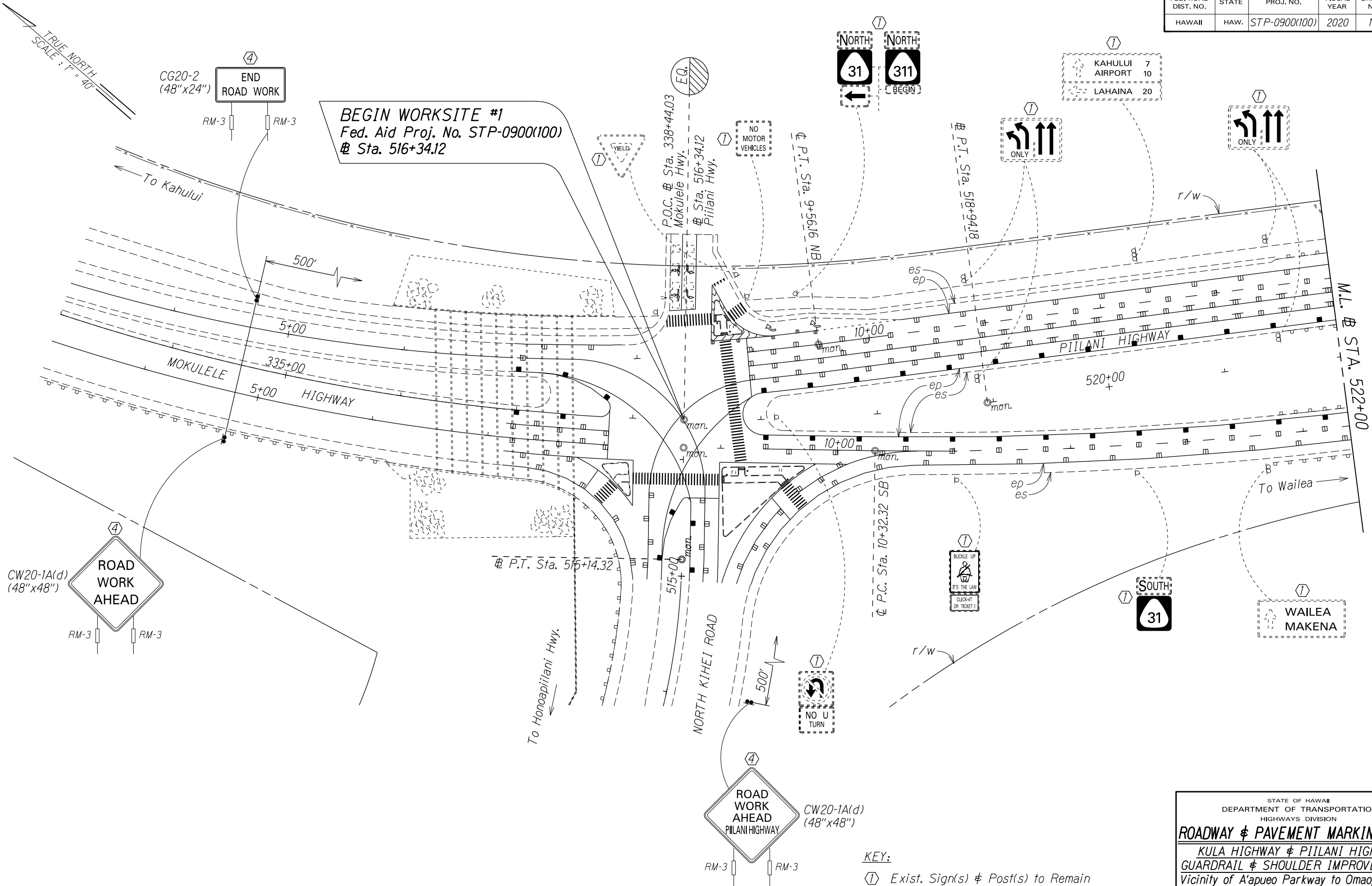


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	14	28



SURVEY PLOTTED BY	DATE
DRAWN BY	3/20
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

