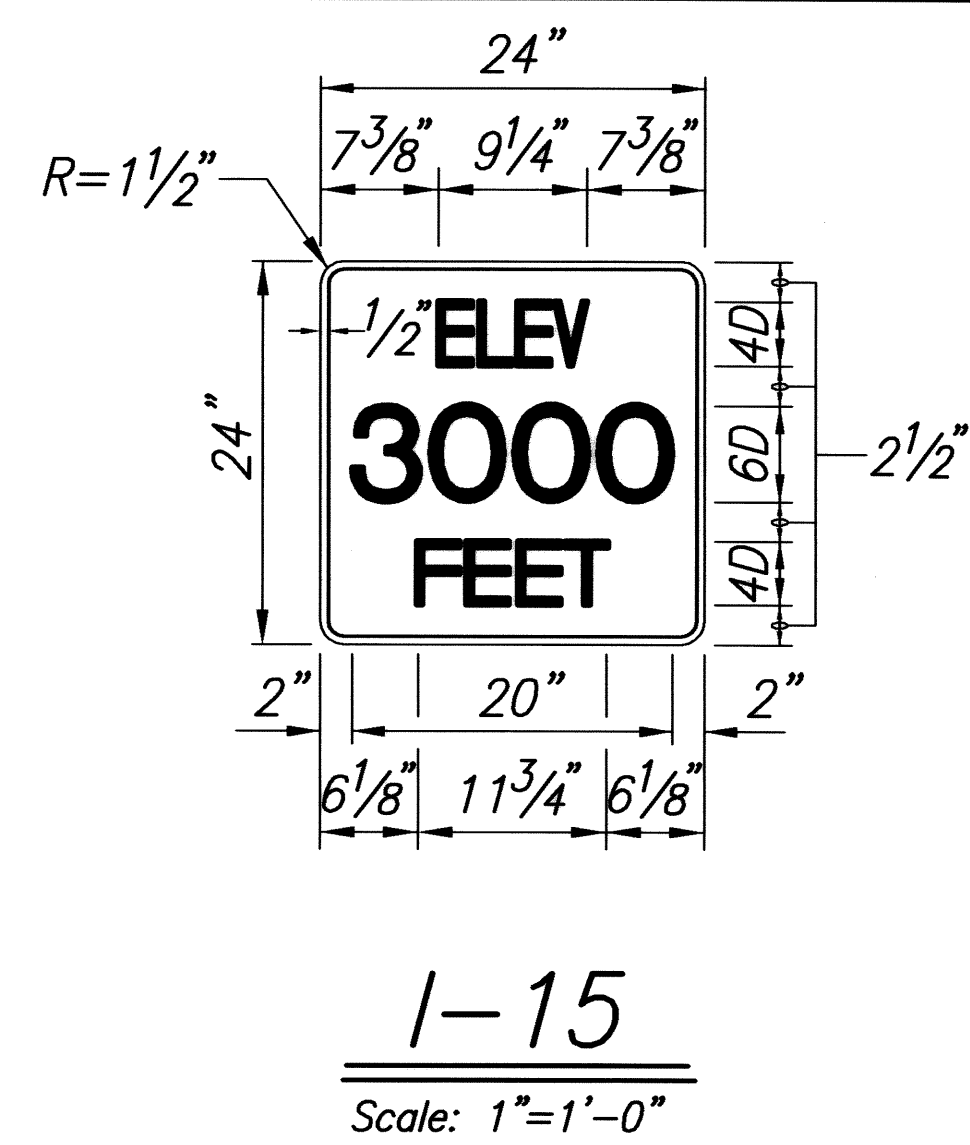
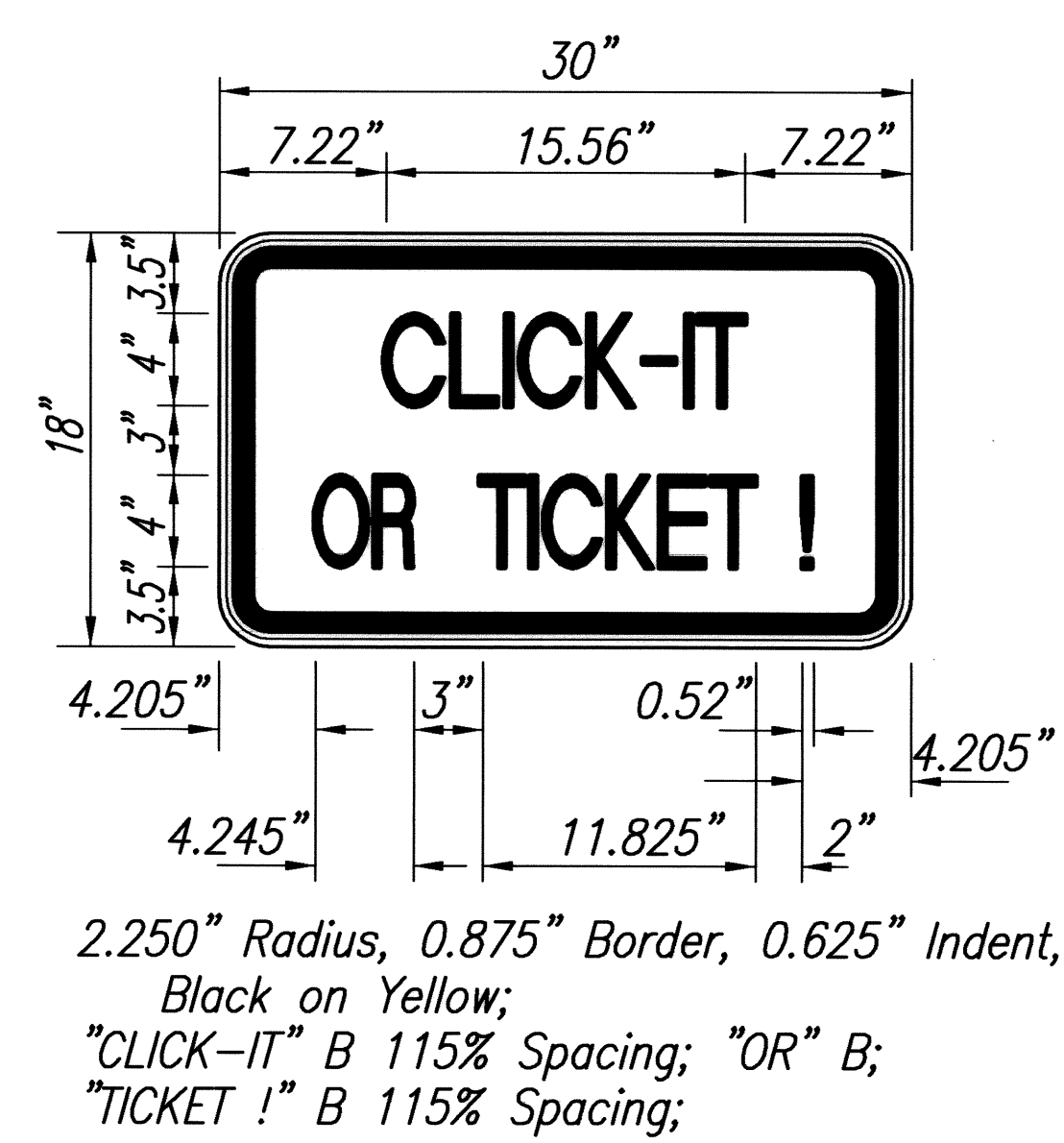
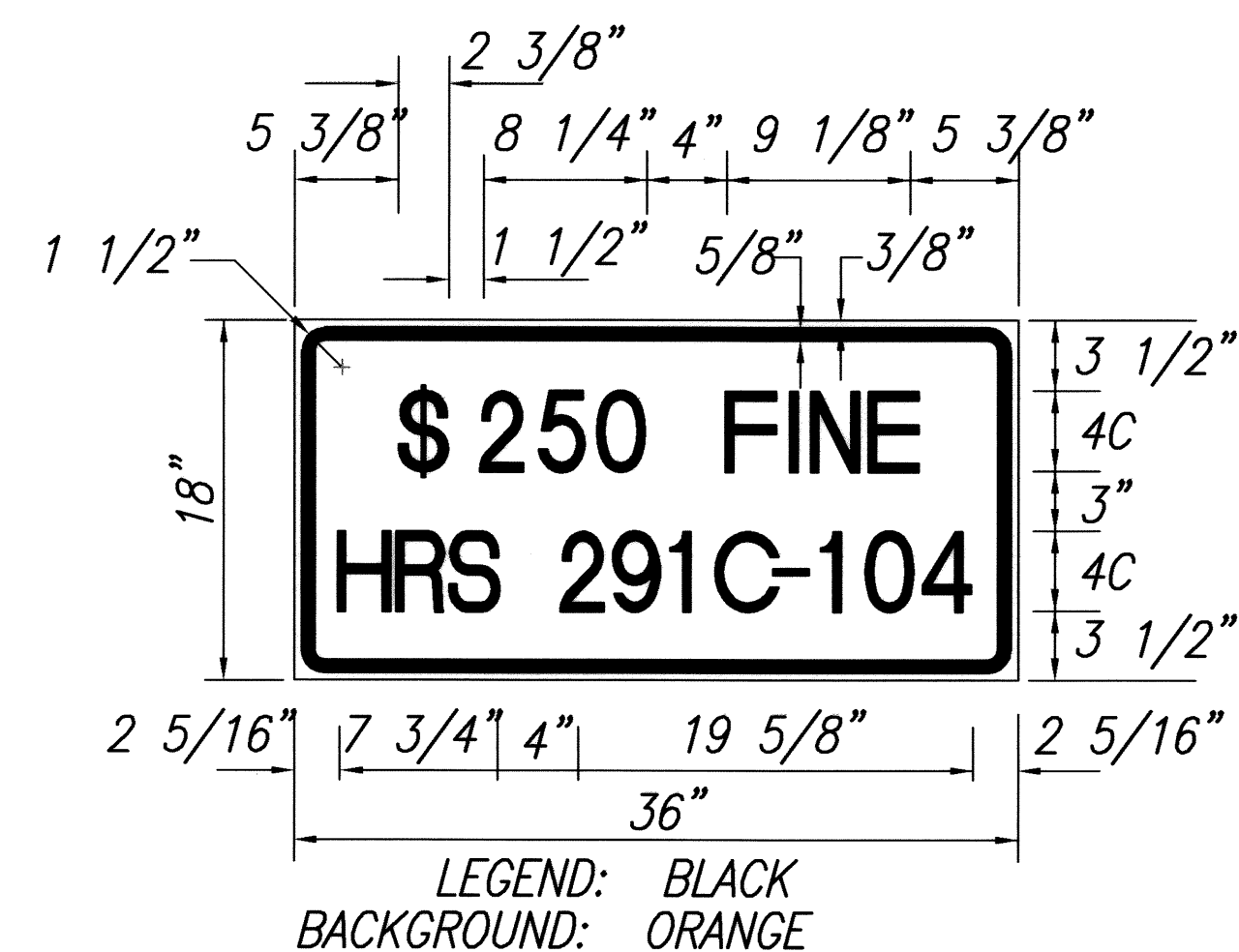
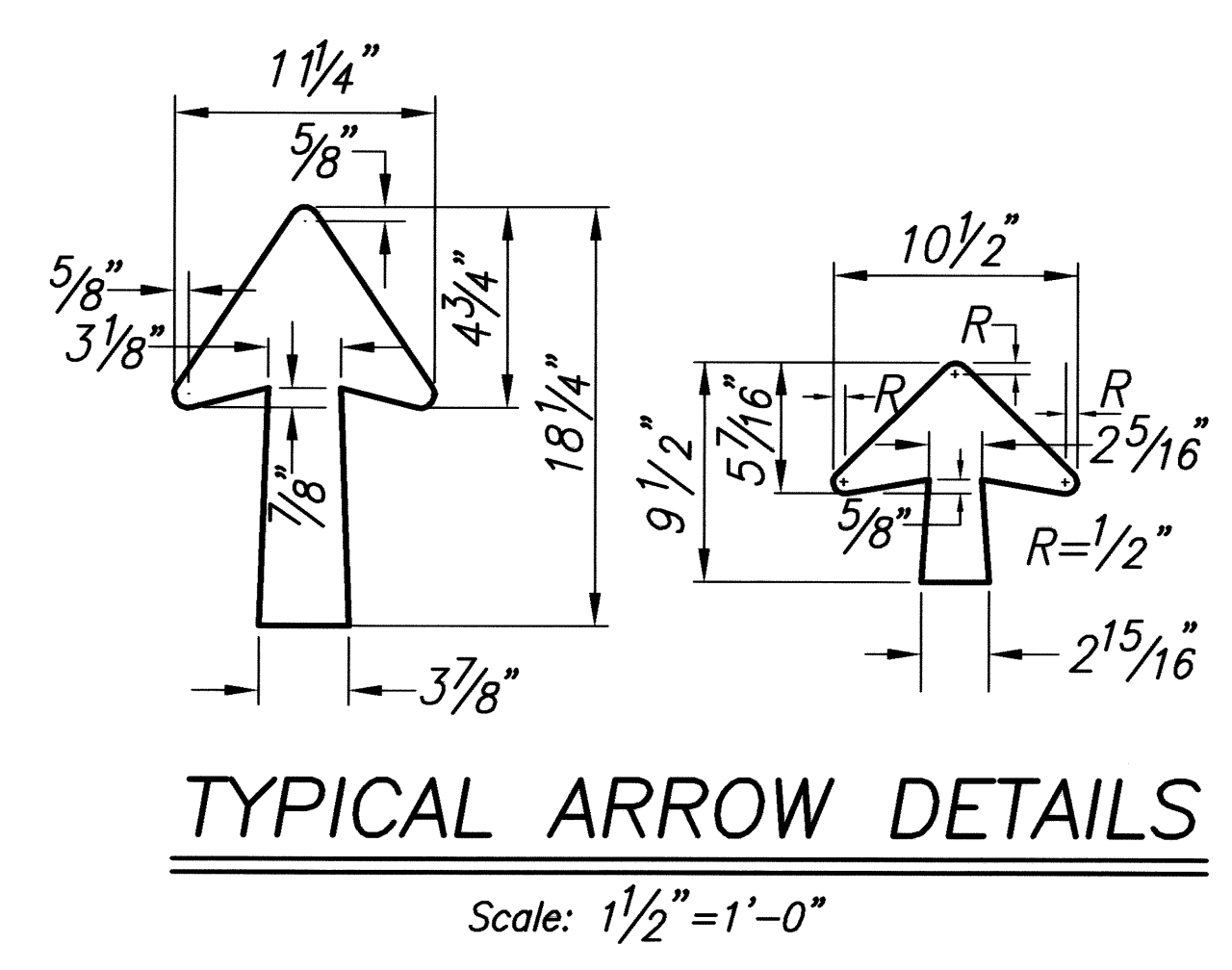
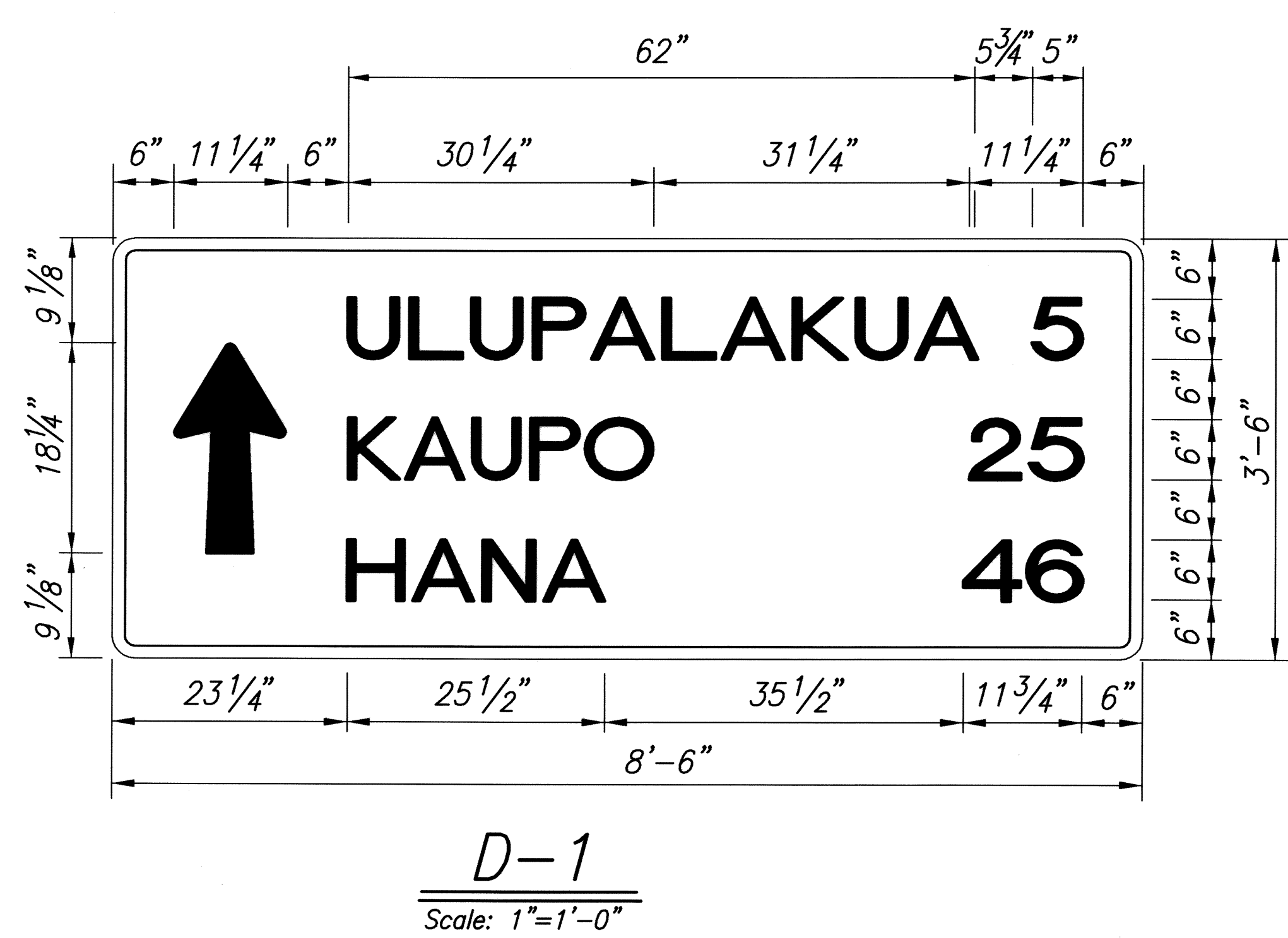
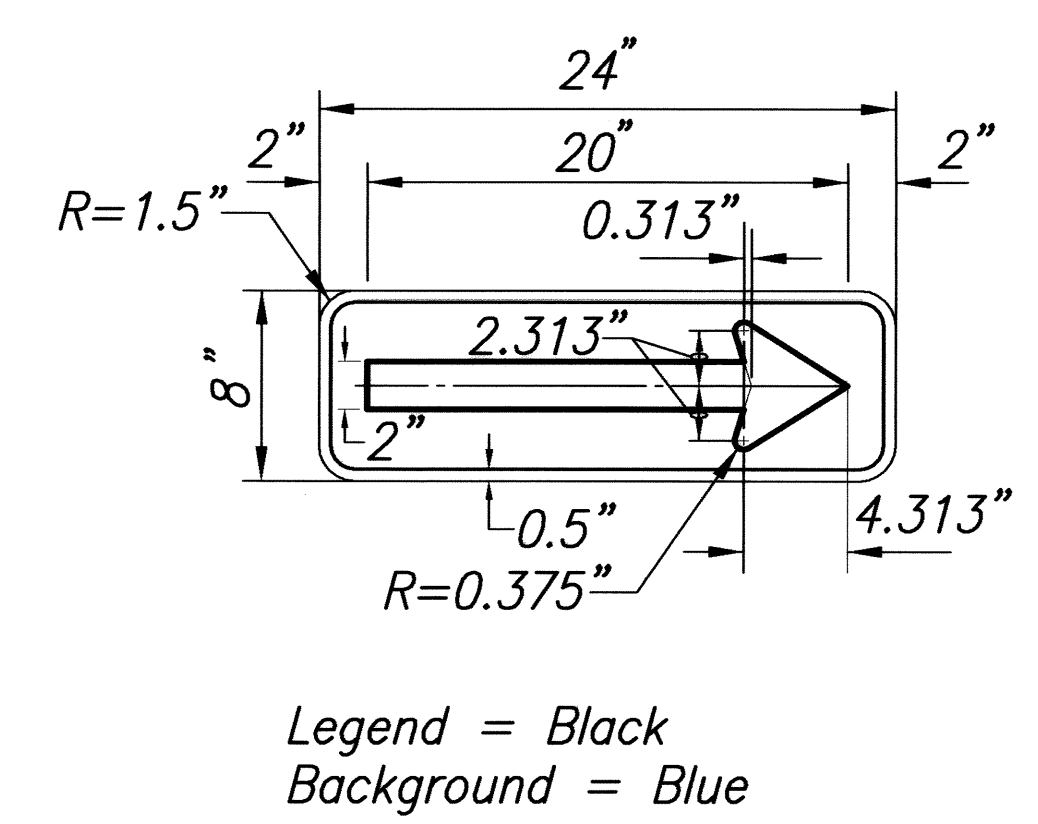
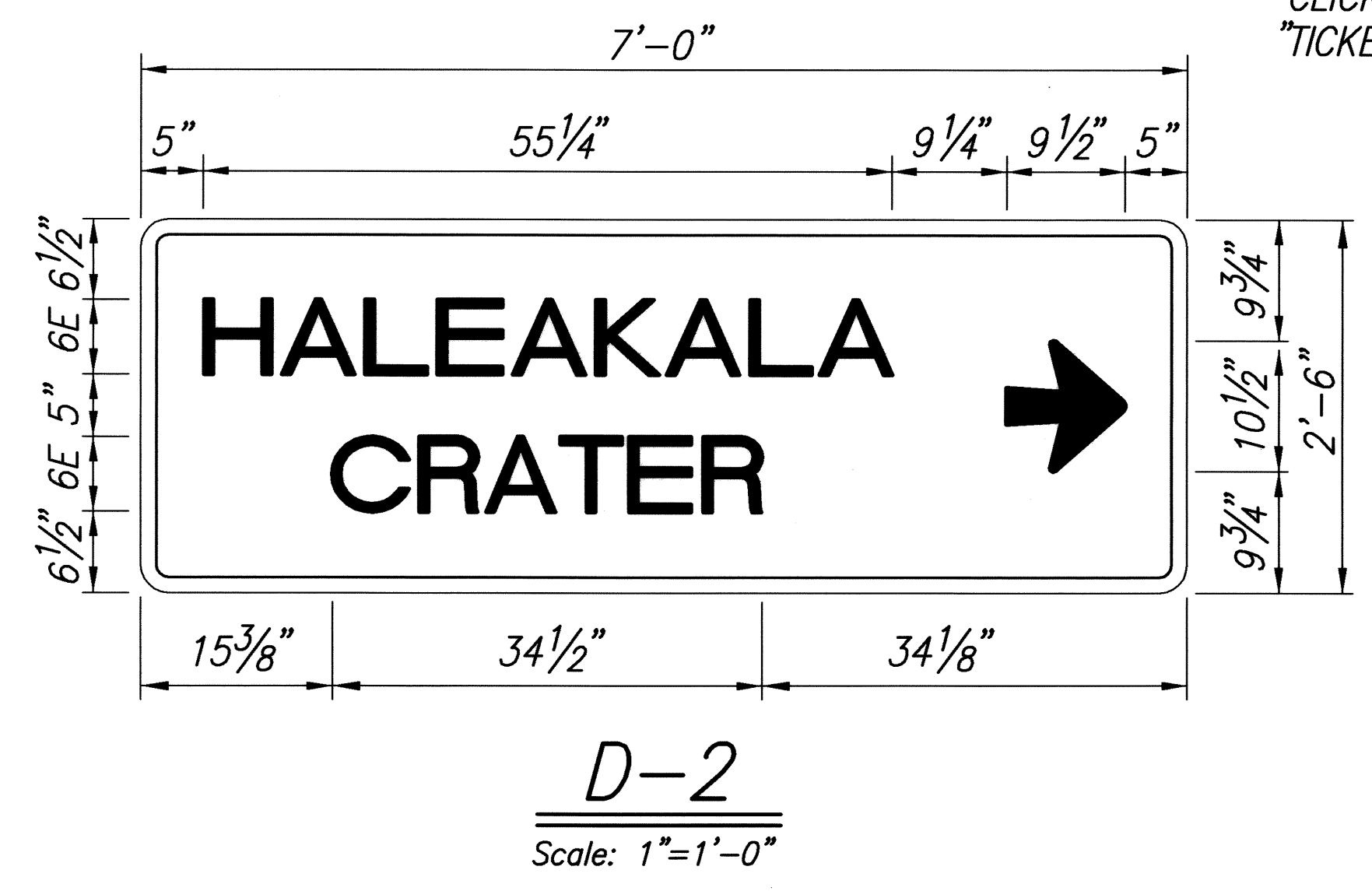


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	31	57



- NOTES:**
- The Contractor shall verify the locations and dimensions of existing Signs Panels, supports and framing.
 - Letter Size:
 - When letters are all uppercase, use series "E" unless otherwise noted.
 - When initial uppercase letter is used in conjunction with lower case letters, use series "E" (M) for uppercase letter.
 - Interstate Route Marker Symbols shall conform to details shown on the plans and as specified in the MUTCD.
 - All signs shall conform to Section 621 of the Special Provisions and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
 - Borders, messages, arrows, symbols and shield conform to details as shown on the plans and as specified in the MUTCD.
 - Signs messages shall be as indicated on the plans.
 - All panels shall be reflectorized in accordance with Section 712.20 of the Standard Specifications. Minimum width of panels shall be 2 feet. Abutting edges of panels shall be in only one direction if vertical abutting edges are used, no horizontal abutting edges shall be allowed and vice versa.
 - Contractor shall submit all sign splicing details to the Engineer for approval. All backing for signs 4 feet by 6 feet or less shall be of one sheet.
 - All signs shall be provided w/frame stiffeners in accordance with TE-03 of the Standard Plans.
 - Destination signs shall be installed with flanged channel posts (4.00 Lbs./Ft.), 3-post installation, unless shown otherwise on the plans.

