


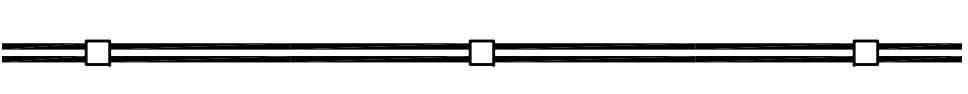
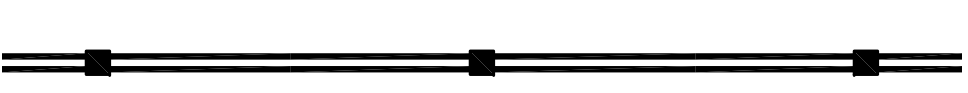


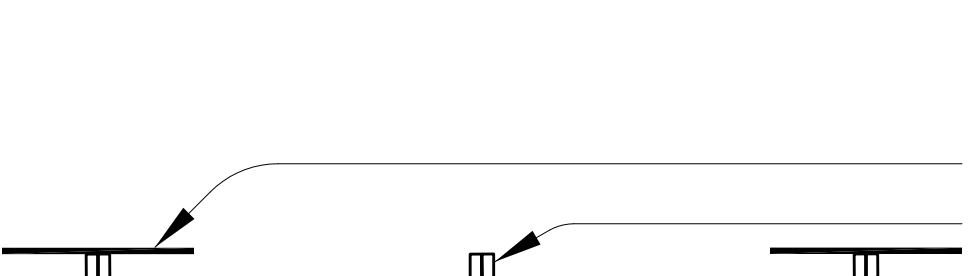

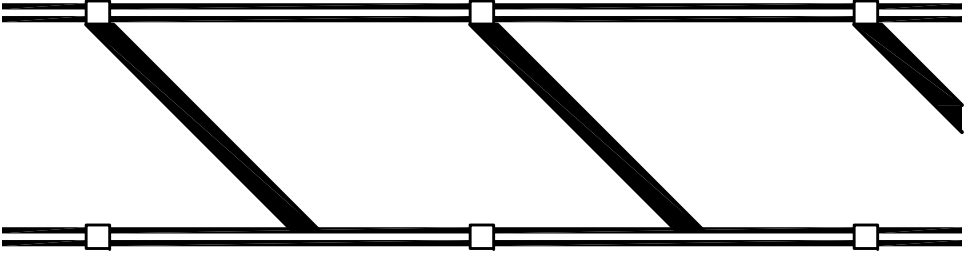
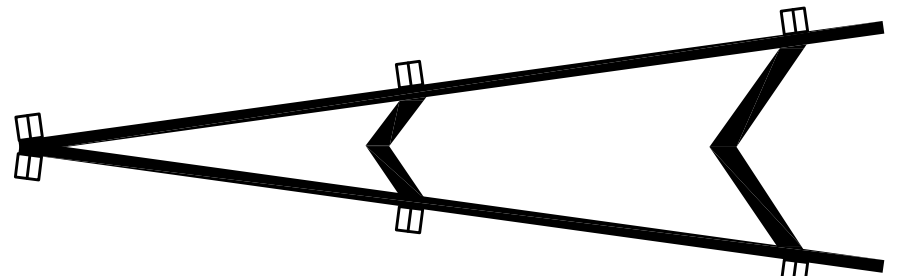
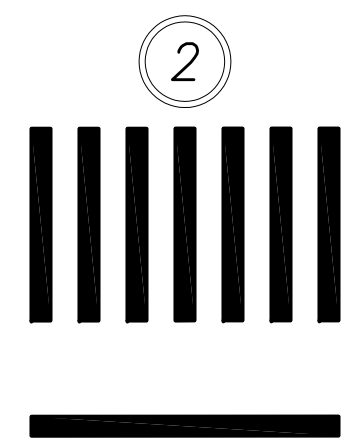


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	87	291

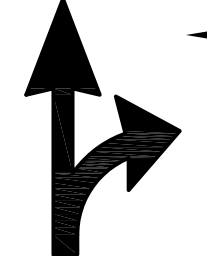



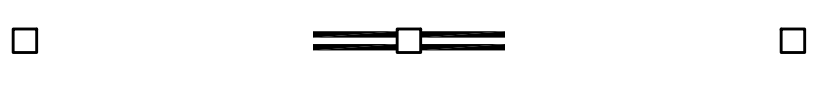


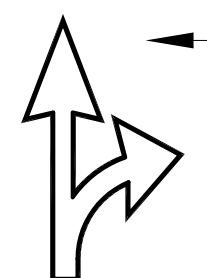
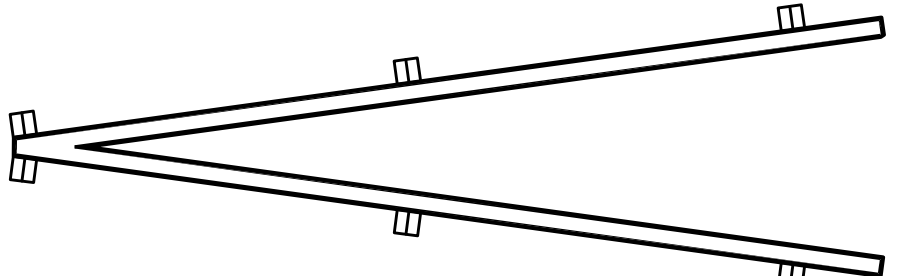
### LEGEND

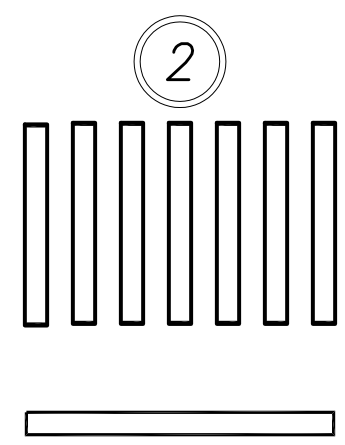
-  10' White Profiled Thermoplastic Stripe
-  Type "C" Raised Pavement Markers @ 40'-0" o.c.
-  8" White Stripe with Type "C" Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow with Type "D" Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Solid Yellow with Type "H" Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  6" Yellow Edge Stripe with Type "H" Raised Pavement Markers @ 40'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  6" or 8" White Edge Stripe with Type "C" Raised Pavement Markers @ 40'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
-  Lane Change Restriction Marking  
10' White Profiled Thermoplastic Stripe  
Type C Raised Pavement Markers @ 20' o.c.
-  4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
-  Transverse Median Marking (Tape, Type III or Thermoplastic Extrusion)
-  Channelizing Island or Deceleration Lane Gore (Tape, Type III or Thermoplastic Extrusion)



Crosswalk and Stop Line. All stop lines shall be 10'-0" from crosswalk unless otherwise noted. The number indicates the number of lanes for payment. (Tape, Type III or Preformed Thermoplastic)

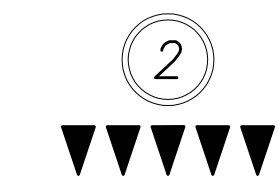
### LEGEND (continued)

-  Pavement Arrow (Tape, Type III or Preformed Thermoplastic)
-  ONLY Pavement Word (Tape, Type III or Preformed Thermoplastic)
-  4" White or Yellow Guide Lines (Tape, Type I or Thermoplastic Extrusion)
-  8" White Guide Lines (Tape, Type I or Thermoplastic Extrusion)
-  4" Double Yellow Stripe 10'-0" Long at 40' o.c. (Tape, Type I or Thermoplastic Extrusion) with Type "D" Raised Pavement Markers @ 20'-0" o.c.
-  8" White Stripe with 1-1/2" black border (Preformed Thermoplastic) on P.C.C. Pavement with Type "C" Raised Pavement Markers @ 20'-0" o.c.
-  6" White Edge Stripe with 1-1/2" black border (Preformed Thermoplastic) on P.C.C. Pavement with Type "C" Raised Pavement Markers @ 40'-0" o.c.
-  Pavement Arrow with 1-1/2" black border (Preformed Thermoplastic) on P.C.C. Pavement
-  Channelizing Island with 1-1/2" black border (Preformed Thermoplastic) on P.C.C. Pavement

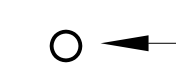


Crosswalk and Stop Line with 1-1/2" black border (Preformed Thermoplastic). All stop lines shall be 10'-0" from crosswalk unless otherwise noted. The number indicates the number of lanes for payment.

### LEGEND (continued)



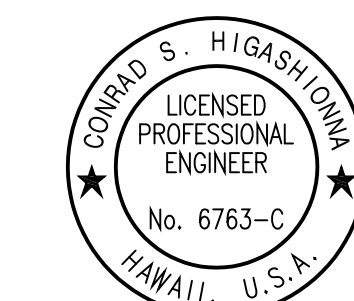
Yield Line. The number indicates the number of lanes for payment. (Tape, Type III or Preformed Thermoplastic)



RM-2 Reflector Marker w/ Flexible Delineator Post

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

New 18, 2020-01-18  
M:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\087-Striping Legend.dwg



License Expiration Date: 04-30-22  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION AS DEFINED IN HAWAII TITLE 16, CHAPTER 115, RULES OF THE BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS, STATE OF HAWAII.  
*Conrad Higashimura*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

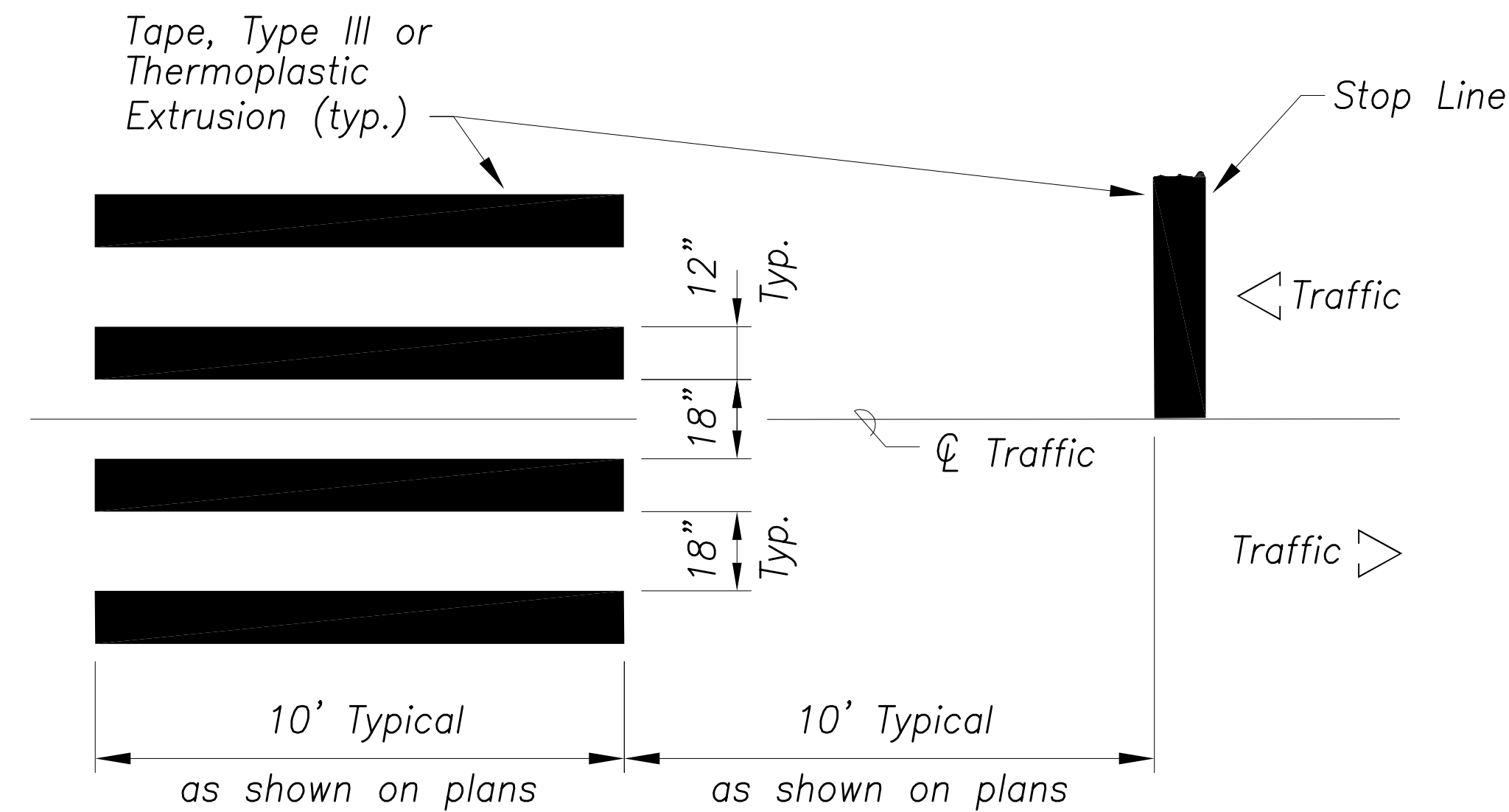
## STRIPING LEGEND

Traffic Signal Modernization, Oahu, Phase 1  
Federal-Aid Project No. STP-0300(163)R  
Scale: As shown Date: Oct. 2020  
SHEET No. R-66 OF 81 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	88R	291

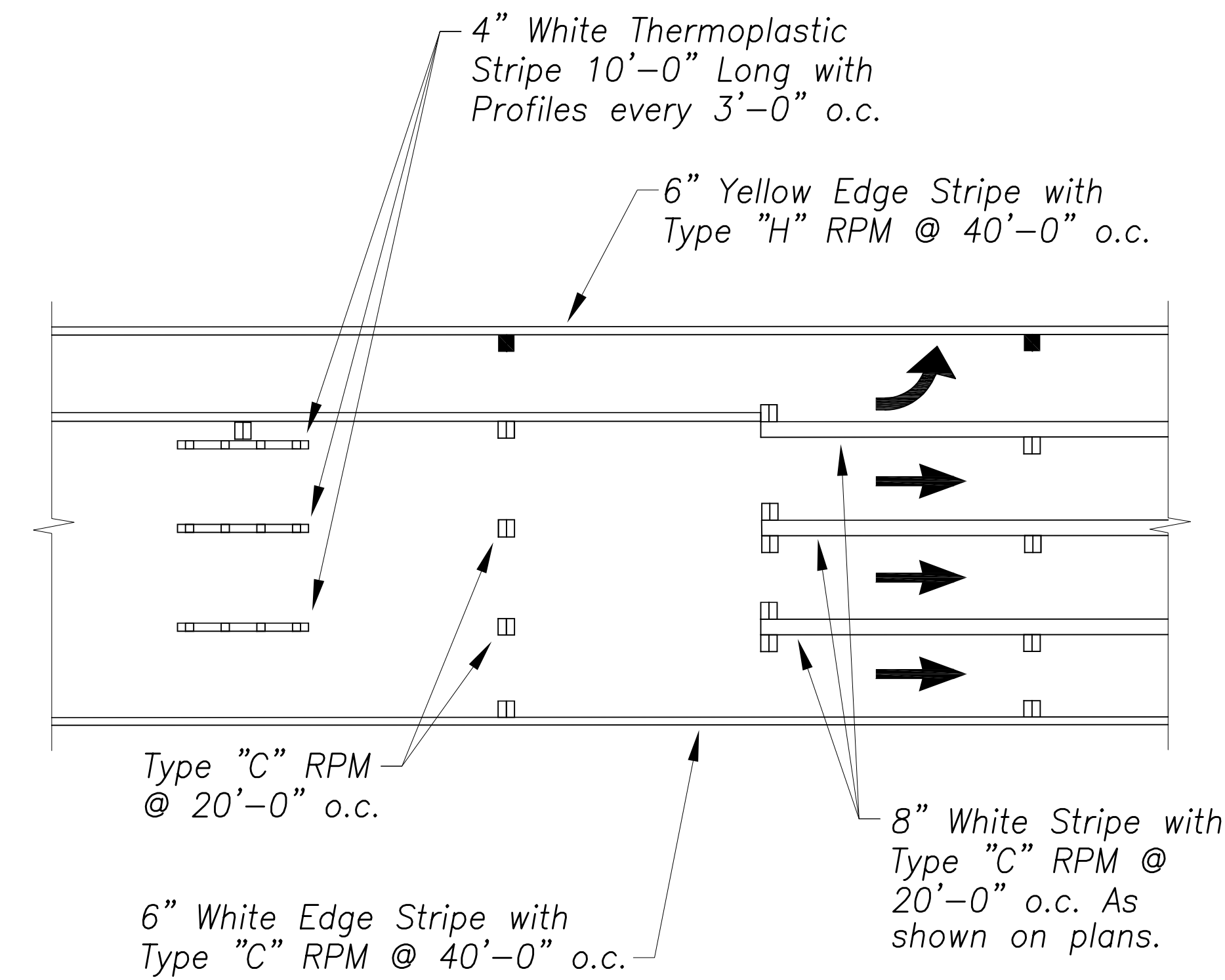
**Notes:**

- 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 applications.
- All pedestrian warning signs with supplemental sign shall be on a fluorescent yellow-green retroreflective background with a black legend and border.
- The Contractor shall install preformed thermoplastic pavement markings with a black border on Portland Cement Concrete (PCC) pavement as shown on sheets 94 and 95.
- The Contractor shall install preformed thermoplastic pavement markings per the manufacturer's recommendations.