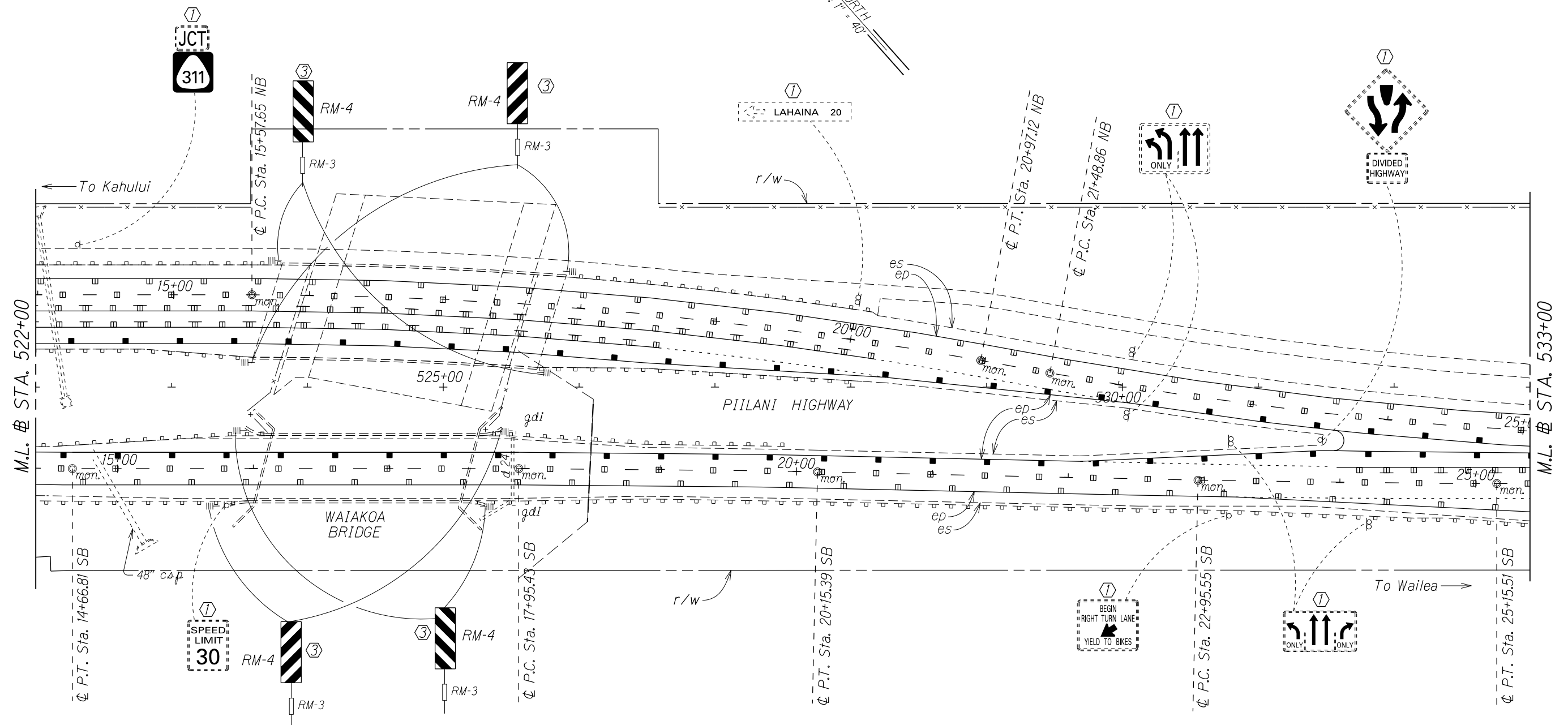
- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & PAVEMENT MARKING PLAN
KULA HIGHWAY & PIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of A'apueo Parkway to Omaopio Road
and North Kihei Road to Lipoa Parkway
Federal-Aid Project No. STP-0900(100)
Scale: 1" = 40' Date: April, 2020

SHEET No. 1 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	15	28



ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE <u>3/20</u>
NOTE BOOK	DRAWN BY <u>X</u>	•
	TRACED BY _____	•
	DESIGNED BY <u>Alex r.</u>	•
	QUANTITIES BY _____	•
	CHECKED BY _____	•
	NAME <u>gmmstn2.dgn</u>	•

KEY:

- ① Exist. Sign(s) $\nrightarrow$ Post(s) to Remain
- ② Remove Exist. Sign(s) $\nrightarrow$ Post(s)
- ③ Remove Exist. $\nrightarrow$ Install New Sign(s) $\nrightarrow$ Post(s)
- ④ Install New Sign(s) $\nrightarrow$ Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & PAVEMENT MARKING PLAN

*KULA HIGHWAY & PIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of A'apueo Parkway to Omaopio Road
and North Kihei Road to Lipoa Parkway
Federal-Aid Project No. STP-0900(100)*

Scale: 1" = 40' Date: April, 2020

SHEET No. 2 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	16	28

STA. 534+80± LT.

