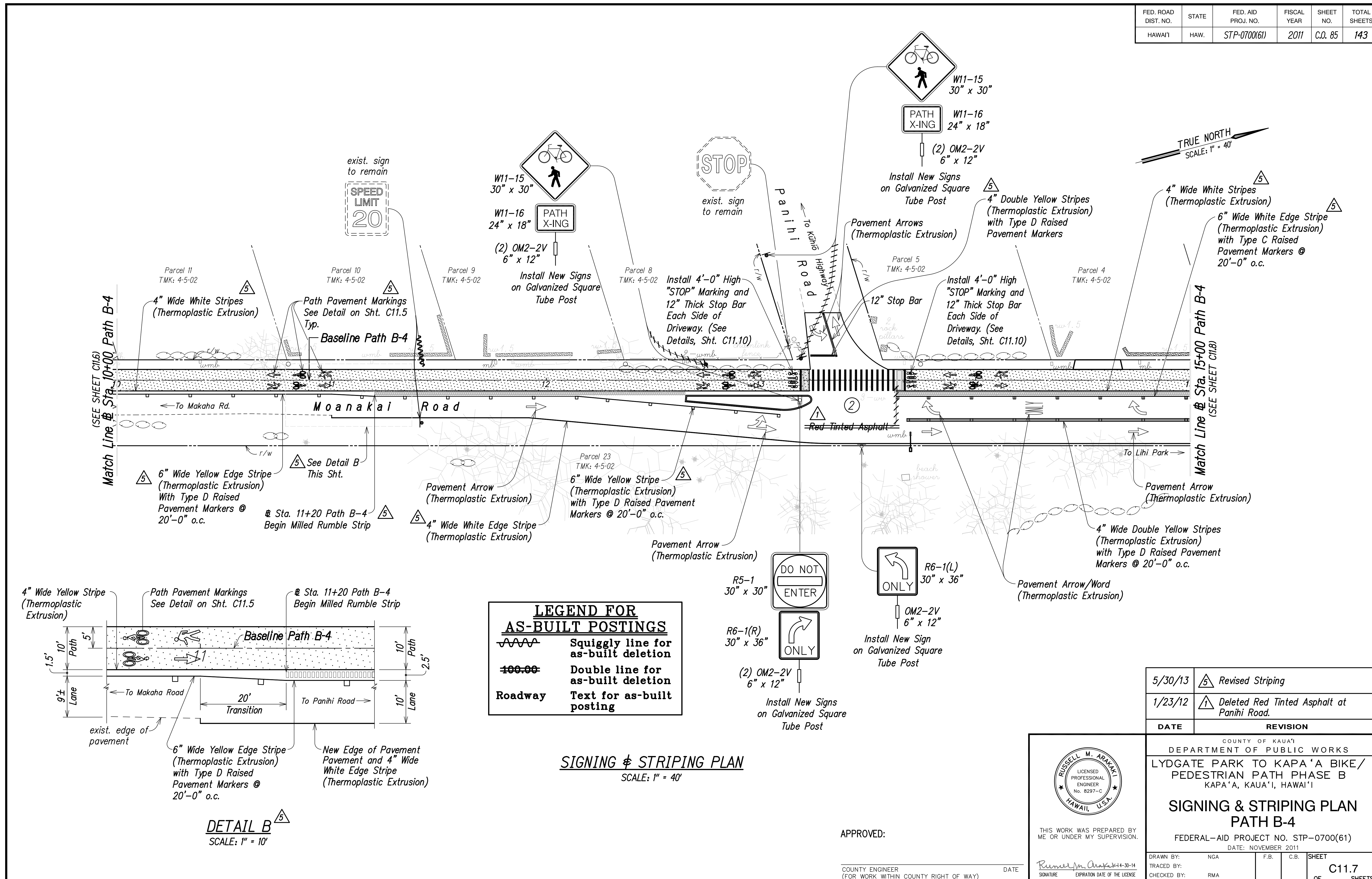
DRAWN BY: NGA	F.B.	C.B.	SHEET
TRACED BY: RMA			C11.6
CHECKED BY:			OF SHEETS

APPROVED: _____ DATE _____
COUNTY ENGINEER (FOR WORK WITHIN COUNTY RIGHT OF WAY)