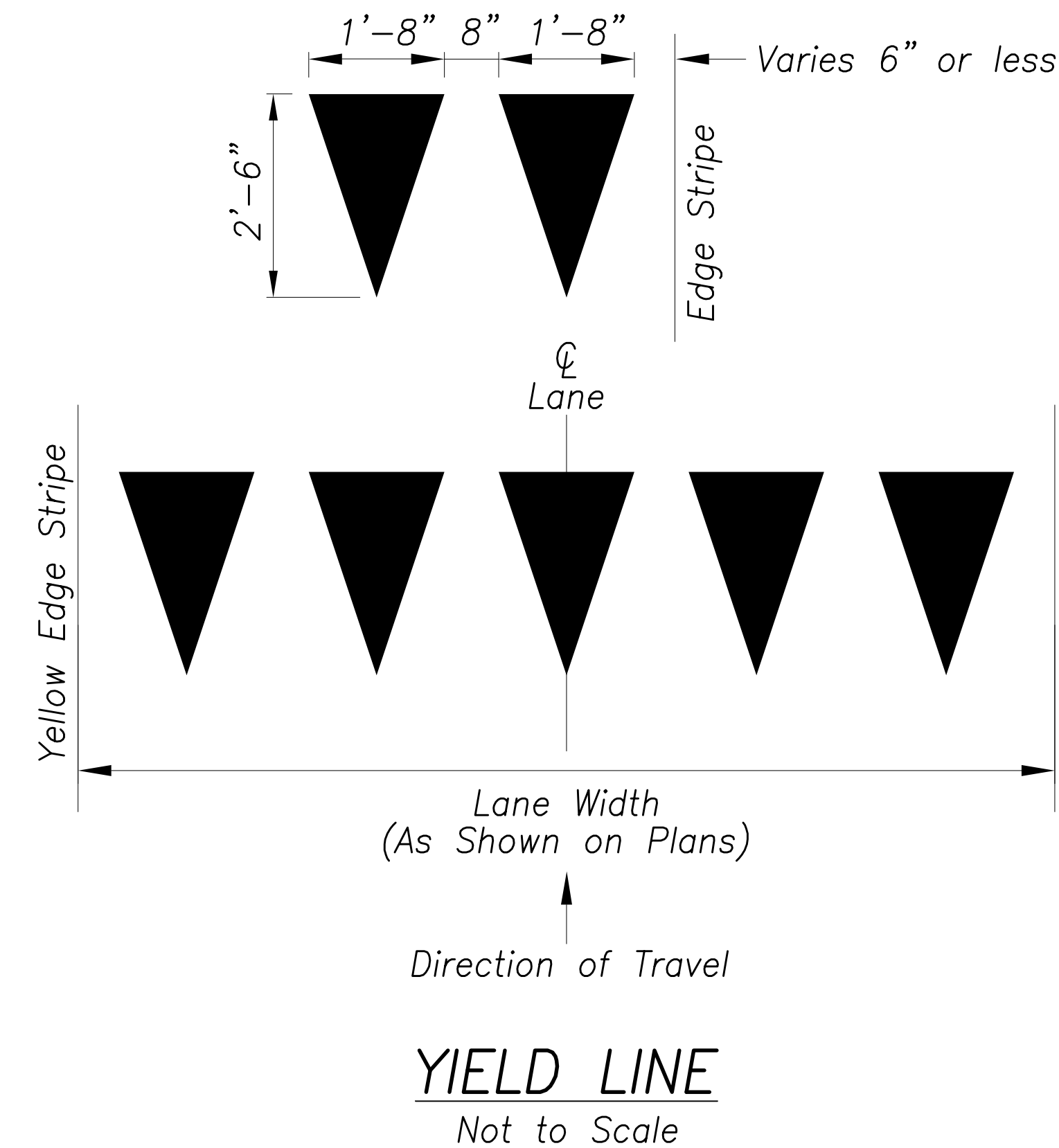
**CROSSWALK STRIPING DETAIL**

Not to Scale



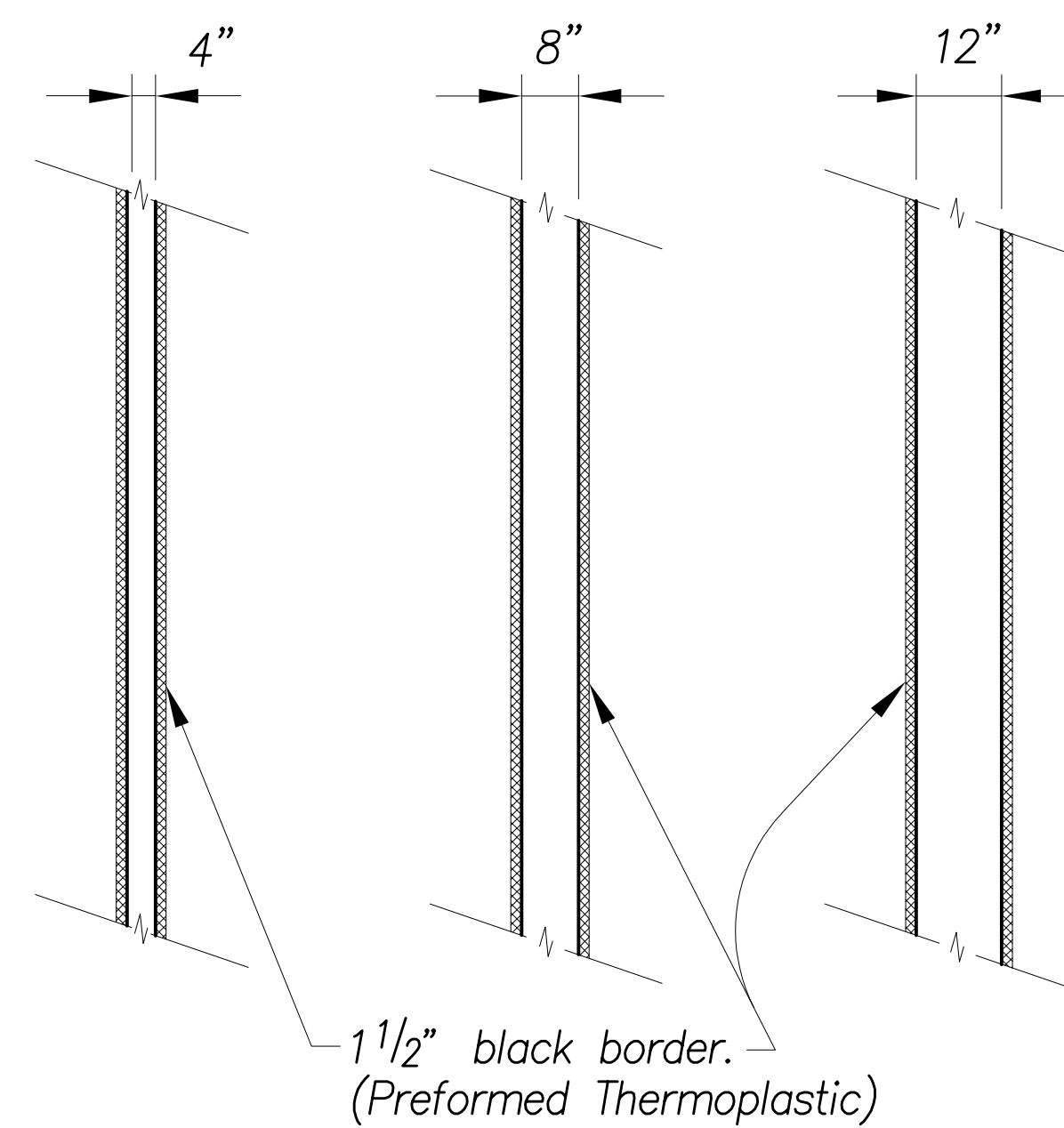
**LANE LINE PAVEMENT MARKINGS**

No Scale



**YIELD LINE**

Not to Scale

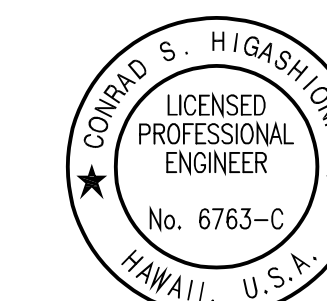


**4", 8" & 12" WHITE STRIPE ON P.C.C. PAVEMENT**

Not to Scale

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

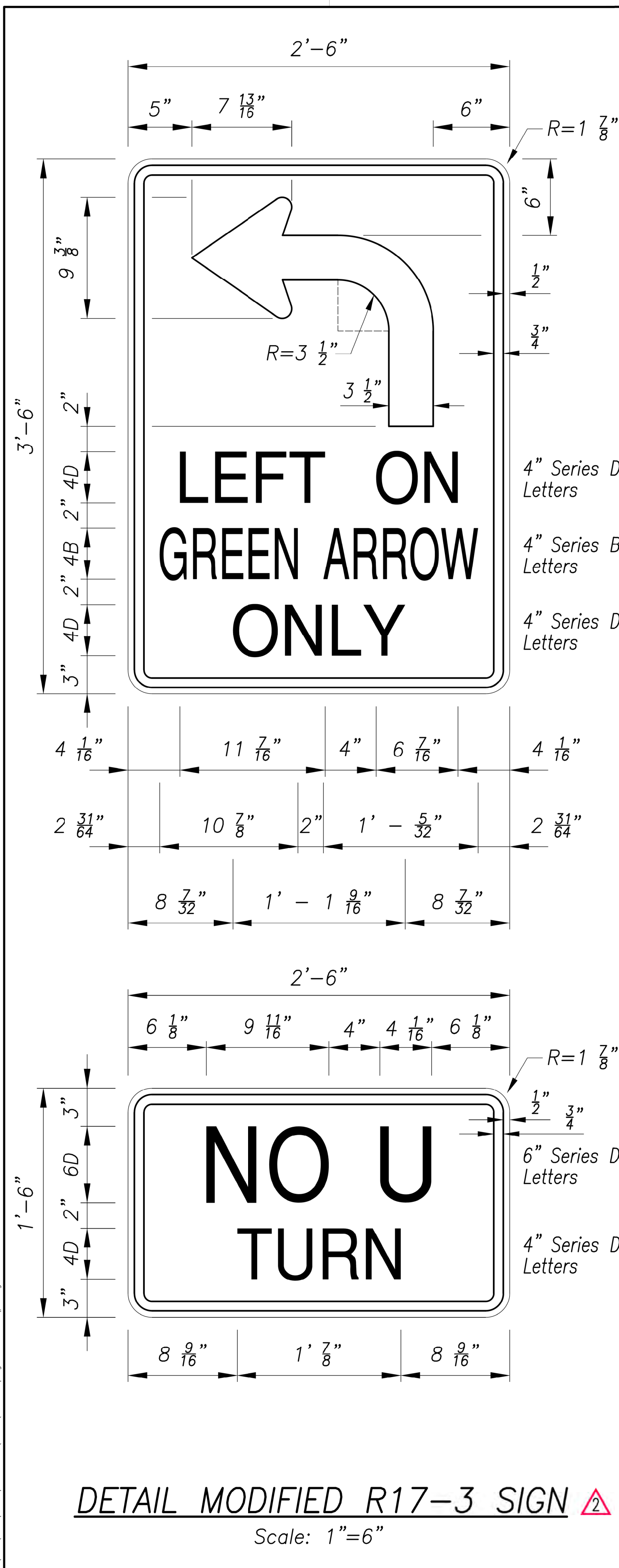
Dec 09, 2020 - 1:15pm  
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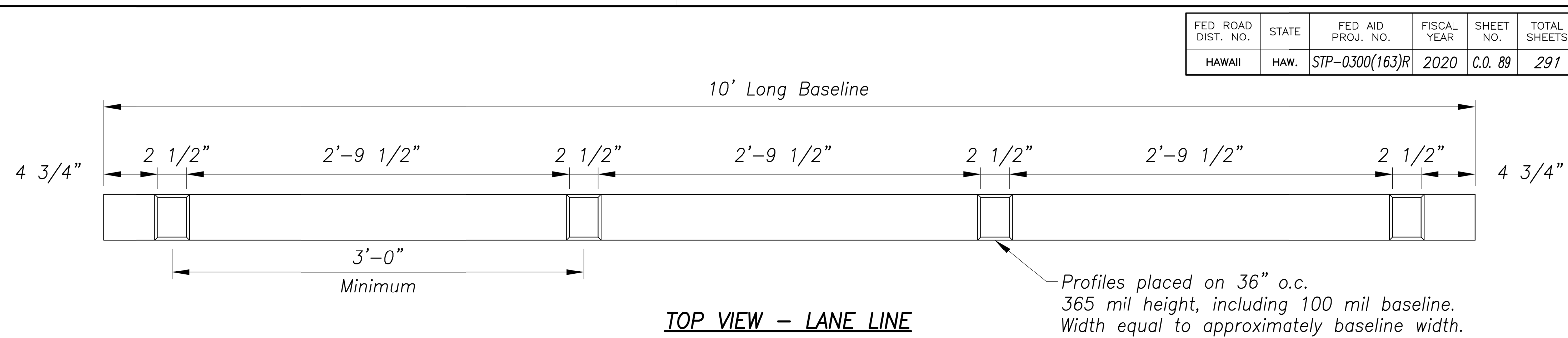
License Expiration Date: 04-30-22  
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 Conrad Higashimura

12/09/20	Revised Note 10.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>STRIPING NOTES &amp; DETAILS</b>	
<i>Traffic Signal Modernization, Oahu, Phase 1</i> Federal-Aid Project No. STP-0300(163)R Scale: As shown Date: Oct. 2020 SHEET No. R-67 OF 81 SHEETS	

FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	C.O. 89	291

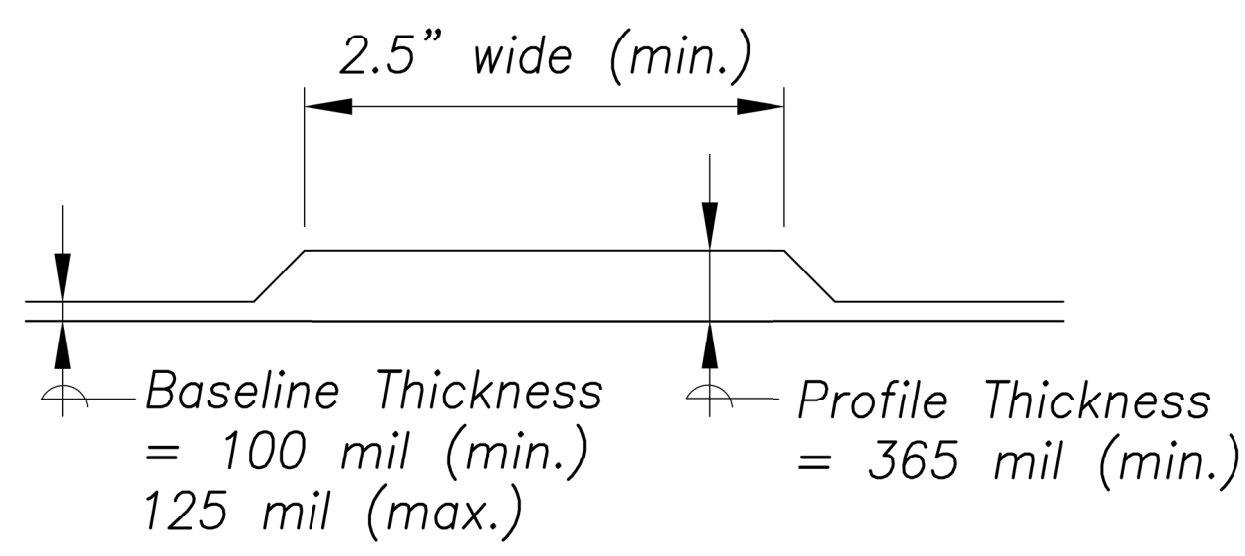


**DETAIL MODIFIED R17-3 SIGN**   
 Scale: 1"=6"

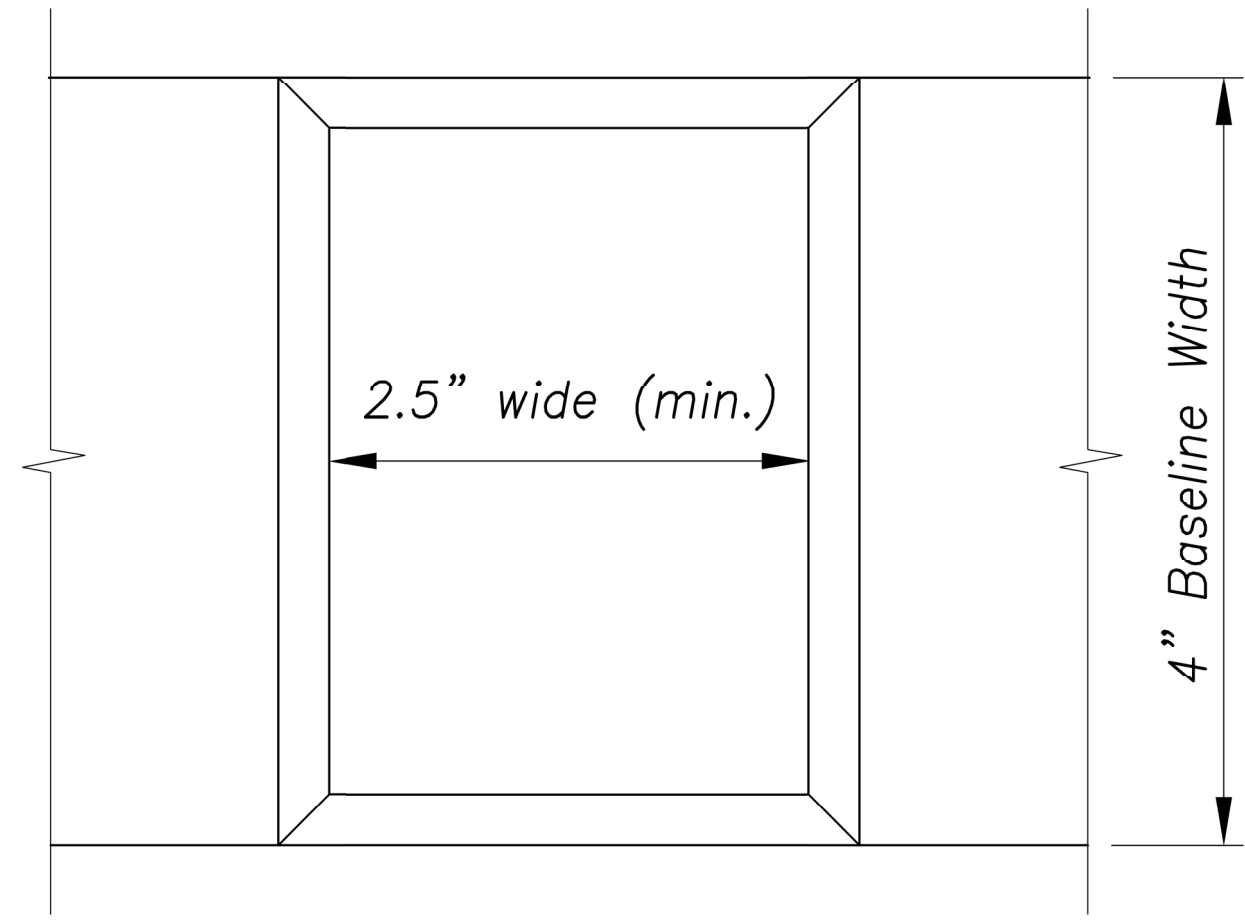


**TOP VIEW - LANE LINE**

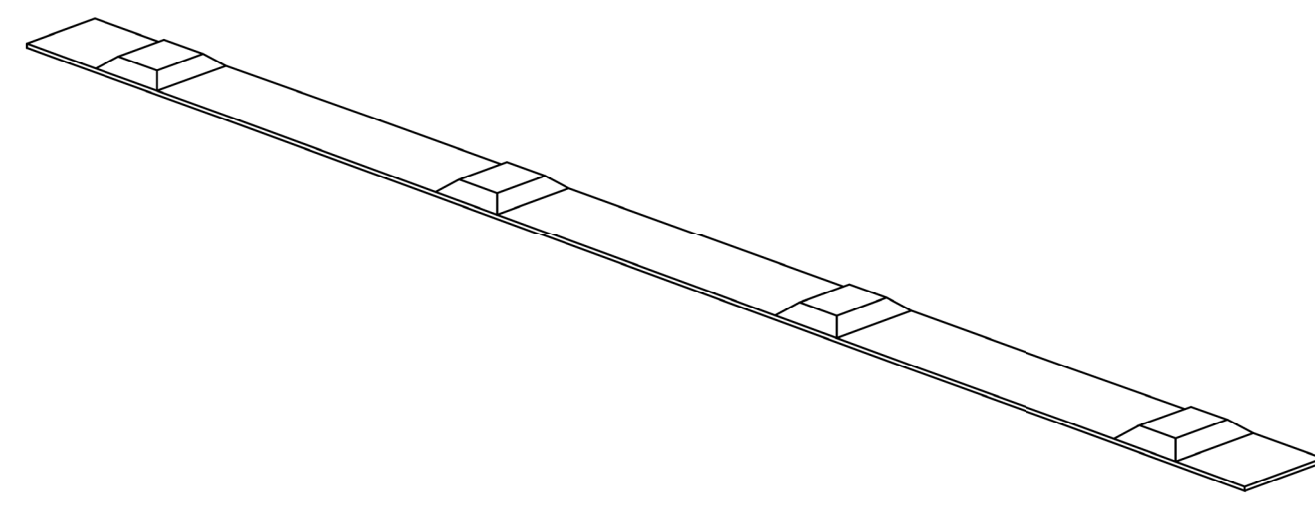
Profiles placed on 36" o.c.  
365 mil height, including 100 mil baseline.  
Width equal to approximately baseline width.



**PROFILES - SIDE VIEW**



**PROFILES - TOP VIEW**



**PERSPECTIVE VIEW - LANE LINE**

**Notes:**

1. The thermoplastic material shall be a alkyd-based compound formulated for profiled pavement marking. See specifications subsection 629.03 for additional requirements.
2. The Engineer will include the longitudinal gaps for skip striping, up to thirty (30) feet long, in the measurement for payment.
3. Install white profiled thermoplastic stripes as lane line.
4. Install yellow profiled thermoplastic stripes for centerline passing zone.
5. In areas with centerline milled rumble strips, install standard yellow thermoplastic stripes without raised profiles.

**PROFILED THERMOPLASTIC STRIPING**

No Scale

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

Nov 12, 2021 11:51:12 TSM\FINAL\089 Striping Details PC12.dwg

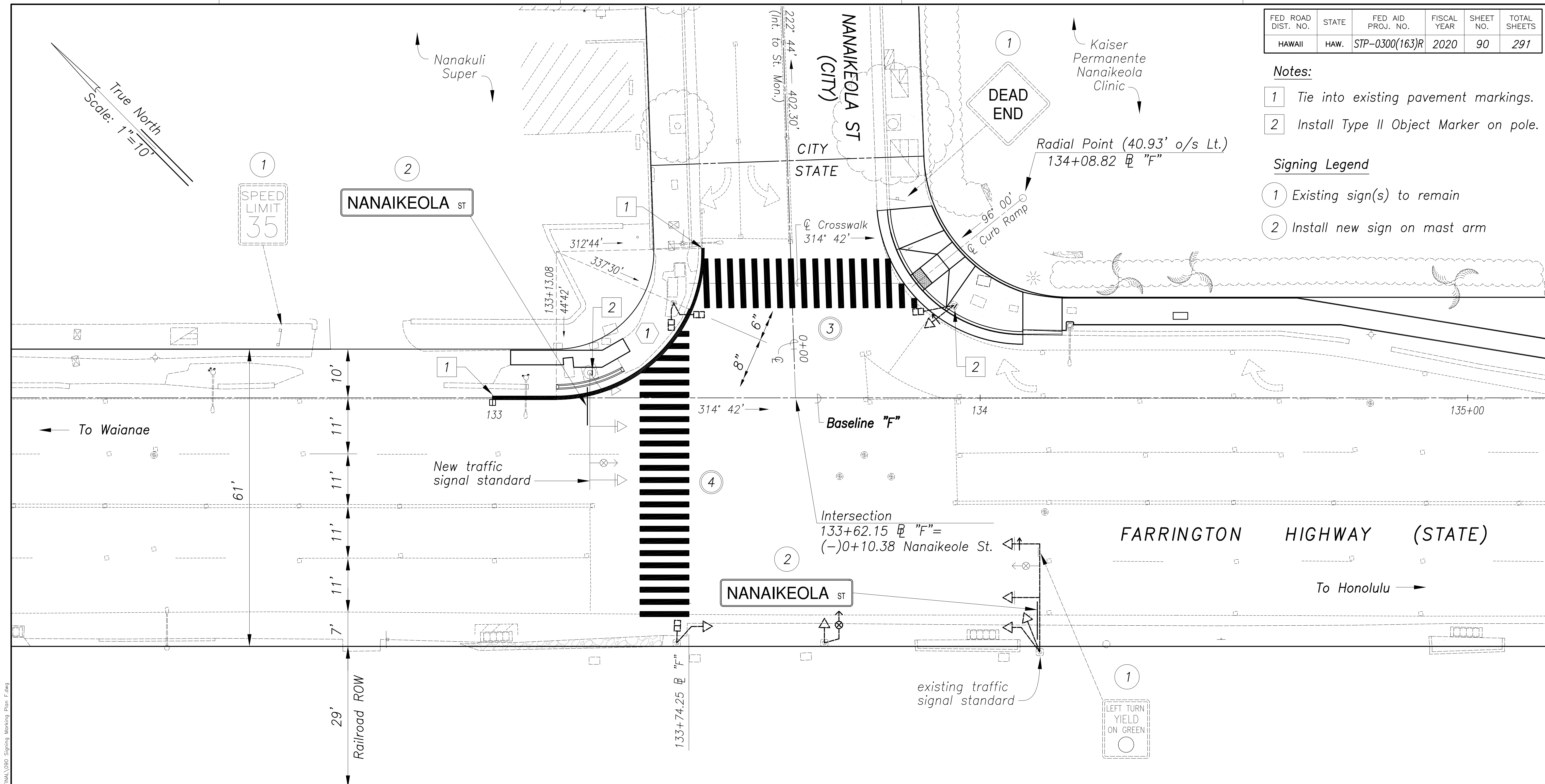


License Expiration Date: 04-30-22  
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*Conrad Higashimura*

11-12-2021	Added details for Modified R17-3 sign.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>STRIPING DETAILS</b>	
Traffic Signal Modernization, Oahu, Phase 1 Federal-Aid Project No. STP-0300(163)R	
Scale: As shown	Date: Oct. 2020
SHEET No. R-68 OF 81 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	90	291

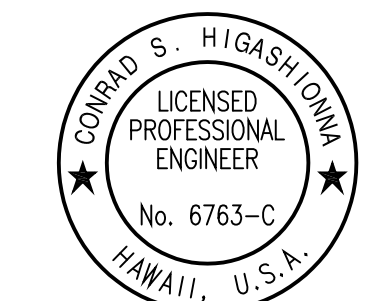
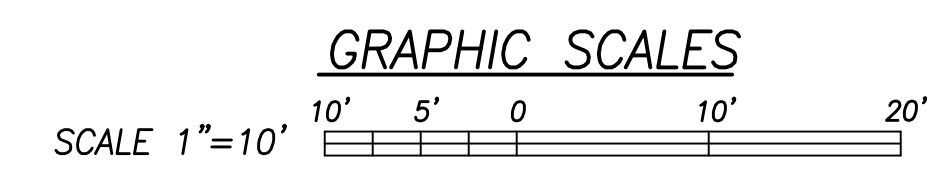
- Notes:**
- 1 Tie into existing pavement markings.
  - 2 Install Type II Object Marker on pole.
- Signing Legend**
- 1 Existing sign(s) to remain
  - 2 Install new sign on mast arm



Curve Data	
	1
$\Delta$	91° 58' 00"
$\Delta/2$	45° 59' 00"
R	30.00'
T	30.68'
Ch	42.90'
Lc	47.80'

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

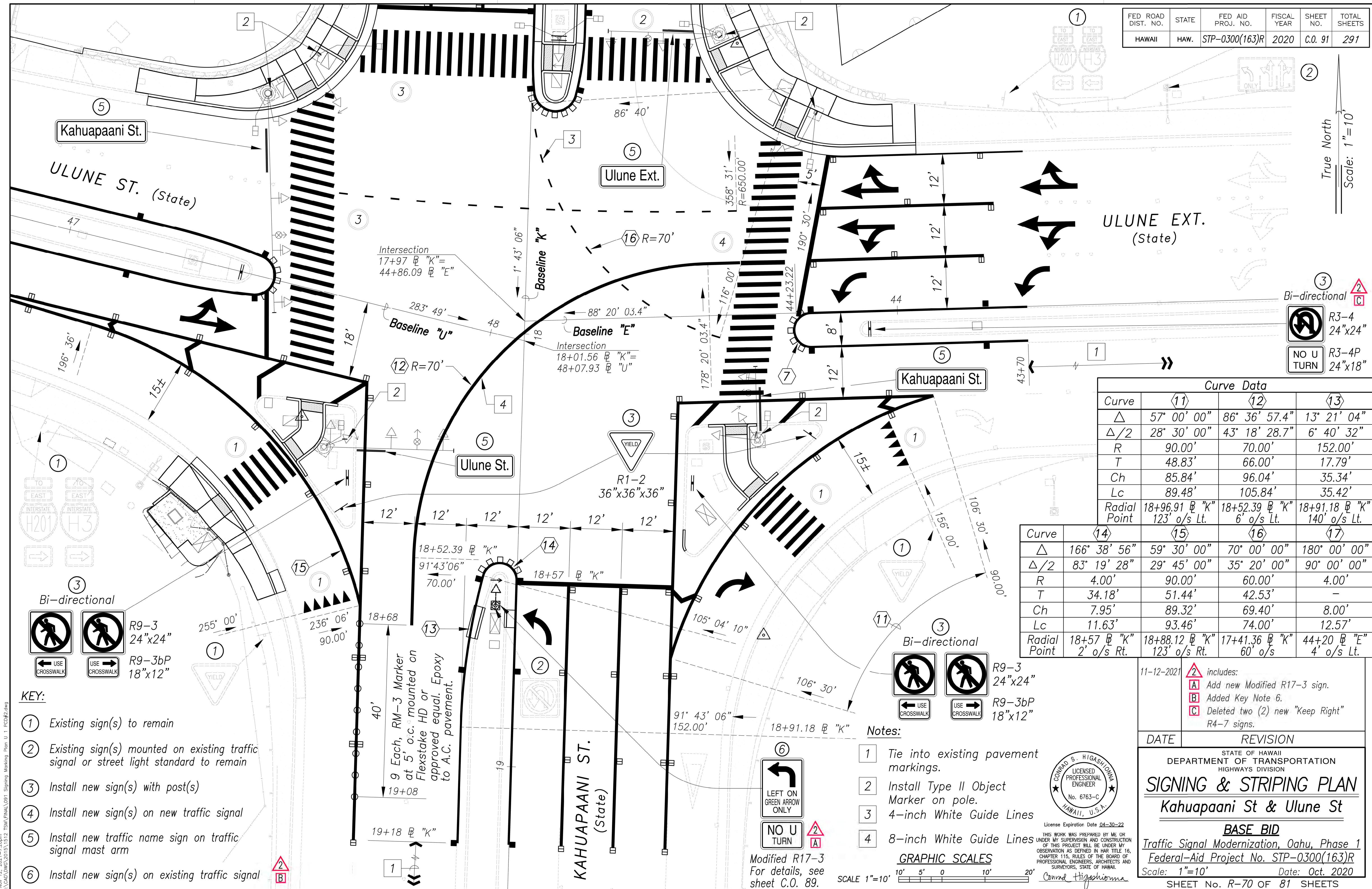
Nov 19, 2020 - 11:28am  
 N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\090 Signing Marking Plan F.dwg



License Expiration Date 04-30-22  
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 Conrad Higashi

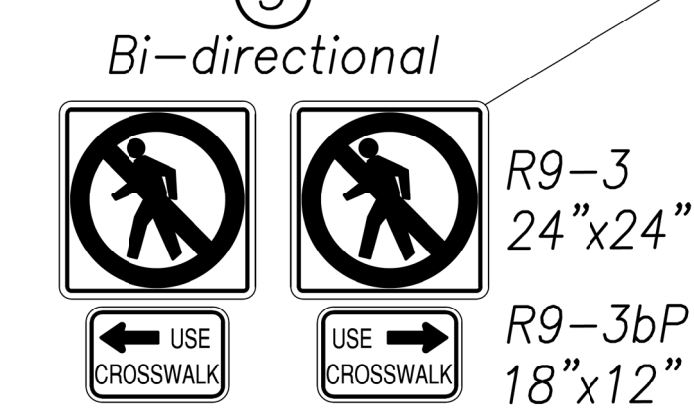
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & STRIPING PLAN**  
**Farrington Hwy & Nanaikeola St**  
**BASE BID**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: 1"=10' Date: Oct. 2020  
 SHEET No. R-69 OF 81 SHEETS

FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	C.O. 91	291



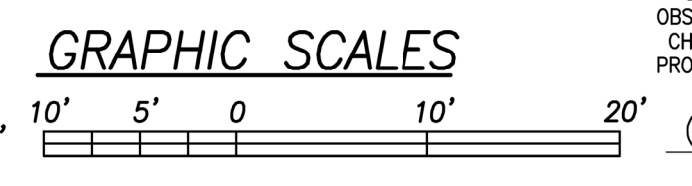
Curve	(1)	(12)	(13)
$\Delta$	57° 00' 00"	86° 36' 57.4"	13° 21' 04"
$\Delta/2$	28° 30' 00"	43° 18' 28.7"	6° 40' 32"
R	90.00'	70.00'	152.00'
T	48.83'	66.00'	17.79'
Ch	85.84'	96.04'	35.34'
Lc	89.48'	105.84'	35.42'
Radial Point	18+96.91 @ "K" 123' o/s Lt.	18+52.39 @ "K" 6' o/s Lt.	18+91.18 @ "K" 140' o/s Lt.

Curve	(14)	(15)	(16)	(17)
$\Delta$	166° 38' 56"	59° 30' 00"	70° 00' 00"	180° 00' 00"
$\Delta/2$	83° 19' 28"	29° 45' 00"	35° 20' 00"	90° 00' 00"
R	4.00'	90.00'	60.00'	4.00'
T	34.18'	51.44'	42.53'	-
Ch	7.95'	89.32'	69.40'	8.00'
Lc	11.63'	93.46'	74.00'	12.57'
Radial Point	18+57 @ "K" 2' o/s Rt.	18+88.12 @ "K" 123' o/s Rt.	17+41.36 @ "K" 60' o/s	44+20 @ "E" 4' o/s Lt.



- KEY:**
- ① Existing sign(s) to remain
  - ② Existing sign(s) mounted on existing traffic signal or street light standard to remain
  - ③ Install new sign(s) with post(s)
  - ④ Install new sign(s) on new traffic signal
  - ⑤ Install new traffic name sign on traffic signal mast arm
  - ⑥ Install new sign(s) on existing traffic signal

- Notes:**
- 1 Tie into existing pavement markings.
  - 2 Install Type II Object Marker on pole.
  - 3 4-inch White Guide Lines
  - 4 8-inch White Guide Lines



11-12-2021	② includes:
	① Add new Modified R17-3 sign.
	② Added Key Note 6.
	③ Deleted two (2) new "Keep Right" R4-7 signs.