Demolish and remove existing terminal and install new guardrail 75 LF and new terminal Softstop (1 EA). ~~Pave front, under and behind guardrail and end terminal, 3 Tons HMA Mix V.~~

CW20-1A(d)
(48"x48")

ROAD
WORK
AHEAD
PIILANI HIGHWAY

RM-3

RM-3

500'

Kaiwaine St.

STA. 535+40± LT.

Demolish and remove existing terminal and install new guardrail 75 LF and new terminal Softstop (1 EA). ~~Pave front, under and behind guardrail and end terminal, 3 Tons of HMA Mix V.~~

TRUE NORTH
SCALE: 1" = 40'

M.L. # STA. 533+00

To Kahului

SPEED
LIMIT
45

P.T. Sta. 26+88.32 NB

NO
MOTOR
VEHICLES

SOUTH
31

NORTH
31

YIELD

PIILANI HIGHWAY

r/w

BIKE
XING

SHARE
THE
ROAD

BIKE
XING

SHARE
THE
ROAD

M.L. # STA. 542+00

To Wailea

NO
PARKING
ANY
TIME

r/w

2-48" culvert

meco box meco box

YIELD

Uwapo Rd.

NO
PARKING
ANY
TIME

SOUTH
31

SPEED
LIMIT
45

NO
PARKING
ANY
TIME

4
31

+

STA. 535+00 RT. TO STA. 536+98 RT.
STA. 535+43± RT. TO STA. 537+19± RT.

Demolish and remove existing terminal and install new guardrail 125 LF and Trailing End Anchorage System (1 EA). ~~Pave front, under and behind guardrail and end terminal, 5 Tons HMA Mix V.~~

CW20-1A(d)
(48"x48")

ROAD
WORK
AHEAD
PIILANI HIGHWAY

RM-3

RM-3

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

KEY:

- ① Exist. Sign(s) & Post(s) to Remain
- ② Remove Exist. Sign(s) & Post(s)
- ③ Remove Exist. & Install New Sign(s) & Post(s)
- ④ Install New Sign(s) & Post(s)

①

9/4/20 Revise End Terminal

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY & PAVEMENT MARKING PLAN
KULA HIGHWAY & PIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of A'apueo Parkway to Omaopio Road
and North Kihei Road to Lipoa Parkway
Federal-Aid Project No. STP-0900(100)
Scale: 1" = 40' Date: April, 2020

SHEET No. 3 OF 15 SHEETS

"AS-BUILT"

16

DATE	3/20
SURVEY PLOTTED BY	
DESIGNED BY	Alex C.
NOTED BY	10/10/19
QUANTITIES BY	10/10/19
CHECKED BY	10/10/19

STA. 548+90 LT to 549+40 LT
~~STA. 548+54.5± LT. TO STA. 549+65± LT.~~
Demolish and remove existing terminal and install new guardrail 87.5 LF and Trailing End Anchorage System (1 EA). ~~Pave front, under and behind guardrail and end terminal, 3 Tons of HMA Mix V.~~

STA. 543+89 RT to STA. 547+07 RT
~~STA. 543+40± RT. TO STA. 546+65± RT.~~
Demolish and remove existing terminal and install new terminal Softstop (1 EA). Reset guardrail post 275 LF.

STA. 553+23 LT
~~STA. 553+00± LT.~~
Demolish and remove existing end terminal and install new terminal Softstop (1 EA).

CURVE DATA
 $\Delta = 22^{\circ}51'52''$
 $\Delta/2 = 11^{\circ}25'56''$
 $R = 3000.00'$
 $T = 606.65'$
 $C = 1189.25'$
 $Lc = 1197.17'$

CURVE DATA
 $\Delta = 12^{\circ}12'50''$
 $\Delta/2 = 6^{\circ}06'25''$
 $R = 4500.00'$
 $T = 481.46'$
 $C = 957.47'$
 $Lc = 959.28'$

STA. 558+78 RT to STA. 561+15 RT
~~STA. 559+20± RT. TO STA. 560+20± RT.~~
Reset guardrail 100 L.F.
Install new terminal Softstop (1 EA)

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	ADD.17	28

LEGEND FOR
AS-BUILT POSTINGS

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

9/4/20 Revise End Terminal.