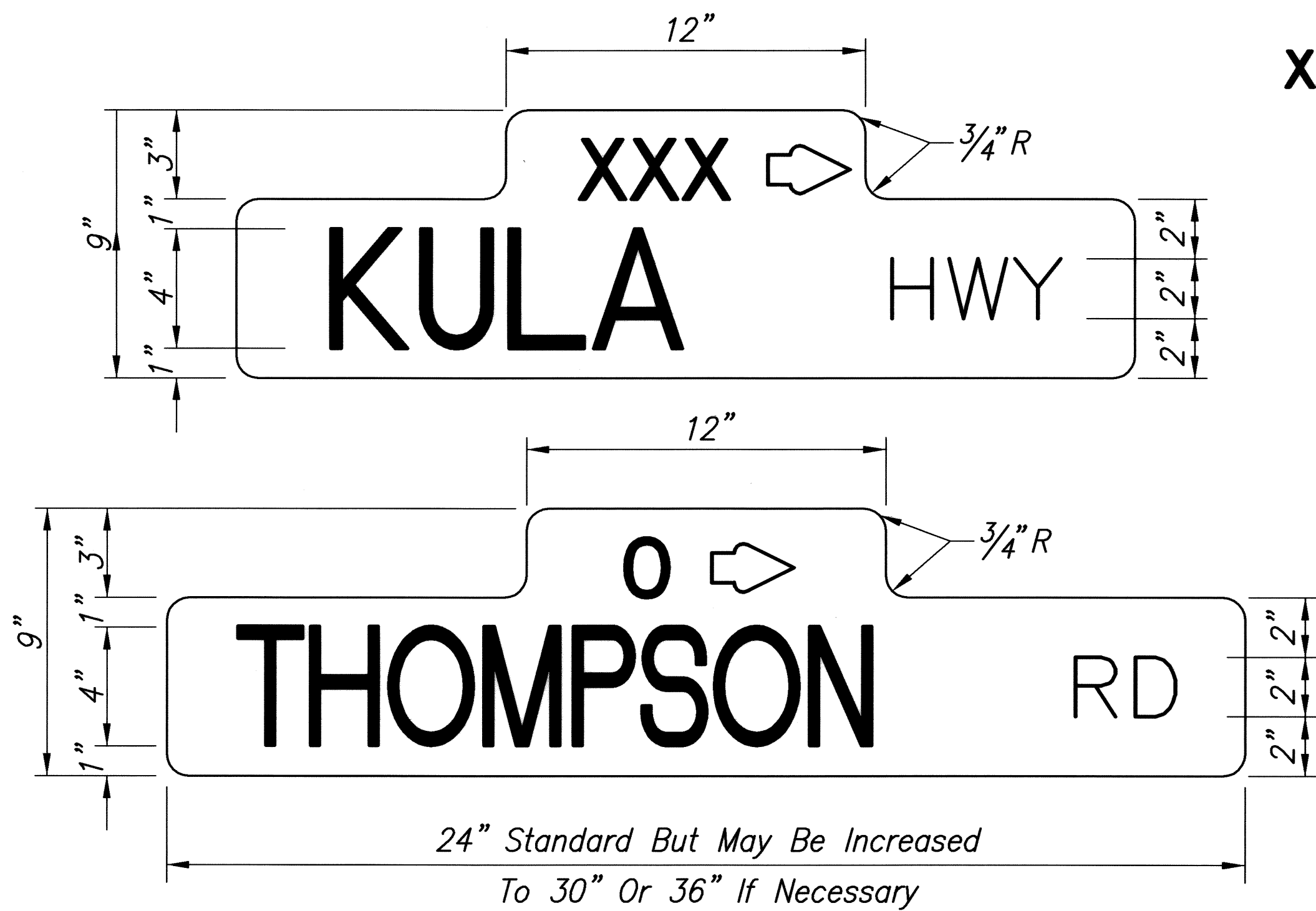


	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SIGN PANEL LAYOUT AND MISCELLANEOUS DETAILS
	KULA HIGHWAY RESURFACING KEKAULIKE AVENUE TO ULUPALAKUA PROJECT NO. 37CDE - 01 - 07M
	Scale: AS NOTED Date: May 2009 SHEET No. 1 OF 4 SHEETS

May 27, 2009 - 10:33am
M:\Projects\M0708.00\signpanel.dwg

DATE	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	32	57



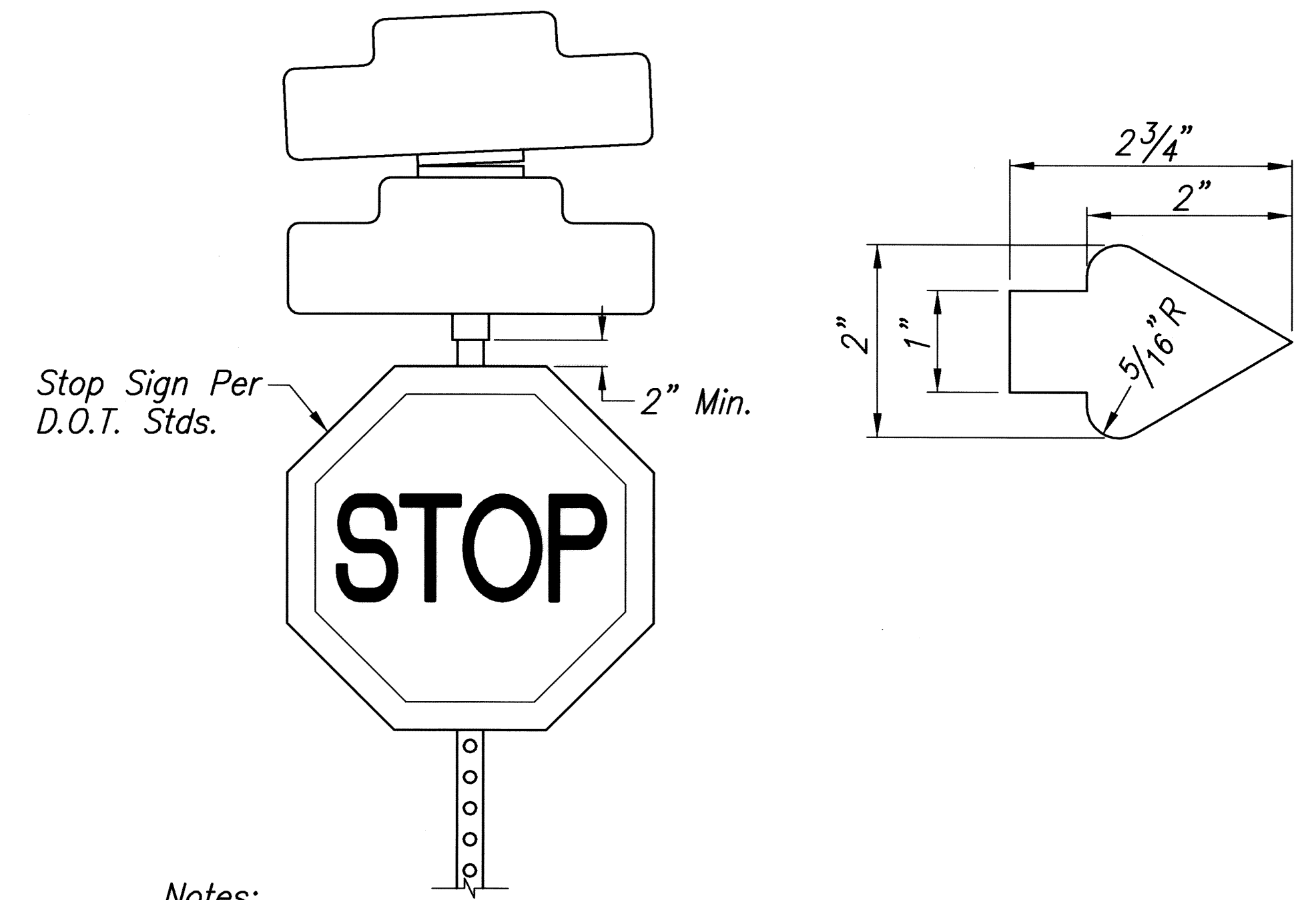
XXX : Create "KULA HWY" Street Name Signs with block numbers listed below and (1) one "KULA HWY" Street Name sign with no block numbers.

- 6600
- 7200
- 7300
- 7540
- 7550
- 7700
- 7800
- 8250
- 8900
- 9200
- 9300

- Notes:
1. Street Name signs shall be high intensity reflective and shall conform to the County of Maui, Department of Public Works Standard Detail T-14.
 2. Refer to County of Maui, Department of Public Works Standard Detail T-1 for installation of Street Name signs on Stop sign.

STANDARD STREET NAME SIGN

Scale: None



- Notes:
1. The Exact Sign Location Will Be Designated By The Engineer.
 2. 2" Letters Shall Be Used For St., Dr., Hwy., Rd., Etc.
 3. Street Numbering To Be Designated By The Department Of Public Works