DATE: 11-12-2021 REVISION:

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & STRIPING PLAN**  
**Kahuapaani St & Ulune St**

BASE BID  
Traffic Signal Modernization, Oahu, Phase 1  
Federal-Aid Project No. STP-0300(163)R  
Scale: 1"=10' Date: Oct. 2020  
SHEET No. R-70 OF 81 SHEETS

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

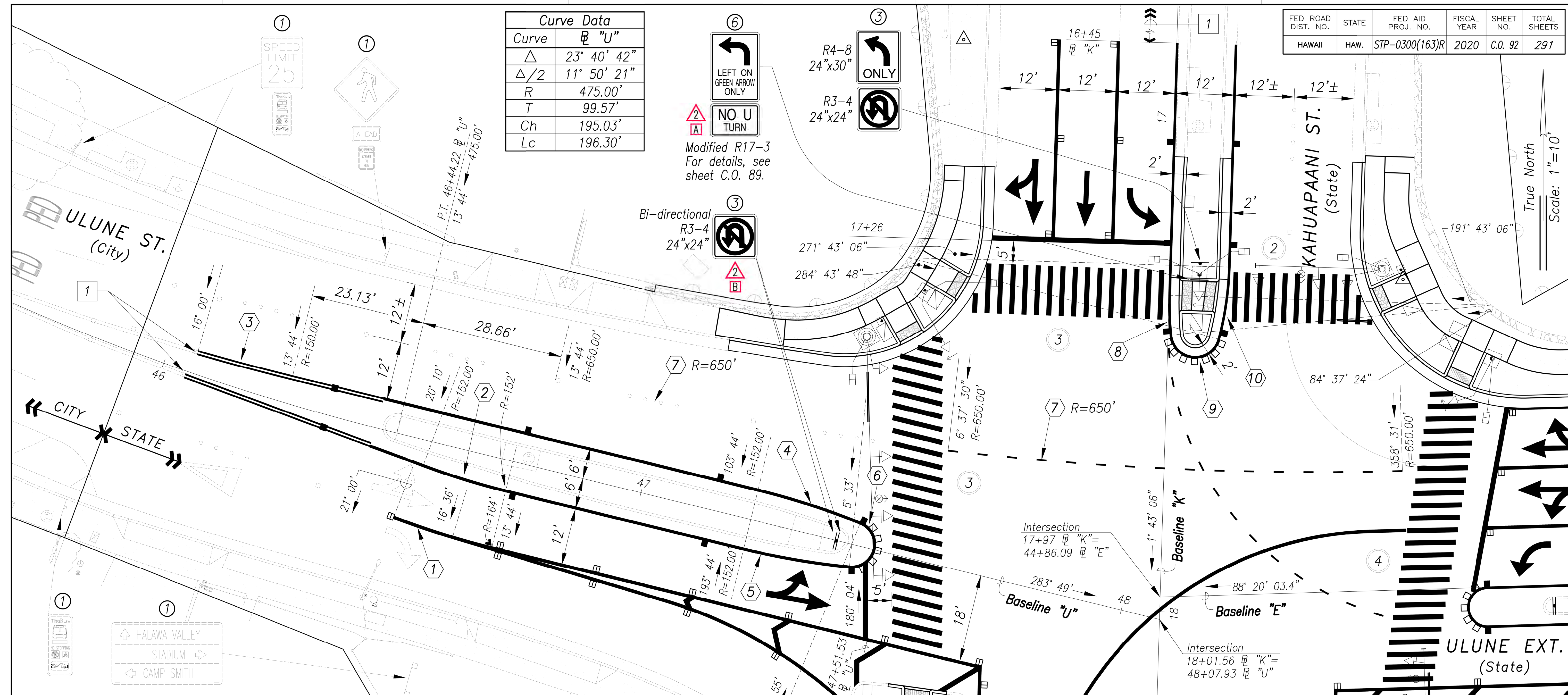
Nov 12, 2021 - 12:00pm  
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For Construction 2021-11-12

C.O. 91

FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	C.O. 92	291

Curve Data	
Curve	U
$\Delta$	23° 40' 42"
$\Delta/2$	11° 50' 21"
R	475.00'
T	99.57'
Ch	195.03'
Lc	196.30'



Curve Data					
Curve	1	2	3	4	5
$\Delta$	7° 16' 00"	6° 26' 00"	2° 16' 00"	8° 11' 00"	8° 11' 00"
$\Delta/2$	3° 38' 00"	3° 13' 00"	1° 08' 00"	4° 05' 30"	4° 05' 30"
R	164.00'	152.00'	500.00'	152.00'	152.00'
T	10.41'	8.54'	9.89'	10.87'	10.87'
Ch	20.79'	17.06'	19.78'	21.69'	21.69'
Lc	20.80'	17.07'	19.78'	21.71'	21.71'
Radial Point	46+73.39 @ "U" 146' o/s Lt.	46+73.39 @ "U" 146' o/s Lt.		47+22.88 @ "U" 146' o/s Rt.	47+22.88 @ "U" 146' o/s Lt.
Curve	6	7	8	9	10
$\Delta$	163° 38' 00"	15° 13' 00"	7° 06' 42"	159° 53' 36"	13° 00' 42"
$\Delta/2$	81° 49' 00"	7° 36' 30"	3° 33' 21"	79° 56' 48"	6° 30' 21"
R	4.50'	650.00'	65.00'	5.00'	65.00'
T	31.28'	86.82'	4.03'	28.20'	7.41'
Ch	8.90'	172.12'	8.04'	9.85'	14.73'
Lc	12.85'	172.63'	8.05'	13.95'	14.76'
Radial Point	47+43.88 @ "U" 0' o/s	44+34.36 @ "E" 674' o/s Rt.	17+29.96 @ "K" 53' o/s Rt.	17+36.06 @ "K" 65' o/s Lt.	17+43.47 @ "K" 5.46' o/s Lt.

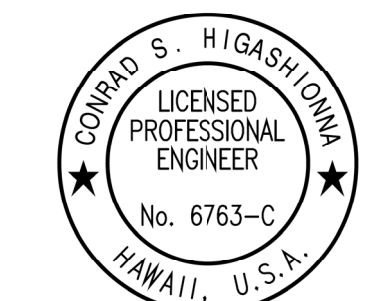
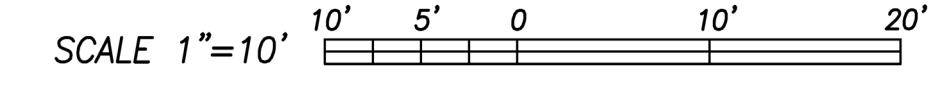
**Notes:**

- 1 Tie into existing pavement markings.

**KEY:**

- 1 Existing sign(s) to remain
- 2 Existing sign(s) mounted on existing traffic signal or street light standard to remain
- 3 Install new sign(s) with post(s)
- 4 Install new sign(s) on new traffic signal
- 5 Install new traffic name sign on traffic signal mast arm
- 6 Install new sign(s) on existing traffic signal

**GRAPHIC SCALES**



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 Conrad Higashimura

DATE	REVISION
11-12-2021	<ul style="list-style-type: none"> <li>A includes:</li> <li>B Add new Modified R17-3 sign.</li> <li>C Added Key Note 6.</li> <li>D Deleted two (2) new "Keep Right" R4-7 signs.</li> </ul>

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**SIGNING & STRIPING PLAN**  
**Kahupaani St & Ulune St**

**BASE BID**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: 1"=10' Date: Oct. 2020  
 SHEET No. R-71 OF 81 SHEETS

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

Nov 12, 2021 - 2:18pm  
 M:\CAD\DWG\2015\1512\_TSM\FINAL\092\_Signing\_Markings\_Plan\_U\_2\_PCD.dwg

For Construction 2021-11-12

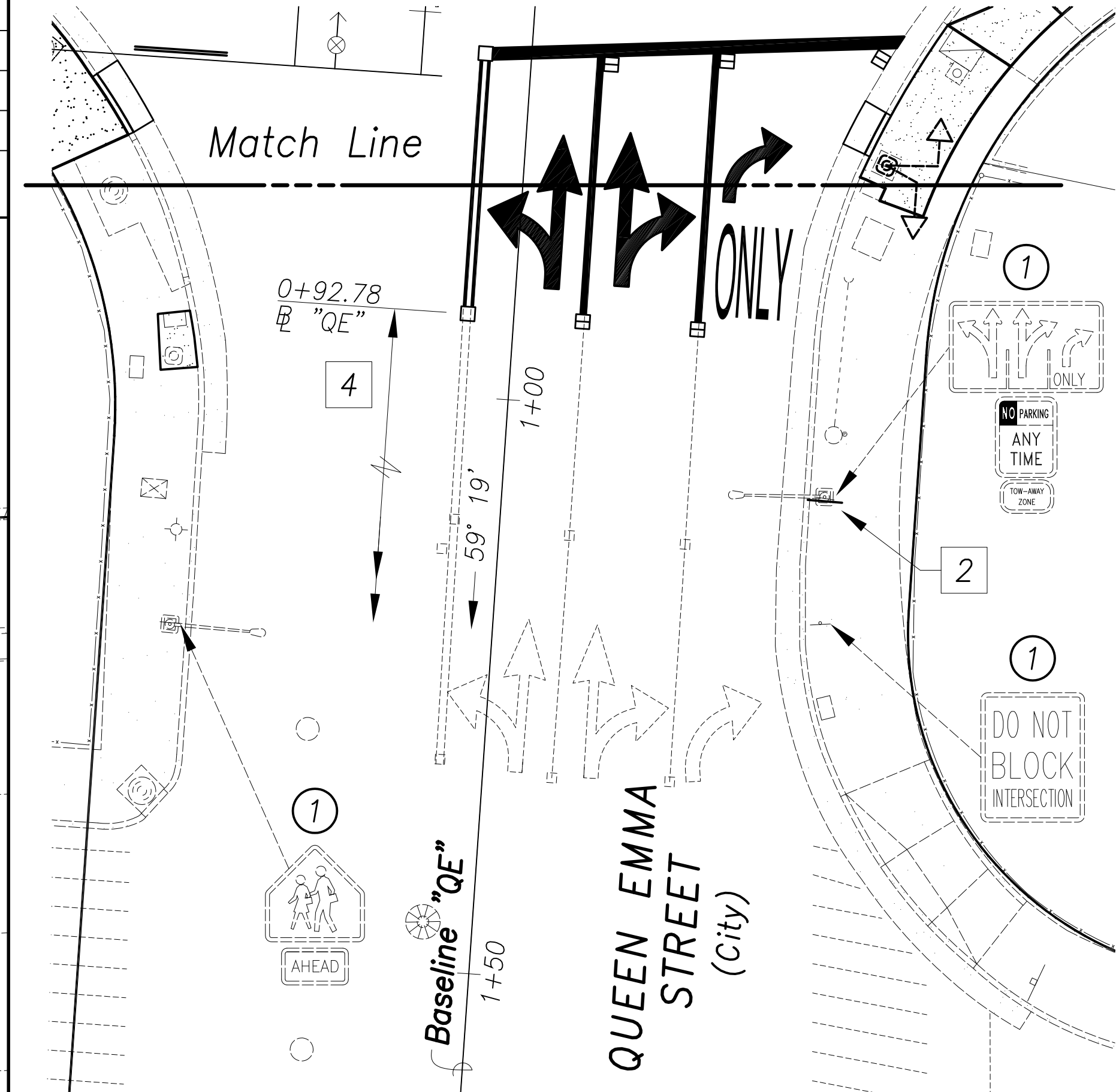
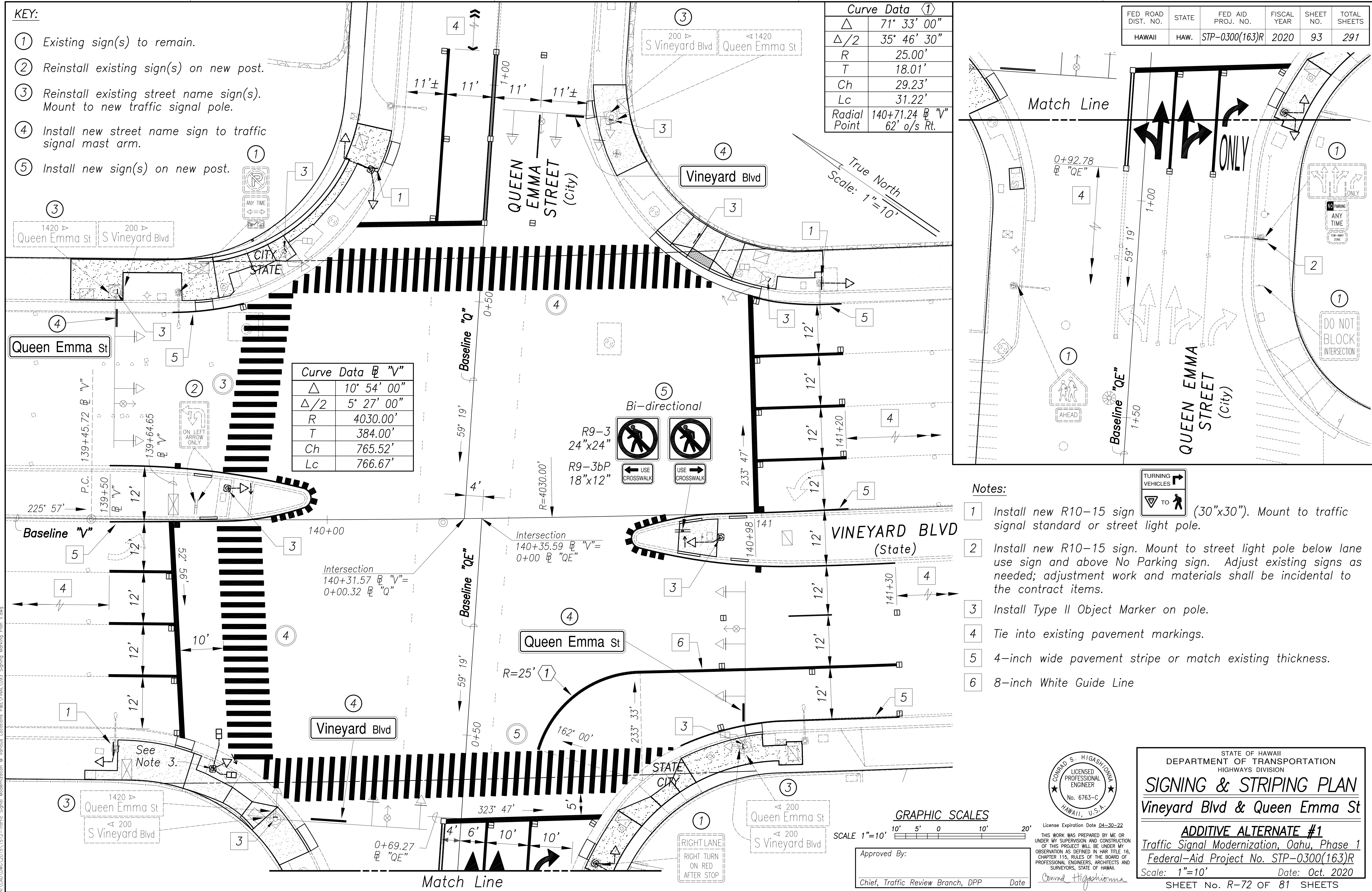
C.O. 92

**KEY:**

- ① Existing sign(s) to remain.
- ② Reinstall existing sign(s) on new post.
- ③ Reinstall existing street name sign(s). Mount to new traffic signal pole.
- ④ Install new street name sign to traffic signal mast arm.
- ⑤ Install new sign(s) on new post.

Curve Data ①	
$\Delta$	71° 33' 00"
$\Delta/2$	35° 46' 30"
R	25.00'
T	18.01'
Ch	29.23'
Lc	31.22'
Radial Point	140+71.24 @ "V" 62' o/s Rt.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	93	291



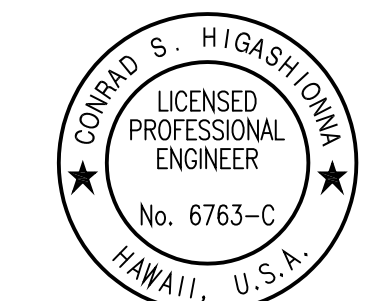
Curve Data @ "V"	
$\Delta$	10° 54' 00"
$\Delta/2$	5° 27' 00"
R	4030.00'
T	384.00'
Ch	765.52'
Lc	766.67'

**Notes:**

- 1 Install new R10-15 sign (30"x30"). Mount to traffic signal standard or street light pole.
- 2 Install new R10-15 sign. Mount to street light pole below lane use sign and above No Parking sign. Adjust existing signs as needed; adjustment work and materials shall be incidental to the contract items.
- 3 Install Type II Object Marker on pole.
- 4 Tie into existing pavement markings.
- 5 4-inch wide pavement stripe or match existing thickness.
- 6 8-inch White Guide Line

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

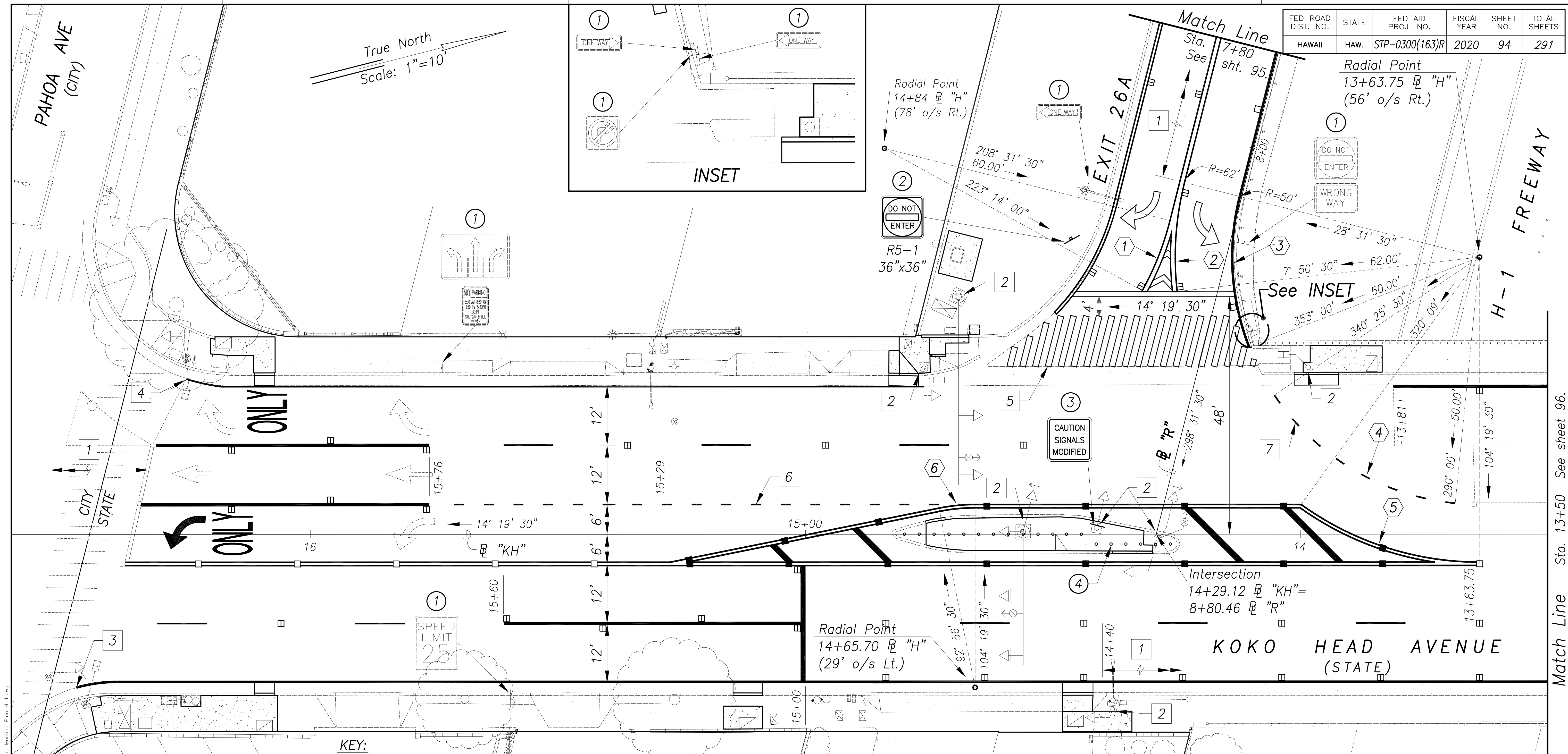
New 18, 2020-05-10  
 M:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\VMAA\_033\_Signing Marking Plan\_V.dwg



STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & STRIPING PLAN**  
**Vineyard Blvd & Queen Emma St**  
**ADDITIVE ALTERNATE #1**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: 1"=10' Date: Oct. 2020  
 SHEET No. R-72 OF 81 SHEETS

**GRAPHIC SCALES**  
 SCALE 1"=10' 10' 5' 0' 10' 20'  
 Approved By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Chief, Traffic Review Branch, DPP

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	94	291



Curve Data			
Curve	(1)	(2)	(3)
$\Delta$	14° 42' 30"	20° 41' 00"	35° 31' 30"
$\Delta/2$	7° 21' 15"	10° 20' 30"	17° 45' 45"
R	60.00'	62.00'	50.00'
T	7.74'	11.31'	16.02'
Ch	15.36'	22.26'	30.51'
Lc	15.40'	22.38'	31.00'
Curve	(4)	(5)	(6)
$\Delta$	55° 25' 30"	35° 49' 30"	11° 23' 00"
$\Delta/2$	27° 42' 45"	17° 54' 45"	5° 41' 30"
R	50.00'	62.00'	37.00'
T	9.83'	20.04'	3.69'
Ch	19.29'	38.14'	7.34'
Lc	19.41'	38.77'	7.35'

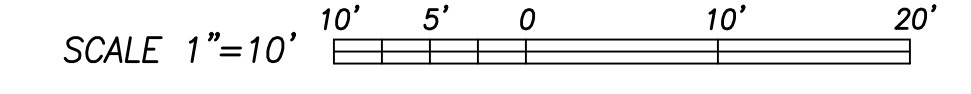
**KEY:**

- (1) Existing sign(s) to remain.
- (2) Install new sign(s) on new post(s).
- (3) Install temporary new W3-3A sign 24"x24" on new traffic signal pole. Remove W3-3A sign one week after effective data.
- (4) 19 Each, RM-3 Marker at 3' o.c. mounted on Flexstake HD or approved equal. Epoxy to raised concrete median.

**Notes:**

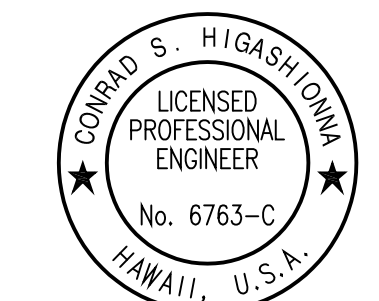
- 1 Tie into existing pavement markings.
- 2 Install Type II Object Marker on pole.
- 3 End 6-inch white stripe at crosswalk.
- 4 End 6-inch white stripe at stop line.
- 5 Crosswalk markings on concrete pavement shall be paid under 12" White Stripe on P.C.C. Pavement (Preformed Thermoplastic).
- 6 4-inch White Guide Lines
- 7 4-inch Yellow Guide Lines

**GRAPHIC SCALES**



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

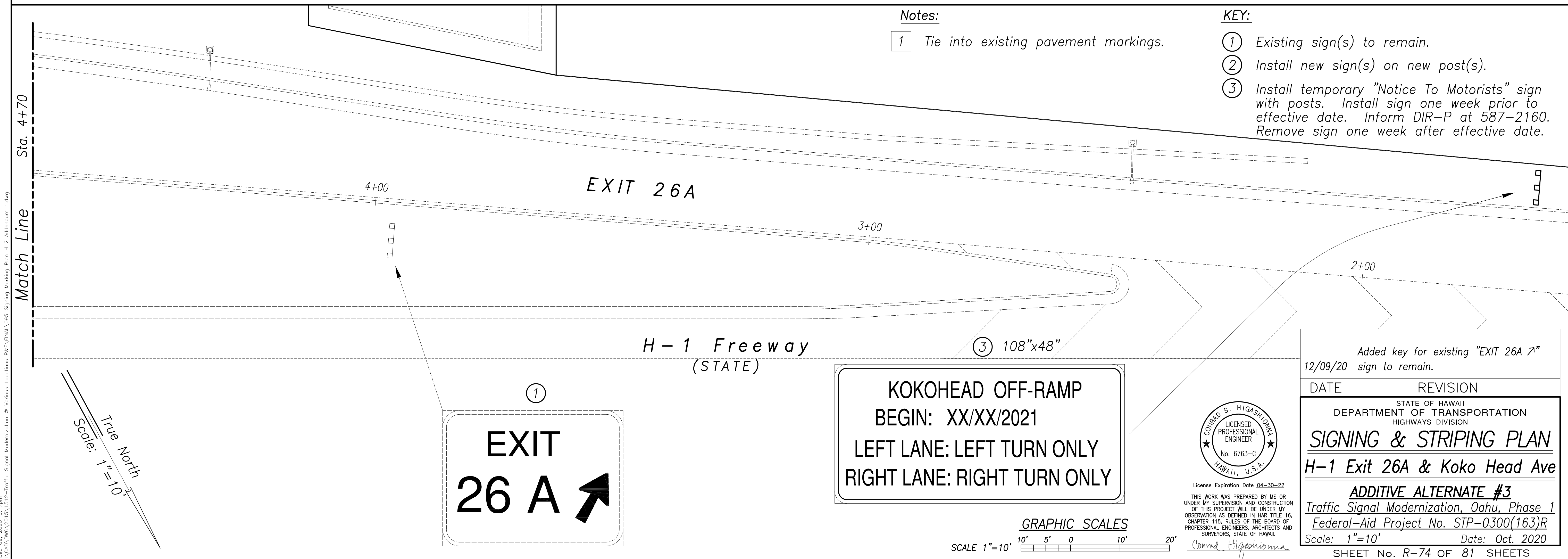
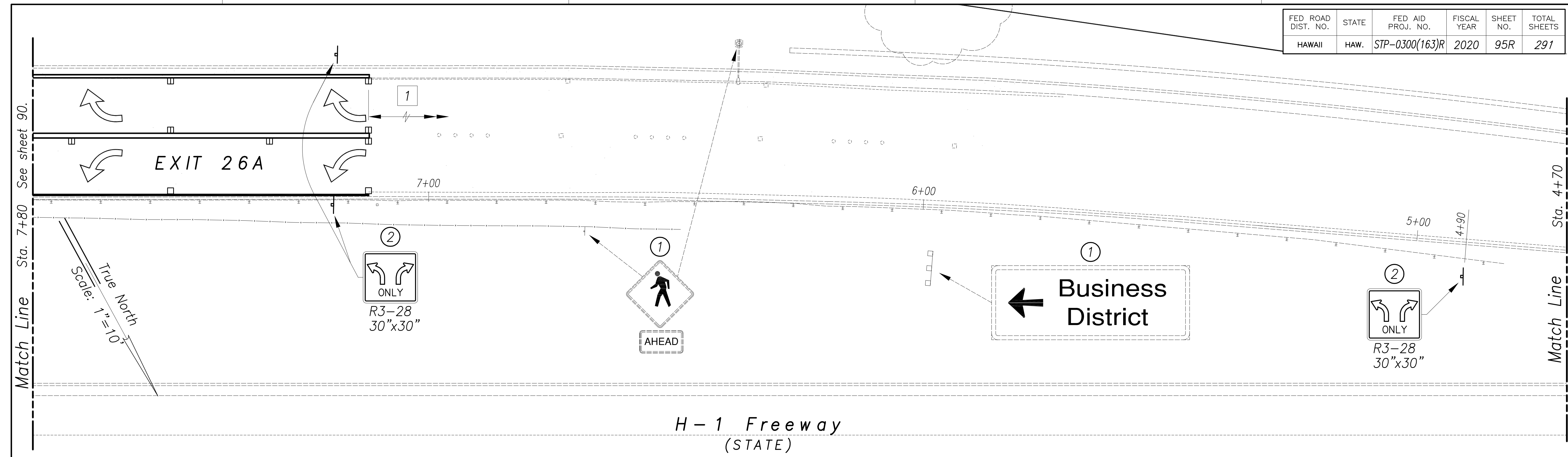
New 18, 2020-05-20  
 M:\CAD\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\094\_Signing Marking Plan\_H.1.dwg  
 © Various Locations P&E\FINAL\094\_Signing Marking Plan\_H.1.dwg



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 Conrad Higashi

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & STRIPING PLAN**  
**H-1 Exit 26A & Koko Head Ave**  
**ADDITIVE ALTERNATE #3**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: 1"=10' Date: Oct. 2020  
 SHEET No. R-73 OF 81 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	95R	291



**Notes:**

- 1 Tie into existing pavement markings.

**KEY:**

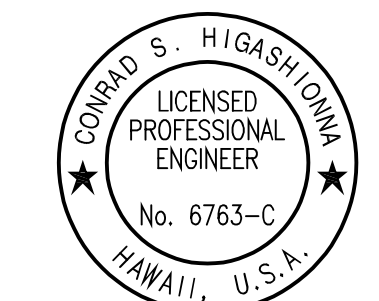
- ① Existing sign(s) to remain.
- ② Install new sign(s) on new post(s).
- ③ Install temporary "Notice To Motorists" sign with posts. Install sign one week prior to effective date. Inform DIR-P at 587-2160. Remove sign one week after effective date.

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

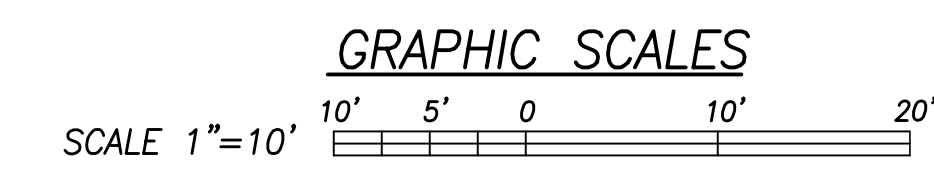
Dec 09, 2020 - 1:17pm  
 M:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\YMAA\095 Signing Marking Plan H 2 Addendum 1.dwg

12/09/20	Added key for existing "EXIT 26A" sign to remain.
DATE	REVISION

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & STRIPING PLAN**  
**H-1 Exit 26A & Koko Head Ave**  
**ADDITIVE ALTERNATE #3**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: 1"=10' Date: Oct. 2020  
 SHEET No. R-74 OF 81 SHEETS

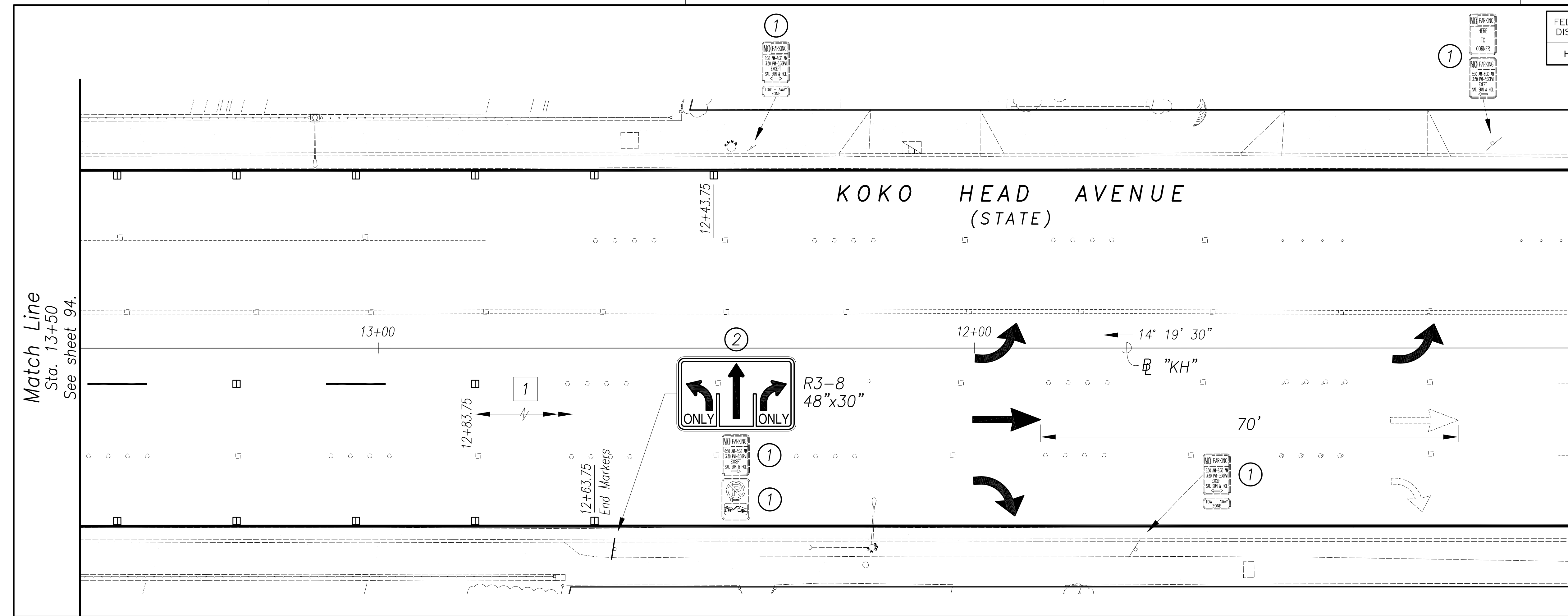


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 Conrad Higashimura



FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	96	291

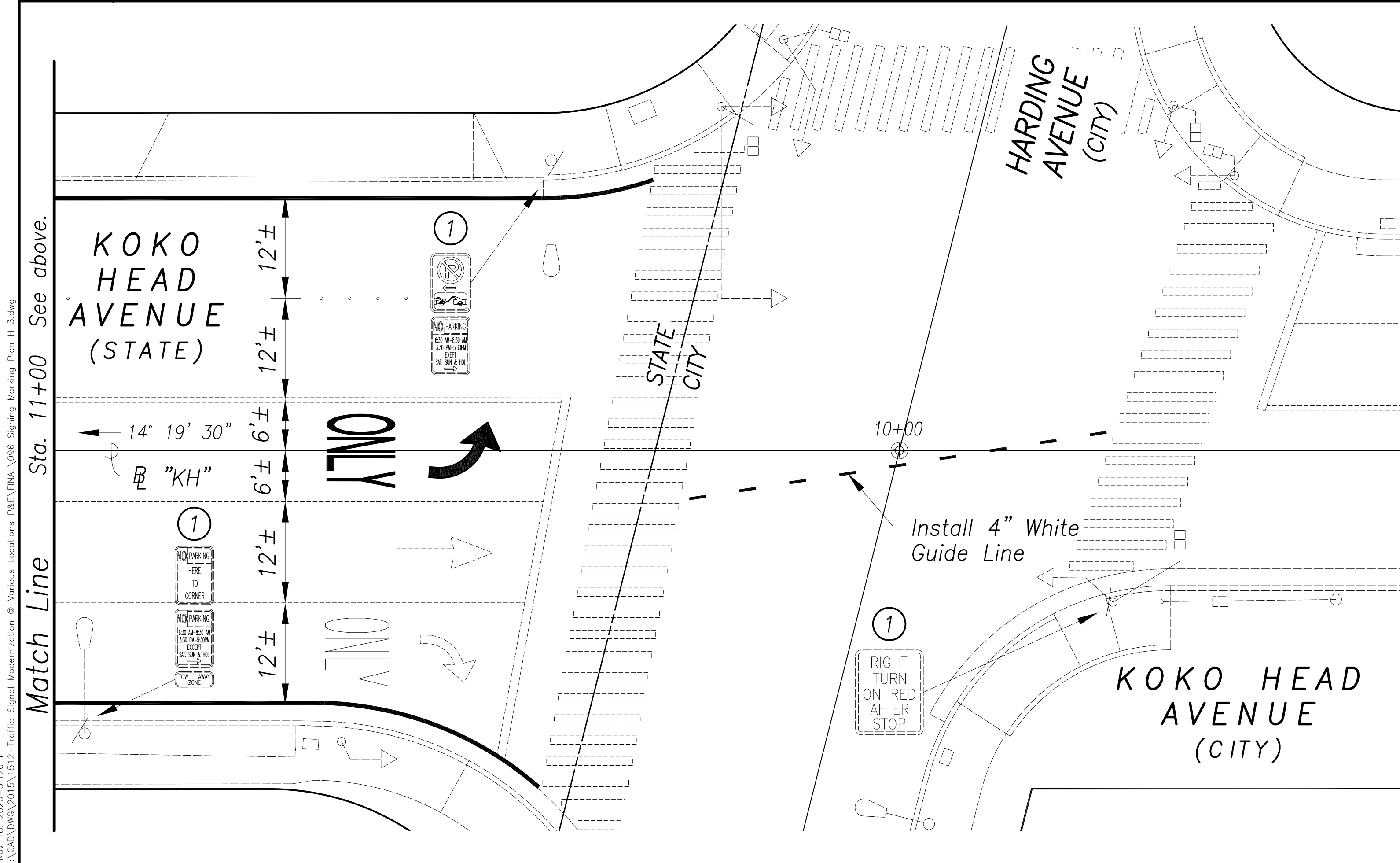
True North  
Scale: 1"=10'