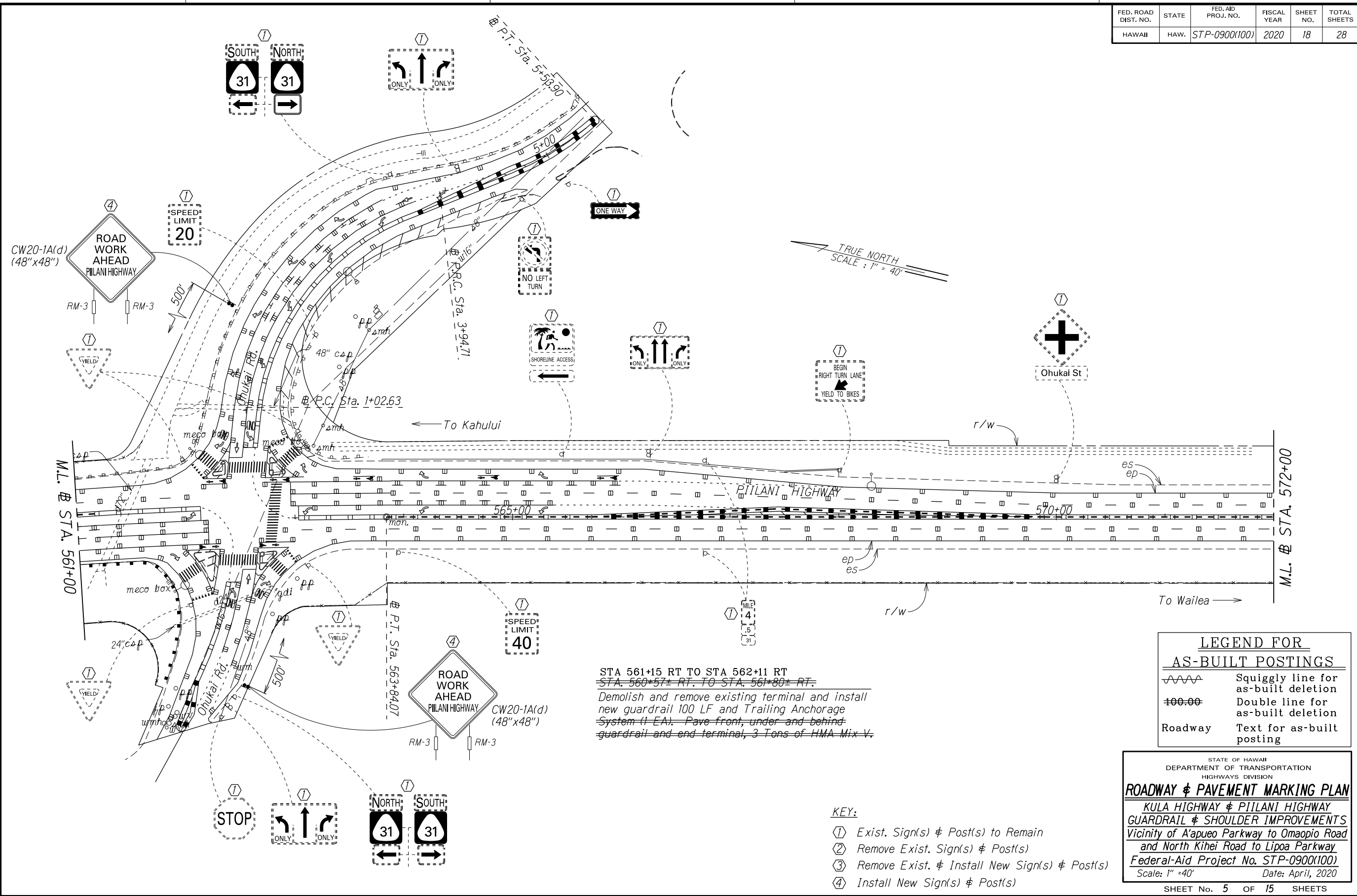
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY & PAVEMENT MARKING PLAN
KULA HIGHWAY & PIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of A'apueo Parkway to Omaopio Road
and North Kihei Road to Lipoa Parkway
Federal-Aid Project No. STP-0900(100)
Scale: 1" = 40' Date: April, 2020

SHEET No. 4 OF 15 SHEETS

"AS-BUILT"

