

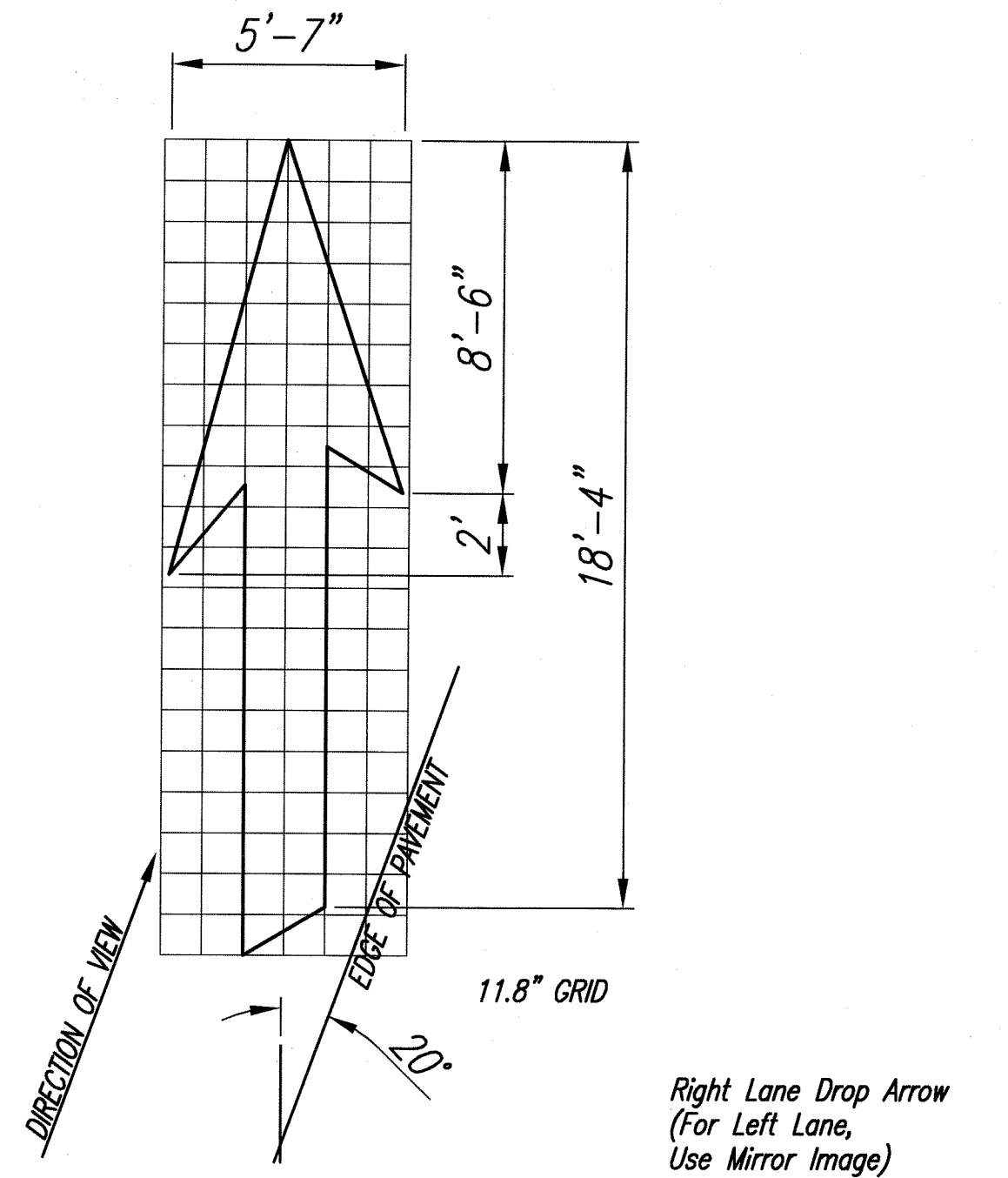
GENERAL NOTES

- 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 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 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.
- Sign posts shall be square tube posts (2" or 2 1/2") unless shown on these plans or directed by the Engineer.
- Removal of Existing Delineators and Posts as directed by the Engineer 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 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices for Street and Highways" (MUTCD)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
- All new and relocated signs and markers installed on pipe post or light standard are to be mounted on new square tube posts or on light standard with band brackets and steel braces.
- The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs as indicated on the plans or as directed by the Engineer for the duration of the highway project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645-Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Maui District Baseyard or as directed by the Engineer at the end of the project.
- The Contractor shall notify the County of Maui two weeks prior to beginning any work, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.