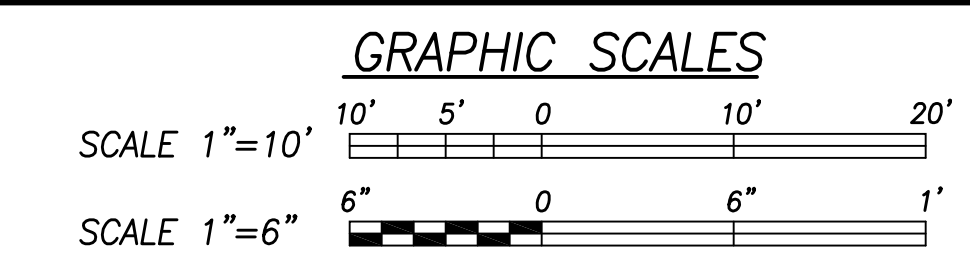
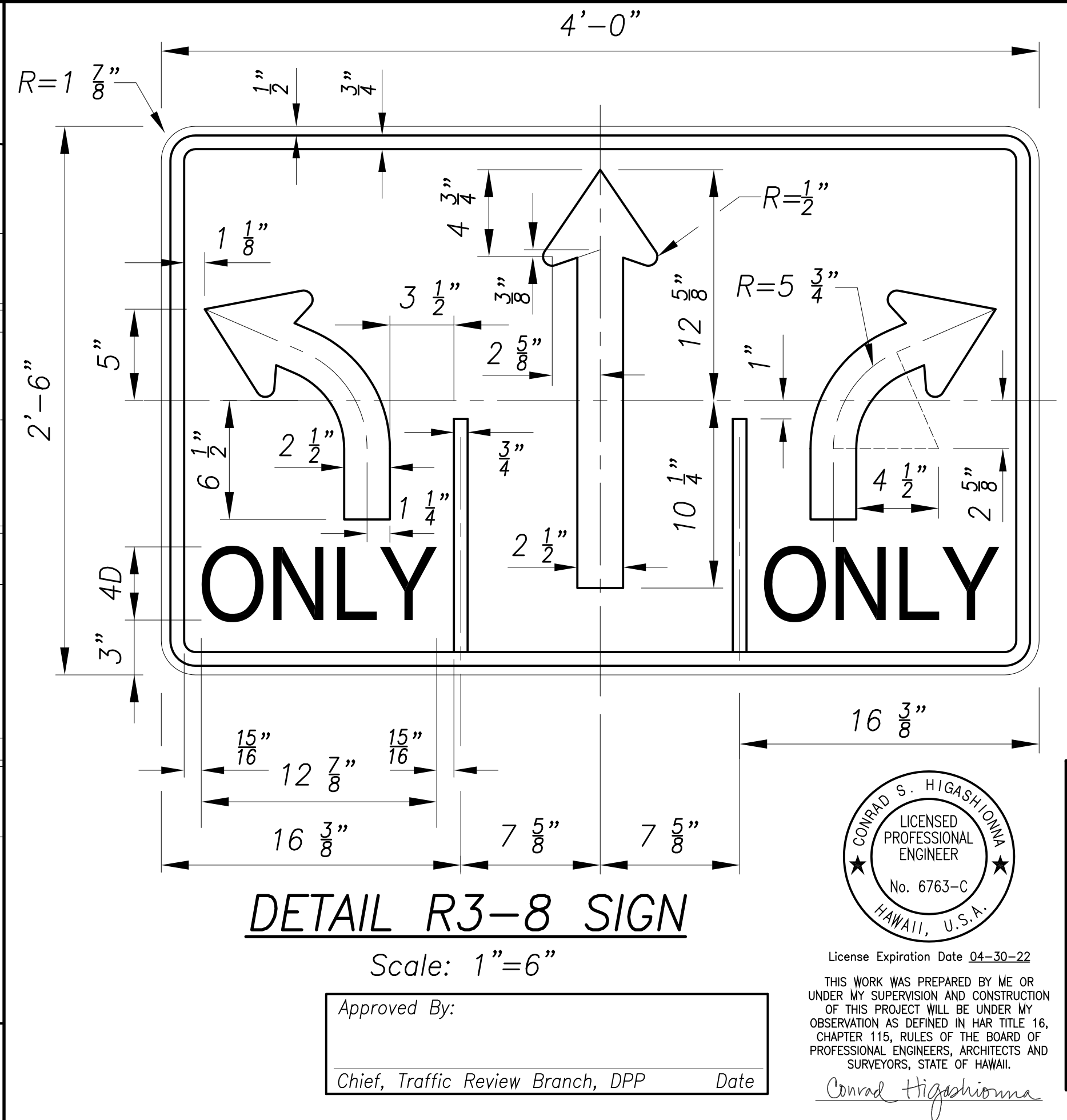
Match Line  
Sta. 11+00  
See below.

- KEY:**
- ① Existing sign(s) to remain.
  - ② Install new R3-8 sign on existing post. See detail on this sheet.

- Notes:**
- 1 Tie into existing pavement markings.

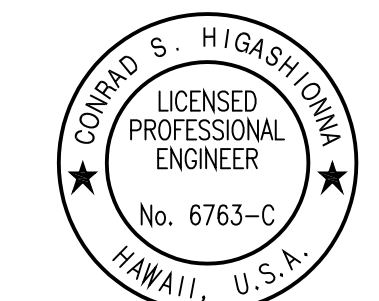


Match Line  
Sta. 11+00  
See above.



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

New 18, 2020-05-20  
 M:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\086 Signing Marking Plan H.3.dwg



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Approved By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Chief, Traffic Review Branch, DPP

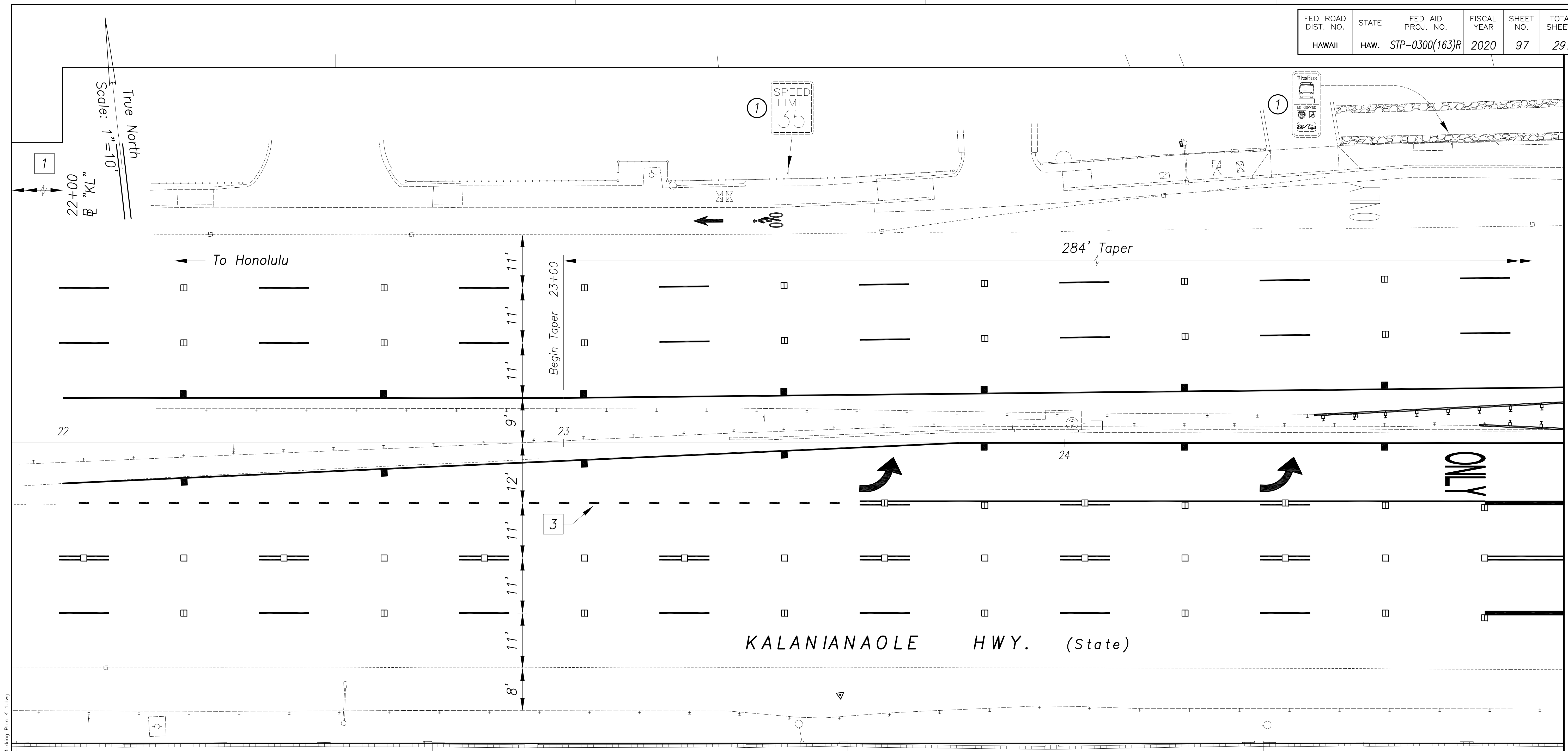
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**SIGNING & STRIPING PLAN**  
**H-1 Exit 26A & Koko Head Ave**

**ADDITIVE ALTERNATE #3**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: 1"=10' Date: Oct. 2020

SHEET No. R-75 OF 81 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	97	291



Match Line Sta. 25+00 See sheet 98.

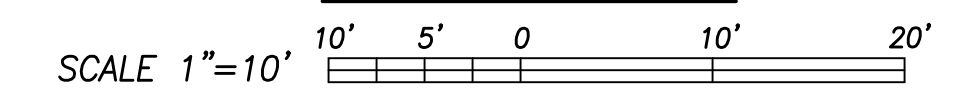
**Notes:**

- 1 Tie into existing pavement markings.
- 2 Install Type II Object Marker on pole.
- 3 4-inch White Guide Lines

**KEY:**

- ① Existing sign(s) to remain
- ② Existing sign(s) mounted on existing traffic signal or street light standard to remain
- ③ Install new sign(s) with post(s)
- ④ Install new sign(s) on new traffic signal standard pole
- ⑤ Install new traffic name sign on traffic signal mast arm

**GRAPHIC SCALES**

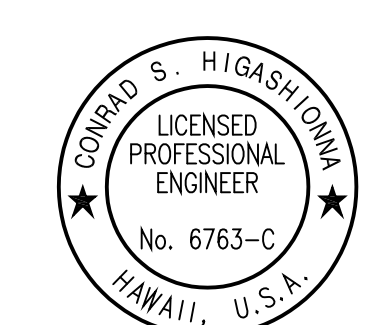


**Curve Data**

Curve	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫
$\Delta$	8° 20' 00"	82° 30' 00"	92° 00' 00"	22° 46' 20"	137° 37' 00"	19° 36' 40"	61° 00' 00"	25° 00' 00"	82° 02' 30"	23° 26' 20"	137° 37' 00"	13° 06' 40"
$\Delta/2$	4° 10' 00"	41° 15' 00"	46° 00' 00"	11° 23' 10"	68° 48' 30"	9° 48' 20"	30° 30' 00"	12° 30' 00"	41° 01' 15"	11° 43' 10"	68° 48' 30"	6° 33' 20"
R	387.00'	45.00'	40.00'	45.00'	3.00'	50.00'	35.00'	80.00'	40.00'	45.00'	3.00'	50.00'
T	28.19'	39.46'	41.42'	9.06'	7.73'	8.64'	20.62'	17.74'	38.99'	9.34'	7.73'	8.64'
Ch	56.24'	59.34'	57.55'	17.77'	5.59'	7.03'	35.61'	34.63'	55.84'	18.28'	5.59'	17.03'
Lc	56.29'	64.80'	64.23'	17.89'	7.20'	17.11'	37.26'	34.91'	61.81'	18.41'	7.20'	17.11'

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 No. \_\_\_\_\_

New 18, 2020-11-10  
 M:\CAD\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\097\_Signing Marking Plan\_K\_1.dwg



License Expiration Date 04-30-22  
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 Conrad Higashimura

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & STRIPING PLAN**  
 Kalaniana'ole Hwy & Kalaniki St  
**ADDITIVE ALTERNATE #2**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: 1"=10' Date: Oct. 2020  
 SHEET No. R-76 OF 81 SHEETS

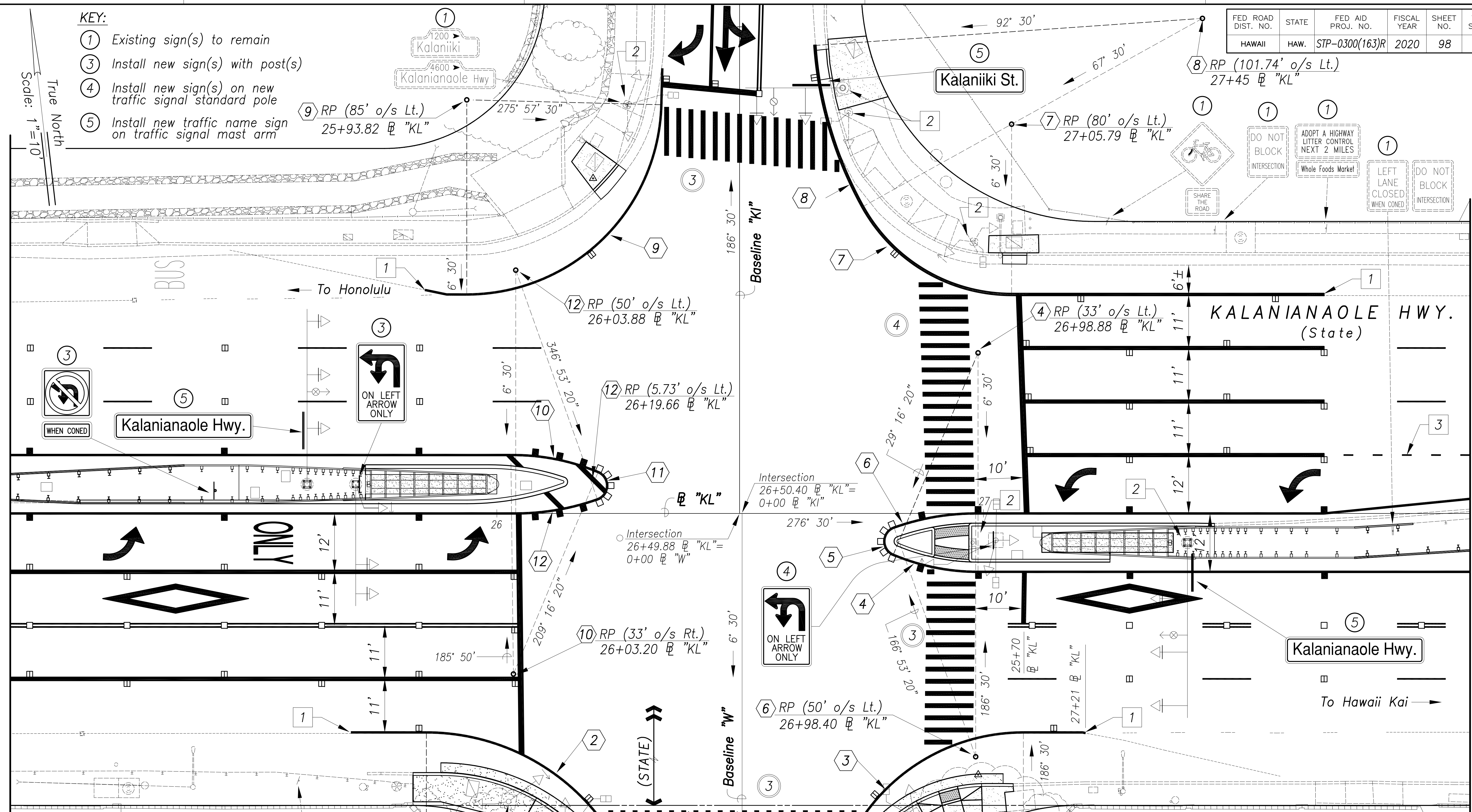
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	98	291

- KEY:**
- ① Existing sign(s) to remain
  - ③ Install new sign(s) with post(s)
  - ④ Install new sign(s) on new traffic signal standard pole
  - ⑤ Install new traffic name sign on traffic signal mast arm

Scale: 1"=10'  
True North

Match Line Sta. 25+00 See sheet 97.

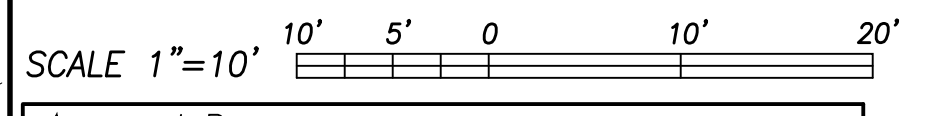
Match Line Sta. 28+00 See sheet 99.