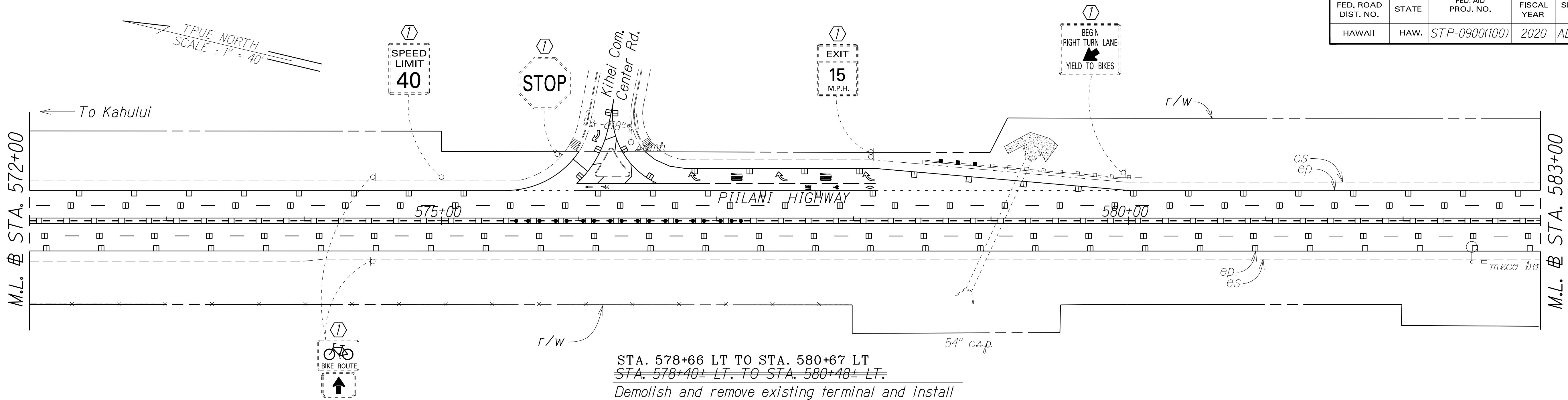
ADD.17

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	18	28

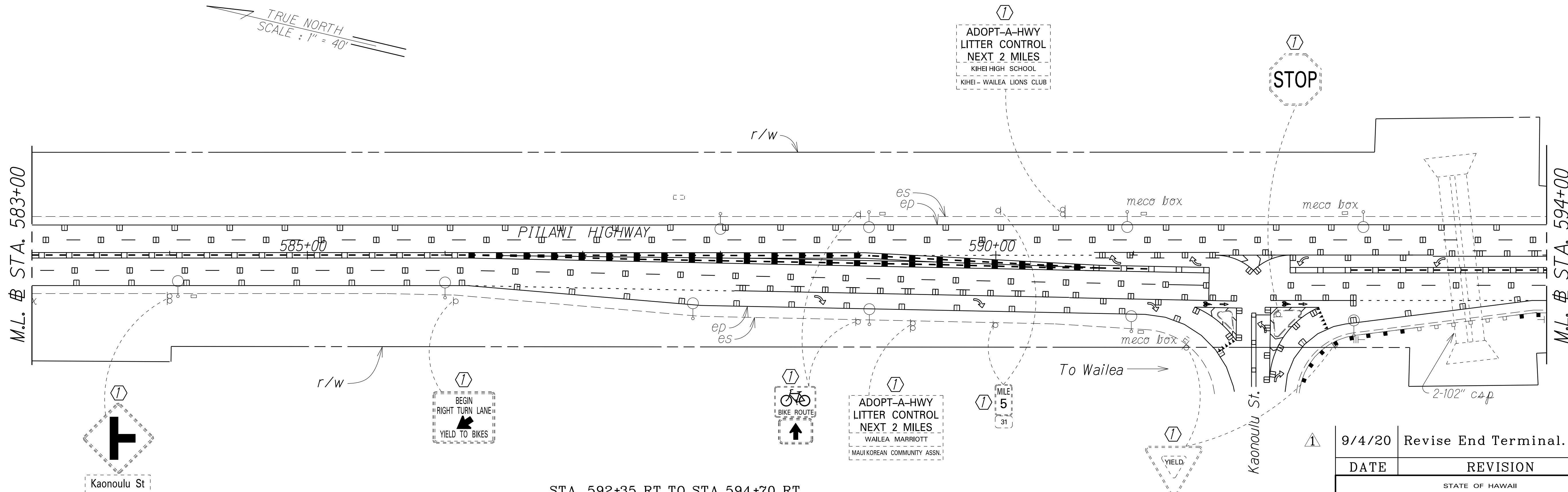


"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	ADD.19	28



~~STA. 593+85+ RT. TO STA. 594+23+ RT.~~
Demolish and remove existing terminal and install new terminal Softstop (1 EA).