LEGEND

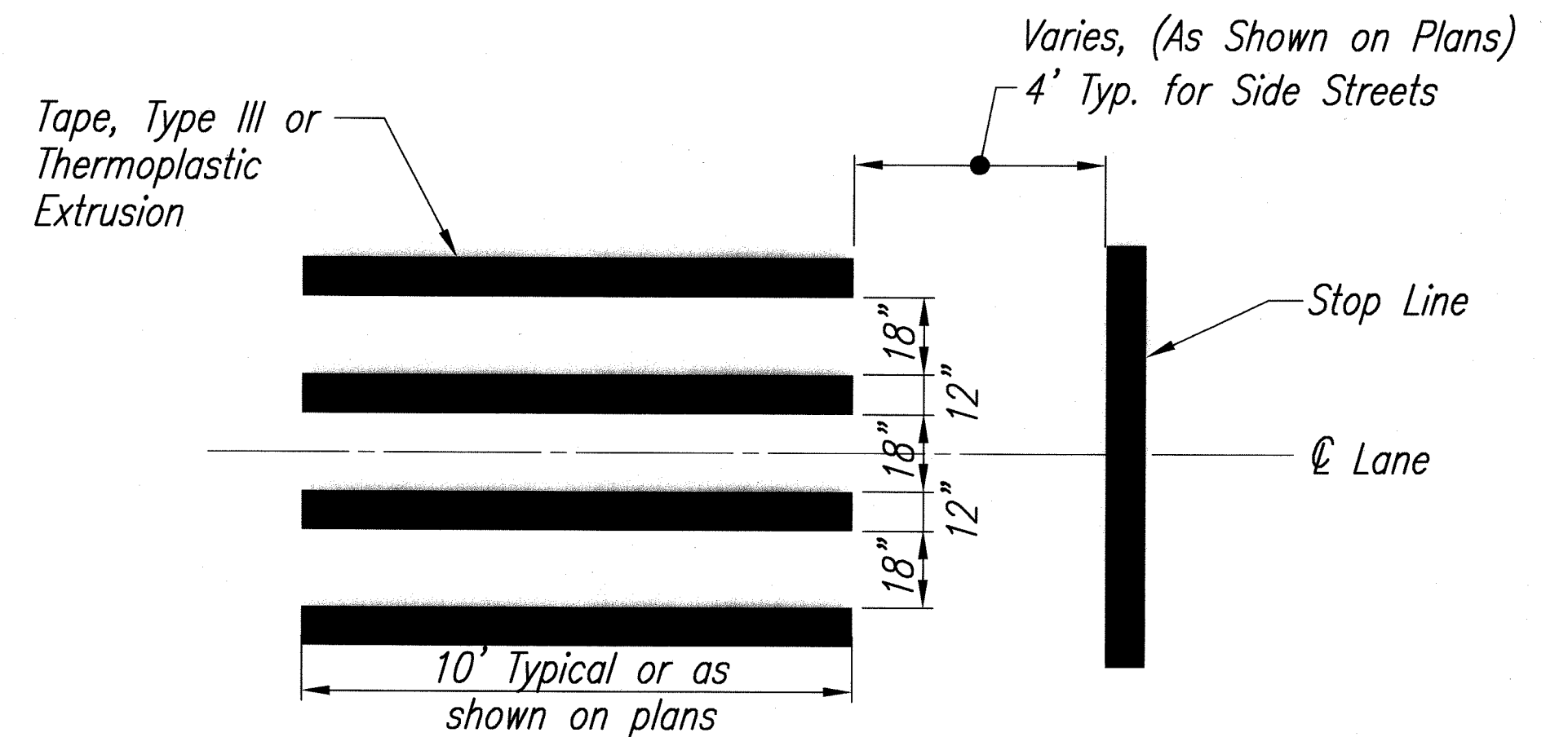
- 4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- Type 3D Curb with Type H Raised Pavement Markers @ 40'-0" o.c. & 4" Yellow Edge Stripe.
- Type C Raised Pavement Markers @ 40'-0" o.c.
4 each Type A Raised Pavement Markers
1 each Type DB Raised Pavement Marker Offset at Existing Fire Hydrant
Existing Fire Hydrant
- 8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" White or Yellow Guide Lines 2'-0" long @ 6'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)
- Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)
- 12" White Stop Line (Tape, Type III or Thermoplastic Extrusion)
- Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
- Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
- Pavement Word (Tape, Type III or Thermoplastic Extrusion)
- White Yield Striping, 18" High Triangle with 12" Base @ 18" o.c. (Tape, Type III or Thermoplastic Extrusion)

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	79	194



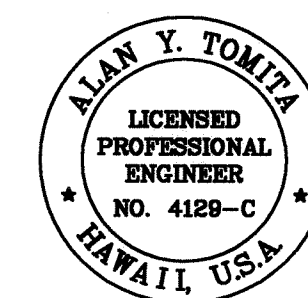
TYPE VI ARROW

Scale: 1:4



TYPICAL CROSSWALK STRIPING

Not to Scale



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Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE & PAVEMENT MARKING

LEGEND & NOTES

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: October 2008

SHEET No. 1 OF 9 SHEETS

SIGNS & MARKINGS NOTES FOR WORK WITHIN COUNTY STREETS

1. All traffic sign and pavement marking installations shall be done in accordance with the "Manual On Uniform Traffic Control Devices For Streets And Highways," 1978 Edition, the latest specifications from the County of Maui Department of Public Works Highways Division, and as shown on the plans.
2. Contractor shall notify and coordinate work with the County of Maui Department of Public Works Highways Division one (1) week in advance of commencing work at 527-5087.
3. Contractor shall submit material brochures for all signs and paint materials to the County of Maui Department of Public Works Highways Division.
4. The signing and/or striping Contractor shall keep one (1) set of approved plans at the project site at all times during construction work.
5. Contractor shall paint temporary guidelines and outline of arrows, legends, and crosswalks with a two inch (2") wide brushed line on the day the roadway is opened to traffic. These markings must be approved by the Inspector from the TCounty of Maui Department of Public Works Highways Division before the permanent lines are painted.
6. Contractor shall notify the County of Maui Department of Public Works Highways Division at 527-5087, three (3) days in advance of final inspection.
7. Contractor shall meet with the inspector from the County of Maui Department of Public Works Highways Division during the final inspection.
8. Within ten (10) days following notification of award of contract, the Contractor shall submit to the County of Maui Department of Public Works for approval, a list of any signing and pavement marking material which he proposes to install. The list shall be complete as to the name of manufacturer, catalog number, and shall be supplemented with material brochures.
9. Upon final inspection of the project, the Contractor shall submit a letter of certification for all traffic signing and pavement marking materials installed.
10. Signs shall be attached to brackets with 5/16" zinc plated steel bolts, nuts and washers. Signs 48" wide or larger than 10 sq. ft. in area shall be mounted on two 2" galv. pipe post. The sign shall be installed with at least one (1) foot clearance from the sign edge to the curb face.
11. All traffic signs shall be reflectorized.
12. White and yellow paint (pavement markings) shall be reflectorized and conform to the standard specifications on file in the County of Maui Department of Public Works.
13. Raised pavement markers shall be installed in accordance with the County of Maui Department of Public Works standards.
14. Location of "Stop" sign:
 - A. Install "Stop" sign at curb tangent point.
 - B. Install "Stop" sign on metal street light standard if a standard is located within 10 feet of curb return.
 - C. Install "Stop" sign in front of utility pole if a pole is located within 10 feet of curb return.
15. Pavement word and symbol markings shall be in accordance with the County of Maui Department of Public Works standards.
16. The Contractor shall use thermoplastic material, approved by the County of Maui Department of Public Works Highways Division, for all crosswalks, stop bars, pavement arrows, 8-inch lane and arc lines, and legends.