**Notes:**

- 1 Tie into existing pavement markings.
- 2 Install Type II Object Marker on pole.
- 3 4-inch White Guide Lines

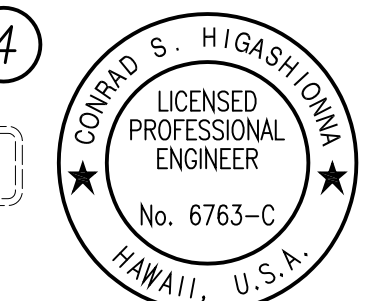
**GRAPHIC SCALES**



Approved By: \_\_\_\_\_ Date \_\_\_\_\_  
Chief, Traffic Review Branch, DPP

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
NO.	_____

New 19, 2020-11-14:tem  
 M:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\088 Signing Marking Plan K 2.dwg



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 Conrad Higashimura

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

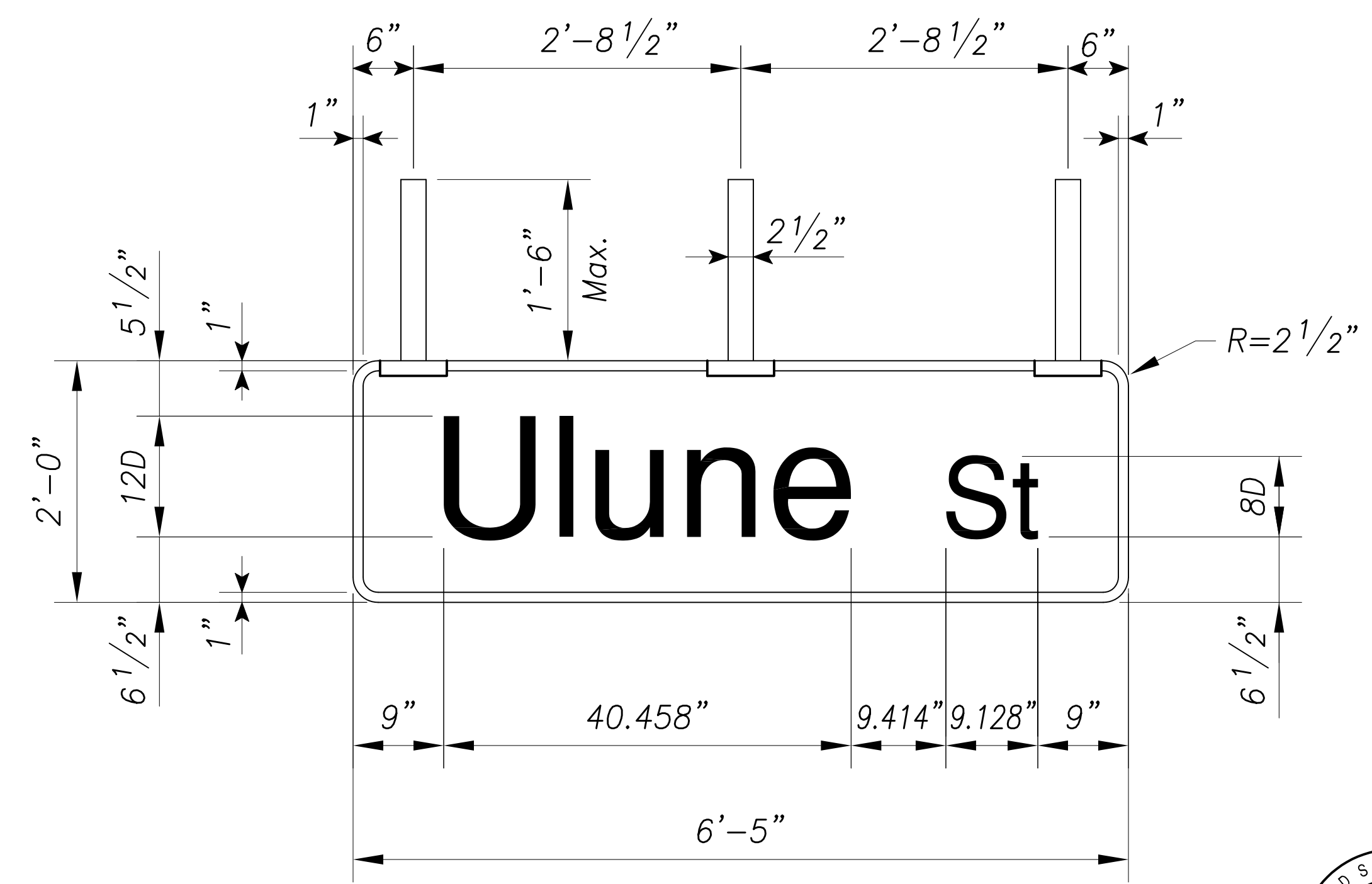
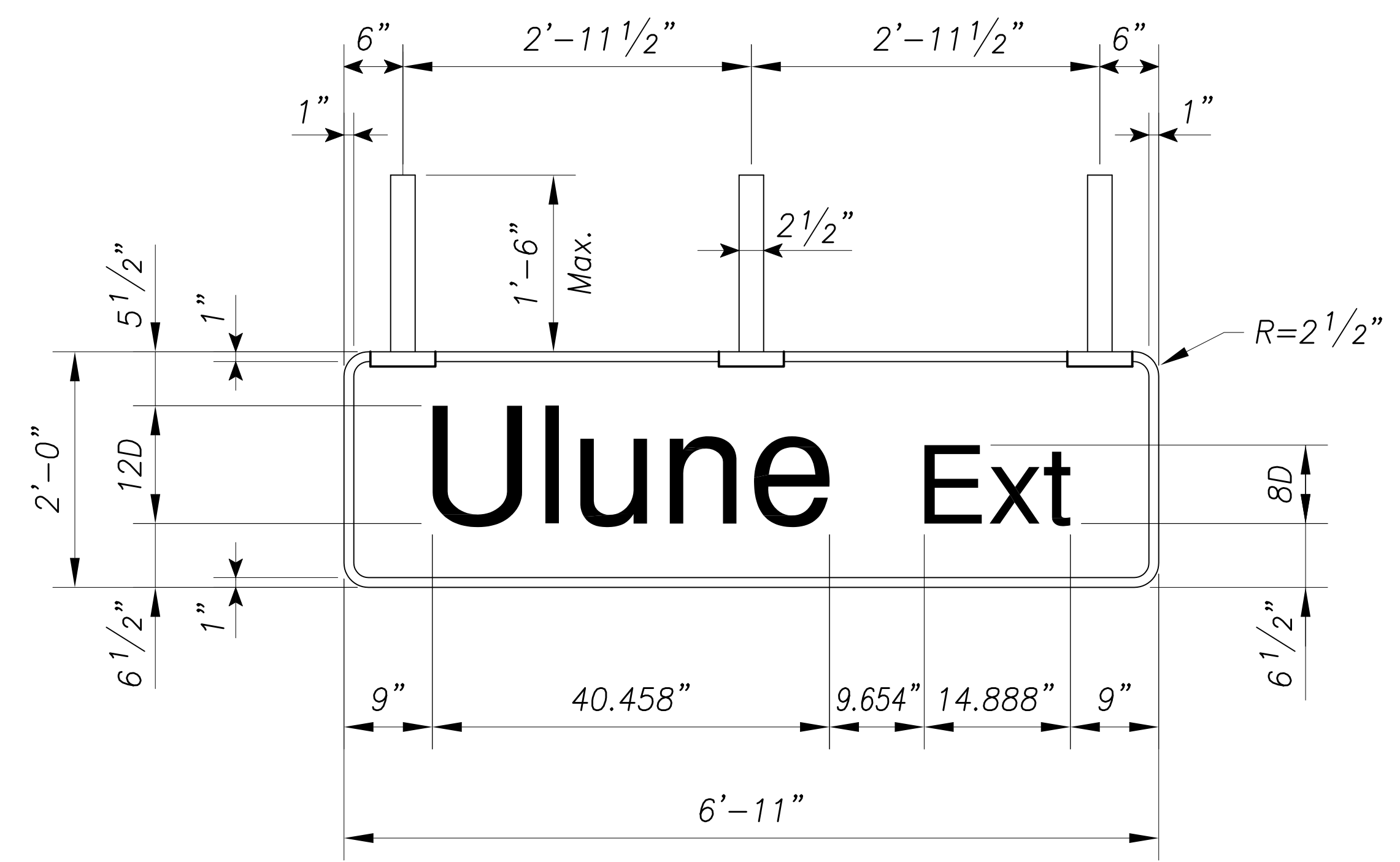
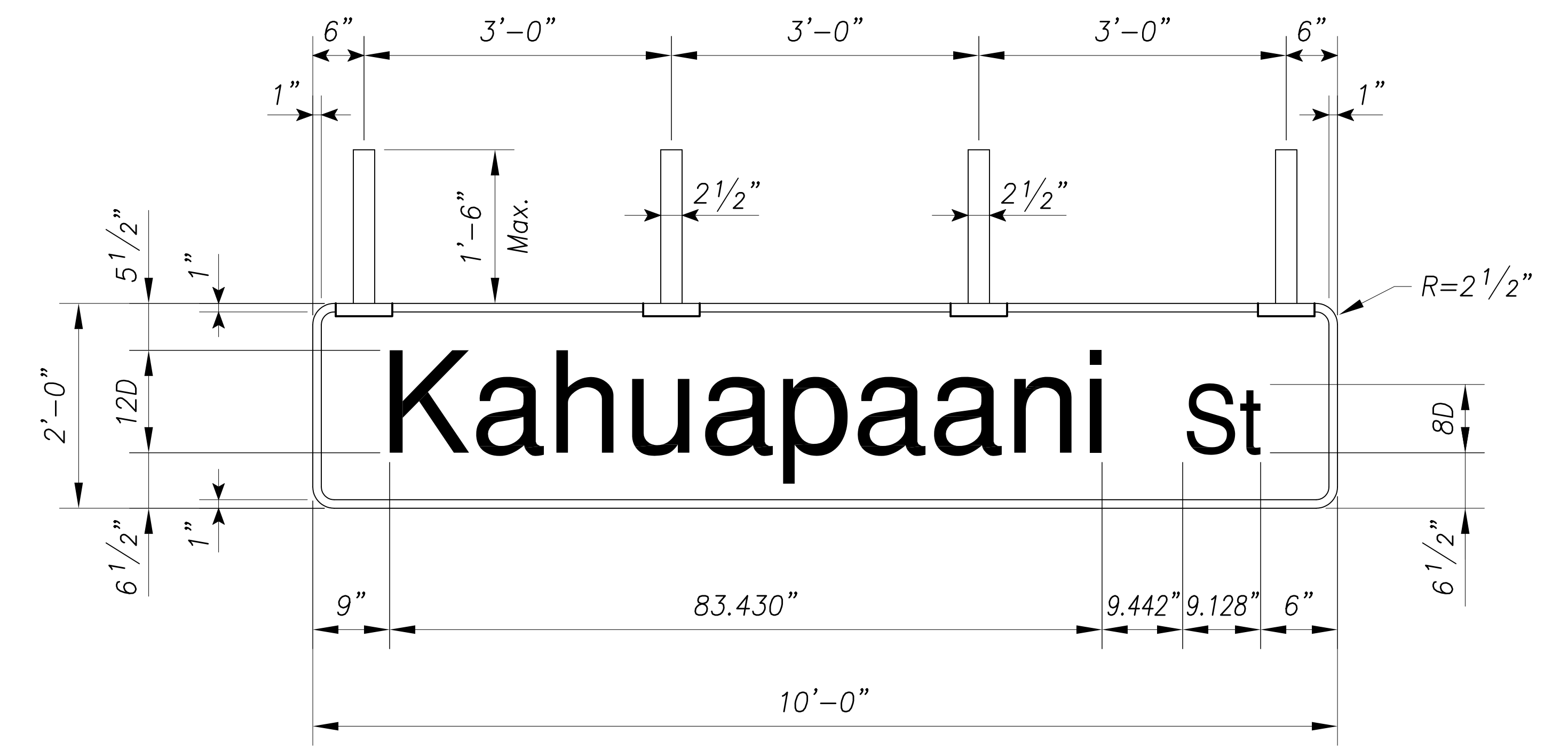
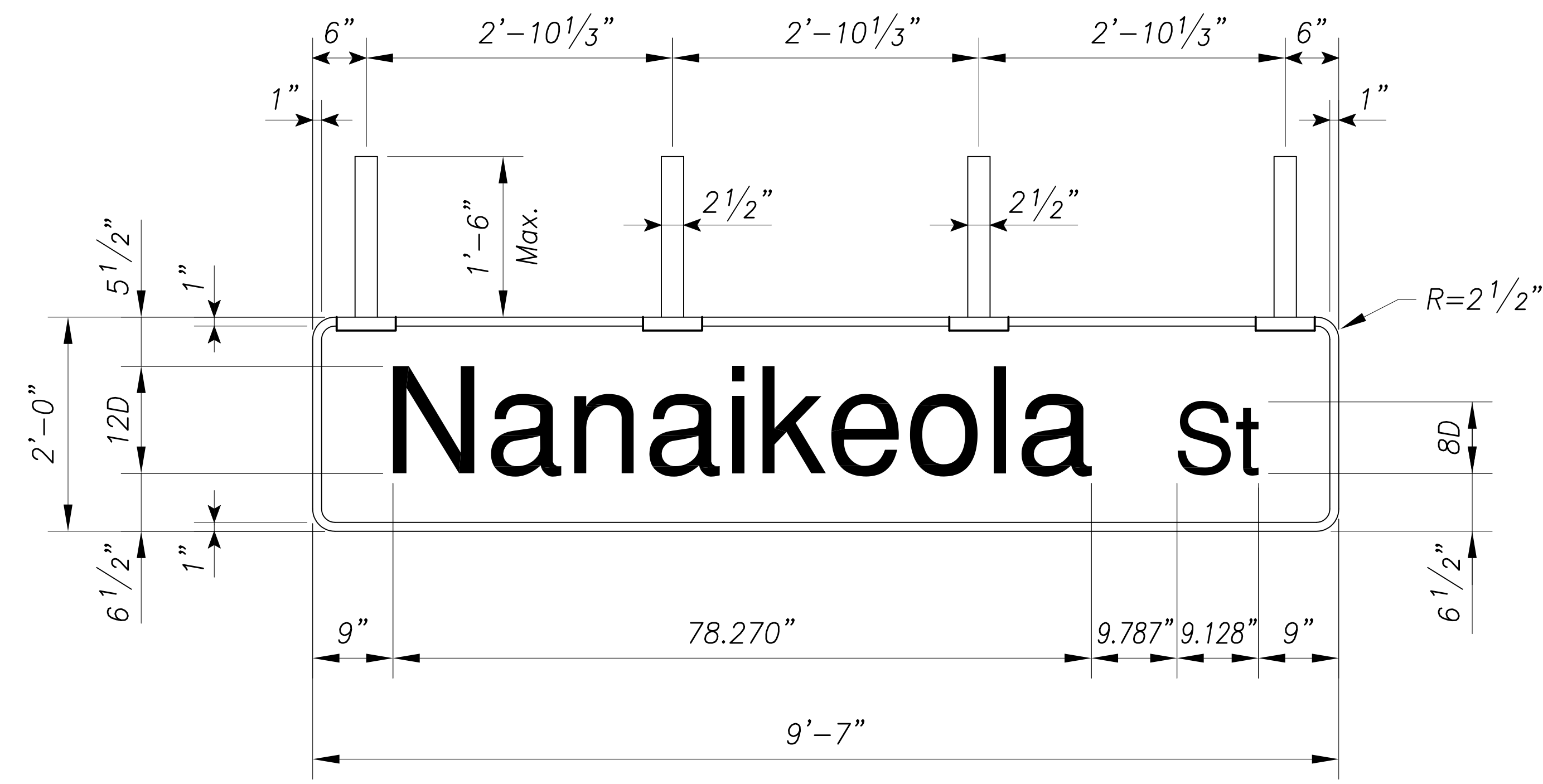
**SIGNING & STRIPING PLAN**  
 Kalaniana'ole Hwy & Kalaniiki St

**ADDITIVE ALTERNATE #2**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: 1"=10' Date: Oct. 2020  
 SHEET No. R-77 OF 81 SHEETS



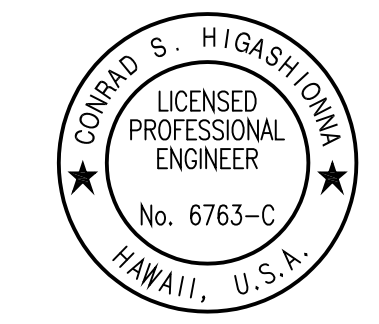


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	101	291



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
No.	