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

STA. 592+35 RT TO STA 594+70 RT
~~STA. 592+25+ RT.~~
Demolish and remove existing terminal and install new guardrail 100 LF. ~~Pave front, under and behind guardrail and end terminal, 3 Tons of HMA Mix V.~~
TRAILING END ANCHORAGE SYSTEM (1 EA.)
~~STA. 593+00 RT. TO STA. 593+50 RT.~~
~~Reset guardrail 50 LF.~~

- KEY:
- 1 Exist. Sign(s) & Post(s) to Remain
 - 2 Remove Exist. Sign(s) & Post(s)
 - 3 Remove Exist. & Install New Sign(s) & Post(s)
 - 4 Install New Sign(s) & Post(s)

9/4/20 Revise End Terminal.

DATE REVISION

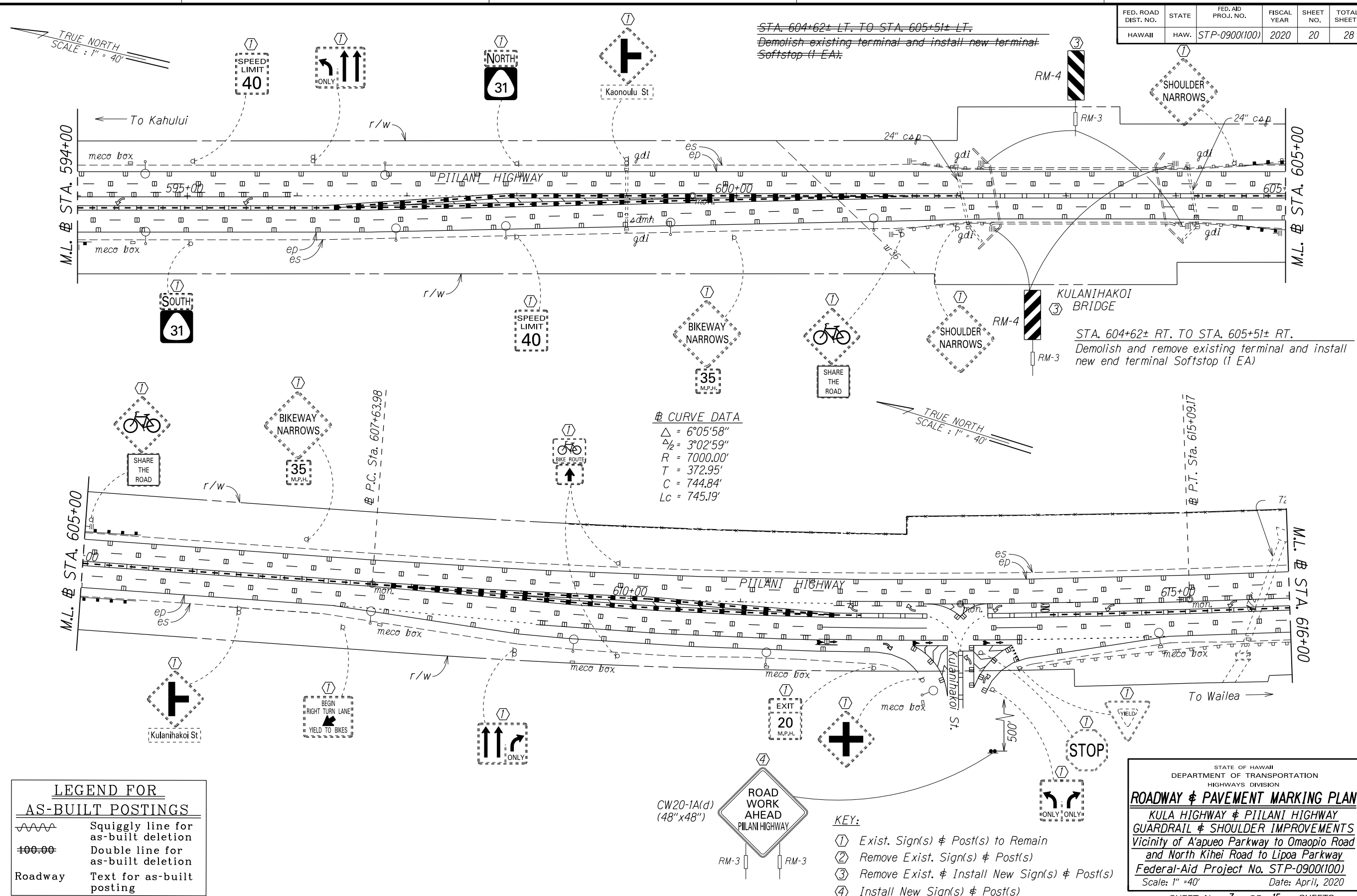
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY & PAVEMENT MARKING PLAN
KULA HIGHWAY & PILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of A'apueo Parkway to Omaopio Road
and North Kihei Road to Lipoa Parkway
Federal-Aid Project No. STP-0900(100)
Scale: 1" = 40' Date: April, 2020