"AS-BUILT"

C.O. 84

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	C.O. 85	143

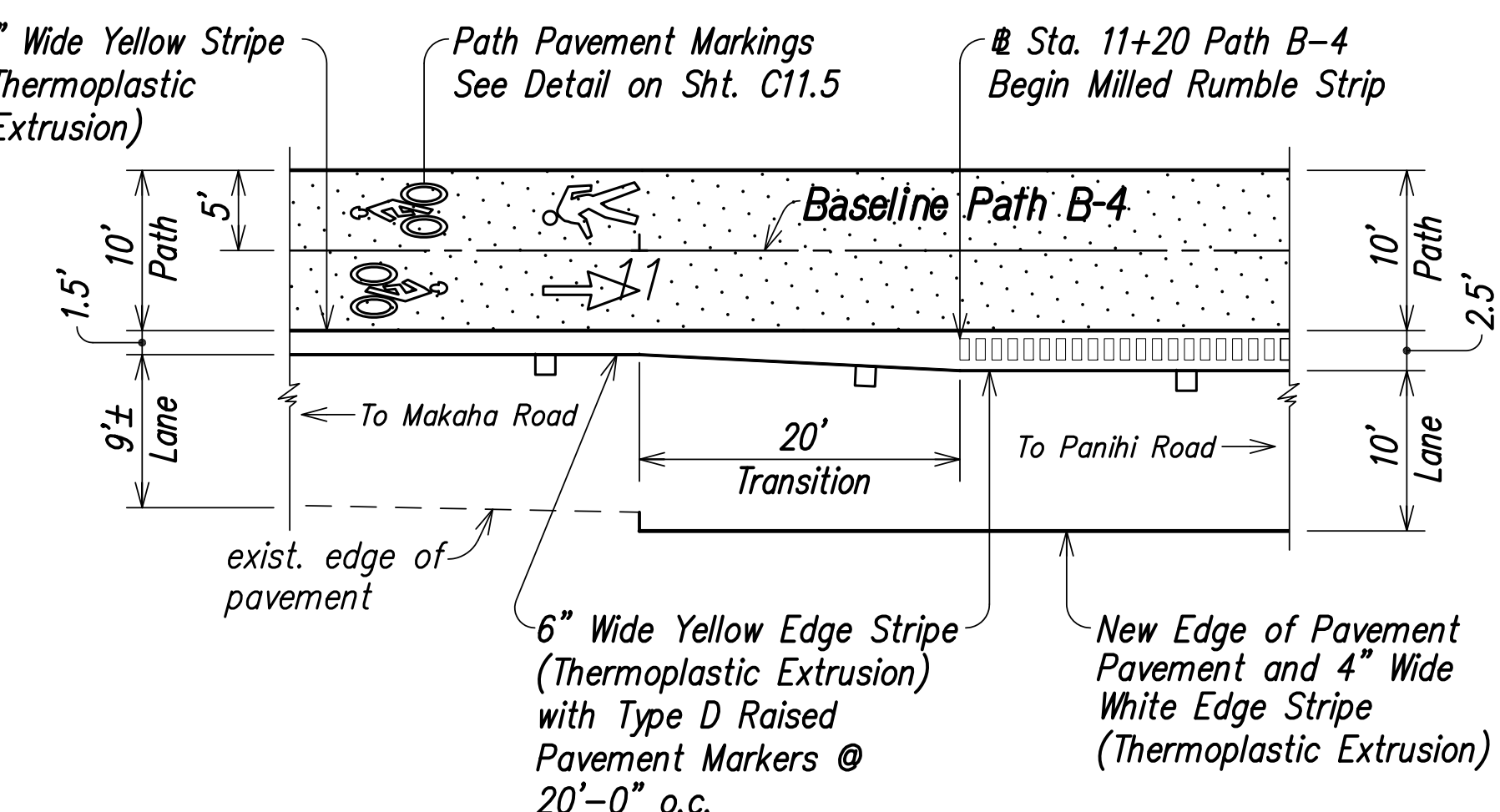


Match Line @ Sta. 10+00 Path B-4
(SEE SHEET C11.6)