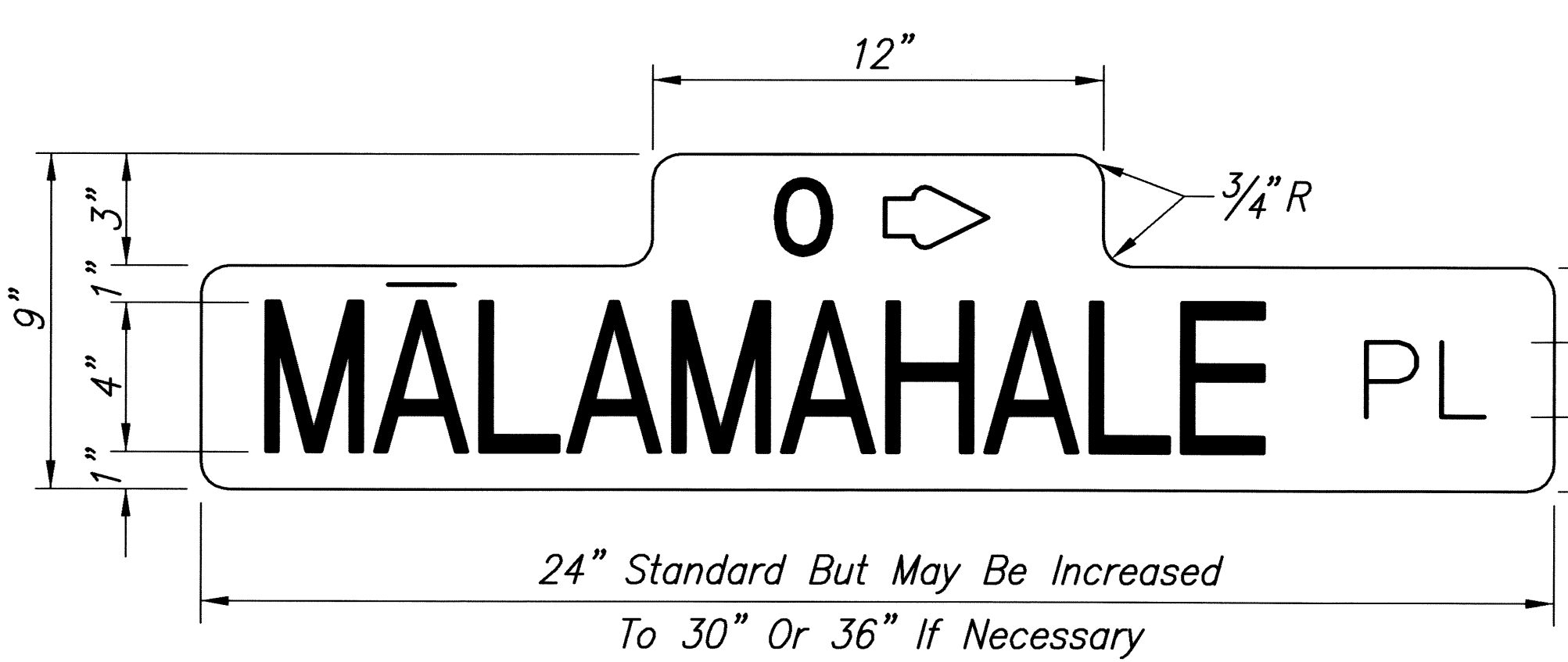
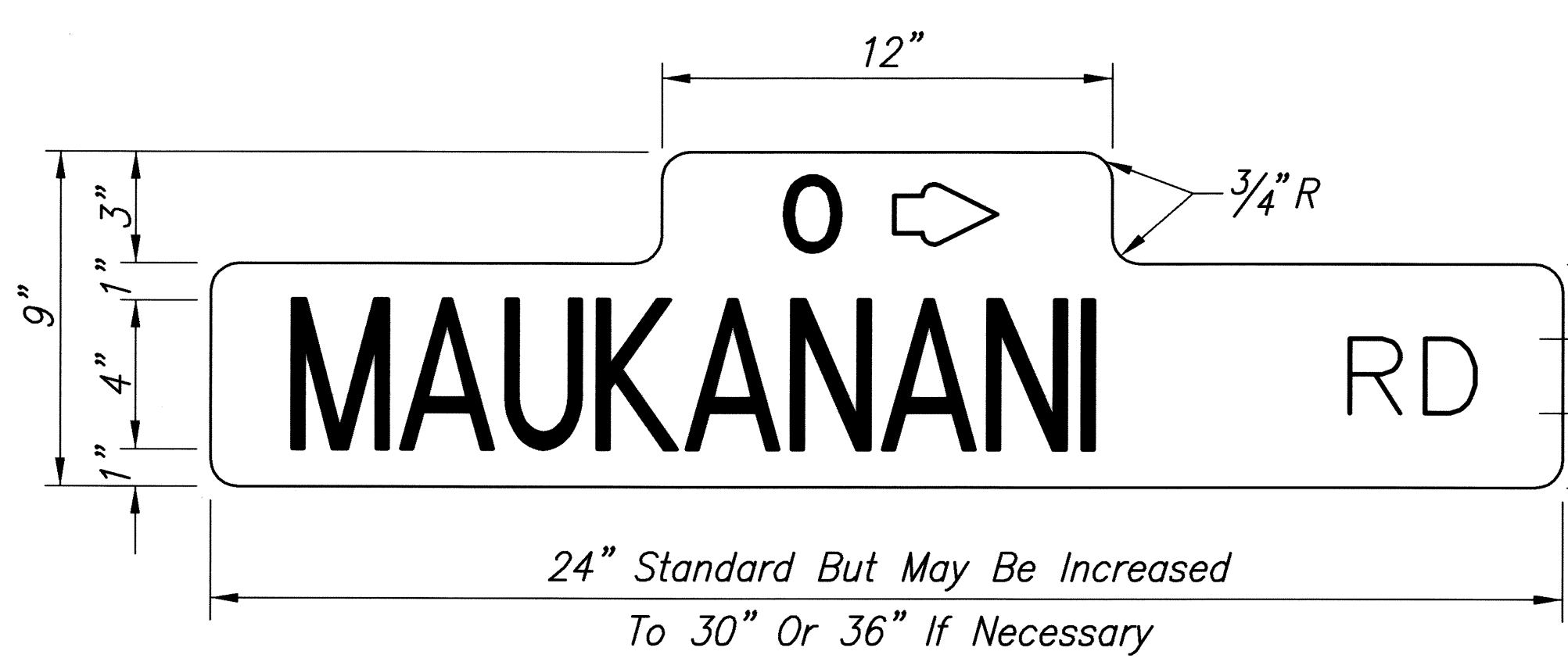
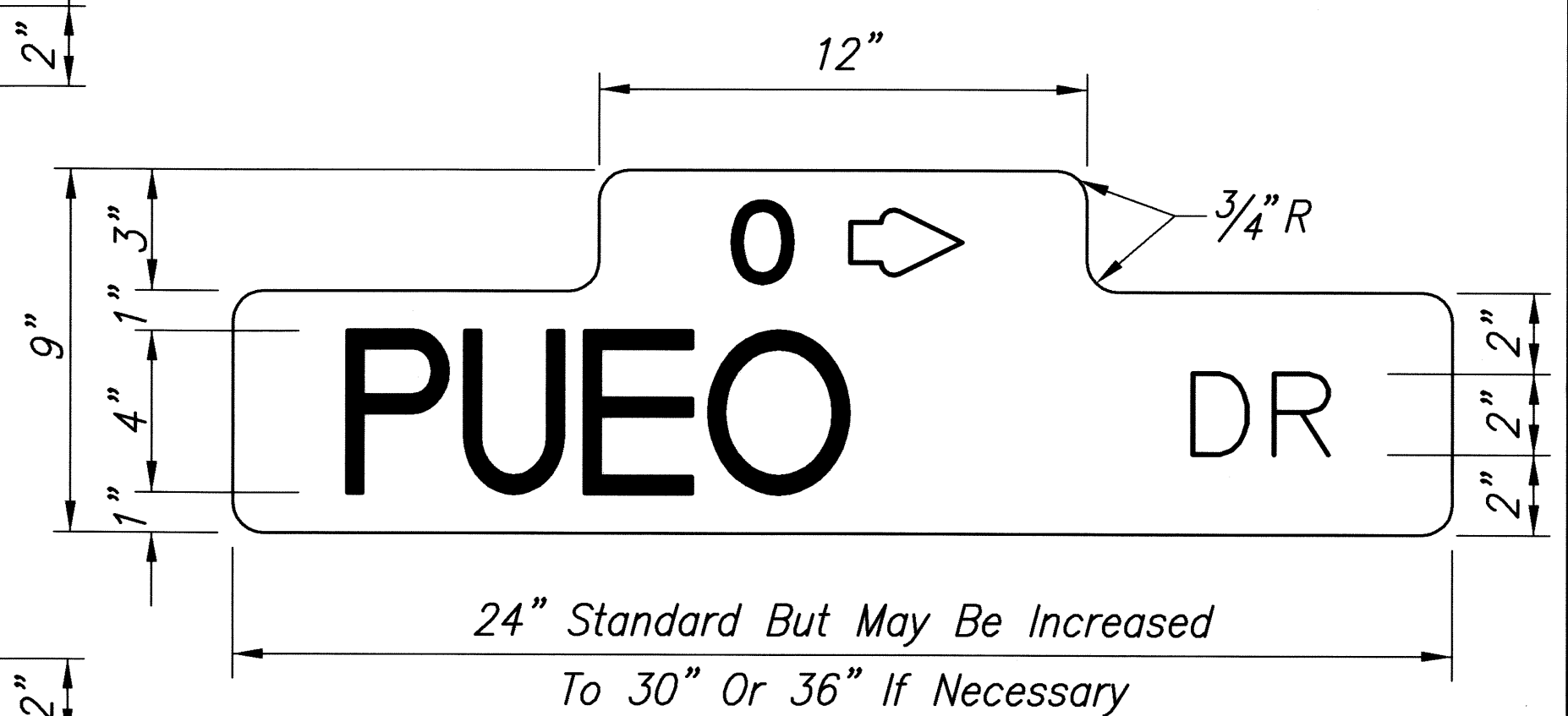
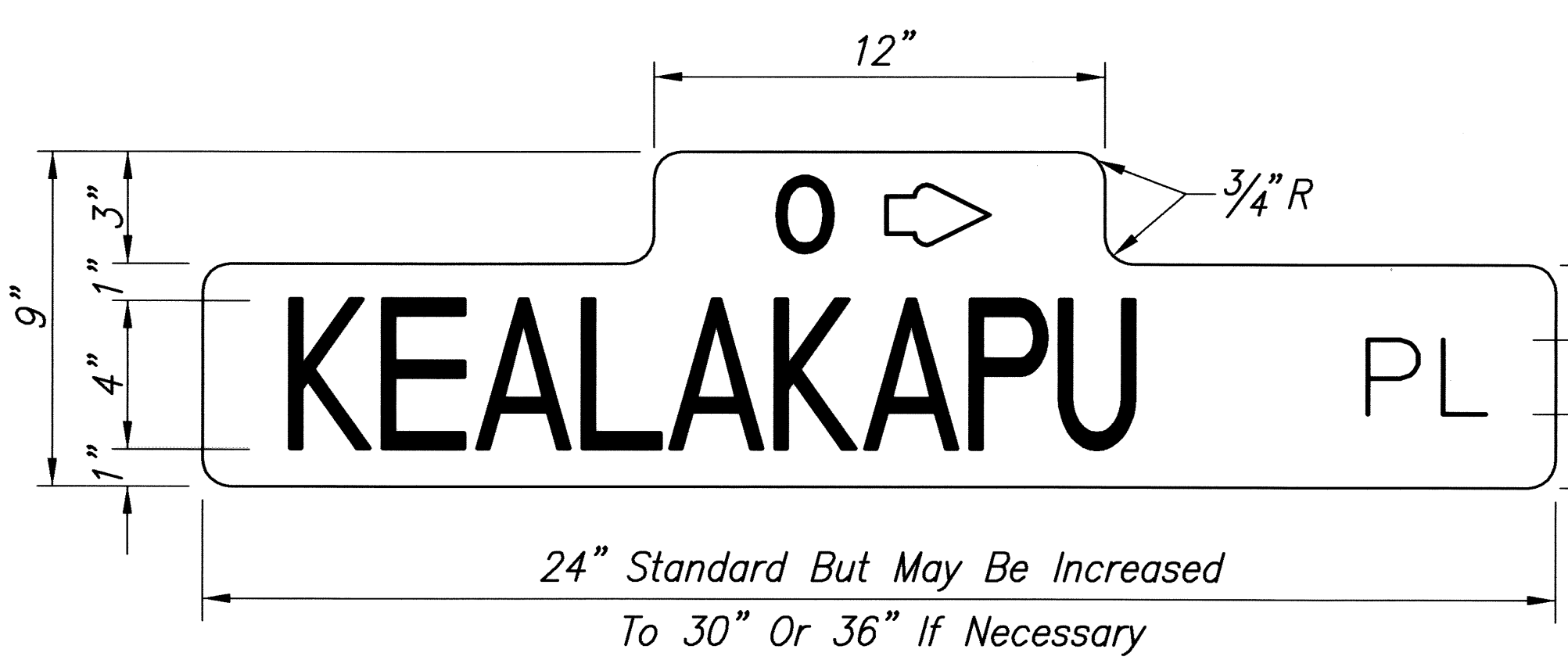
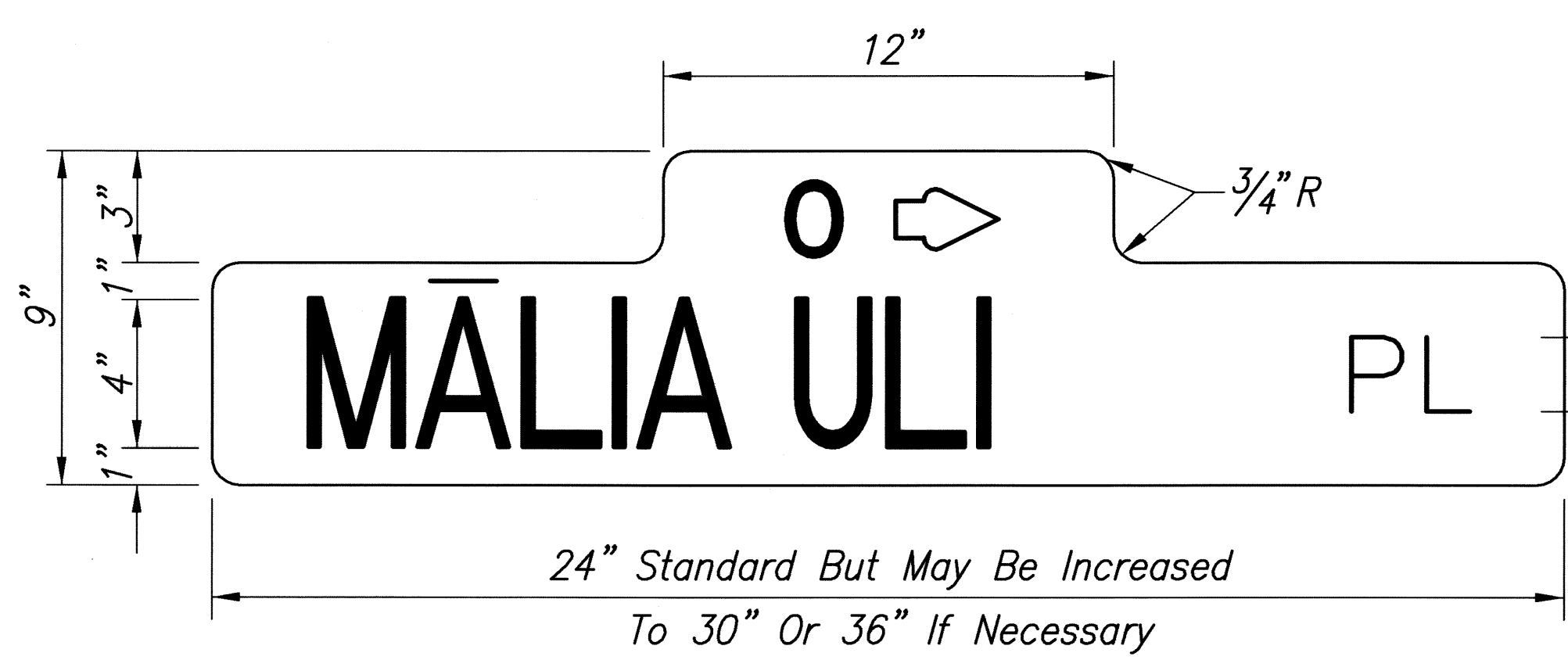
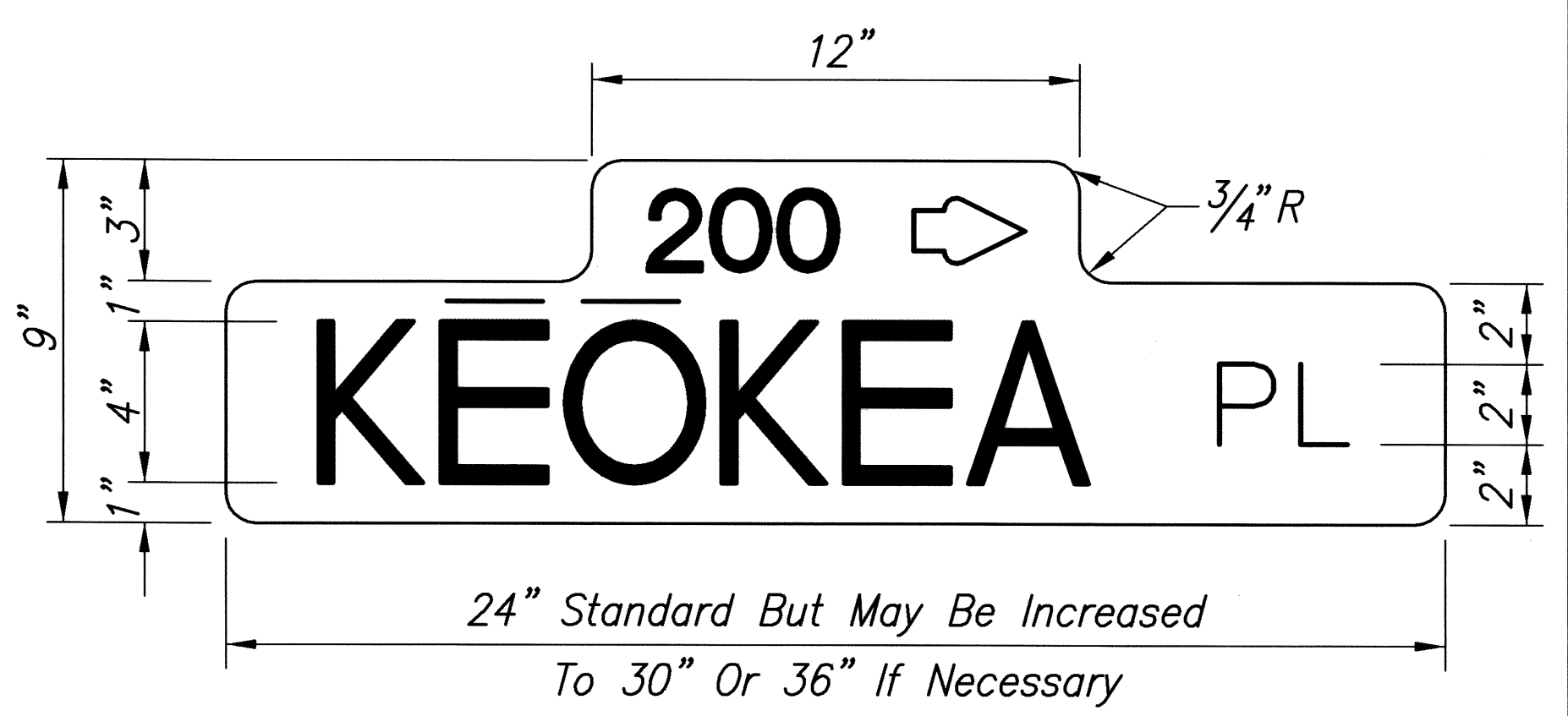
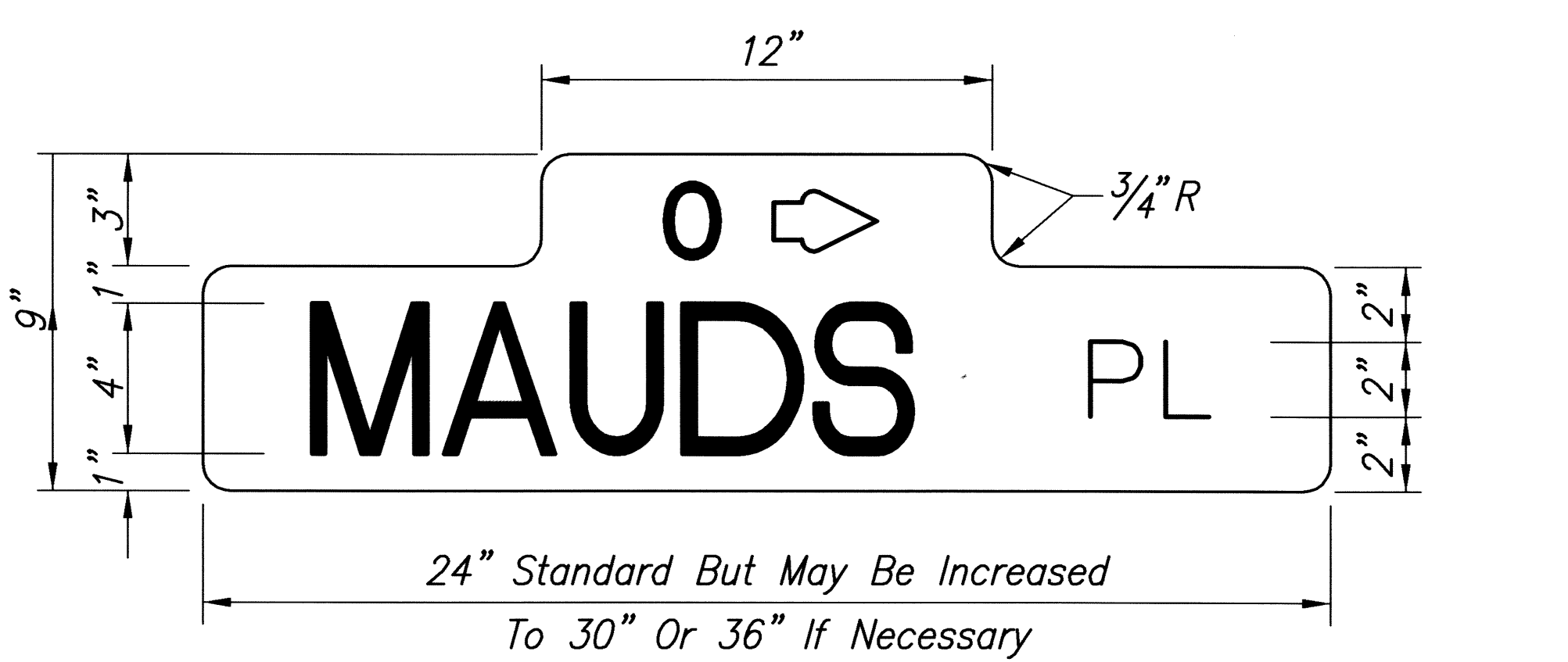
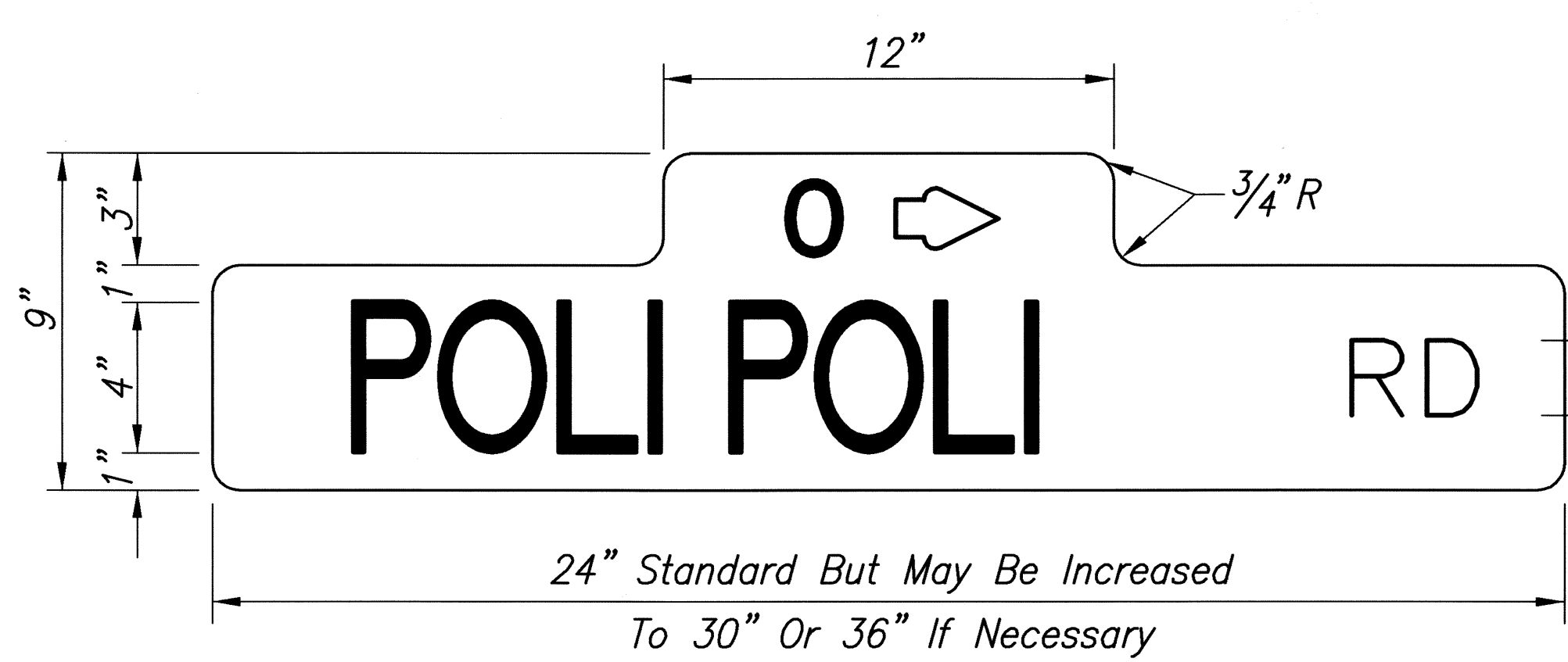
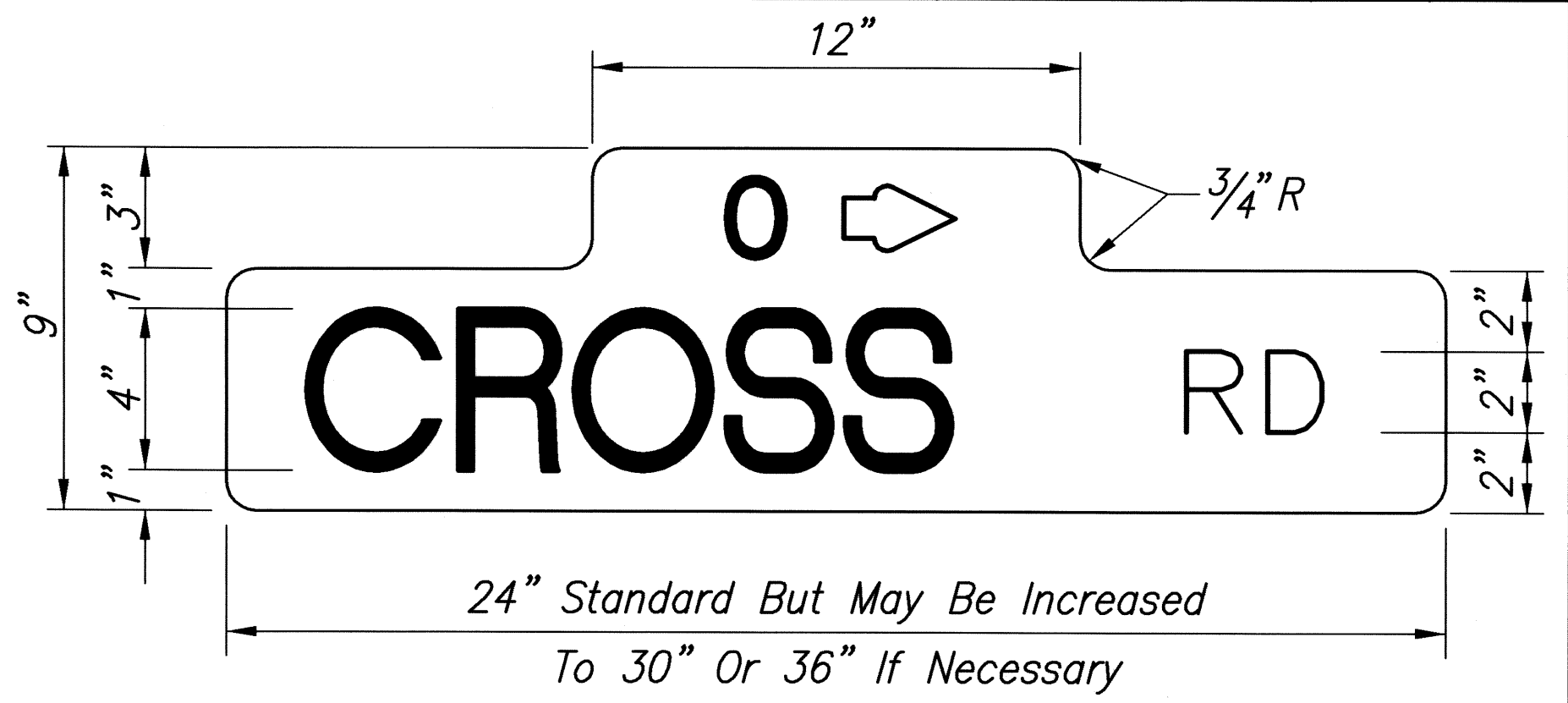
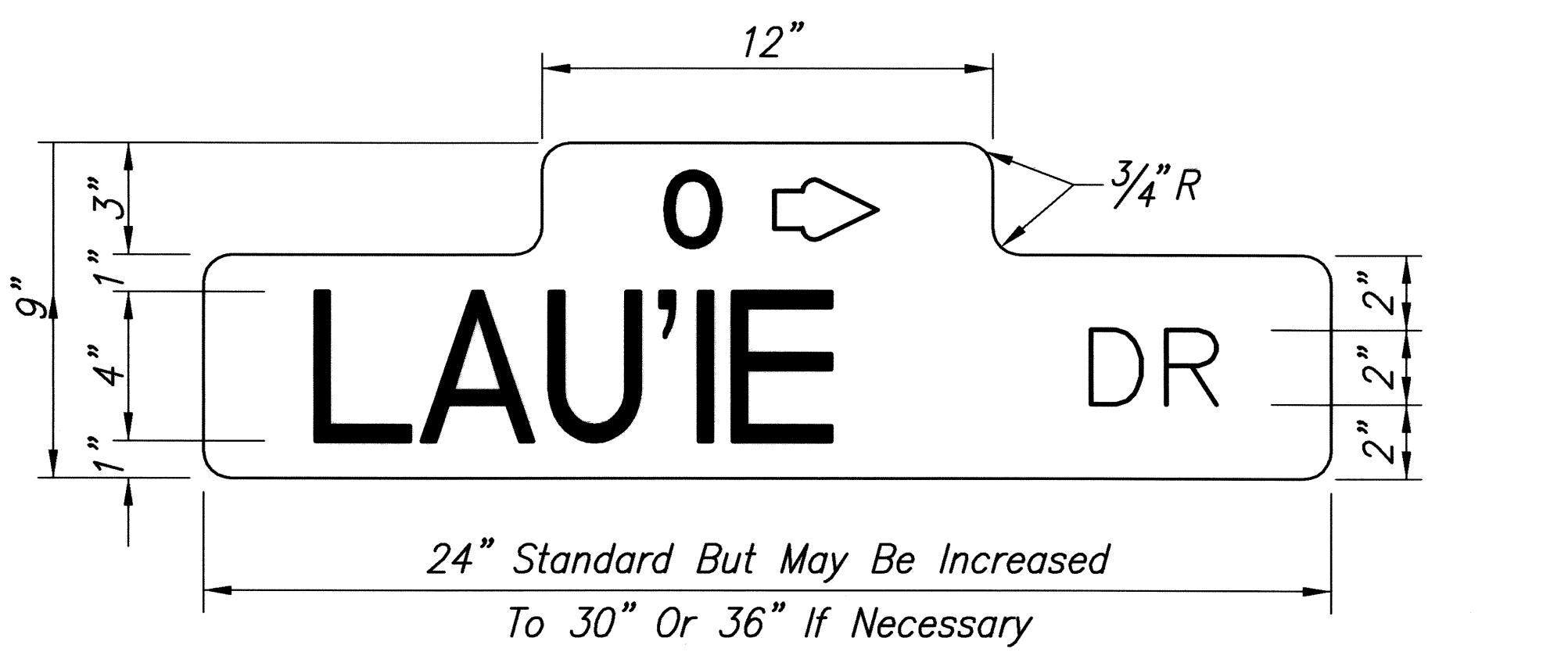
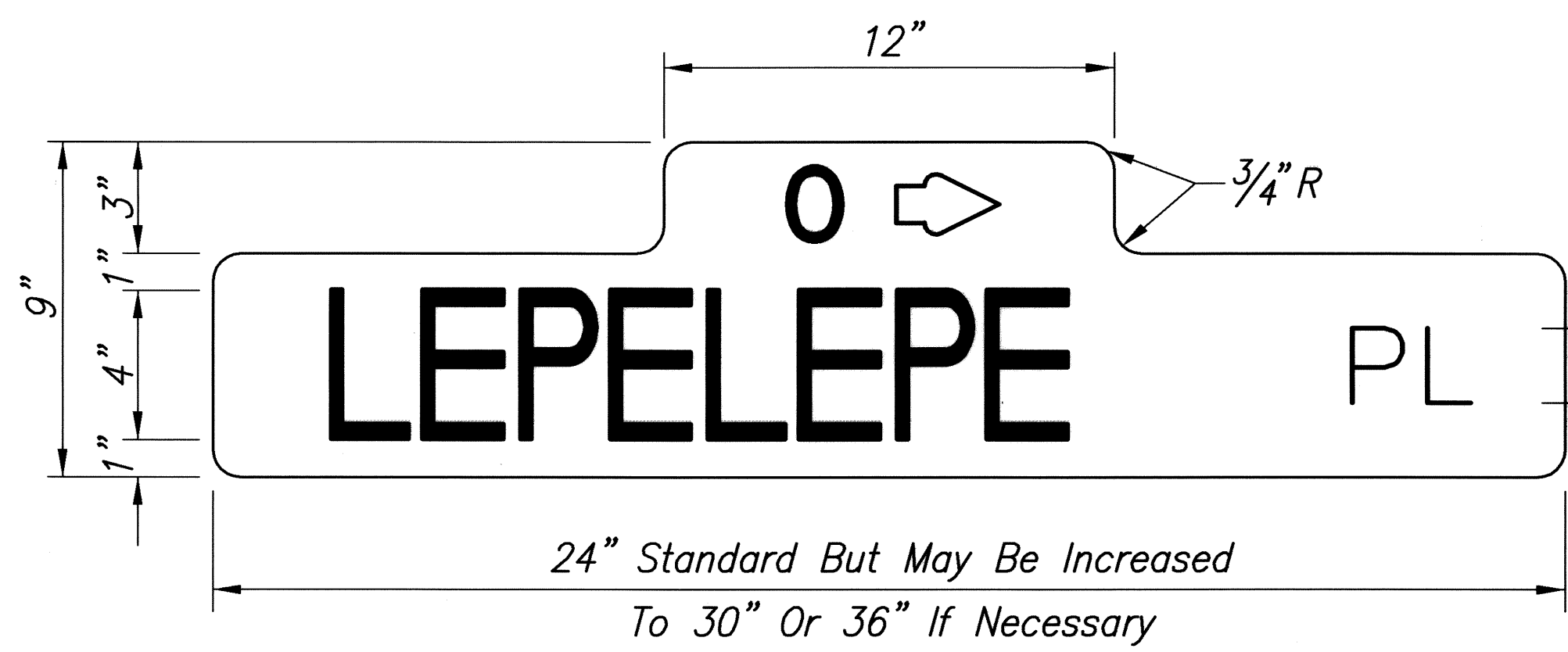
STREET NAME SIGN DETAIL