SHEET No. 6 OF 15 SHEETS

"AS-BUILT"

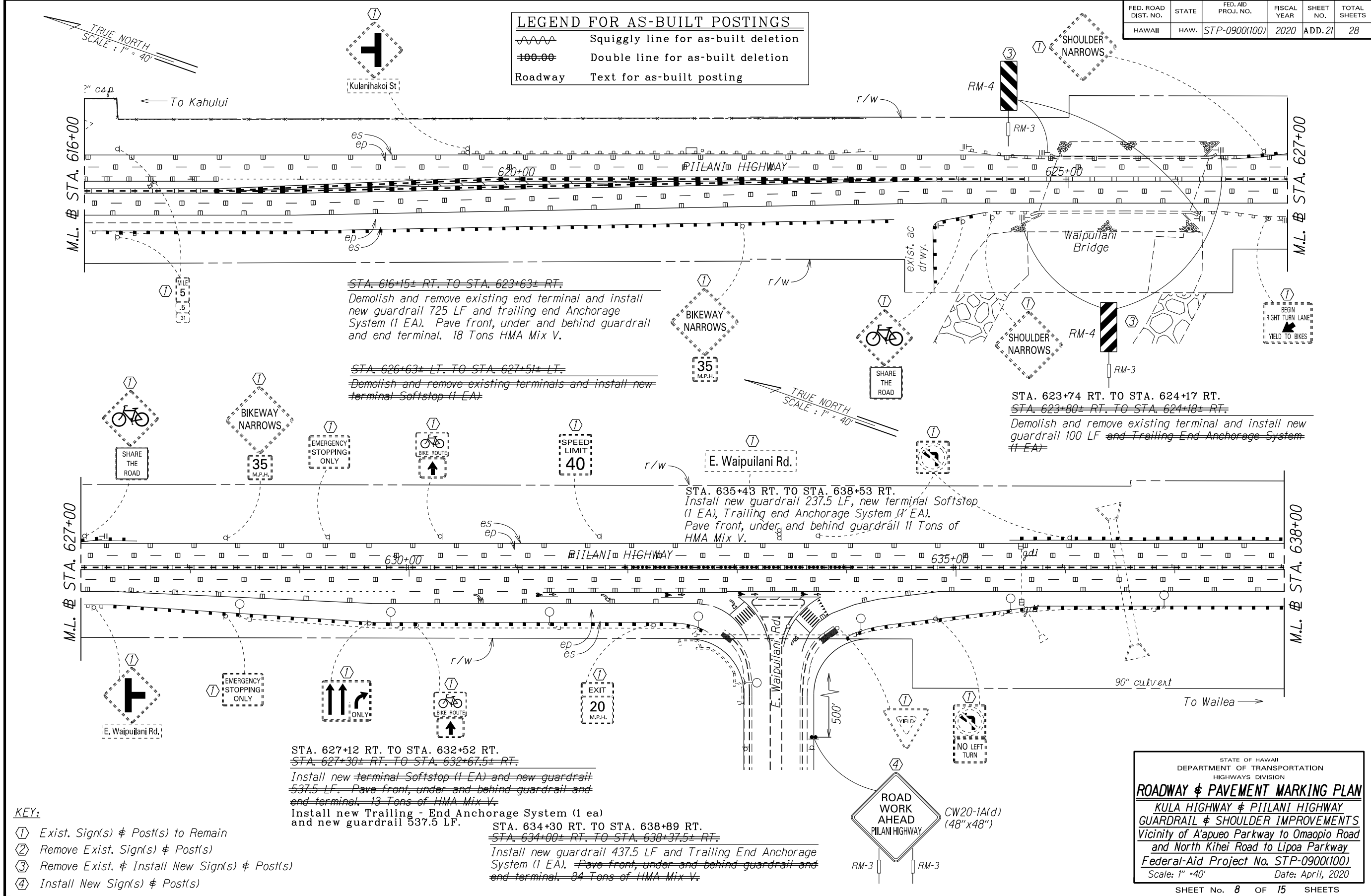
ADD. 19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	20	28