Match Line @ Sta. 15+00 Path B-4
(SEE SHEET C11.8)

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

SIGNING & STRIPING PLAN
SCALE: 1" = 40'



DETAIL B
SCALE: 1" = 10'

APPROVED:

COUNTY ENGINEER (FOR WORK WITHIN COUNTY RIGHT OF WAY) DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 Russell M. Araki 11-30-14
 SIGNATURE EXPIRATION DATE OF THE LICENSE

DATE	REVISION
5/30/13	Revised Striping
1/23/12	Deleted Red Tinted Asphalt at Panihi Road.

COUNTY OF KAUAI
 DEPARTMENT OF PUBLIC WORKS
 LYDGATE PARK TO KAPA'A BIKE/
 PEDESTRIAN PATH PHASE B
 KAPA'A, KAUAI, HAWAII
SIGNING & STRIPING PLAN
PATH B-4
 FEDERAL-AID PROJECT NO. STP-0700(61)
 DATE: NOVEMBER 2011

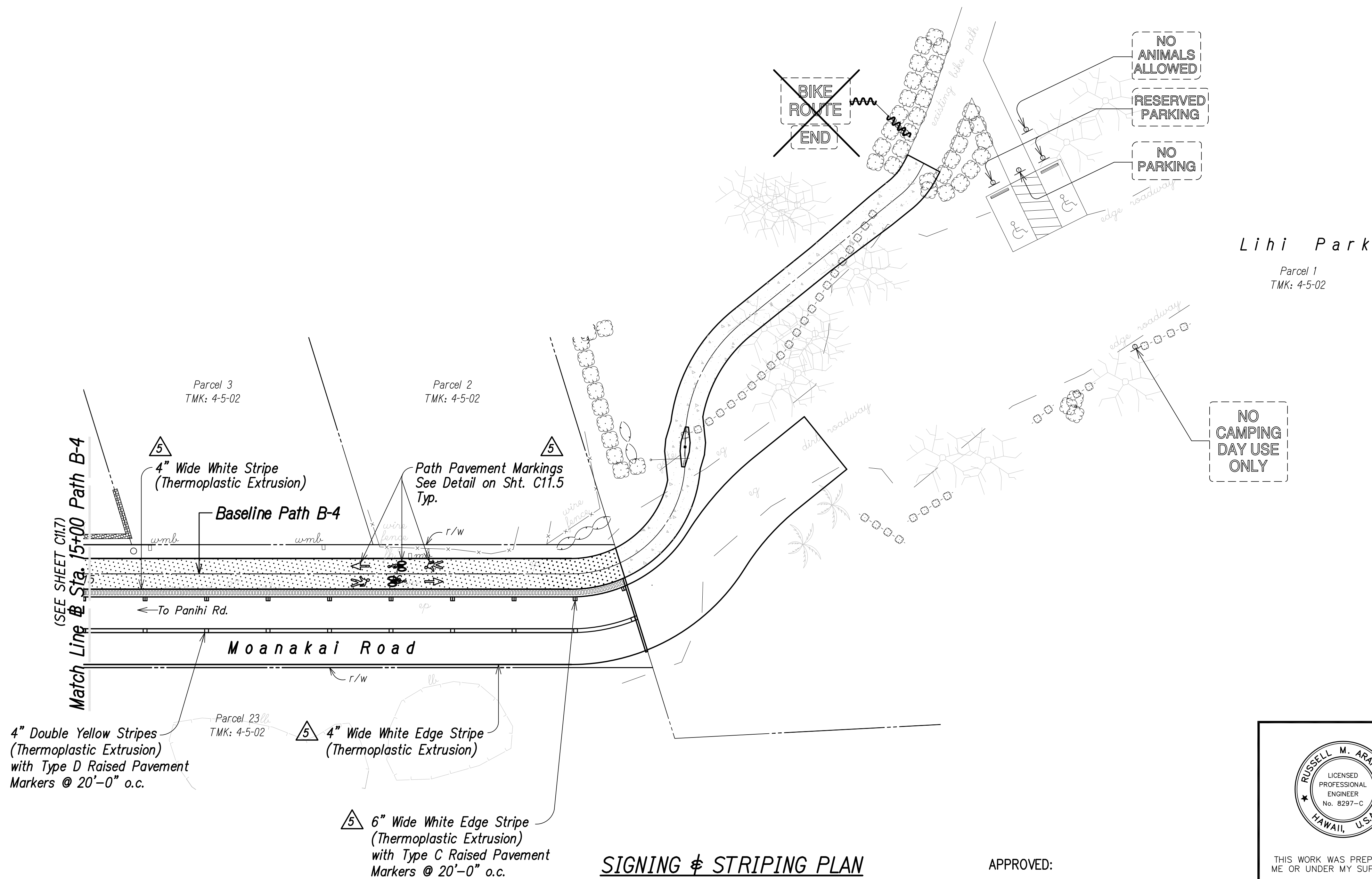
DRAWN BY: NGA	F.B.	C.B.	SHEET
TRACED BY: RMA			C11.7
CHECKED BY:			OF SHEETS

"AS-BUILT"

C.O. 85

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	C.O. 86	143

TRUE NORTH
SCALE: 1" = 20'



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

DATE	REVISION
5/30/13	Revised Striping

RUSSELL M. ARAKI
 LICENSED PROFESSIONAL ENGINEER
 No. 8297-C
 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Russell M. Araki 4-30-14
SIGNATURE EXPIRATION DATE OF THE LICENSE

COUNTY OF KAUAI
 DEPARTMENT OF PUBLIC WORKS
 LYDGATE PARK TO KAPA'A BIKE/
 PEDESTRIAN PATH PHASE B
 KAPA'A, KAUAI, HAWAII

SIGNING & STRIPING PLAN
PATH B-4 & B-5
 FEDERAL-AID PROJECT NO. STP-0700(61)
 DATE: NOVEMBER 2011

DRAWN BY: NGA	F.B.	C.B.	SHEET
TRACED BY:			C11.8
CHECKED BY: RMA			OF SHEETS

APPROVED: _____ DATE _____
 COUNTY ENGINEER (FOR WORK WITHIN COUNTY RIGHT OF WAY)

SIGNING & STRIPING PLAN
SCALE: 1" = 20'

"AS-BUILT"