Scale: None

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

	<p>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</p> <p>SIGN PANEL LAYOUT AND MISC. DETAILS</p> <p>KULA HIGHWAY RESURFACING KEKAULIKE AVENUE TO ULUPALAKUA PROJECT NO. 37CDE - 01 - 07M</p>
	<p>LICENSE EXPIRES 4/30/2010 This work was prepared by me or under my supervision and construction of this project will be under my observation.</p> <p>Scale: AS NOTED Date: May 2009</p>

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	33	57



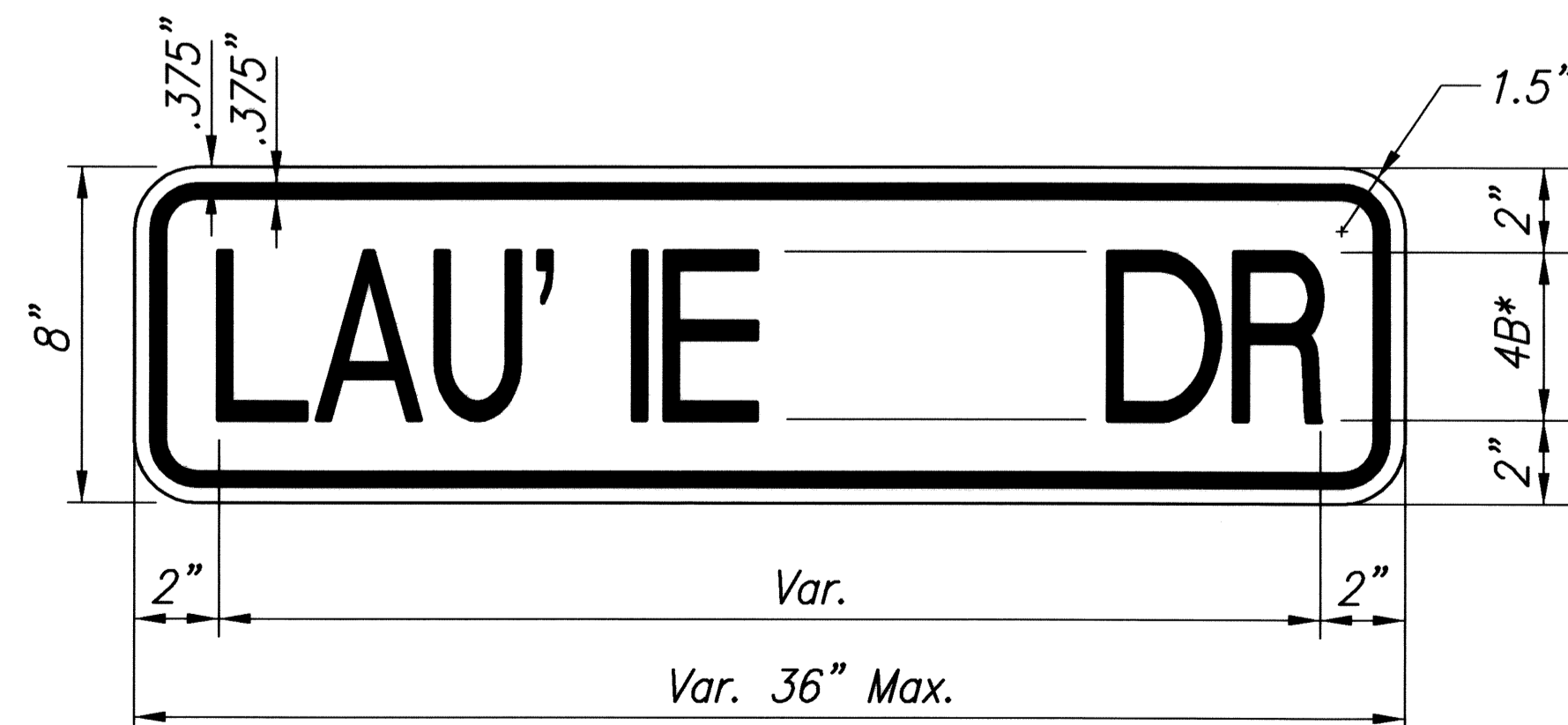
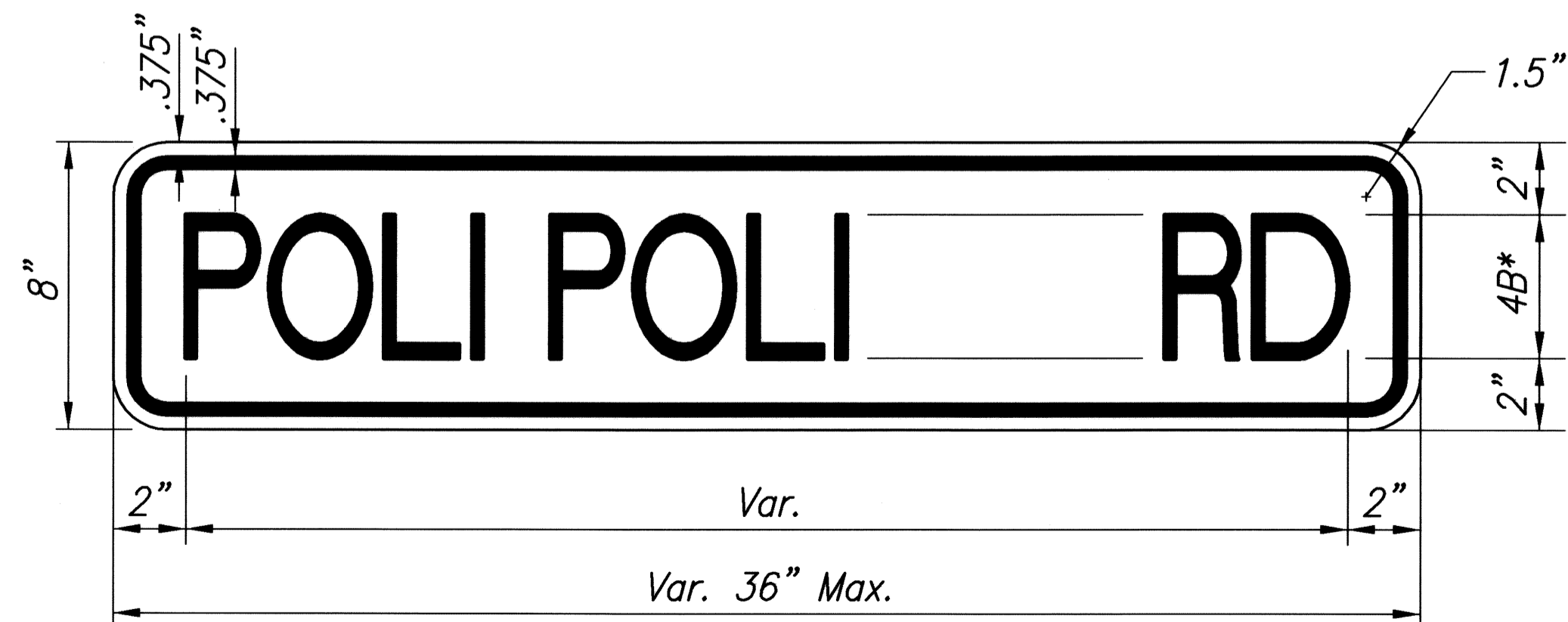
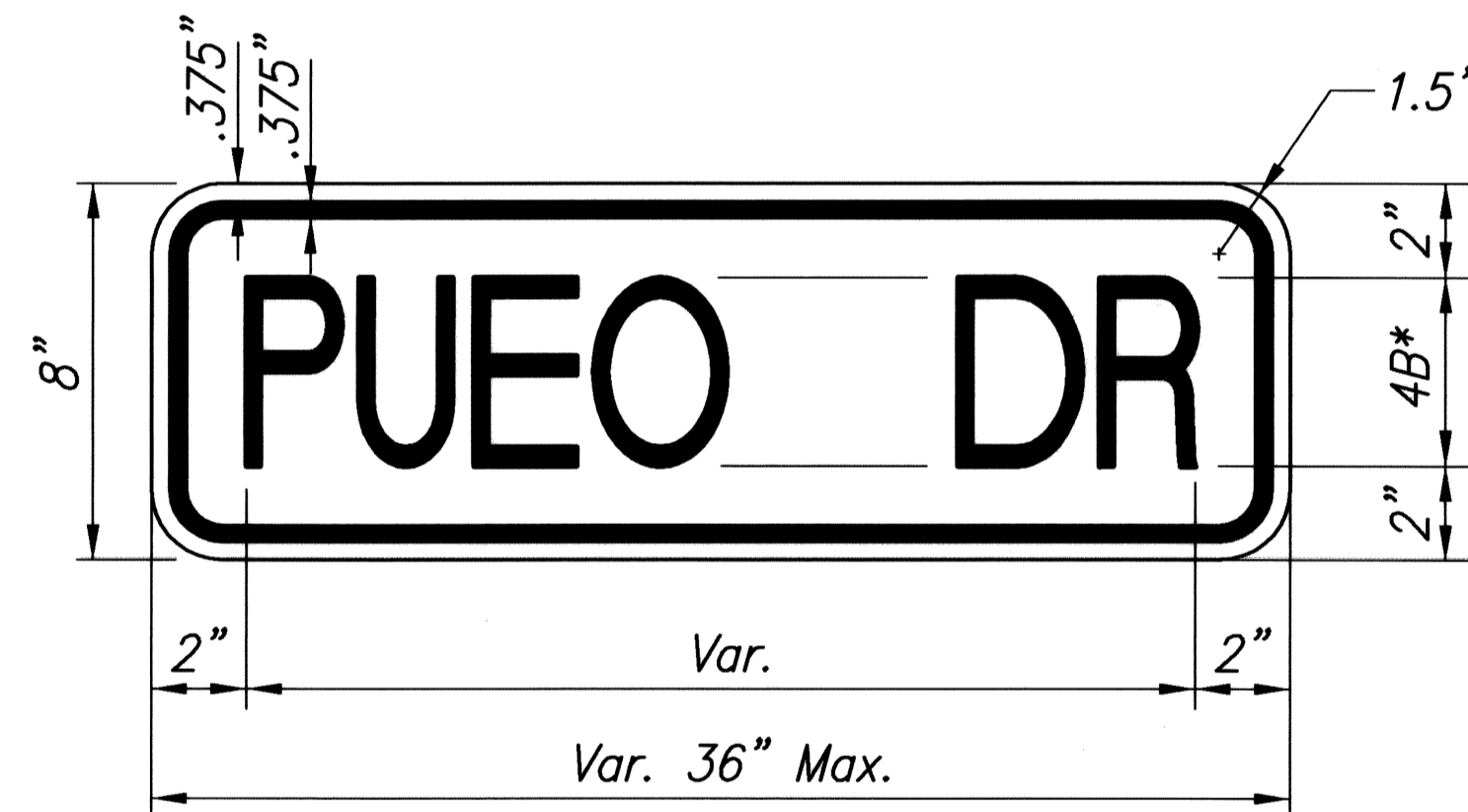
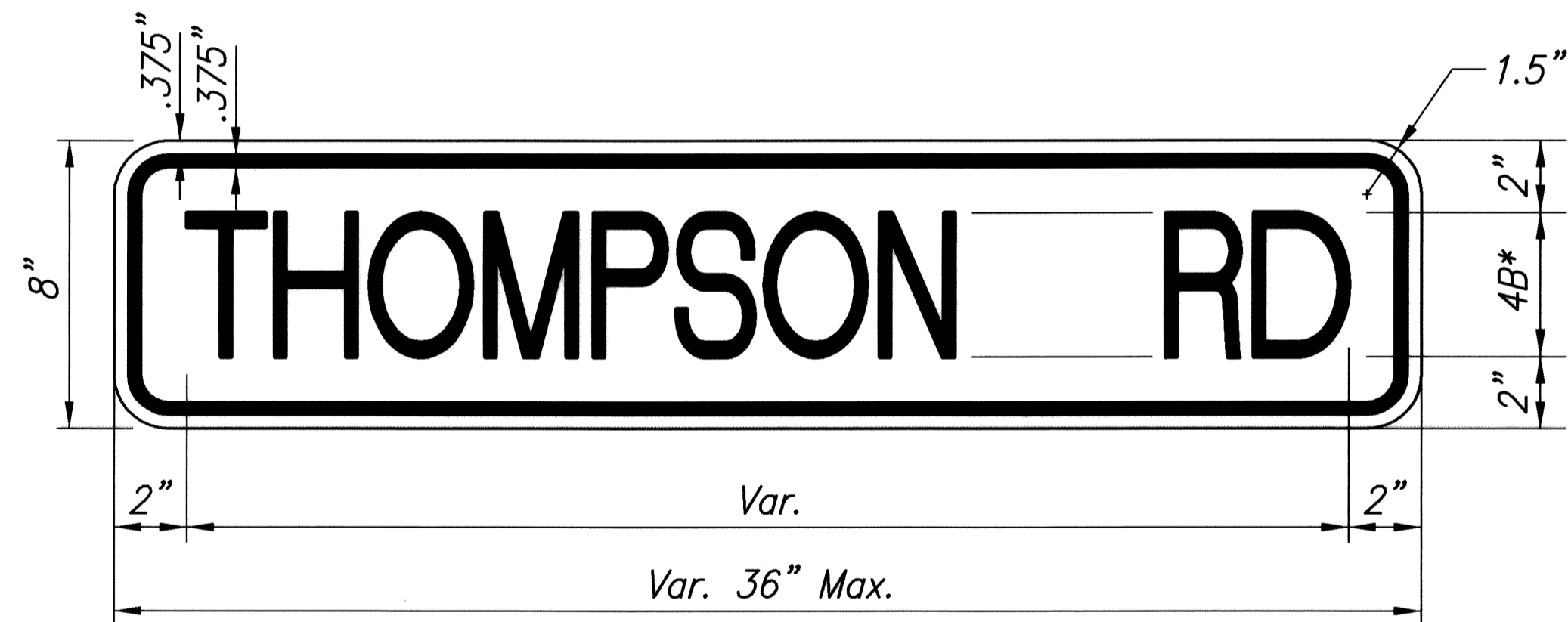
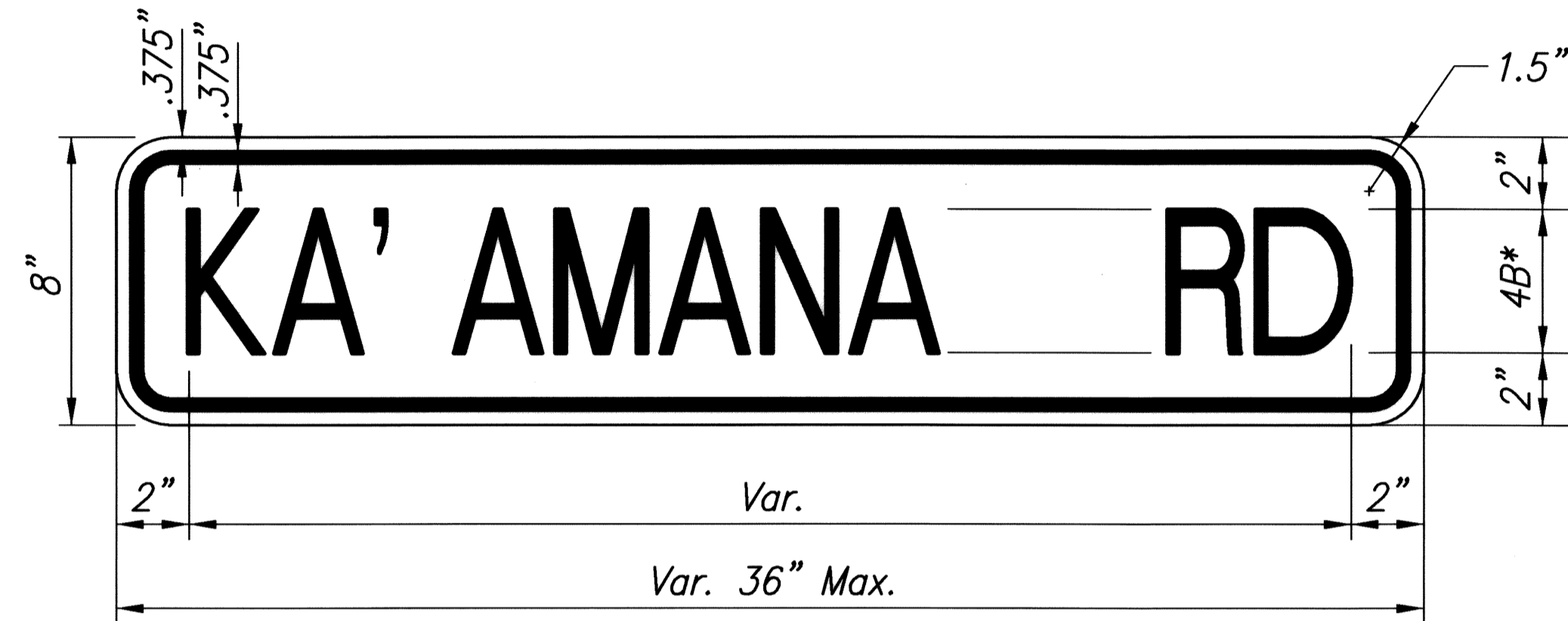
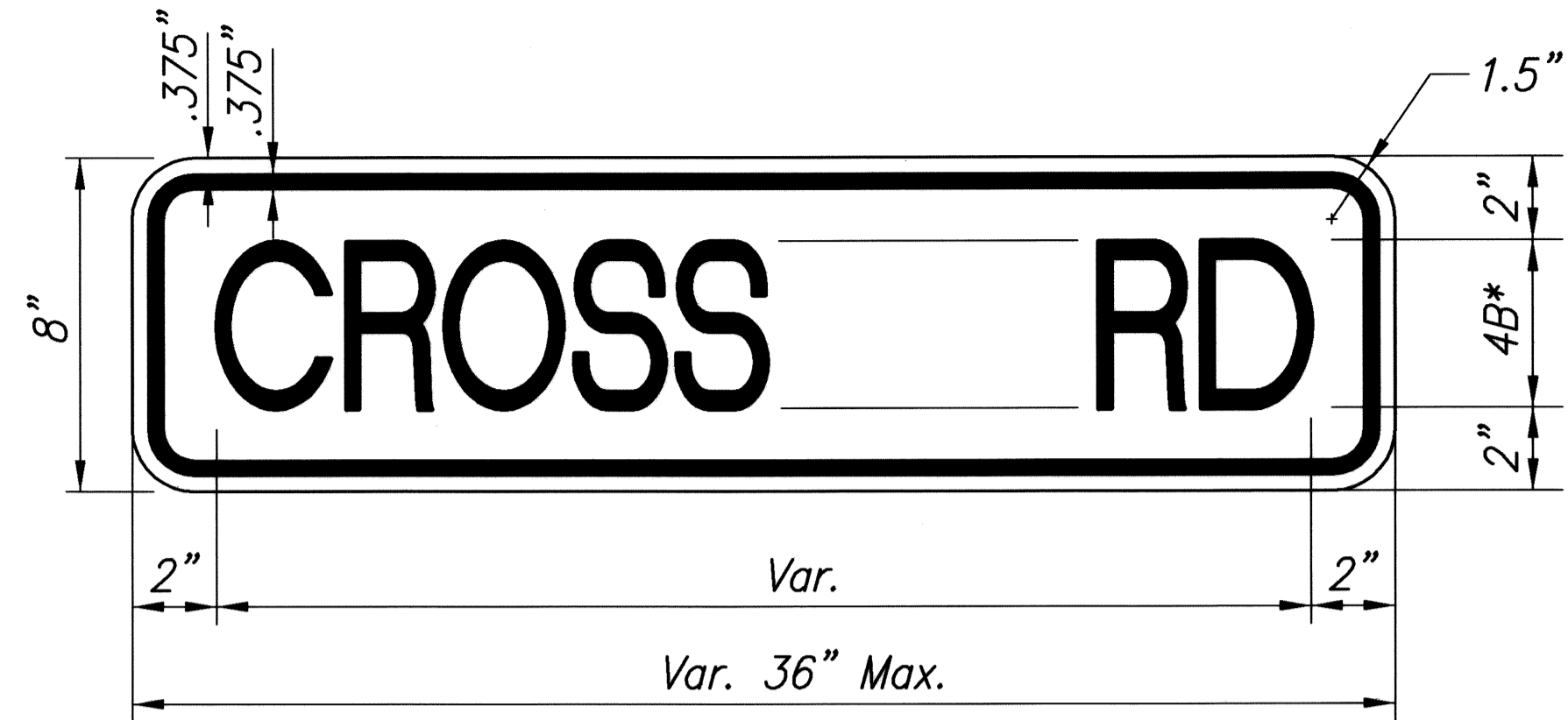
DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