TRAFFIC NOTES FOR WORK ON COUNTY STREETS

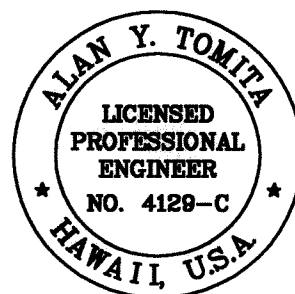
1. A permit shall be obtained from the County of Maui Department of Public Works Highways Division before work on any portion of a public street or highway may begin. Construction traffic control plans approved by the County of Maui Department of Public Works Highways Division must be provided when applying for the permit.
2. The Contractor shall provide, install, and maintain all necessary signs and other protective facilities, which shall conform with the "Hawaii Administration Rules Governing The Use Of Traffic Control Devices At Work Sites On Or Adjacent To Public Streets And Highways" adopted by the Director of Transportation, and the current U.S. Federal Highways Administration's "Manual On Uniform Traffic Control Devices For Streets And Highways, Part VI - Traffic Controls For Street And Highway Construction And Maintenance Operations."
3. Work on any County street area may be performed only between the hours of 9:00 A.M. TO 3:00 P.M., Monday through Friday, unless otherwise permitted by the County of Maui Department of Public Works.
4. During working hours, the Contractor shall provide for through traffic. During non-working hours, all trenches shall be covered with a safe non-skid bridging material and all lanes shall be open to traffic.
5. As required by the County of Maui Department of Public Works, the Contractor shall provide off-duty police officers to control the flow of traffic.
6. Where pedestrian walkways exist, they shall be maintained in passable condition or other facilities for pedestrians shall be provided. Passage between walkways at intersections shall likewise be provided.
7. Driveways shall be kept open unless the Owners of the property using these Rights-of-Way are otherwise provided for satisfactorily.
8. Contractor shall reference to the approval of the County of Maui Department of Public Works Highways Division, all existing traffic signs, posts and pavement markings prior to the commencement of construction. The Contractor shall replace or repair all traffic signs, posts and pavement markings disturbed by his activities.
9. The Contractor shall notify the County of Maui Department of Public Works one (1) week prior to any work to be done on signs, posts and pavement markings.
10. No material and/or equipment shall be stockpiles or otherwise stored within street Right-of-Way except at locations designated in writing and approved by the County of Maui Department of Public Works.
11. The Department of Transportation shall ensure that the Contractor installs the construction traffic control devices in accordance with the MUTCD and the Hawaii Administration Rules as specified in traffic note #2.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	80	194

APPROVED:

CHIEF, HIGHWAYS DIVISION, MAUI COUNTY DPWEM
(FOR CONSTRUCTION W/IN COUNTY R/W ONLY)

DATE



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OR UNDER MY SUPERVISION.

Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE & PAVEMENT MARKING

NOTES

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown

Date: October 2008

SHEET No. 2 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	81	194

SPEED
LIMIT
35

R2-1(35)
24"x30"

6

(A)		(B)	
Δ	79°38'44"	Δ	70°46'23"
$\frac{1}{2}\Delta$	39°49'22"	$\frac{1}{2}\Delta$	35°23'12"
R	27.45	R	39.72
T	22.89	T	28.21
C	35.15	C	46
LC	38.15	LC	49.06

(C)		(D)	
Δ	71°41'35"	Δ	75°36'6"
$\Delta/2$	35°50'47"	$\Delta/2$	37°48'3"
R	39.67	R	36.6
T	28.66	T	28.39
C	46.46	C	44.87
LC	49.63	LC	48.3

M.L. To Wailuku


NOTE: ALL SIGNS TO BE
REMOVED SHALL BE SALVAGED &
PROVIDED TO DOT BASEYARD

Sta 80+80±
120± LF 4" White Guide Lines

Street Name Sign Note:

1. *Street Name Signs to conform to Plate T-14 of the Standard Details for Public Works Construction, dated September 1984.*

To Wailuku



Wide
ter Strip

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE & PAVEMENT MARKING

PLANS - 1

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: October 2008

SHEET No. 3 OF 9 SHEETS

31

KEY:

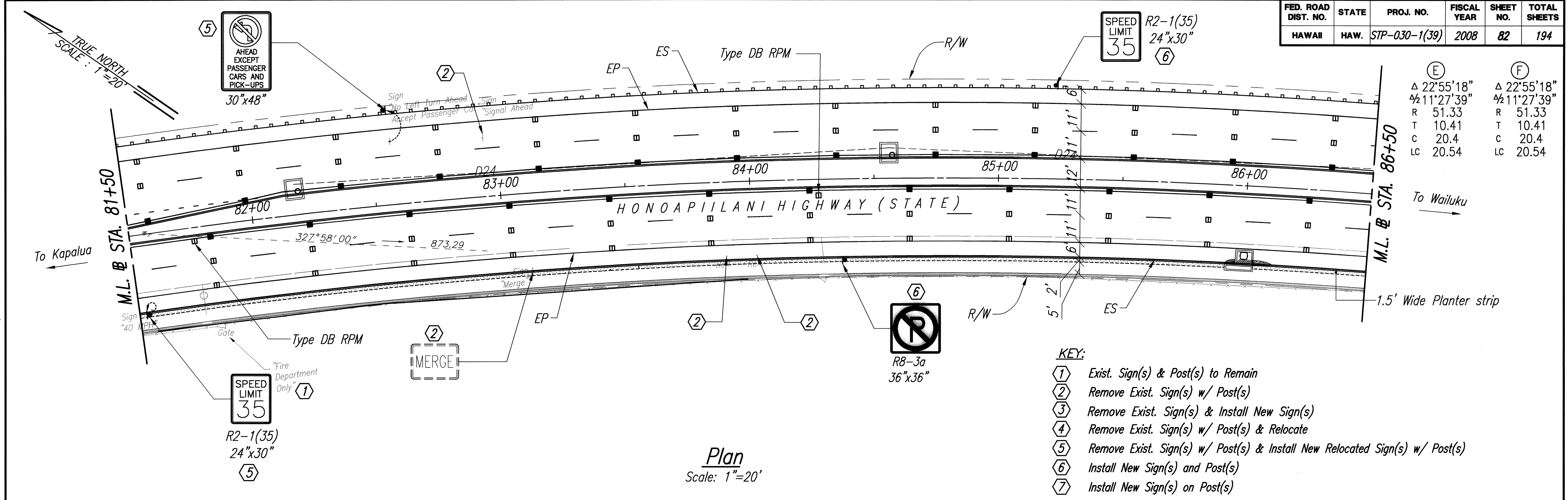
- | | |
|-----------|----|
| DIST. NO. | |
| HAWAII | H. |
- 1 Exist. Sign(s) & Post(s) to Remain
 - 2 Remove Exist. Sign(s) w/ Post(s)
 - 3 Remove Exist. Sign(s) & Install New Sign(s)
 - 4 Remove Exist. Sign(s) w/ Post(s) & Relocate
 - 5 Remove Exist. Sign(s) w/ Post(s) & Install New Relocated Sign(s) w/ Post(s)
 - 6 Install New Sign(s) and Post(s)
 - 7 Install New Sign(s) on Post(s)

Plan

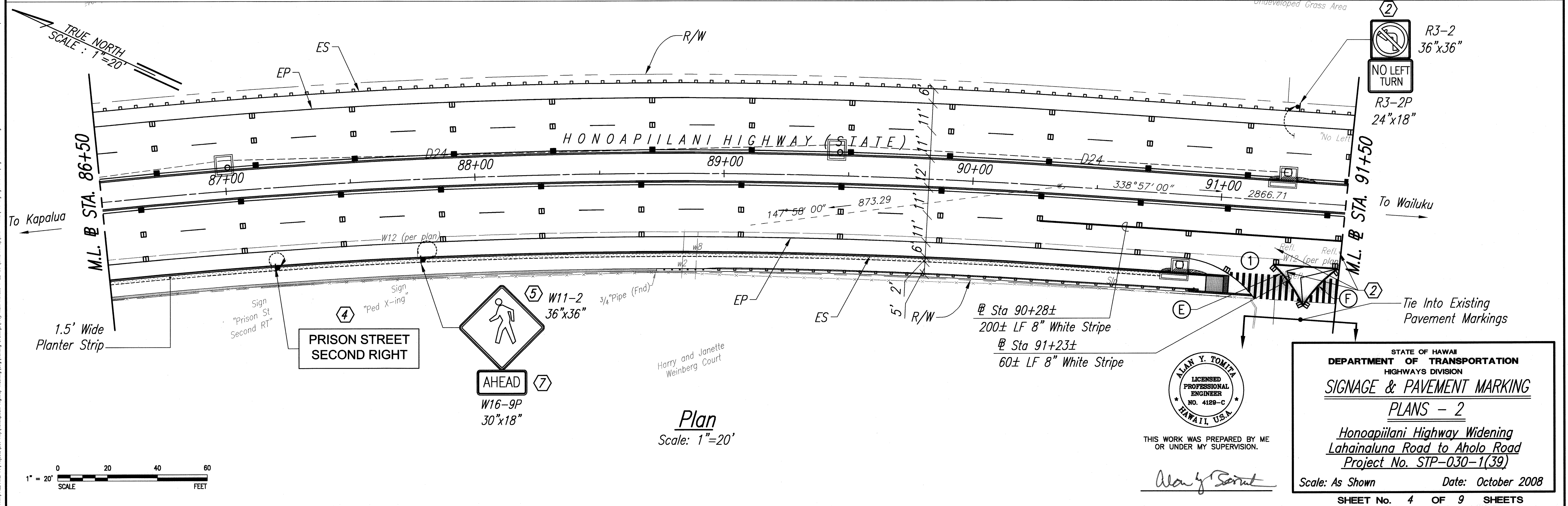
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	82	194