C.O. 86

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	ADD. 87	143

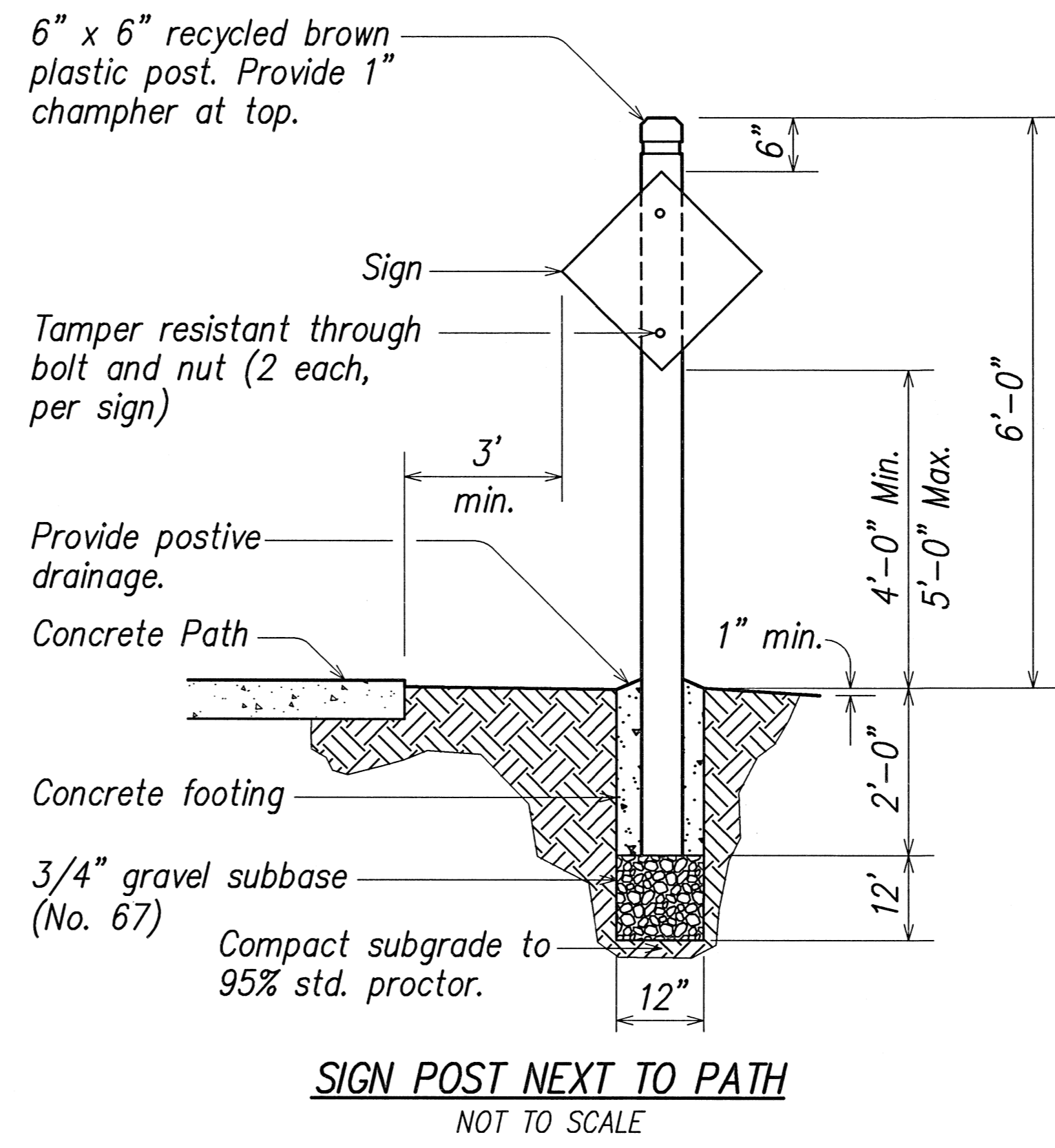
I-3A
18" x 24"
LETTERING= 1" x 1-1/4"
WHITE ON BROWN

I-3B
18" x 24"
LETTERING= 1" x 1-1/4"
WHITE ON BROWN

I-9
18" x 24"
LETTERING= 1" x 1-1/4"
WHITE ON BROWN

I-10
18" x 24"
LETTERING= 1" x 1-1/4"
WHITE ON BROWN

W11-16
24" x 18"
BLACK ON YELLOW



- NOTES:**
- All signs shall be aluminum and conform to HDOT and MUTCD specifications regarding size, thickness and background colors, etc. unless otherwise noted.
 - All signs shall be retro-reflective.
 - All hardware to be stainless steel unless otherwise noted.
 - Provide positive drainage away from all signs.
 - All sign construction, including excavation, compaction, crushed rock, concrete footing, backfill, posts, signs and hardware shall be paid under item No. 636.0100 signs for Bike Path.