STANDARD STREET NAME SIGN

Scale: None

	<p>STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION</p> <p>SIGN PANEL LAYOUT AND MISC. DETAILS</p>
	<p>KULA HIGHWAY RESURFACING KEKAULIKE AVENUE TO ULUPALAKUA PROJECT NO. 37CDE - 01 - 07M</p>
	<p>Scale: AS NOTED Date: May 2009</p>
	<p>SHEET No. 3 OF 4 SHEETS</p>

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	34	57



Colors:
 Lettering = Black
 Background = Yellow (RetroReflective)

STREET NAME SIGNS

Scale: NONE

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

Michael T. Ishikawa
 LICENSE EXPIRES 4/30/2010
 This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

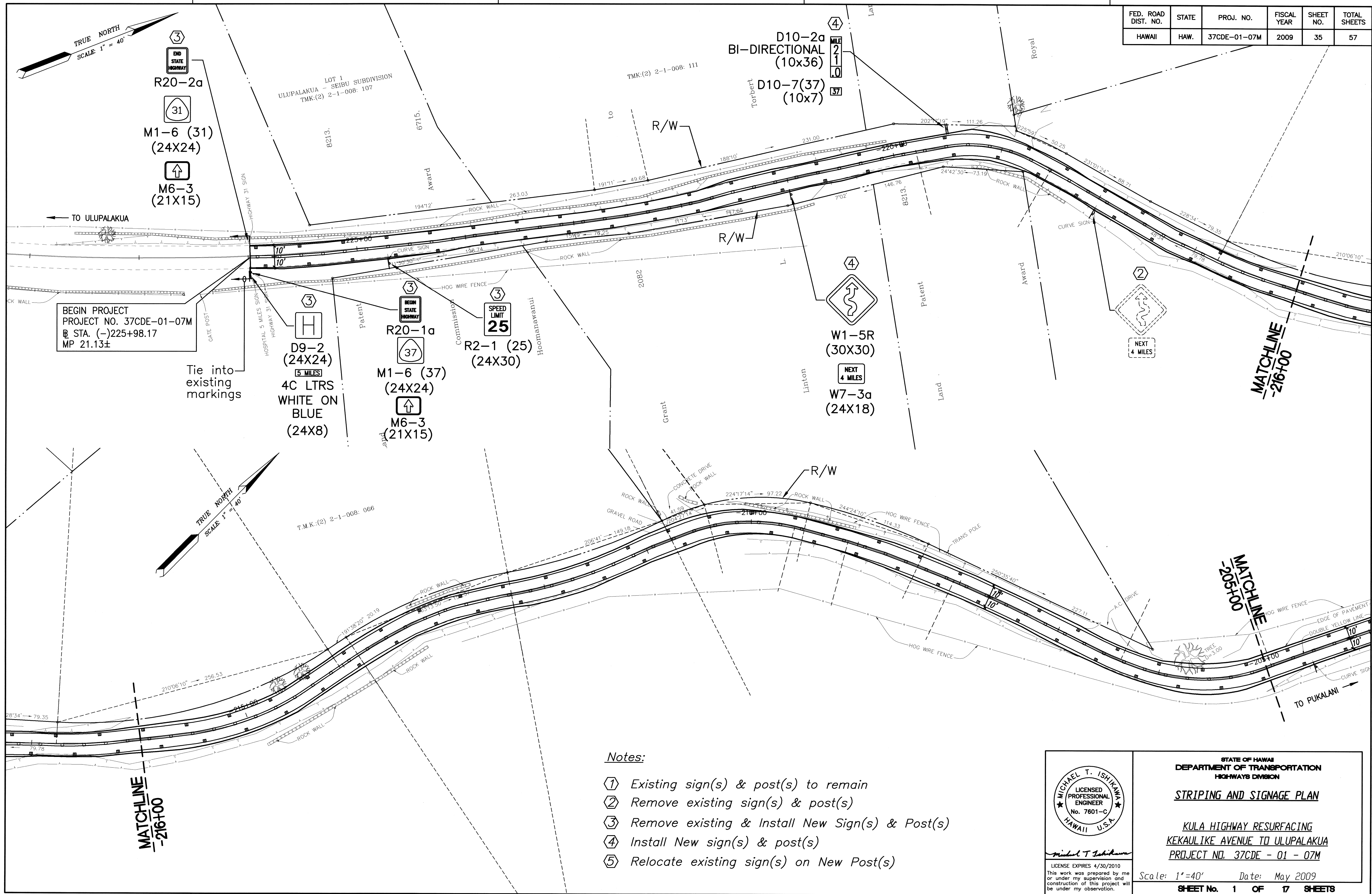
SIGN PANEL LAYOUT AND MISC. DETAILS

KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M

Scale: AS NOTED Date: May 2009

SHEET No. 4 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	35	57



BEGIN PROJECT
PROJECT NO. 37CDE-01-07M
STA. (-)225+98.17
MP 21.13±

MATCHLINE
-216+00

MATCHLINE
-205+00

Notes:

- ① Existing sign(s) & post(s) to remain
- ② Remove existing sign(s) & post(s)
- ③ Remove existing & Install New Sign(s) & Post(s)
- ④ Install New sign(s) & post(s)
- ⑤ Relocate existing sign(s) on New Post(s)

LICENSE EXPIRES 4/30/2010
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

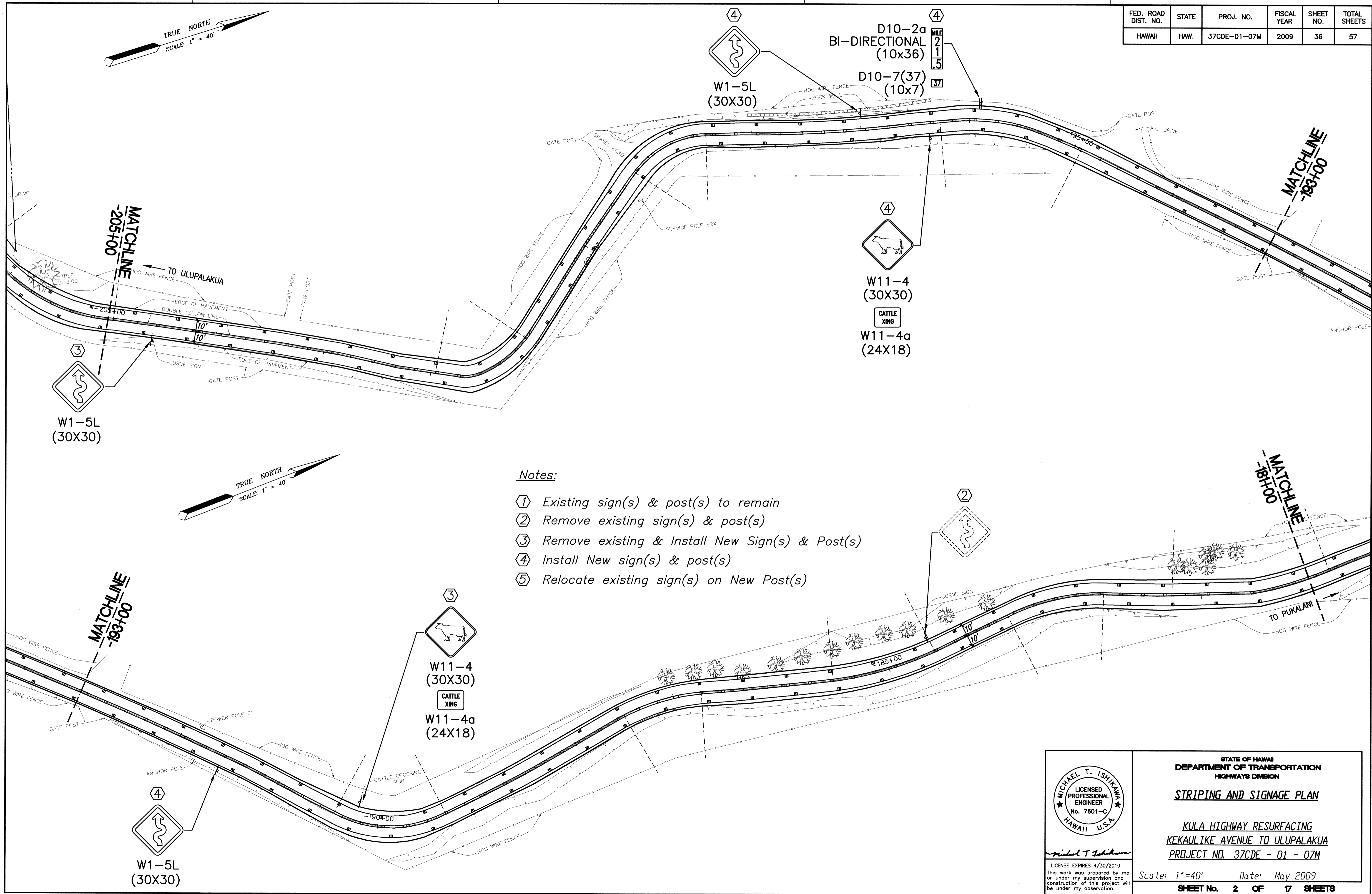
Scale: 1"=40' Date: May 2009

SHEET No. 1 OF 17 SHEETS

ORIGINAL PLAN	DATE

NO. _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	36	57



- Notes:**
- ① Existing sign(s) & post(s) to remain
 - ② Remove existing sign(s) & post(s)
 - ③ Remove existing & Install New Sign(s) & Post(s)
 - ④ Install New sign(s) & post(s)
 - ⑤ Relocate existing sign(s) on New Post(s)

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7601-C
HAWAII, U.S.A.

Michael T. Ishikawa

LICENSE EXPIRES 4/30/2010
This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

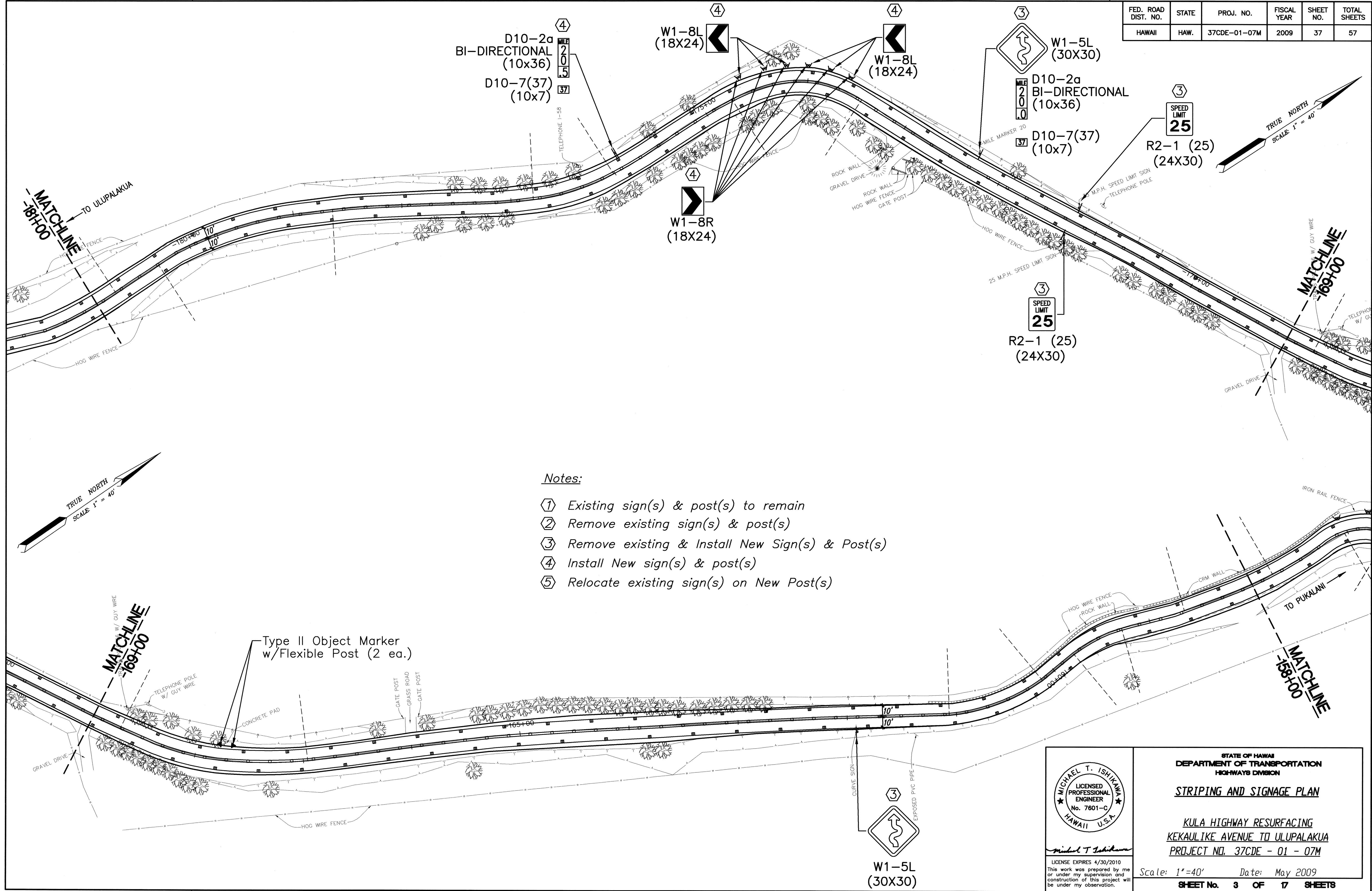
KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 2 OF 17 SHEETS

May 27, 2009 - 2:21 pm
 M:\Projects\MO706.00\SignagePlan.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	37	57



- Notes:**
- ① Existing sign(s) & post(s) to remain
 - ② Remove existing sign(s) & post(s)
 - ③ Remove existing & Install New Sign(s) & Post(s)
 - ④ Install New sign(s) & post(s)
 - ⑤ Relocate existing sign(s) on New Post(s)

Type II Object Marker w/Flexible Post (2 ea.)

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

MICHAEL T. ISHIKAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 7601-C
 HAWAII U.S.A.

Michael T. Ishikawa
 LICENSE EXPIRES 4/30/2010
 This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M

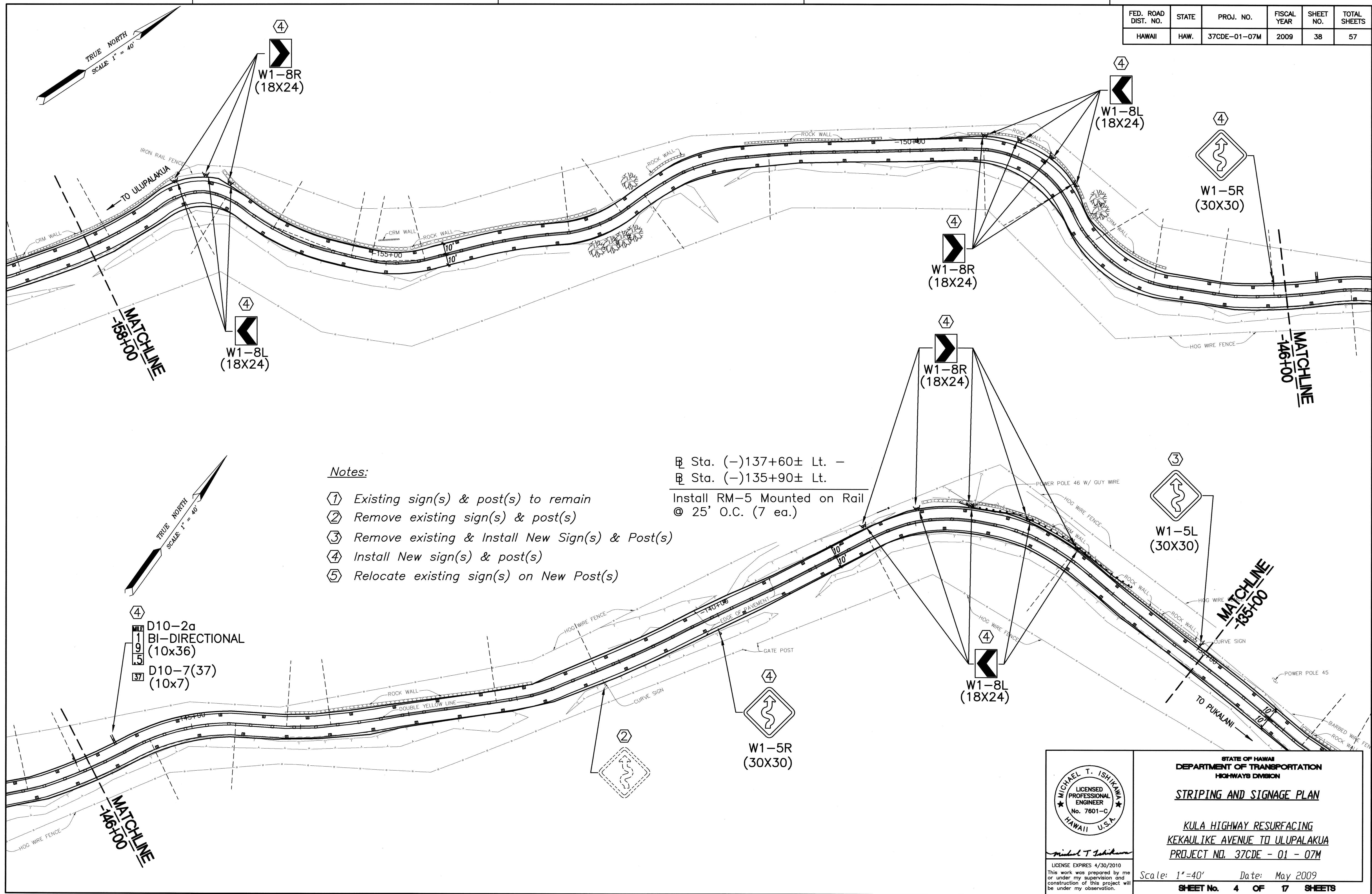
Scale: 1"=40' Date: May 2009

SHEET No. 3 OF 17 SHEETS

W1-5L
(30X30)

May 27, 2009 - 2:26pm
 M:\Projects\MO708\001\SignagePlan.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	38	57



Notes:

- ① Existing sign(s) & post(s) to remain
- ② Remove existing sign(s) & post(s)
- ③ Remove existing & Install New Sign(s) & Post(s)
- ④ Install New sign(s) & post(s)
- ⑤ Relocate existing sign(s) on New Post(s)

□ Sta. (-)137+60± Lt. -
 □ Sta. (-)135+90± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (7 ea.)

- ④ D10-2a
BI-DIRECTIONAL
(10x36)
- ⑤ D10-7(37)
(10x7)

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

MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7601-C
HAWAII U.S.A.

Michael T. Ishikawa

LICENSE EXPIRES 4/30/2010

This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

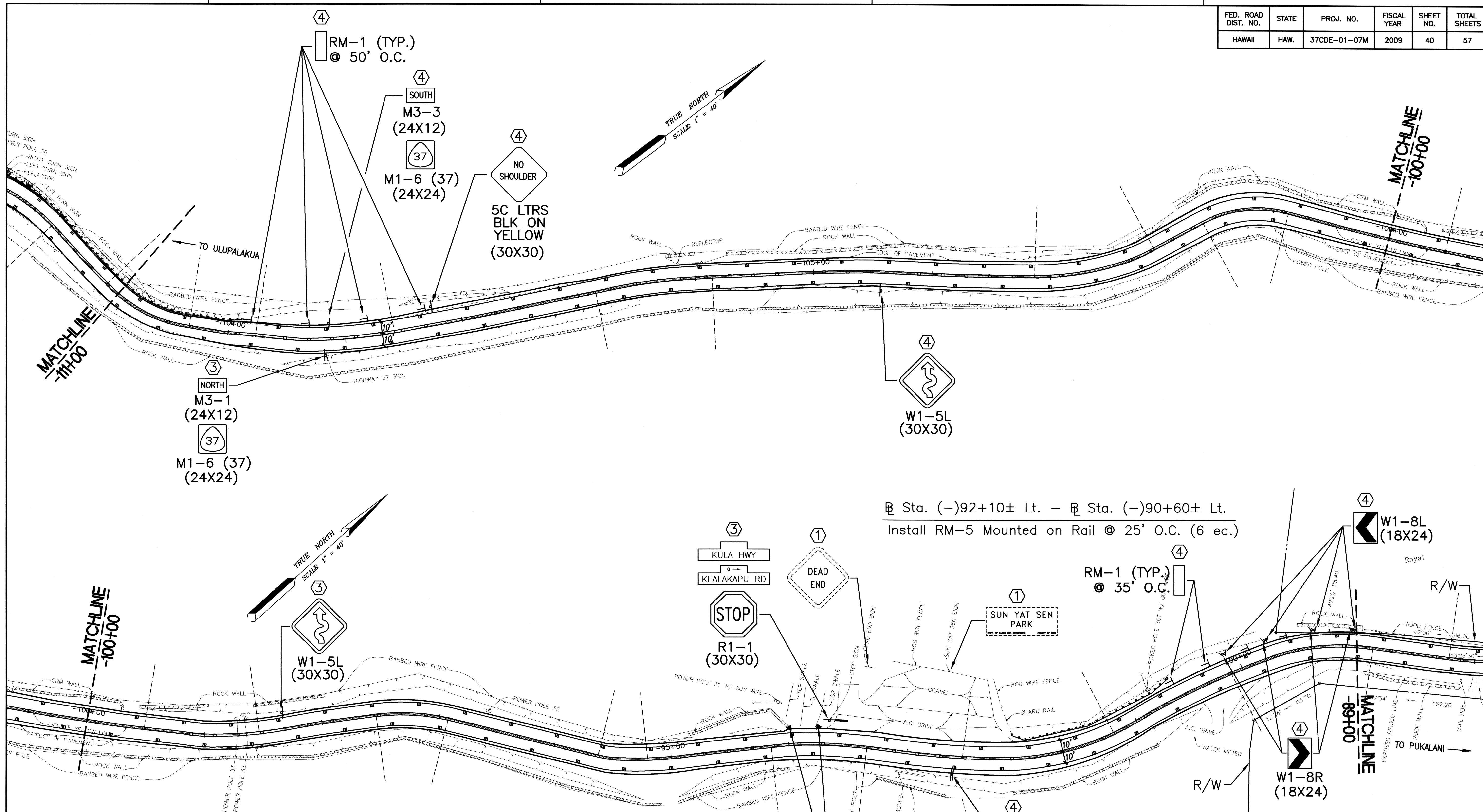
KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 4 OF 17 SHEETS

May 27, 2009 - 2:30pm
 M:\Projects\MO708\001\SignagePlan.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	40	57



Sta. (-)92+10± Lt. - Sta. (-)90+60± Lt.
 Install RM-5 Mounted on Rail @ 25' O.C. (6 ea.)

- Notes:**
- ① Existing sign(s) & post(s) to remain
 - ② Remove existing sign(s) & post(s)
 - ③ Remove existing & Install New Sign(s) & Post(s)
 - ④ Install New sign(s) & post(s)
 - ⑤ Relocate existing sign(s) on New Post(s)

- ④ D10-2a BI-DIRECTIONAL (10x36)
- ① ⑧ ⑤ D10-7(37) (10x7)

Type II Object Marker w/Flexible Post (2 ea.)