(E)	(F)
Δ 22°55'18"	Δ 22°55'18"
½ 11°27'39"	½ 11°27'39"
R 51.33	R 51.33
T 10.41	T 10.41
C 20.4	C 20.4
LC 20.54	LC 20.54



- KEY:**
- (1) Exist. Sign(s) & Post(s) to Remain
 - (2) Remove Exist. Sign(s) w/ Post(s)
 - (3) Remove Exist. Sign(s) & Install New Sign(s)
 - (4) Remove Exist. Sign(s) w/ Post(s) & Relocate
 - (5) Remove Exist. Sign(s) w/ Post(s) & Install New Relocated Sign(s) w/ Post(s)
 - (6) Install New Sign(s) and Post(s)
 - (7) Install New Sign(s) on Post(s)



ALAN Y. TOMITA
LICENSED PROFESSIONAL ENGINEER
NO. 4129-C
HAWAII, USA

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Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE & PAVEMENT MARKING

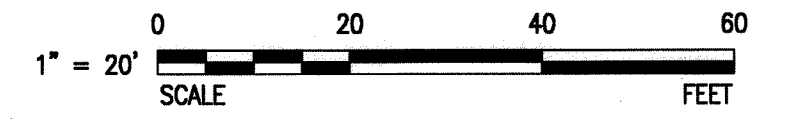
PLANS - 2

*Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)*

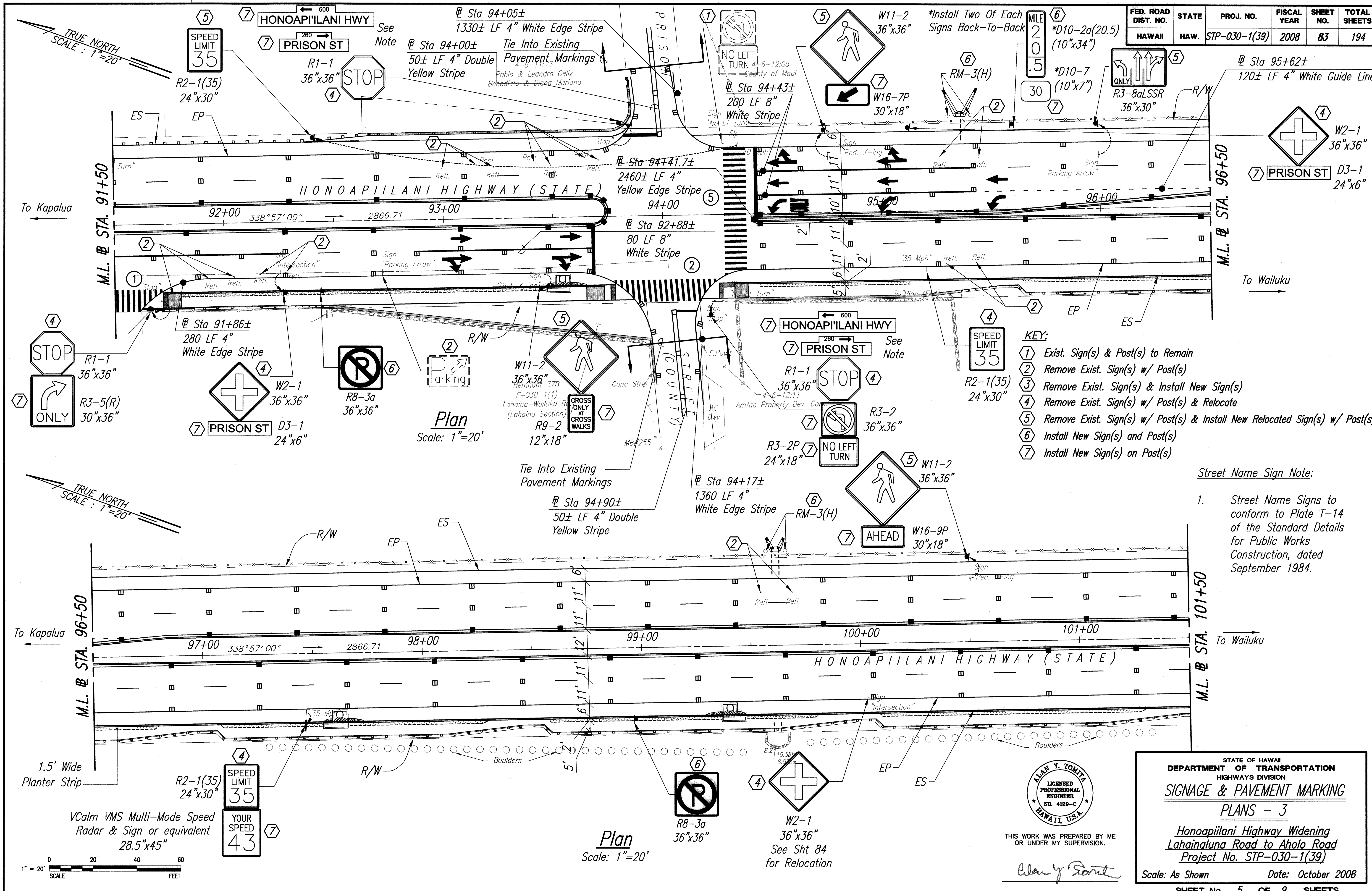
Scale: As Shown Date: October 2008

SHEET No. 4 OF 9 SHEETS

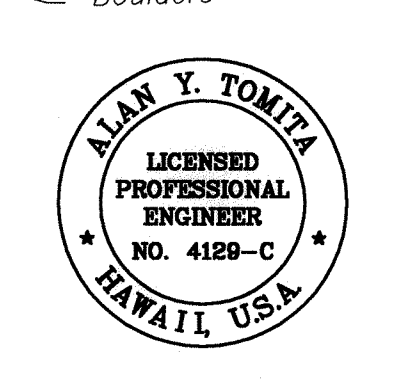
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
CHECKED BY	
NO.	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	83	194