APPROVED: _____
COUNTY ENGINEER (FOR WORK WITHIN COUNTY RIGHT OF WAY) DATE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

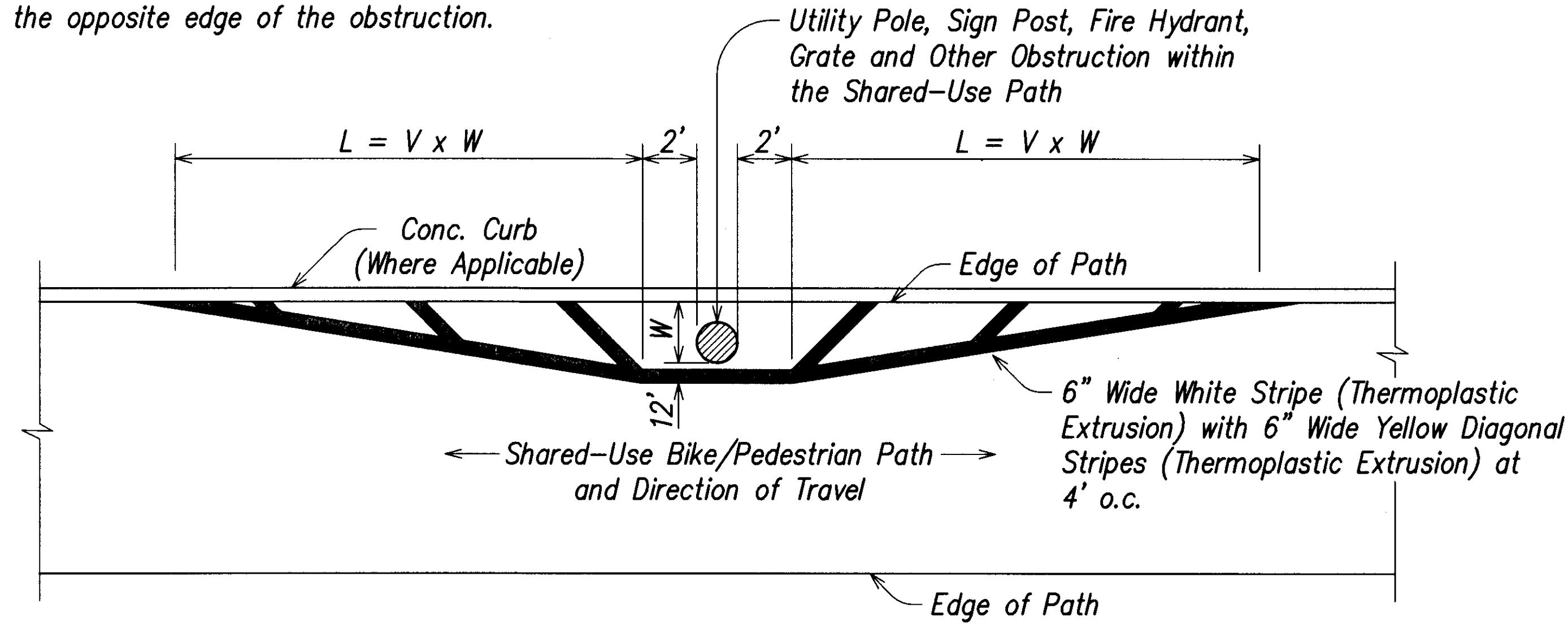
Russell M. Arakawa 4-30-12
SIGNATURE EXPIRATION DATE OF THE LICENSE

2/7/12	Deleted Beach Access Signs
DATE	REVISION
COUNTY OF KAUAI DEPARTMENT OF PUBLIC WORKS LYDGATE PARK TO KAPA'A BIKE/ PEDESTRIAN PATH PHASE B KAPA'A, KAUAI, HAWAII	
SIGNAGE DETAILS	
FEDERAL-AID PROJECT NO. STP-0700(61) DATE: NOVEMBER 2011	
DRAWN BY: NGA	F.B. C.B. SHEET
TRACED BY: RMA	C11.9 OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(61)	2011	88	143

NOTES:

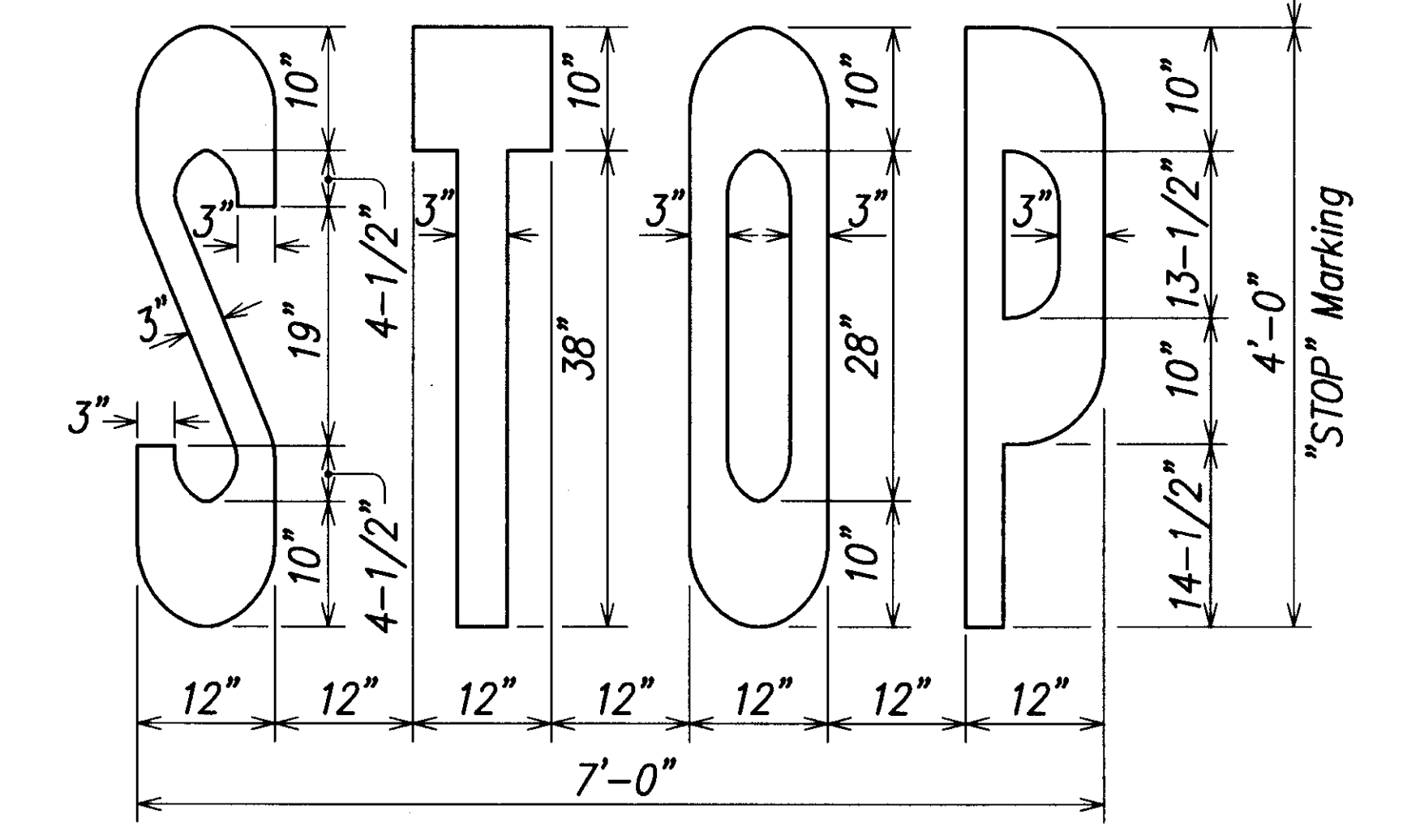
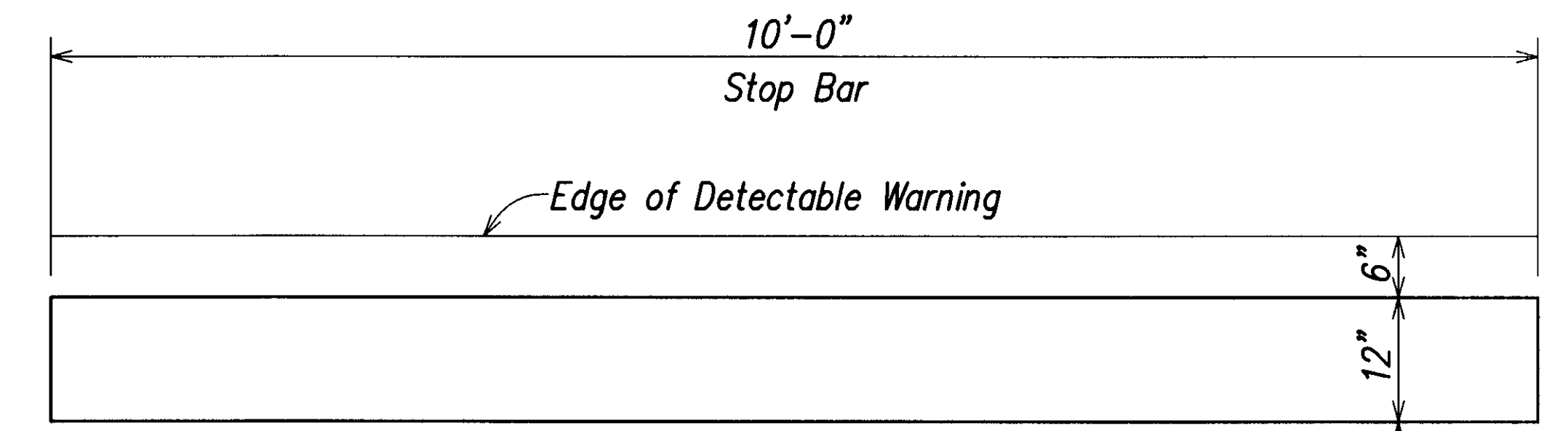
1. L is the length of the striping, in feet.
2. V is the bicycle approach speed, in mph. (Design Speed = 10 mph)
3. W is the width of the obstruction, in feet, measured from the nearest edge of path to the opposite edge of the obstruction.