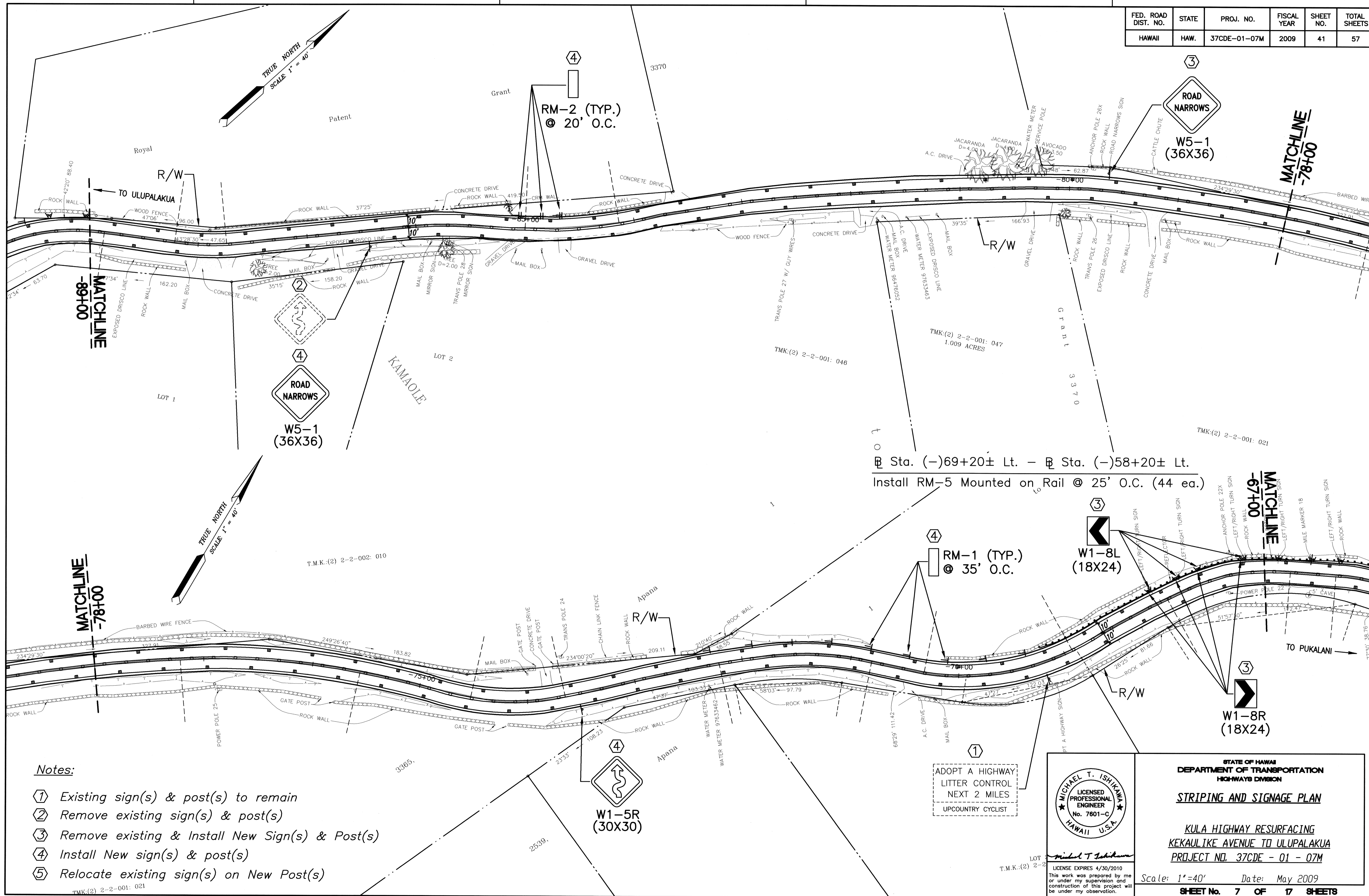
MICHAEL T. ISHIKAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 7601-C
 HAWAII U.S.A.
 License Expires 4/30/2010
 This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
STRIPING AND SIGNAGE PLAN
 KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M
 Scale: 1"=40' Date: May 2009
 SHEET No. 6 OF 17 SHEETS

DATE	DATE
ORIGINAL PLAN	TRACES BY
NOTE BOOK	DESIGNED BY
No.	CHECKED BY

May 27, 2009 - 2:40pm
 M:\Projects\MO708\001\SignagePlan.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	41	57

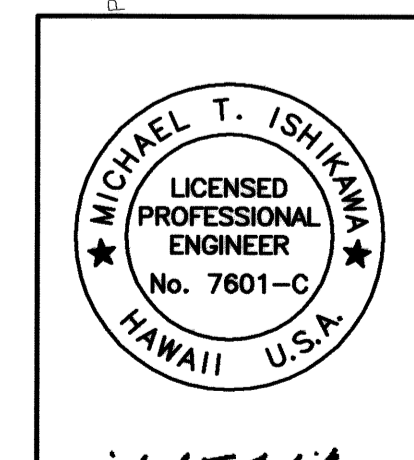


Sta. (-)69+20± Lt. - Sta. (-)58+20± Lt.
 Install RM-5 Mounted on Rail @ 25' O.C. (44 ea.)

Notes:

- ① Existing sign(s) & post(s) to remain
- ② Remove existing sign(s) & post(s)
- ③ Remove existing & Install New Sign(s) & Post(s)
- ④ Install New sign(s) & post(s)
- ⑤ Relocate existing sign(s) on New Post(s)

DATE	BY

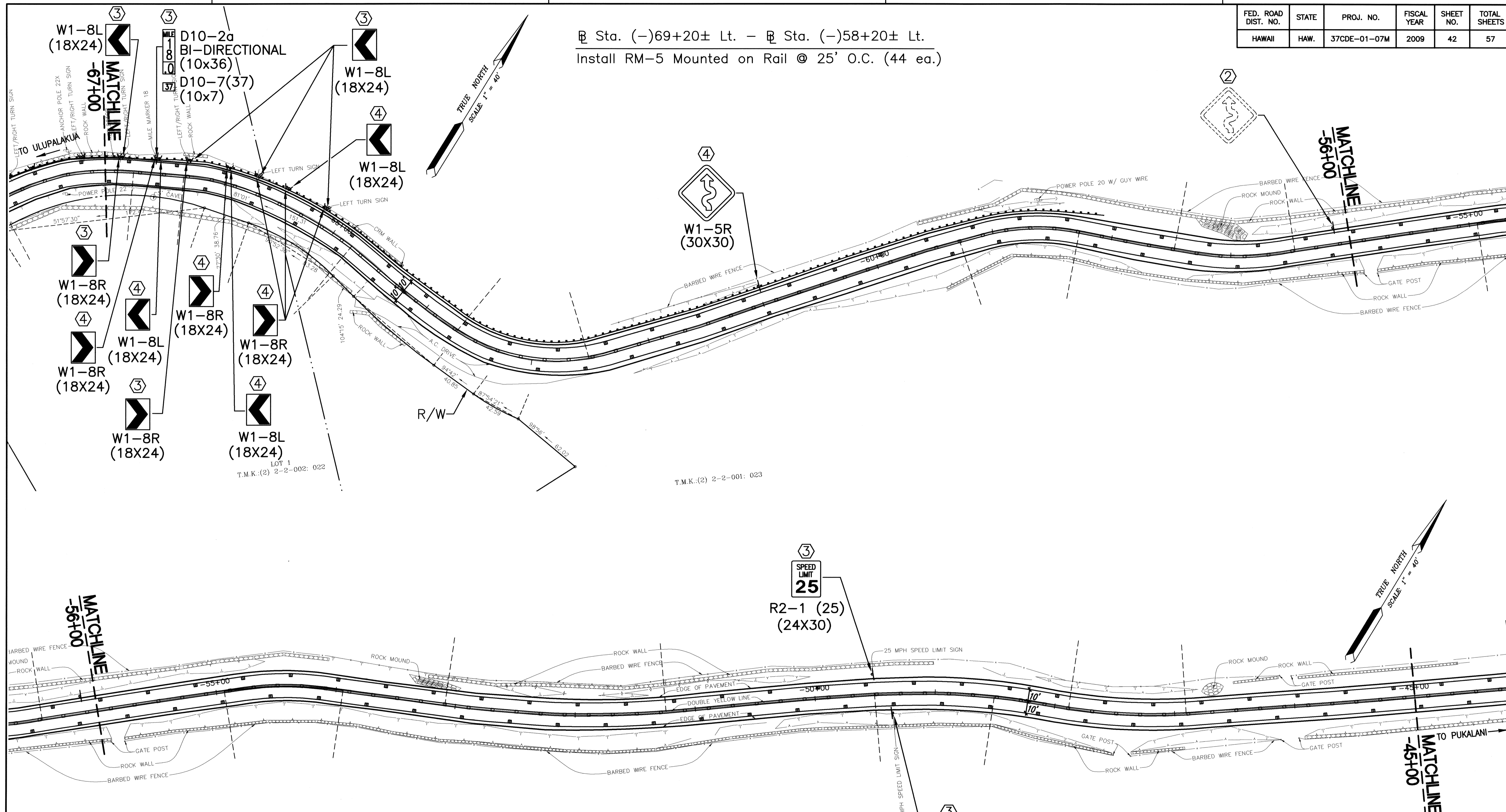


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
STRIPING AND SIGNAGE PLAN
 KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M
 Scale: 1"=40' Date: May 2009
 SHEET No. 7 OF 17 SHEETS

May 27, 2009 - 2:43pm
 M:\Projects\MO708.00\SignagePlan.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	42	57

Sta. (-)69+20± Lt. - Sta. (-)58+20± Lt.
 Install RM-5 Mounted on Rail @ 25' O.C. (44 ea.)



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

- Notes:**
- ① Existing sign(s) & post(s) to remain
 - ② Remove existing sign(s) & post(s)
 - ③ Remove existing & Install New Sign(s) & Post(s)
 - ④ Install New sign(s) & post(s)
 - ⑤ Relocate existing sign(s) on New Post(s)

MICHAEL T. ISHIKAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 7801-C
 HAWAII, U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

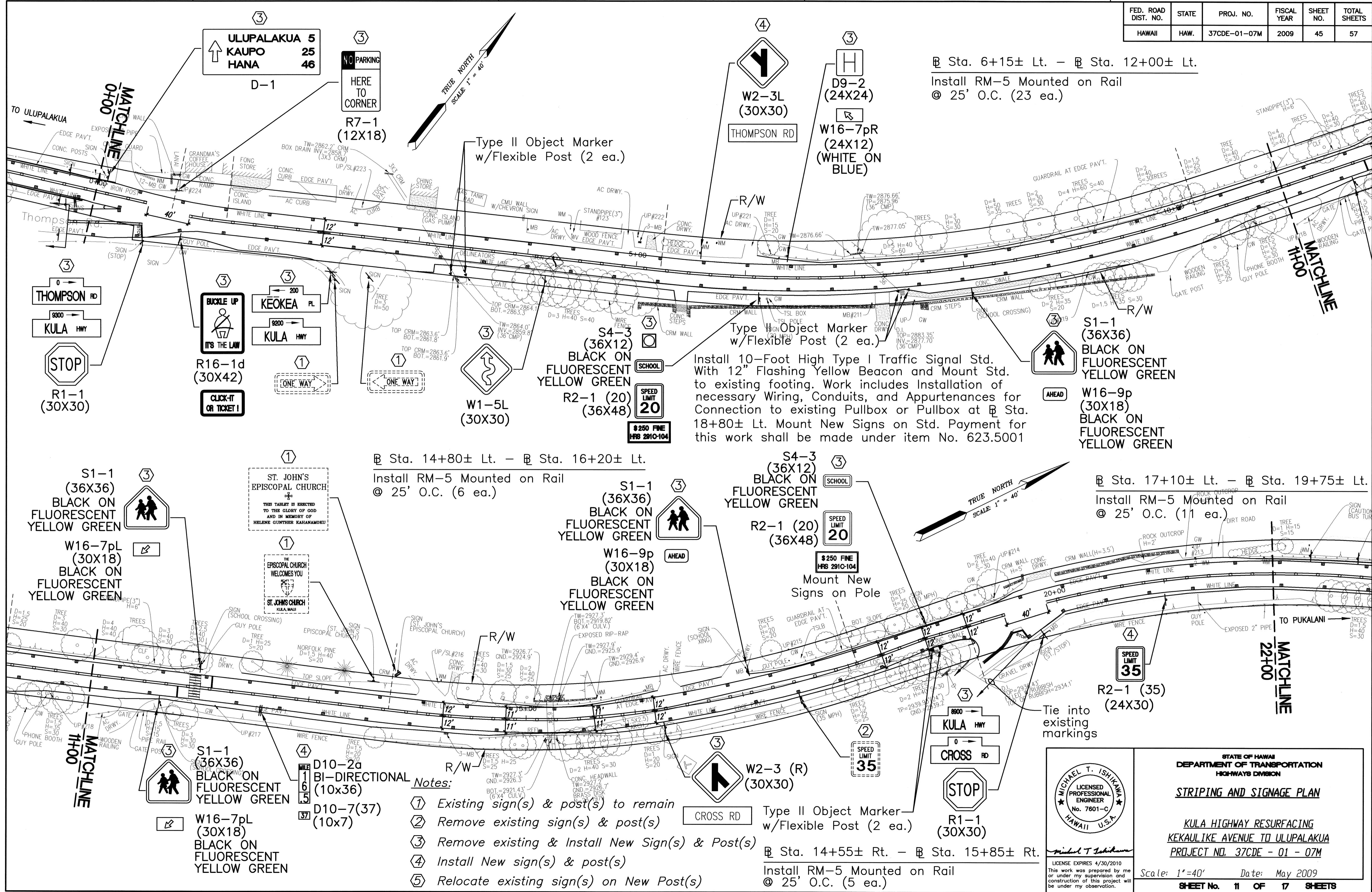
KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 8 OF 17 SHEETS

May 27, 2009 - 2:46pm
 M:\Projects\MO708\00\SignagePlan.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	45	57



Sta. 6+15± Lt. - Sta. 12+00± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (23 ea.)

Sta. 14+80± Lt. - Sta. 16+20± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (6 ea.)

Sta. 17+10± Lt. - Sta. 19+75± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (11 ea.)

- Notes:**
- Existing sign(s) & post(s) to remain
 - Remove existing sign(s) & post(s)
 - Remove existing & Install New Sign(s) & Post(s)
 - Install New sign(s) & post(s)
 - Relocate existing sign(s) on New Post(s)

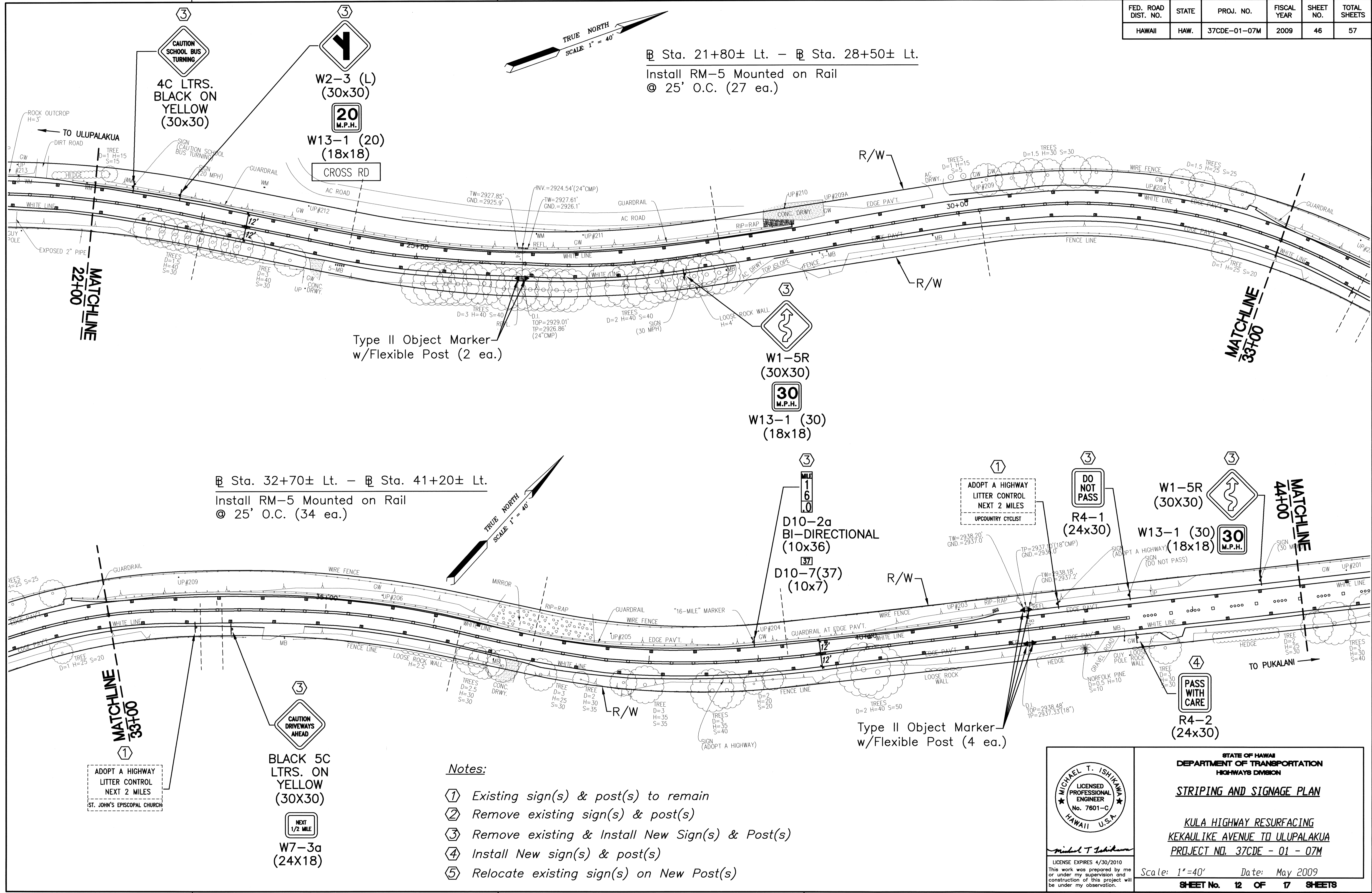
MICHAEL T. ISHIKAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 7801-C
 HAWAII U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
STRIPING AND SIGNAGE PLAN
 KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M
 Scale: 1"=40' Date: May 2009
 SHEET No. 11 OF 17 SHEETS

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

May 27, 2009 - 2:59pm
 M:\Projects\MO708\00\SignagePlan.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	46	57



Sta. 21+80± Lt. - Sta. 28+50± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (27 ea.)

Sta. 32+70± Lt. - Sta. 41+20± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (34 ea.)

- Notes:**
- ① Existing sign(s) & post(s) to remain
 - ② Remove existing sign(s) & post(s)
 - ③ Remove existing & Install New Sign(s) & Post(s)
 - ④ Install New sign(s) & post(s)
 - ⑤ Relocate existing sign(s) on New Post(s)

MICHAEL T. ISHIIKAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 7601-C
 HAWAII U.S.A.

MICHAEL T. IshiiKawa
 LICENSE EXPIRES 4/30/2010
 This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

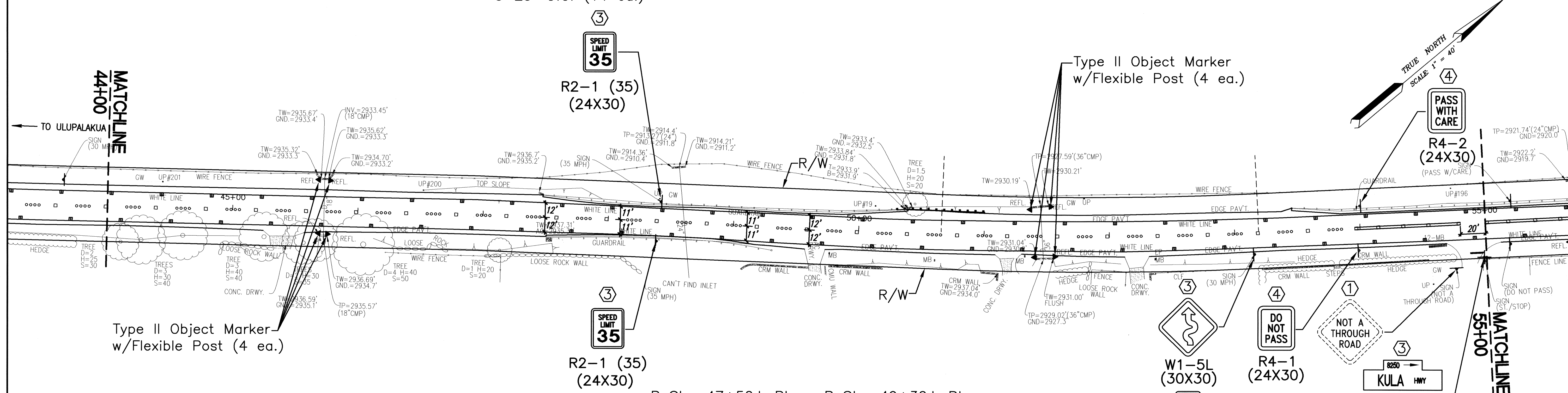
SHEET No. 12 OF 17 SHEETS

May 27, 2009 - 3:04pm
 M:\Projects\MO708\00\SignagePlan.dwg

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	47	57

Sta. 47+50± Lt. - Sta. 51+00± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (14 ea.)

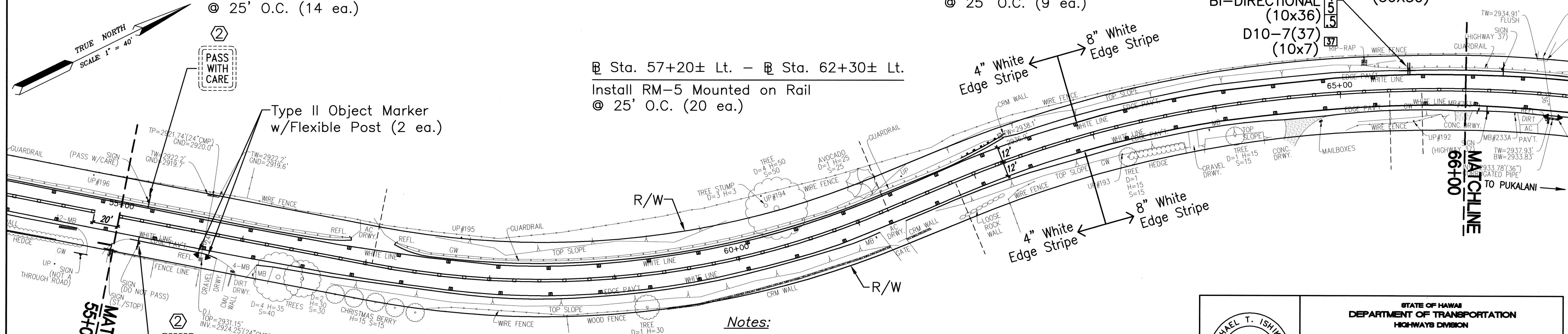


Sta. 47+50± Rt. - Sta. 49+30± Rt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (7 ea.)