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) w/ Post(s)
 - ③ Remove Exist. Sign(s) & Install New Sign(s)
 - ④ Remove Exist. Sign(s) w/ Post(s) & Relocate
 - ⑤ Remove Exist. Sign(s) w/ Post(s) & Install New Relocated Sign(s) w/ Post(s)
 - ⑥ Install New Sign(s) and Post(s)
 - ⑦ Install New Sign(s) on Post(s)
- Street Name Sign Note:**
- Street Name Signs to conform to Plate T-14 of the Standard Details for Public Works Construction, dated September 1984.



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Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE & PAVEMENT MARKING

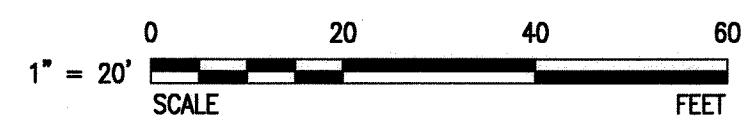
PLANS - 3

*Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)*

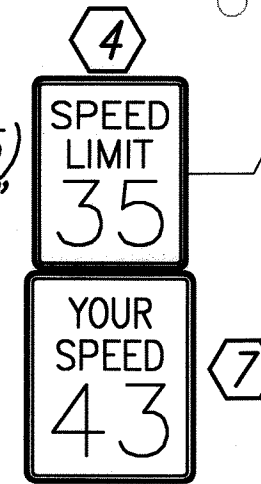
Scale: As Shown Date: October 2008

SHEET No. 5 OF 9 SHEETS

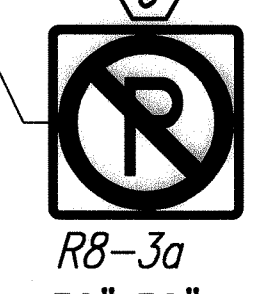
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	



VCaln VMS Multi-Mode Speed Radar & Sign or equivalent
28.5"x45"



Plan
Scale: 1"=20'