OBSTRUCTION MARKING DETAIL
 NOT TO SCALE

NOTE:

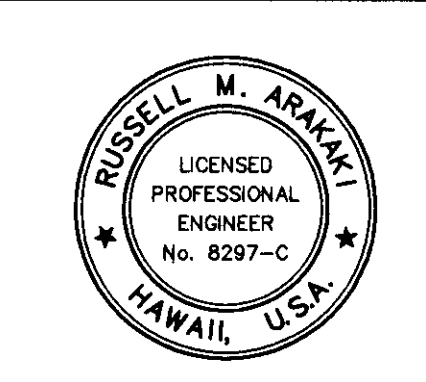
"STOP" and Stop Bar Marking shall be White Thermoplastic Extrusion.



4'-0" HIGH "STOP" AND STOP BAR MARKING DETAIL
 NOT TO SCALE

APPROVED:

[Signature] 12-21-11
 COUNTY ENGINEER (FOR WORK WITHIN COUNTY RIGHT OF WAY) DATE



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
[Signature] 4-30-12
 SIGNATURE EXPIRATION DATE OF THE LICENSE

COUNTY OF KAUAI' DEPARTMENT OF PUBLIC WORKS				
LYDGATE PARK TO KAPA'A BIKE/ PEDESTRIAN PATH PHASE B KAPA'A, KAUAI', HAWAII'				
PAVEMENT MARKING DETAILS				
FEDERAL-AID PROJECT NO. STP-0700(61) DATE: NOVEMBER 2011				
DRAWN BY:	NGA	F.B.	C.B.	SHEET
TRACED BY:				C11.10
CHECKED BY:	RMA			OF SHEETS

"AS-BUILT"