Sta. 53+45± Lt. - Sta. 56+85± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (14 ea.)

Sta. 65+20± Lt. - Sta. 67+40± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (9 ea.)

Sta. 57+20± Lt. - Sta. 62+30± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (20 ea.)



Notes:

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- ③ Remove existing & Install New Sign(s) & Post(s)
- ④ Install New sign(s) & post(s)
- ⑤ Relocate existing sign(s) on New Post(s)

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

MICHAEL T. ISHIKAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 7601-C
 HAWAII U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M

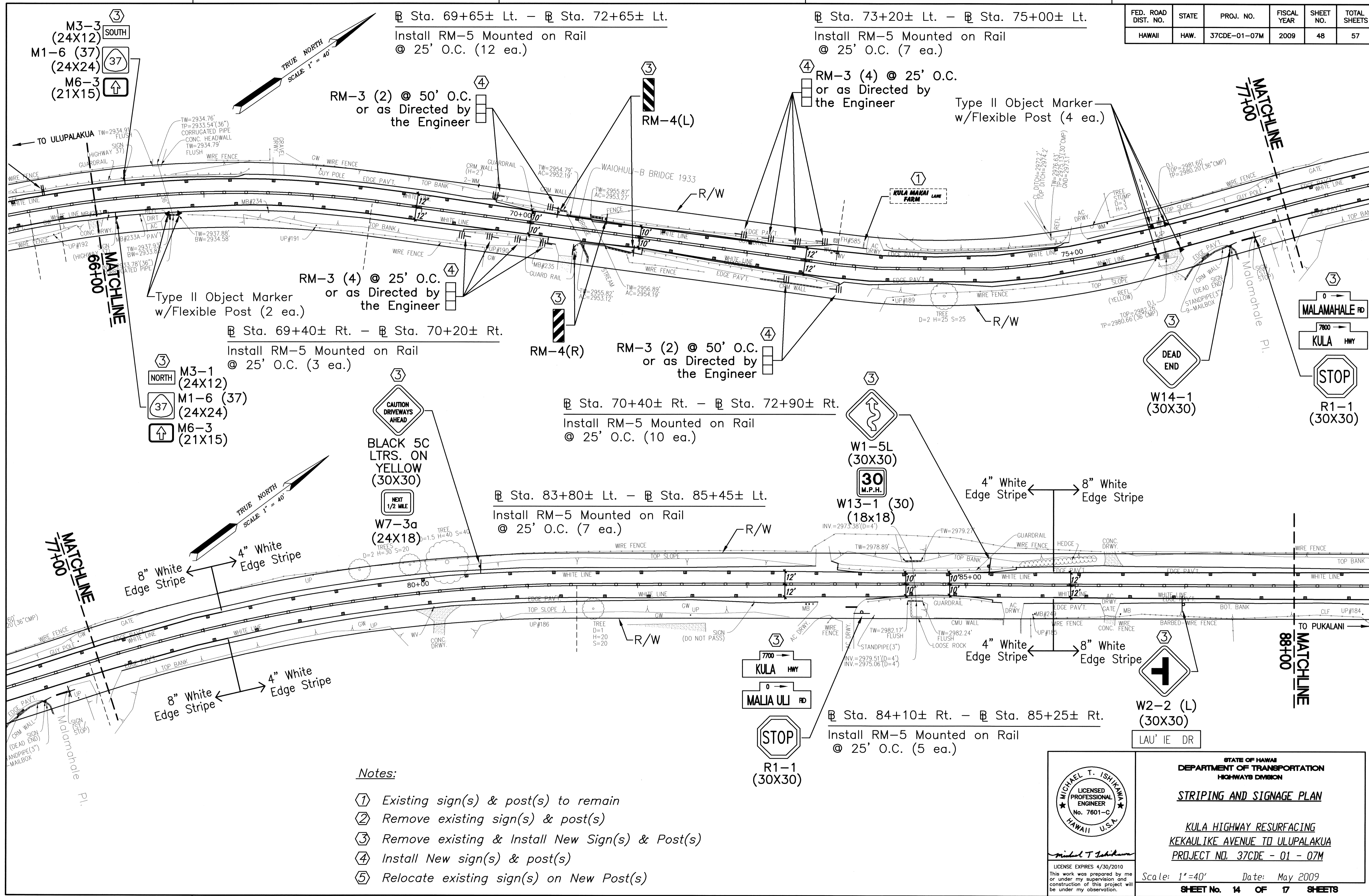
Scale: 1"=40'

Date: May 2009

SHEET No. 13 OF 17 SHEETS

May 27, 2009 - 3:06pm
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	48	57



Sta. 69+65± Lt. - Sta. 72+65± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (12 ea.)

Sta. 73+20± Lt. - Sta. 75+00± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (7 ea.)

Sta. 69+40± Rt. - Sta. 70+20± Rt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (3 ea.)

Sta. 70+40± Rt. - Sta. 72+90± Rt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (10 ea.)

Sta. 83+80± Lt. - Sta. 85+45± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (7 ea.)

Sta. 84+10± Rt. - Sta. 85+25± Rt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (5 ea.)

- Notes:**
- ① Existing sign(s) & post(s) to remain
 - ② Remove existing sign(s) & post(s)
 - ③ Remove existing & Install New Sign(s) & Post(s)
 - ④ Install New sign(s) & post(s)
 - ⑤ Relocate existing sign(s) on New Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 14 OF 17 SHEETS

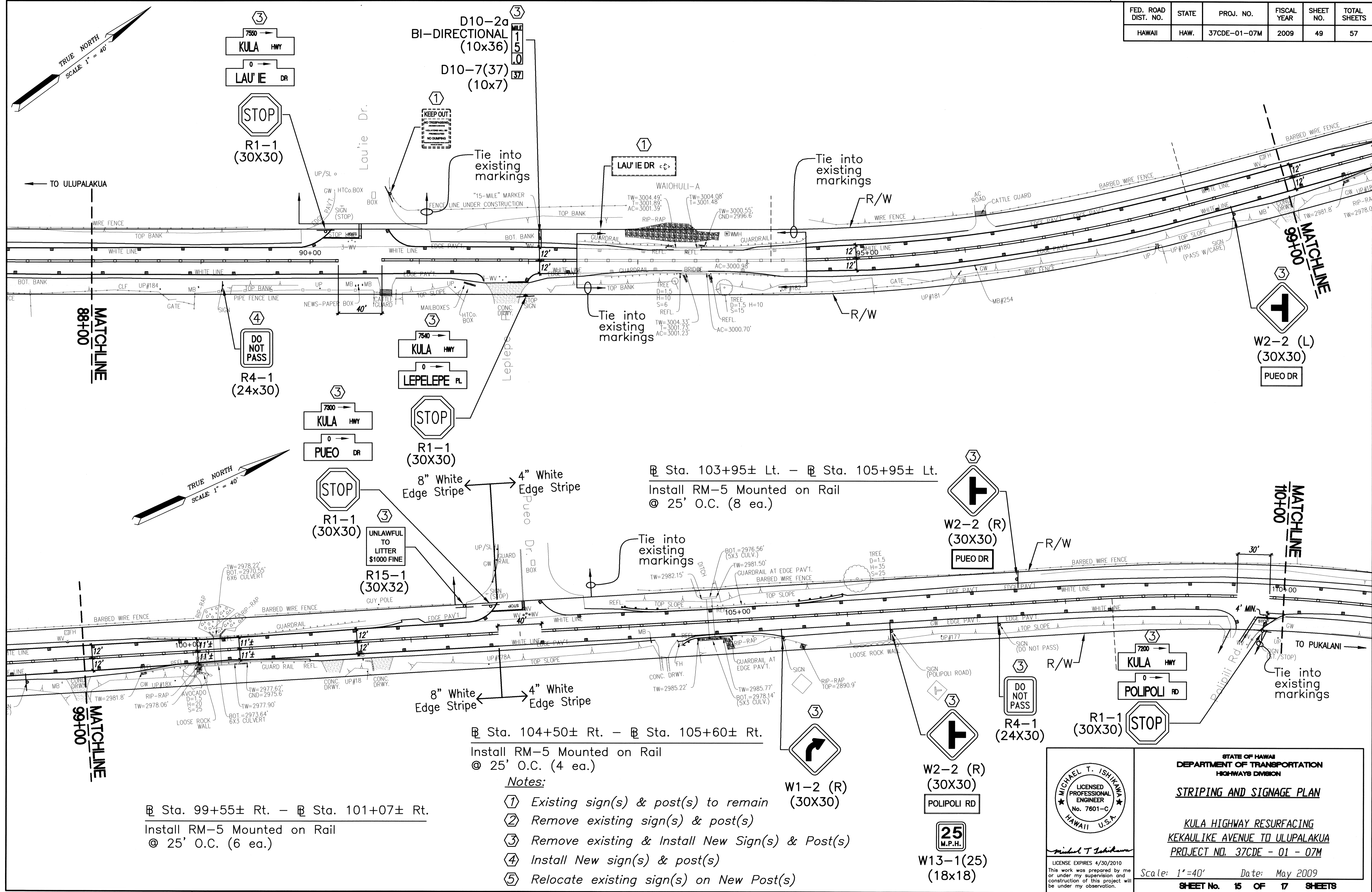
MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7601-C
HAWAII U.S.A.

LISCENSE EXPIRES 4/30/2010
This work was prepared by me or under my supervision and construction of this project will be under my observation.

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

May 27, 2009 - 3:10pm
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	49	57



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

May 27, 2009 - 3:14pm
 M:\Projects\MO708\001\SignagePlan.dwg

Sta. 99+55± Rt. - Sta. 101+07± Rt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (6 ea.)

Sta. 104+50± Rt. - Sta. 105+60± Rt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (4 ea.)

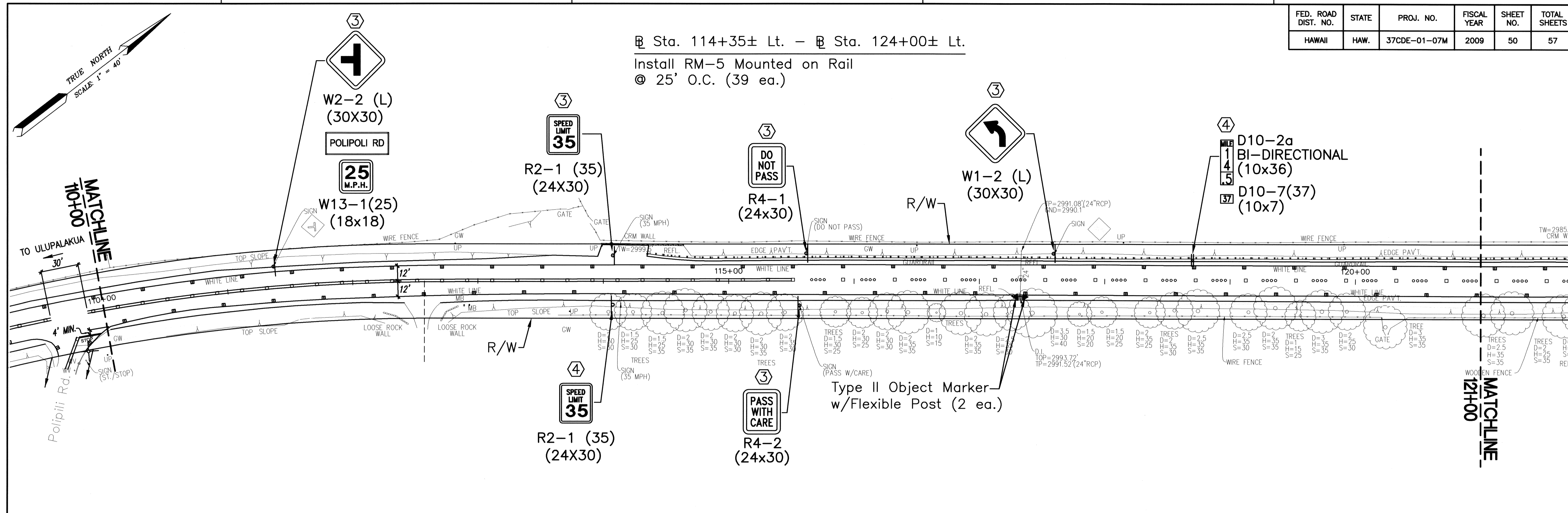
Sta. 103+95± Lt. - Sta. 105+95± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (8 ea.)

- Notes:
- Existing sign(s) & post(s) to remain
 - Remove existing sign(s) & post(s)
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 - Install New sign(s) & post(s)
 - Relocate existing sign(s) on New Post(s)

MICHAEL T. ISHIKAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 7801-C
 HAWAII U.S.A.
 LICENSE EXPIRES 4/30/2010
 This work was prepared by me or under my supervision and construction of this project will be under my observation.

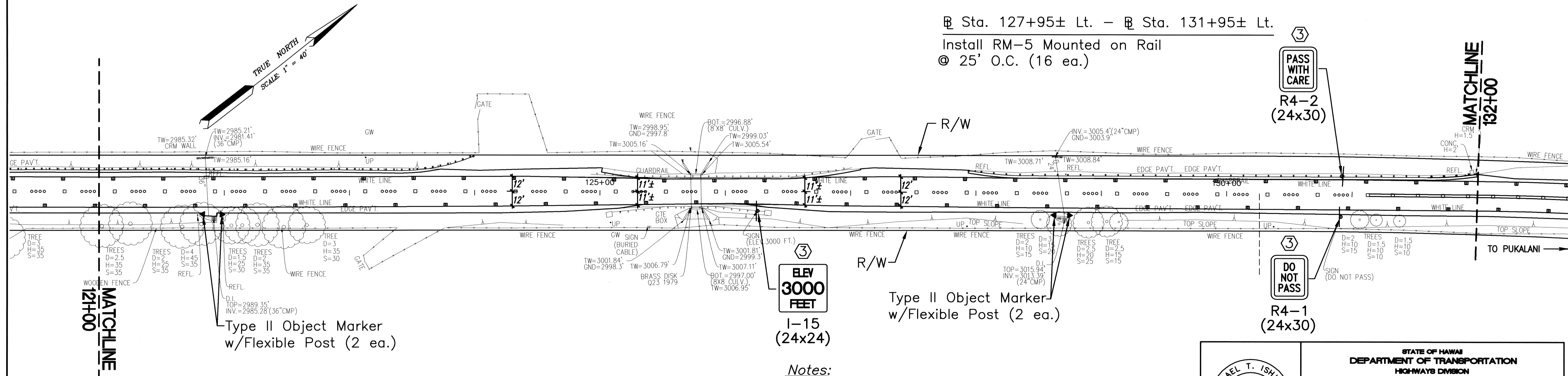
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
STRIPING AND SIGNAGE PLAN
 KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M
 Scale: 1"=40' Date: May 2009
 SHEET No. 15 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	50	57



Sta. 114+35± Lt. - Sta. 124+00± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (39 ea.)

Sta. 127+95± Lt. - Sta. 131+95± Lt.
 Install RM-5 Mounted on Rail
 @ 25' O.C. (16 ea.)



Notes:

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- ③ Remove existing & Install New Sign(s) & Post(s)
- ④ Install New sign(s) & post(s)
- ⑤ Relocate existing sign(s) on New Post(s)

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

MICHAEL T. ISHIKAWA
 LICENSED PROFESSIONAL ENGINEER
 No. 7801-C
 HAWAII U.S.A.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

STRIPING AND SIGNAGE PLAN

KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M

Scale: 1"=40' Date: May 2009

SHEET No. 16 OF 17 SHEETS

May 27, 2009 - 3:19pm
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	52	57

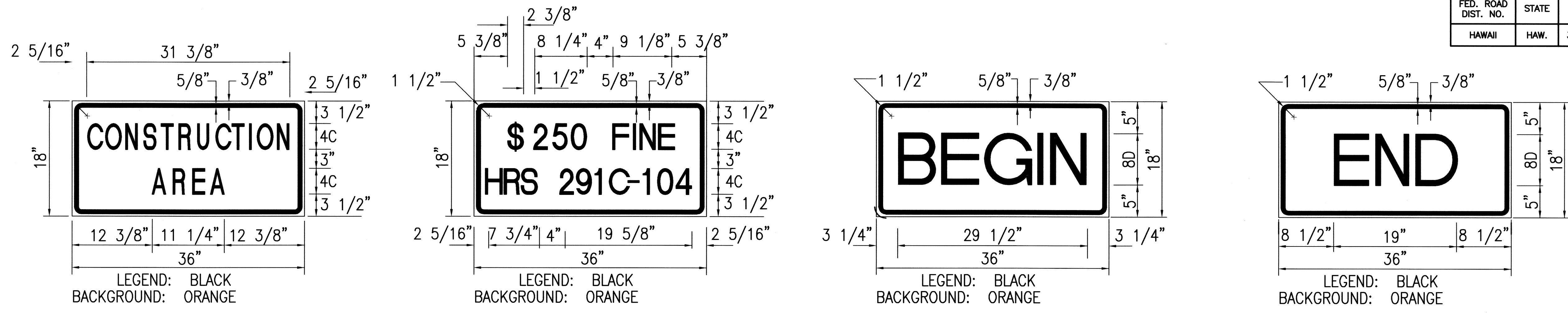
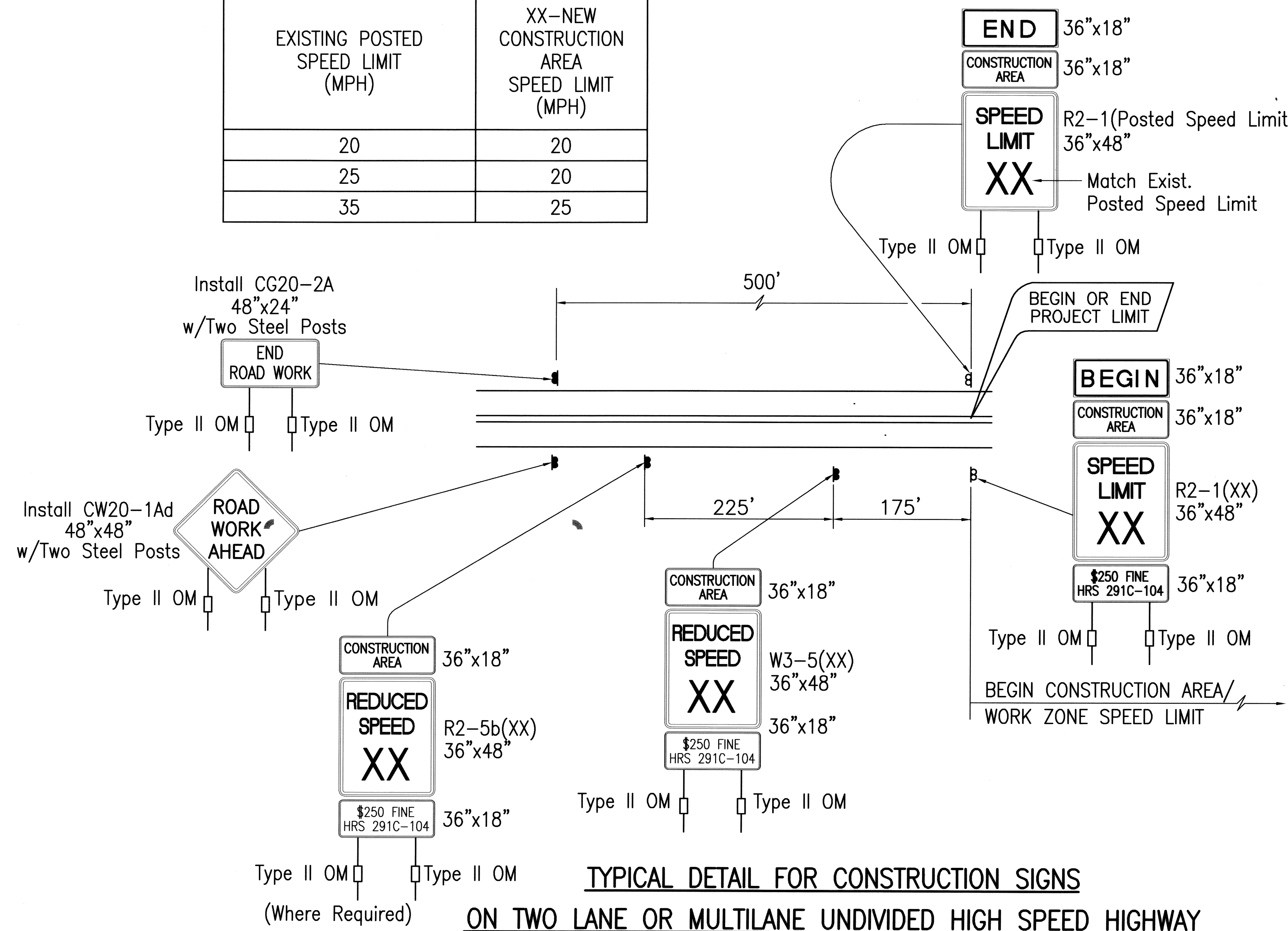


TABLE I
GUIDELINE FOR ADVANCE PLACEMENT OF CONSTRUCTION AREA SPEED LIMIT

EXISTING POSTED SPEED LIMIT (MPH)	XX-NEW CONSTRUCTION AREA SPEED LIMIT (MPH)
20	20
25	20
35	25

Work Zone Note:

1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(XX) and W3-5(XX) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.1000, Traffic Control.
5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.1000, Traffic Control.



TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON TWO LANE OR MULTILANE UNDIVIDED HIGH SPEED HIGHWAY

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NO.	_____

MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7801-C
HAWAII U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WORK ZONE SIGNING PLAN
NOTES AND DETAILS

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: NONE Date: May 2009

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	53	57

RAISED PAVEMENT MARKERS AND STRIPING SUMMARY

STATION TO STATION	PAVEMENT STRIPING					DISTANCE (L.F.)	PAVEMENT MARKERS (EA.)						CROSS WALK LANE	COMMENTS	
	4" YELLOW (L.F.)		4" WHITE	8" WHITE	12" WHITE		TYPE "C"	TYPE "D"	TYPE "H"	TYPE "J"	STOP BAR	ARROW			STOP
	DOUBLE	SINGLE	L.F.	L.F.	L.F.						WHITE 12" (L.F.)	EA.			EA.	EA.
KULA HIGHWAY B															
Sta. -225+98 - Sta. 0+00			22,588			22,598	565								EP
Sta. -225+98 - Sta. -11+33			21,475			21,465	537								EP
Sta. -10+26 - Sta. 0+00			1,021			1,026	26								EP
Sta. -225+98 - Sta. -10+98	21,499					21,500		1,075							NO PASSING
Sta. -10+68 - Sta. 0+00	1,068					1,068		54							NO PASSING
Sta. -10+98 - Sta. -10+68	6					30		1			24				KA'AMANA RD. INT.
Sta. -93+52											10				KEALAKAPU RD. INT.
Sta. 0+00 - Sta. 0+48	48					48		3							NO PASSING
Sta. 0+00 - Sta. 0+24			26			24	1								EP
Sta. 0+24 - Sta. 0+55	68		126			31	4	4			11		1		THOMPSON RD. INT.
Sta. 0+00 - Sta. 62+90			6,282			6,290	157								EP
Sta. 0+90 - Sta. 11+90	1,102					1,100		56			10		2		NO PASSING
Sta. 12+00 - Sta. 19+50	751					750		38			11				NO PASSING
Sta. 0+53 - Sta. 19+15			1,898			1,862	46								EP
Sta. 19+15 - Sta. 20+05	40		41			90	2	2			19		1		CROSS RD. INT.
Sta. 19+91 - Sta. 42+50	2,269					2,259		115							NO PASSING
Sta. 20+05 - Sta. 62+90			4,286			4,285	107								EP
Sta. 42+50 - Sta. 53+96						1,146		28		116					PASSING
Sta. 53+96 - Sta. 54+80	84					84		5							NO PASSING
Sta. 54+80 - Sta. 55+00						20					11				MAUKANANI RD. INT.
Sta. 55+00 - Sta. 90+26	3,527					3,526		168							NO PASSING
Sta. 62+90 - Sta. 78+20			3,061			1,530	76								EP
Sta. 76+53 - Sta. 76+64						11					11				MALAMAHALE RD. INT.
Sta. 78+20 - Sta. 85+80			521			760	38								EP
Sta. 83+90 - Sta. 84+01						11					11				MALIA ULI RD. INT.
Sta. 85+80 - Sta. 90+20			445			440	11								EP
Sta. 85+80 - Sta. 91+59			583			579	14								EP
Sta. 90+20 - Sta. 90+72	14					52		1			34		1		LAU'IE DR. INT.
Sta. 90+72 - Sta. 92+44			179			172	5								EP
Sta. 91+99 - Sta. 92+44			48			45	2								EP
Sta. 90+66 - Sta. 92+44	179					178		9							NO PASSING
Sta. 91+59 - Sta. 91+99						40					18				LEPELEPE PL. INT.
Sta. 94+54 - Sta. 102+80	825					826		41							NO PASSING
Sta. 94+54 - Sta. 102+81			829			827	21								EP
Sta. 94+54 - Sta. 102+80			828			826	21								EP
Sta. 102+81 - Sta. 103+21	9					40		1			29		1		PUEO DR. INT.
Sta. 102+80 - Sta. 109+57			687			677	17								EP
Sta. 103+21 - Sta. 135+50			3,240			3,229	82								EP
Sta. 103+20 - Sta. 109+57	637					637		32							NO PASSING
Sta. 109+57 - Sta. 110+03	27		28			46	1	1			18		1		POLI POLI RD. INT.
Sta. 110+03 - Sta. 135+50			2,542			2,547	64								EP
Sta. 109+87 - Sta. 115+62	575					575		29							NO PASSING
Sta. 115+62 - Sta. 131+11						1,549		38		156					PASSING
Sta. 131+11 - Sta. 147+04	1,592					1,593		80							NO PASSING
Sta. 135+50 - Sta. 147+04			2,307			1,154	57								EP
TOTAL	34,310	0	64,761	8,280	0	107,546	1,854	1,781	0	272	217	0	5	2	

REFLECTIVE MARKER SUMMARY

LOCATION	QUANTITY						
	W/POST					W/O POST	
	RM-1 (WHITE)	RM-2 (WHITE)	RM-3 (WHITE)	RM-4	TYPE II O.M.	RM-5	TYPE II O.M.
BEGIN TO THOMPSON RD.	17	3			4	74	143
THOMPSON RD. TO KEKAULIKE AVE.			24	8	38	305	121
TOTAL	17	3	24	8	42	379	264

CROSSWALK SUMMARY

APPROXIMATE STATION	QUANTITY
KULA HIGHWAY @ Sta. 11+95	2 LANES
TOTAL	2 LANES

DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NO.	_____

LICENSE EXPIRES 4/30/2010
This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SUMMARIES

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: NONE Date: May 2009

SHEET No. 1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	54	57

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POST	W/O POST
BEGIN TO THOMPSON RD.					
R1-1	STOP	1			
R2-1 (25)	SPEED LIMIT 25	8		1	
R4-1	DO NOT PASS	1			
R20-1a	BEGIN STATE HIGHWAY	1			
R20-2a	END STATE HIGHWAY	1			
W1-5R		6			
W1-5L		12			
W1-8R		45			
W1-8L		45			
W2-2(R)		1			
W2-2(L)		1			
W2-3(R)		1			
W5-1	ROAD NARROWS	2			
W7-3a			2		
W11-4		2			
W11-4a			2		
W13-1(15)			1		

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POST	W/O POST
BEGIN TO THOMPSON RD.					
W13-1(20)			1		
W14-2	NO OUTLET	1			
	 (BLK LTRS (5C) ON YELLOW BACK)	1			
D9-2		2			
D9-13a			1		
	 (WHITE LTRS. (4C) ON BLUE BLACK)		1		
	 (WHITE SYMBOL ON BLUE BACK)		1		
	STREET NAME SIGN		2		
W16-8	ADVANCE STREET NAME SIGN		3		
	SUBTOTAL	131	14	1	
THOMPSON RD. TO KEKAULIKE AVE.					
R1-1	STOP	10			
R2-1 (20)	SPEED LIMIT 20			2	
R2-1 (35)	SPEED LIMIT 35	6			
R4-1	DO NOT PASS	6			
R4-2	PASS WITH CARE	4			
R7-1		1			
R15-1		2			

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

LICENSE EXPIRES 4/30/2010
This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SUMMARIES

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: NONE Date: May 2009

SHEET No. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	55	57

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POST	W/O POST
THOMPSON RD. TO KEKAULIKE AVE.					
R16-1d		1			
			1		
			1		
W1-2(R)		2			
W1-2(L)		2			
W1-5R		2			
W1-5L		12			
W2-2(R)		3			
W2-2(L)		3			
W2-3(R)		1			
W2-3(L)		2			
W7-3a			2		
W11-1		1			
W13-1(20)			1		
W13-1(25)			2		
W13-1(30)			4		
W14-1	DEAD END	1			
W16-7pR	 (WHITE SYMBOL ON BLUE BACK)		1		

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POST	W/O POST
THOMPSON RD. TO KEKAULIKE AVE.					
W16-7pL	 (BLACK SYMBOL ON FLUORESCENT YELLOW GREEN BACK)		2		
W16-9p	 (BLACK LTRS. ON FLUORESCENT YELLOW GREEN BACK)		2		
	 (BLACK LTRS. (5C) ON YELLOW BACK)	2			
S1-1	 (BLACK SYMBOL ON FLUORESCENT YELLOW GREEN BACK)	4			
S3-4		1			
S4-3	 (BLACK LTRS. ON FLUORESCENT YELLOW GREEN BACK)		2		
D9-2		1			
I-15		1			
	STREET NAME SIGN		22		
W16-8	ADVANCE STREET NAME SIGN		9		
	SUBTOTAL	68	49	1	2
	TOTAL	199	63	1	2

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)	REMARKS
D-1	Sta. 0+10± Lt.	 ULUPALAKUA 5 KAUPO 25 HANA 46	8'-6" x 3'-6"	30	USE BREAKAWAY STEEL POST PER STD. PLANS 2 - POST
D-2	Sta. 144+30±	 HALEAKALA CRATER	7'-0" x 2'-6"	18	USE GALV. FLANGED CHANNEL POST (4.00 LBS./FT.) 2 - POST
		TOTAL		48	

MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7601-C
HAWAII U.S.A.
MICHAEL T. Ishikawa
LICENSE EXPIRES 4/30/2010
This work was prepared by me or under my supervision and construction of this project will be under my observation.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
MISCELLANEOUS SUMMARIES

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M
Scale: NONE Date: May 2009
SHEET No. 3 OF 5 SHEETS

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

May 27, 2009 - 11:05am
M:\Projects\MO708.00\Oahu_RoadwayPlan\SUMM-SHT5.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	56	57

ROUTE MARKER SUMMARY

SIGN ASSEMBLY	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY		TYPE B ASSEMBLY	
		W/ POST	W/O POST	W/ POST	W/O POST
	BEGIN TO THOMPSON RD.				
SRM-1	(37) M1-6(37) ↑ M6-3		1		
SRM-2	(31) M1-6(31) ↑ M6-3		1		
SRM-3	(NORTH) M3-1 (37) M1-6(37)	1			
SRM-4	(SOUTH) M3-3 (37) M1-6(37)	1			
SRM-5	(SOUTH) M3-3 (37) M1-6(37) ↑ M6-3	1			
	SUBTOTAL	3	2		
	THOMPSON RD. TO KEKAULIKE AVE.				
SRM-6	(NORTH) M3-1 (37) M1-6(37) ↑ M6-3	1			
SRM-7	(SOUTH) M3-3 (37) M1-6(37) ↑ M6-3		2		
SRM-8	(JCT) M2-1 (377) M1-6(377)	1			
SRM-9	M3-1 (NORTH) M3-2 (EAST) M1-6 (37) (377) M6-3 ↑ → M6-1			1	
	SUBTOTAL	4	1		
	TOTAL	7	2	1	

MILEPOST MARKER SUMMARY

LOCATION	SIGN NO. AND MESSAGE	B-DIRECTIONAL	
		W/POST	W/O POST
BEGIN TO THOMPSON RD.			
⊕ Sta. (-)219+50 (Lt.)	MILE 2 1 0 D10-2a (37) D10-7(37)	1	
⊕ Sta. (-)195+90 (Lt.)	MILE 2 0 5 D10-2a (37) D10-7(37)	1	
⊕ Sta. (-)172+30 (Lt.)	MILE 2 0 0 D10-2a (37) D10-7(37)		1
⊕ Sta. (-)145+70 (Lt.)	MILE 1 9 5 D10-2a (37) D10-7(37)	1	
⊕ Sta. (-)119+10 (Lt.)	MILE 1 9 0 D10-2a (37) D10-7(37)	1	
⊕ Sta. (-)92+60 (Rt.)	MILE 1 8 5 D10-2a (37) D10-7(37)	1	
⊕ Sta. (-)66+60 (Lt.)	MILE 1 8 0 D10-2a (37) D10-7(37)		1
⊕ Sta. (-)40+22.50 (Rt.)	MILE 1 7 5 D10-2a (37) D10-7(37)	1	
⊕ Sta. (-)13+85 (Lt.)	MILE 1 7 0 D10-2a (37) D10-7(37)	1	
SUBTOTAL		7	2

MILEPOST MARKER SUMMARY

LOCATION	SIGN NO. AND MESSAGE	B-DIRECTIONAL	
		W/POST	W/O POST
THOMPSON RD. TO KEKAULIKE AVE.			
⊕ Sta. 12+57.50 (Rt.)	MILE 1 6 5 D10-2a (37) D10-7(37)	1	
⊕ Sta. 39+00 (Lt.)	MILE 1 6 0 D10-2a (37) D10-7(37)	1	
⊕ Sta. 65+55 (Lt.)	MILE 1 5 5 D10-2a (37) D10-7(37)	1	
⊕ Sta. 92+10 (Lt.)	MILE 1 5 0 D10-2a (37) D10-7(37)	1	
⊕ Sta. 118+70 (Lt.)	MILE 1 4 5 D10-2a (37) D10-7(37)	1	
⊕ Sta. 145+30 (Lt.)	MILE 1 4 0 D10-2a (37) D10-7(37)	1	
SUBTOTAL		6	
TOTAL		13	2

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

MICHAEL T. ISHIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7601-C
HAWAII U.S.A.

Michael T. Ishikawa
LICENSE EXPIRES 4/30/2010
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS SUMMARIES

KULA HIGHWAY RESURFACING
KEKAULIKE AVENUE TO ULUPALAKUA
PROJECT NO. 37CDE - 01 - 07M

Scale: NONE Date: May 2009

SHEET No. 4 OF 5 SHEETS

RECONSTRUCTION OF WEAKENED AREAS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37CDE-01-07M	2009	57	57

LOCATION	OFFSET	LENGTH (FT.)	WIDTH (FT.)	THICKNESS (IN.)	EXCAVATION (C.Y.)	GCB (TONS)
KULA HIGHWAY @						
Sta. -210+75.60 - Sta. -210+32.73	5' Rt.	41.54	7.43	7	6.67	13.68
Sta. -204+87.19 - Sta. -204+17.19	0' Lt.	70	5	7	7.56	15.52
Sta. -204+87.19 - Sta. -204+17.19	0' Rt.	70	5	7	7.56	15.52
Sta. -194+93.33 - Sta. -194+83.30	5' Rt.	10.02	8.77	7	1.90	3.90
Sta. -189+18.33 - Sta. -189+03.33	0' Lt.	15	5	7	1.62	3.33
Sta. -183+65.10 - Sta. -183+50	0' Lt.	15.50	5	7	1.67	3.44
Sta. -166+39.47 - Sta. -166+19.48	5' Lt.	20	7.30	7	3.15	6.47
Sta. -165+93.83 - Sta. -165+73.83	5' Lt.	20	8.05	7	3.48	7.14
Sta. -165+3.82 - Sta. -165+53.82	0' Lt.	10	7	7	1.51	3.10
Sta. -162+69.93 - Sta. -162+59.93	5.3' Lt.	10	6.38	7	1.38	2.83
Sta. -161.59.75 - Sta. -161+20.98	0' Lt.	38.77	5	7	4.19	8.59
Sta. -161.59.75 - Sta. -161+20.98	0' Rt.	38.77	5	7	4.19	8.59
Sta. -160+54.07 - Sta. -160+34.05	0' Lt.	20	5	7	2.16	4.43
Sta. -160+54.07 - Sta. -160+34.05	0' Rt.	20	5	7	2.16	4.43
Sta. -148+26.81 - Sta. -148+15.01	2' Lt.	11	7.11	7	1.69	3.47
Sta. -128+62.46 - Sta. -128+42.46	4.8' Lt.	20	5	7	2.16	4.43
Sta. -115+34.23 - Sta. -114+99.18	0' Lt.	35	5	7	3.78	7.76
Sta. -115+34.23 - Sta. -114+99.18	0' Rt.	35	5	7	3.78	7.76
Sta. -111+85.54 - Sta. -111+60.54	0' Rt.	25	5	7	2.70	5.54
Sta. -108+44.58 - Sta. -108+29.58	0' Lt.	15	5	7	1.62	3.33
Sta. -45+51.32 - Sta. -45+11.32	0' Lt.	40	5	7	4.32	8.87
Sta. -45+51.32 - Sta. -45+11.32	0' Rt.	40	5	7	4.32	8.87
Sta. -33+00 - Sta. -32+80	0' Lt.	20	12	7	5.19	10.64
Sta. -30+63.41 - Sta. -30+53.26	5' Rt.	10	9	7	1.94	3.99
Sta. -29+27.49 - Sta. -29+12.48	5' Rt.	15	6.9	7	2.24	4.59
Sta. -28+36.55 - Sta. -28+26.55	0' Lt.	10	5.09	7	1.10	2.26
Sta. -28+36.55 - Sta. -28+26.55	0' Rt.	10	11.57	7	2.50	5.13
Sta. -25+27.12 - Sta. -25+07.02	5' Rt.	20	8.36	7	3.61	7.41
Sta. -8+11.04 - Sta. -7+96.04	0' Lt.	15	5	7	1.62	3.33
Sta. -2+43 - Sta. -1+82.43	0' Rt.	20	12.40	7	5.36	10.99
Sta. -1+82.43 - Sta. -1+37.97	6.8' Rt.	47.46	6.30	7	6.46	13.26
Sta. 1+34.97 - Sta. -1+26.97	0' Rt.	8	12.71	7	2.20	4.51
Sta. 0+00 - Sta. 0+98.03	0' Lt.	98.03	9.18	7	19.44	39.90
Sta. 0+24.92 - Sta. 0+98.03	0' Rt.	73.12	11.15	7	17.61	36.14
Sta. 1+74.16 - Sta. 2+04.21	9.7' Rt.	30	6.11	7	3.96	8.13
Sta. 2+04.21 - Sta. 3+50.00	0' Lt.	145.71	8.47	7	26.66	54.71
Sta. 2+04.21 - Sta. 3+50.00	0' Rt.	145.71	15.98	7	50.30	103.22
Sta. 5+03.66 - Sta. 5+23.64	8.0' Rt.	20	8.40	7	3.63	7.45
Sta. 18+74.34 - Sta. 19+16.44	3' Rt.	42.53	6	7	5.51	11.31
Sta. 19+16.44 - Sta. 19+36.25	6.9' Rt.	19.67	6	7	2.55	5.23
Sta. 25+38.12 - Sta. 25+43.07	6.75' Rt.	5	6	7	0.65	1.33
Sta. 25+62.70 - Sta. 25+67.70	0' Rt.	5	12.20	7	1.32	2.70
Sta. 26+36.26 - Sta. 26+47.75	2.8' Rt.	11.52	10	7	2.49	5.11
Sta. 54+97.03 - Sta. 55+22.03	0' Rt.	25	14.6	7	7.88	16.18
Sta. 56+63.76 - Sta. 56+83.76	6.5' Rt.	20	7.6	7	3.28	6.74
Sta. 63+48.42 - Sta. 63+72.98	7.5' Lt.	25	7.6	7	4.10	8.42
Sta. 65+00.31 - Sta. 65+64.62	7.2' Lt.	65	7	7	9.82	20.17
Sta. 65+79.47 - Sta. 66+31.47	7.6' Lt.	53	7	7	8.01	16.45
Sta. 68+01.72 - Sta. 68+50.77	7.0' Lt.	50	8	7	8.64	17.73

LOCATION	OFFSET	LENGTH (FT.)	WIDTH (FT.)	THICKNESS (IN.)	EXCAVATION (C.Y.)	GCB (TONS)	
KULA HIGHWAY @							
Sta. 80+22.53 - Sta. 80+32.40	7.0' Lt.	10	6.8	7	1.47	3.01	
Sta. 91+10.84 - Sta. 91+15.84	7.85' Lt.	5	6	7	0.65	1.33	
Sta. 91+80.39 - Sta. 92+20.39	7.47' Lt.	40	6	7	5.19	10.64	
Sta. 94+61.47 - Sta. 95+47.54	7.0' Lt.	85	6.3	7	11.57	23.74	
Sta. 106+24.48 - Sta. 106+69.48	7.3' Lt.	45	6	7	5.83	11.97	
Sta. 111+12.60 - Sta. 111+37.81	0' Rt.	25	12	7	6.48	13.30	
Sta. 115+66.94 - Sta. 115+71.94	0' Lt.	5	6	7	0.65	1.33	
Sta. 115+96.58 - Sta. 116+06.54	4.75' Rt.	10	6	7	1.30	2.66	
Sta. 117+59.72 - Sta. 117+69.72	4.9' Rt.	10	6	7	1.30	2.66	
Sta. 118+25.03 - Sta. 118+45.03	5.13' Rt.	20	6	7	2.59	5.32	
Sta. 121+74.73 - Sta. 121+89.73	5.6' Rt.	15	6	7	1.94	3.99	
Sta. 124+37.34 - Sta. 124+67.34	0' Lt.	30	12.65	7	8.20	16.82	
Sta. 134+16.59 - Sta. 135+02.96	6.5' Lt.	86.5	6	7	11.21	23.01	
Sta. 137+94.67 - Sta. 138+09.67	17.3' Lt.	15	6	7	1.94	3.99	
Sta. 139+61.33 - Sta. 139+68.33	7.56' Lt.	7	6	7	0.91	1.86	
					TOTAL	342.87	703.66
					SAY	345	705

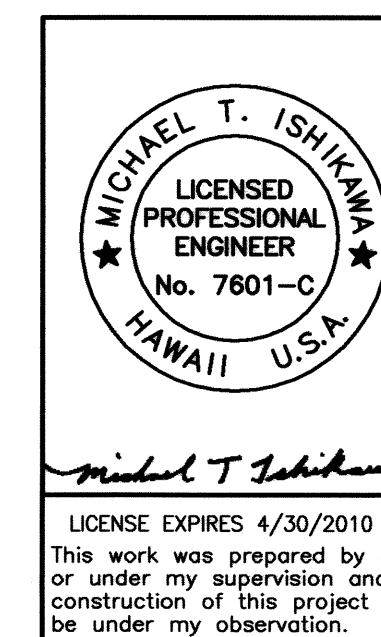
WATER / GTE MANHOLES & VALVE BOXES & ST. MON. SUMMARY

LOCATION	O/S +/-	GTE MANHOLE FRAME & COVER	WATER MANHOLE FRAME & COVER	WATER VALVE BOX FRAME & COVER	STREET SURVEY MONUMENT
KULA HIGHWAY @					
Sta. -10+83±	8' Rt.				1
Sta. 0+72±	20' Rt.			1	
Sta. 1+22±	19' Rt.			1	
Sta. 3+00±	9' Rt.			1	
Sta. 6+46±	22' Rt.			1	
Sta. 7+97±	14' Rt.			1	
Sta. 11+22±	17.5' Rt.			1	
Sta. 12+68	19' Rt.			1	
Sta. 14+35±	19.5' Rt.			1	
Sta. 14+53±	18' Rt.		1		
Sta. 19+37±	8.5' Rt.			1	
Sta. 19+43±	8' Rt.			1	
Sta. 20+05±	5.5' Rt.		1		
Sta. 24+00±	14.5' Rt.			1	
Sta. 72+76±	11.5' Lt.			1	
Sta. 72+79±	13' Lt.			1	
Sta. 76+37±	5' Lt.			1	
Sta. 76+37±	10.5' Lt.			1	
Sta. 80+13±	14' Rt.			1	
Sta. 84+17±	12' Rt.			1	
Sta. 90+35±	18.5' Lt.			1	
Sta. 90+38±	19.5' Lt.			1	
Sta. 90+41±	18.5' Lt.			1	
Sta. 91+73±	13.5' Rt.			1	
Sta. 91+76±	17' Rt.			1	

WATER / GTE MANHOLES & VALVE BOXES & ST. MON. SUMMARY

LOCATION	O/S +/-	GTE MANHOLE FRAME & COVER	WATER MANHOLE FRAME & COVER	WATER VALVE BOX FRAME & COVER	STREET SURVEY MONUMENT
KULA HIGHWAY @					
Sta. 91+79±	14' Rt.				1
Sta. 91+98±	16.5' Lt.				1
Sta. 98+86±	18' Lt.				1
Sta. 103+04±	17' Lt.				1
Sta. 103+07±	18' Lt.				1
Sta. 103+10±	17' Lt.				1
Sta. 104+46±	4.5' Lt.				1
Sta. 146+93±	16.5' Lt.	1			
Sta. 147+00±	16.5' Lt.	1			
TOTAL		2	2	29	1

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



STATE OF HAWAII
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 HIGHWAYS DIVISION
MISCELLANEOUS SUMMARIES
 KULA HIGHWAY RESURFACING
 KEKAULIKE AVENUE TO ULUPALAKUA
 PROJECT NO. 37CDE - 01 - 07M
 Scale: NONE Date: May 2009
SHEET No. 5 OF 5 SHEETS