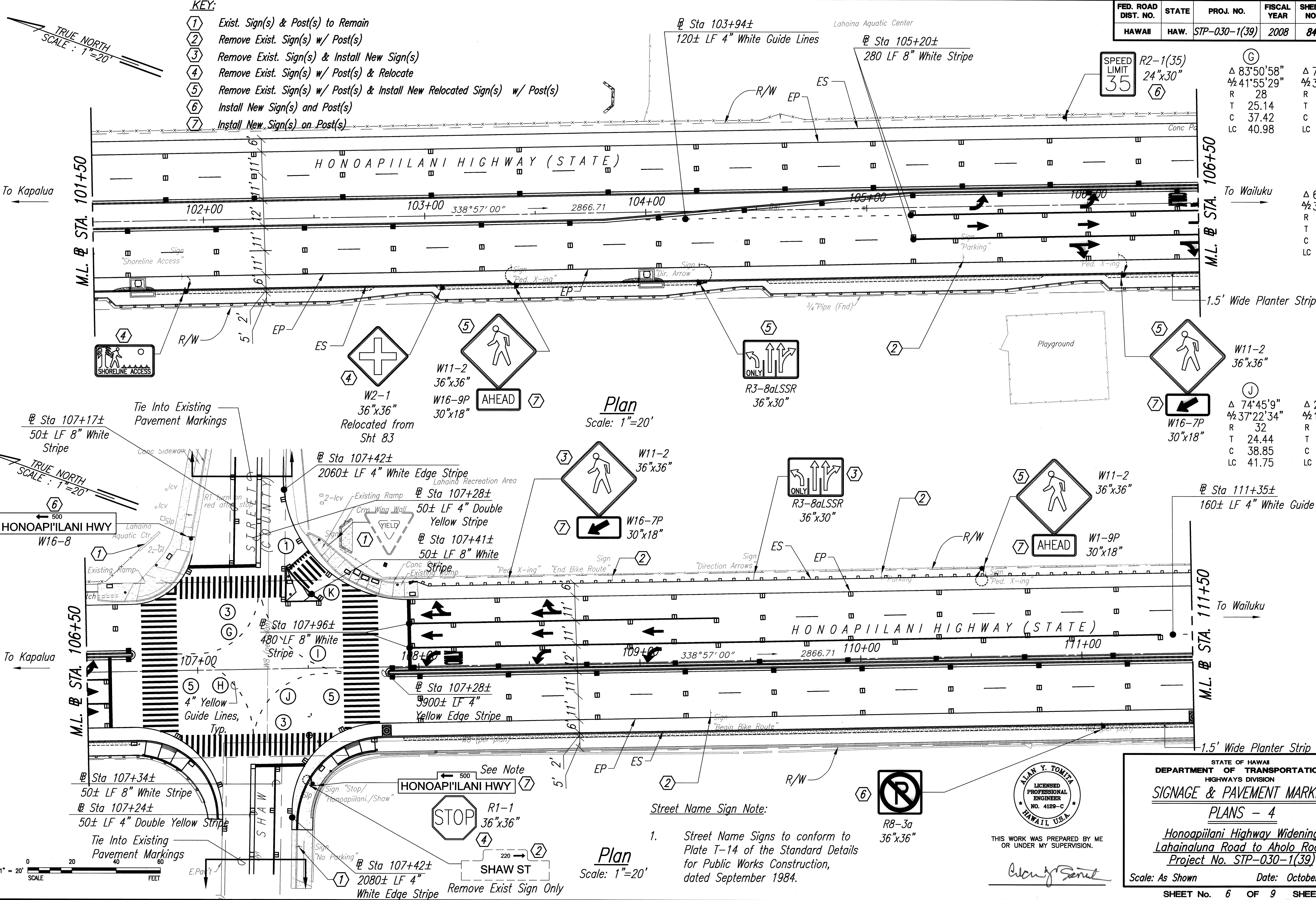
W2-1
36"x36"
See Sht 84
for Relocation

PLOT DATE: 3-29-2008 @ 01:27 pm
 LAST UPDATE: 12-25-2008 @ 04:15 pm
 P:\PROJECTS\030-1(39)\Honoapiilani Highway Widening\Drawings\Plan - Final\14c-Signage and Striping.sht 81-82.dwg

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	84	194

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) w/ Post(s)
 - ③ Remove Exist. Sign(s) & Install New Sign(s)
 - ④ Remove Exist. Sign(s) w/ Post(s) & Relocate
 - ⑤ Remove Exist. Sign(s) w/ Post(s) & Install New Relocated Sign(s) w/ Post(s)
 - ⑥ Install New Sign(s) and Post(s)
 - ⑦ Install New Sign(s) on Post(s)

⑥	Δ 83°50'58"	Δ 76°06'54"
⑥	Δ 41°55'29"	Δ 38°03'27"
R	28	R 38
T	25.14	T 29.75
C	37.42	C 46.85
LC	40.98	LC 50.48
①	Δ 67°11'29"	Δ 33°35'45"
R	44	R 44
T	29.23	T 29.23
C	48.69	C 48.69
LC	51.6	LC 51.6
②	Δ 74°45'9"	Δ 20°50'39"
②	Δ 37°22'34"	Δ 10°25'19"
R	32	R 61.33
T	24.44	T 11.28
C	38.85	C 22.19
LC	41.75	LC 22.31



Plan
Scale: 1"=20'

Plan
Scale: 1"=20'

- Street Name Sign Note:**
- Street Name Signs to conform to Plate T-14 of the Standard Details for Public Works Construction, dated September 1984.

ALAN Y. TOMITA
LICENSED PROFESSIONAL ENGINEER
NO. 4129-C
HAWAII, U.S.A.

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Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE & PAVEMENT MARKING