Nov 18, 2020-4:13pm  
 N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations P&E\FINAL\01 Sign Details 1.dwg



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 Conrad Higashi

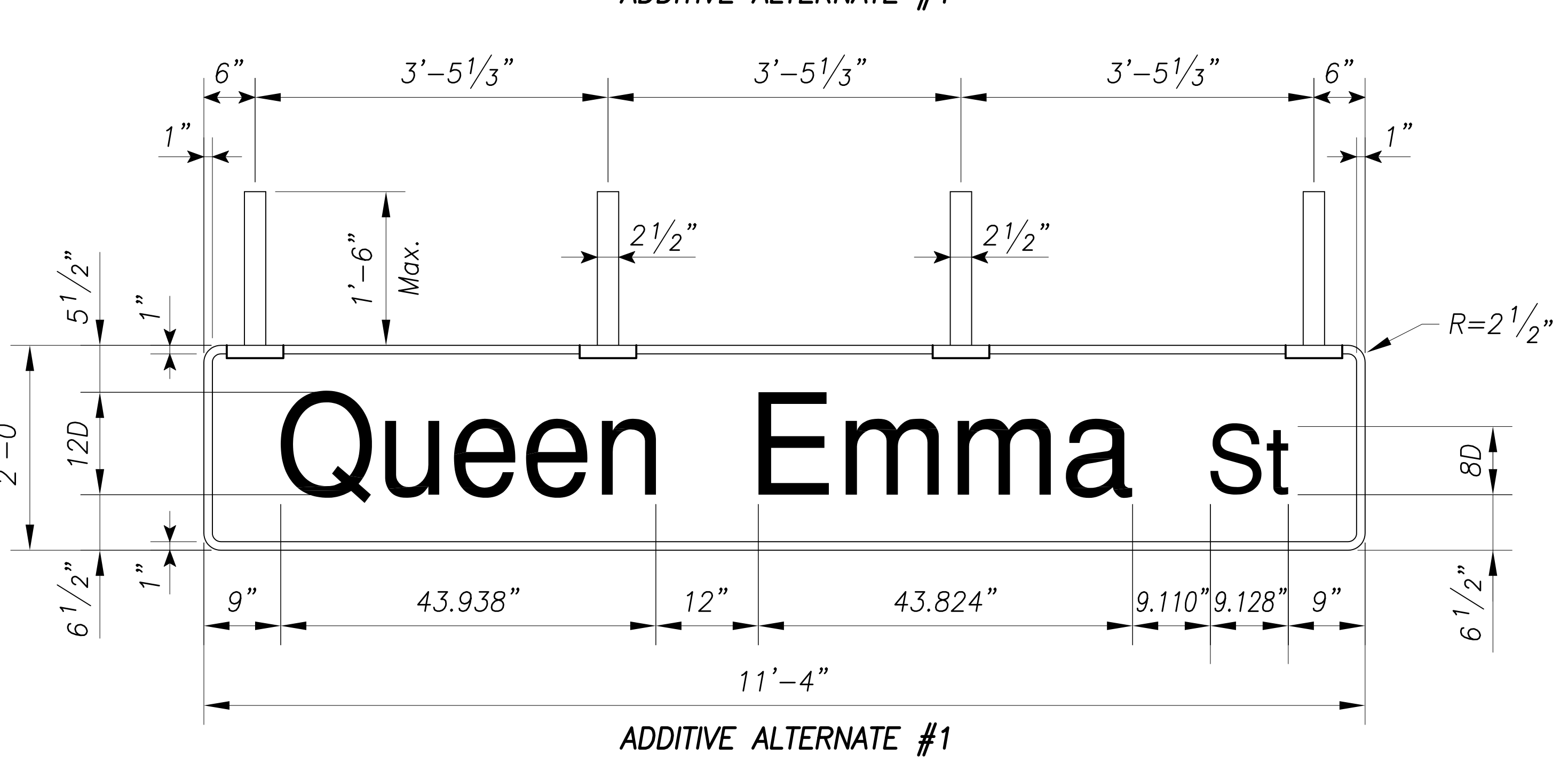
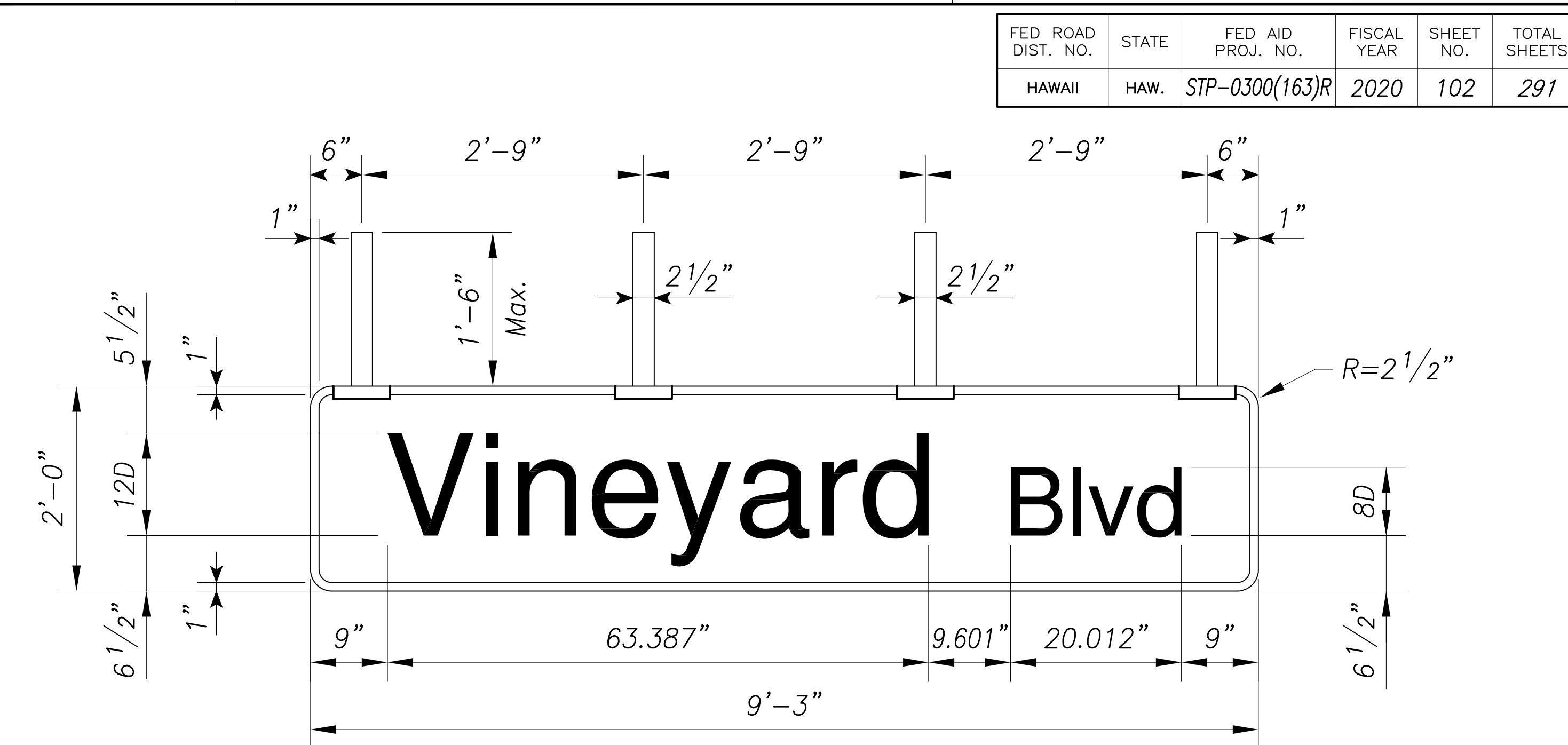
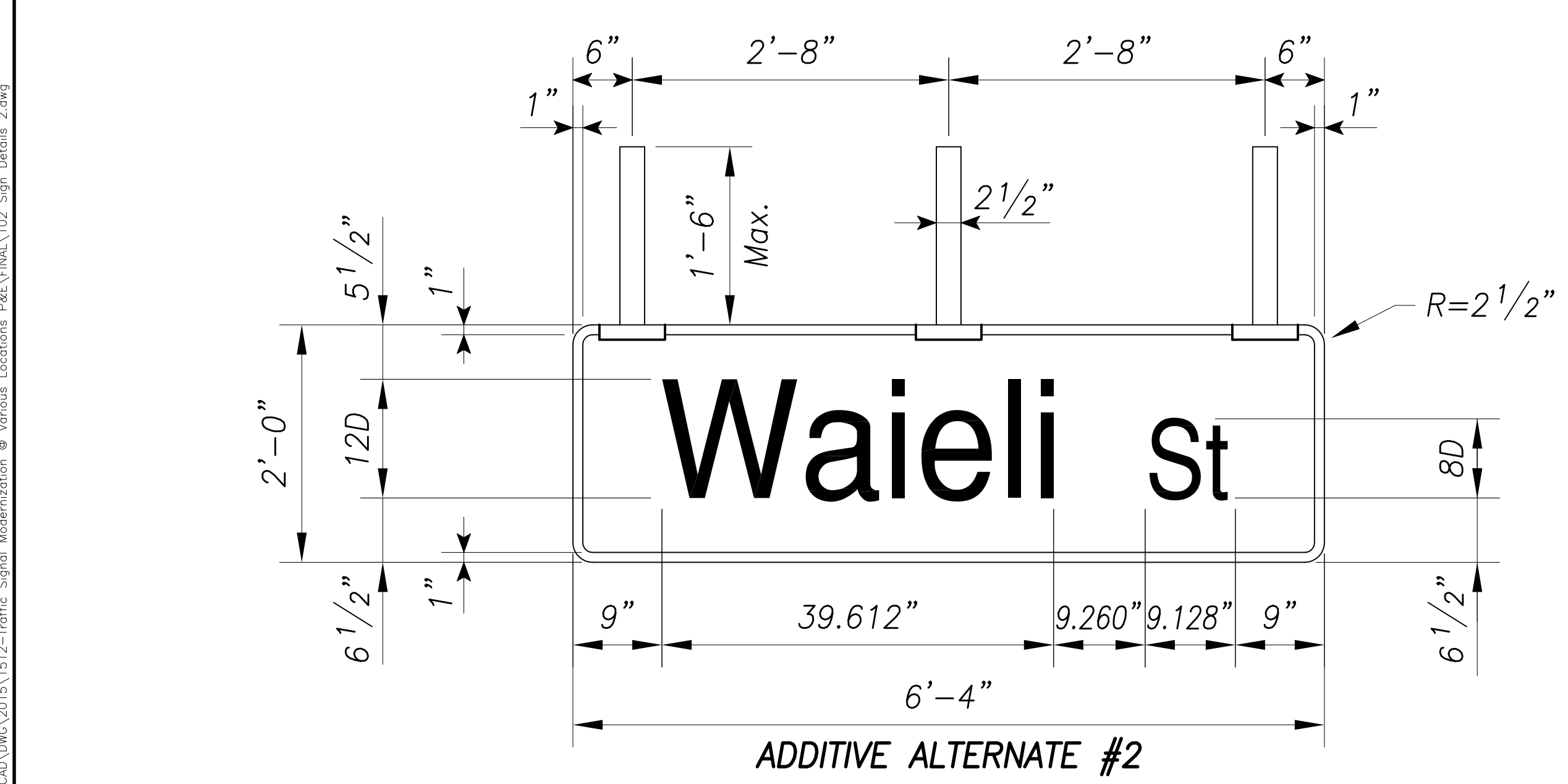
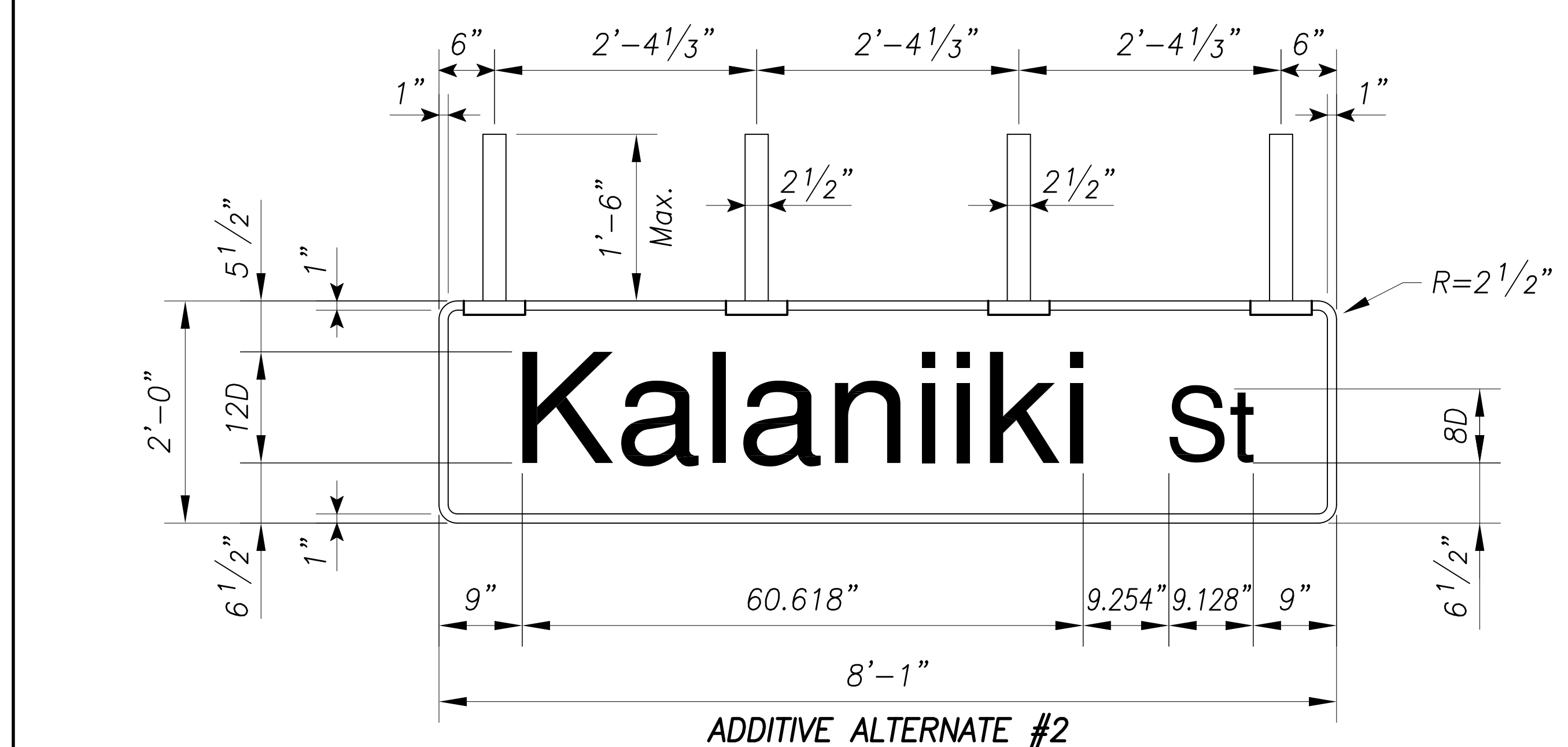
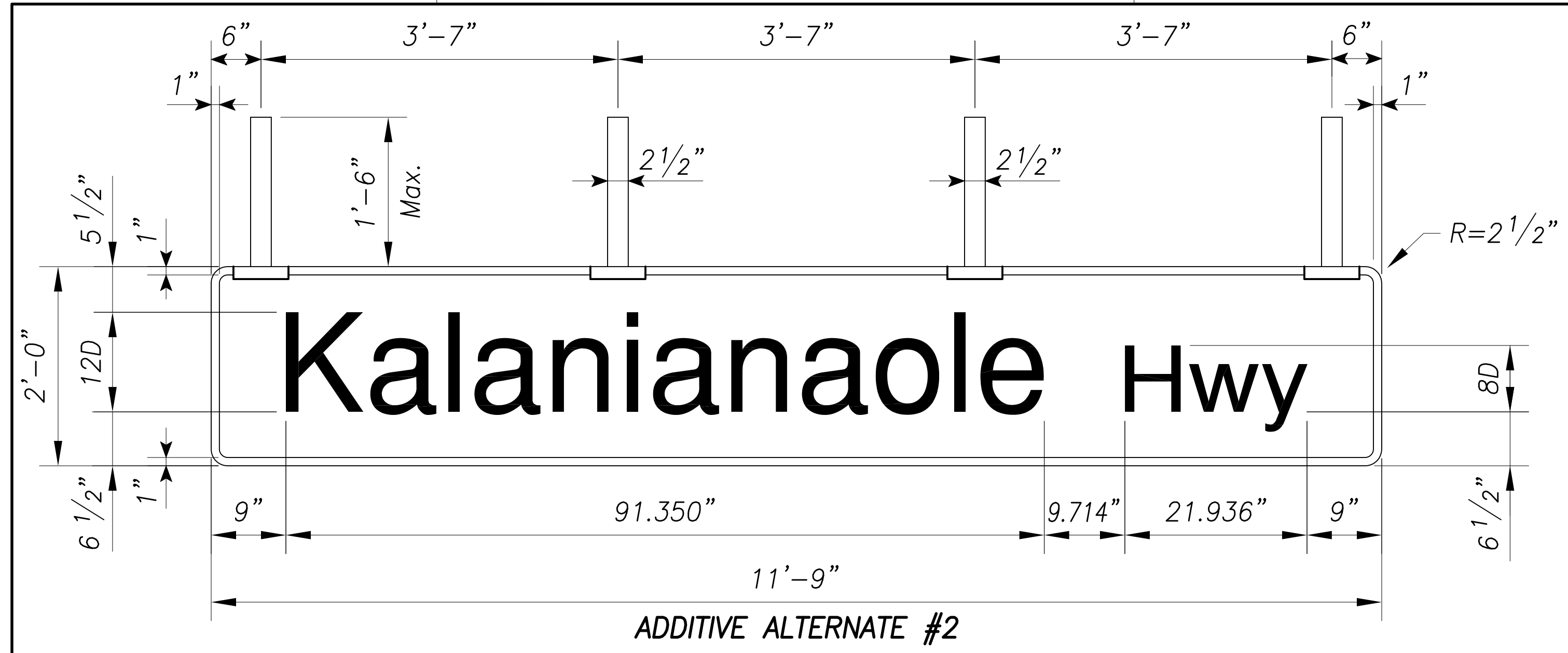
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**SIGNAGE DETAILS**

**BASE BID**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: No Scale Date: Oct. 2020

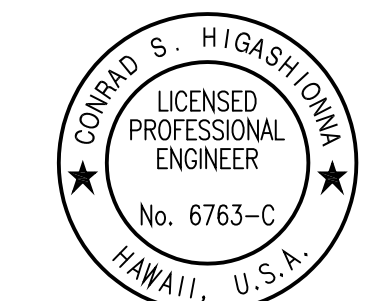
SHEET No. R-80 OF 81 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0300(163)R	2020	102	291



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

Nov 18, 2020-8:33am  
 N:\CAO\DWG\2015\1512-Traffic Signal Modernization @ Various Locations (R&E\FINAL)\02\_Sign\_Details\_2.dwg



License Expiration Date 04-30-22  
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 Conrad Higashimura

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**SIGNAGE DETAILS**

**ADDITIVE ALTERNATE #1 & #2**  
 Traffic Signal Modernization, Oahu, Phase 1  
 Federal-Aid Project No. STP-0300(163)R  
 Scale: No Scale Date: Oct. 2020  
 SHEET No. R-81 OF 81 SHEETS