PLANS - 4

*Honoapi'ilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)*

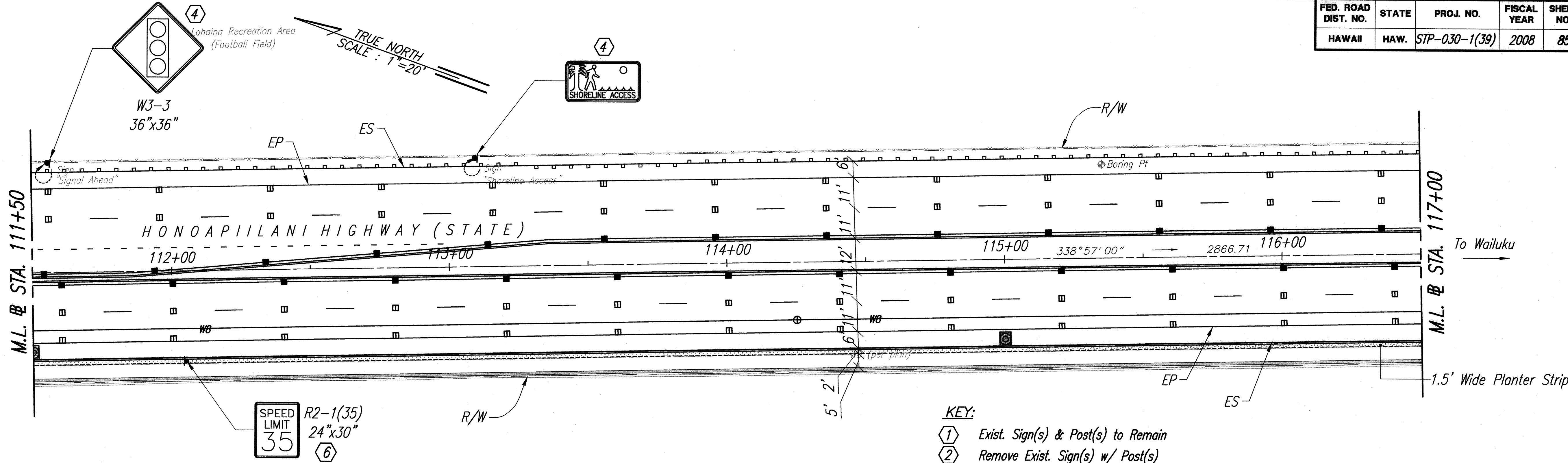
Scale: As Shown Date: October 2008

SHEET No. 6 OF 9 SHEETS

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

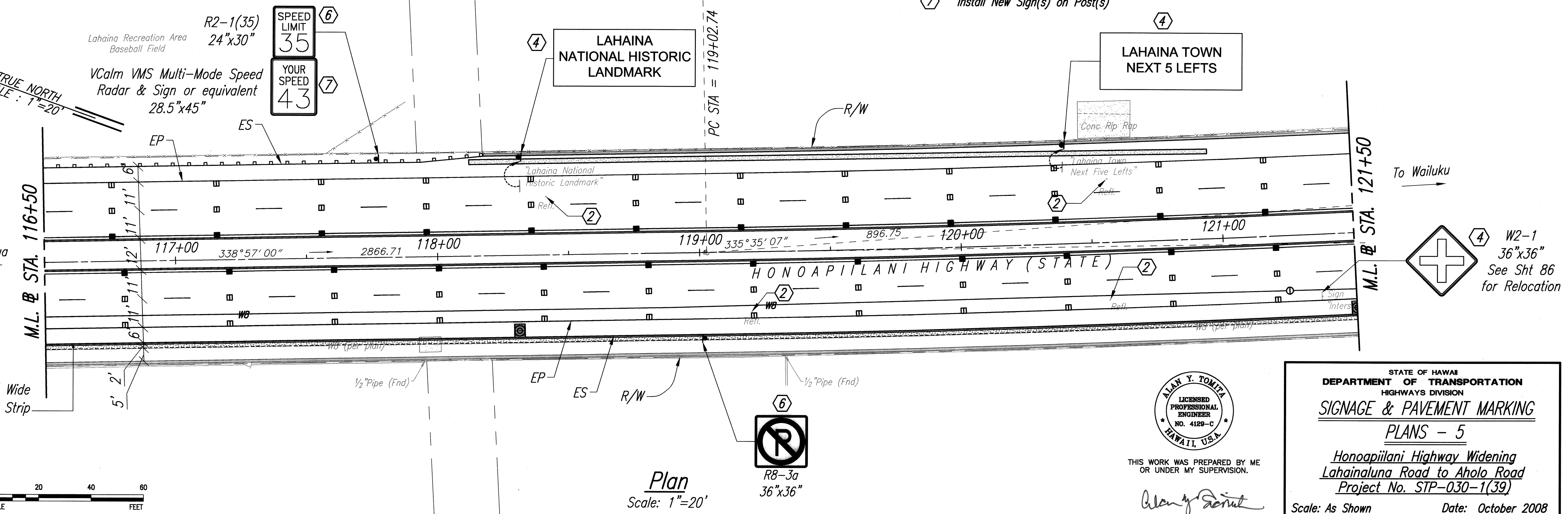
PLOT DATE: 3/29/2008 @ 01:37 pm
 LAST UPDATE: 12/29/2008 @ 04:13 pm
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	85	194

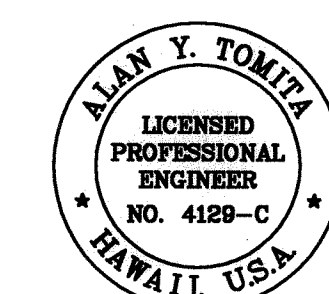


Plan
Scale: 1"=20'

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) w/ Post(s)
 - ③ Remove Exist. Sign(s) & Install New Sign(s)
 - ④ Remove Exist. Sign(s) w/ Post(s) & Relocate
 - ⑤ Remove Exist. Sign(s) w/ Post(s) & Install New Relocated Sign(s) w/ Post(s)
 - ⑥ Install New Sign(s) and Post(s)
 - ⑦ Install New Sign(s) on Post(s)



Plan
Scale: 1"=20'



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Alan Y. Tomita

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE & PAVEMENT MARKING
PLANS - 5

*Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)*

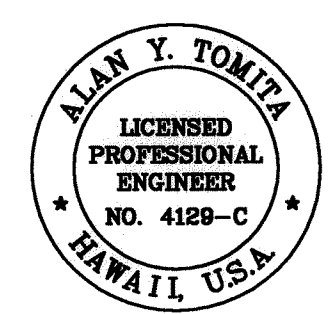
Scale: As Shown Date: October 2008

SHEET No. 7 OF 9 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

PLT DATE: 37-29-2008 @ 01:37 pm
LAST UPDATE: 13-25-2008 @ 04:13 pm
P:\PROJECTS\030-1(39)\Honoapiilani Highway Widening\Signage\Drawings\Plan - Final\14c-Signage and Striping plan 81-57.dwg

(L)	(M)
Δ 87°32'35"	Δ 83°45'36"
½ 43°46'17"	½ 41°52'48"
R 51	R 36.20
T 48.86	T 32.46
C 70.56	C 48.33
LC 77.92	LC 52.92



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Along Street

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNAGE & PAVEMENT MARKING

PLANS - 6

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: October 2008

SHEET No. 8 OF 9 SHEETS

PLOT DATE: 37-29-2008 @ 01:37 pm

LAST UPDATE: 13-25-2008 @ 04:13 pm

PATH/FILENAME: P:\Projects\Dot-Hwy\Honoopiiani Highway Widening\dwg\Working Drawings\Proj. Num Revised 1-22-08 (CIVIL FINAL)\Civil -- Final\14c-Signage and Striping sheets 81-87.dwg

PATH/FILENAME: P:\Projects\Dot-Hwy\Honouliuli Highway Widening\dwg\Working Drawings\Proj. Num Revised 1-22-08 (CML FINAL)\Cml - Fill

PATH/FILENAME: PPATH/FILENAME: PPATH/FILENAME: PPATH/FILENAME: P

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OR UNDER MY SUPERVISION.

Alan G. Smith

SIGNAGE & PAVEMENT MARKING

Honoapiilani Highway Widening

Lahainaluna Road to Aholo Road

Scale: As Shown Date: October 2008

SHEET No. 9 OF 9 SHEETS