"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	ADD. 21	28



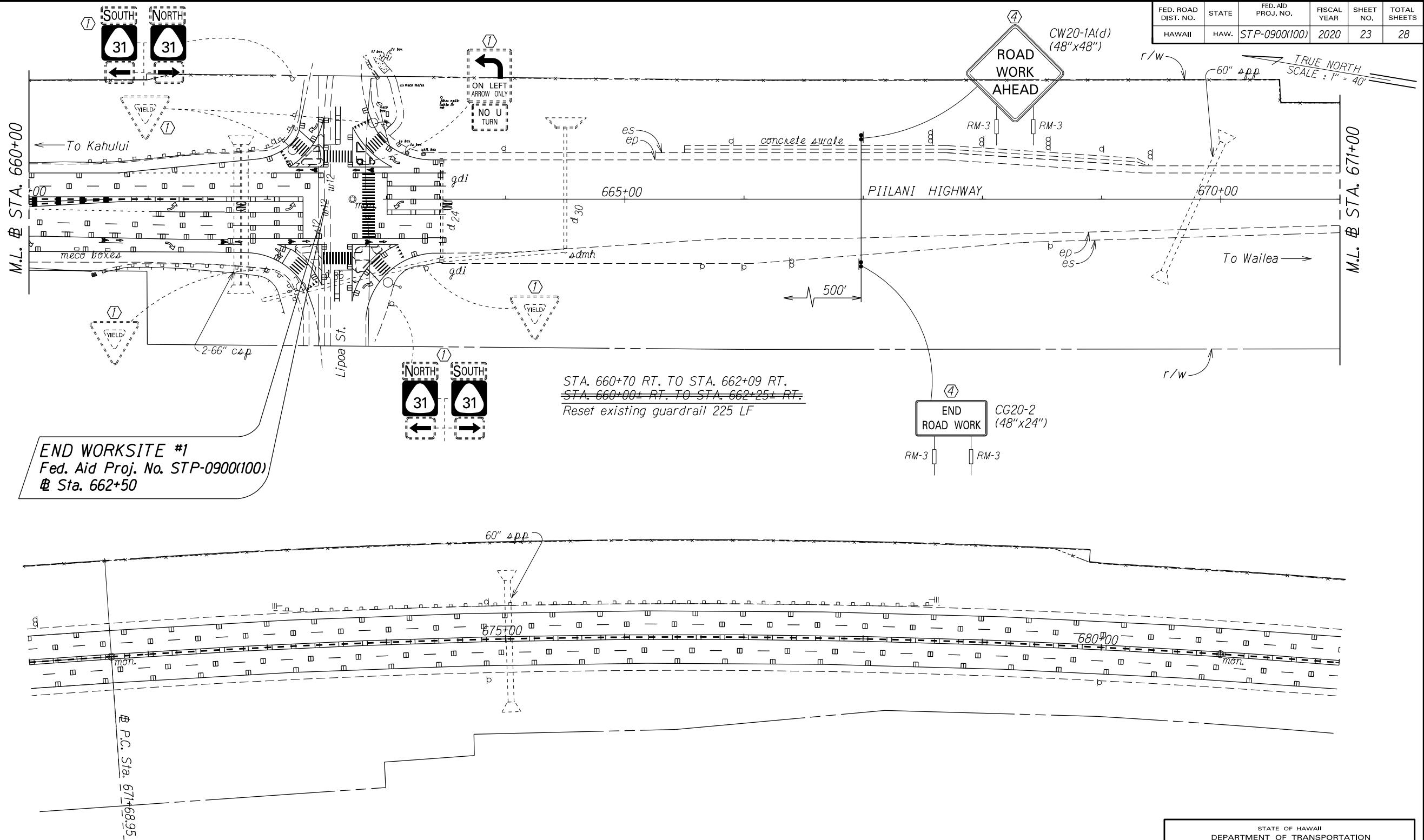
SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

"AS-BUILT"

ADD. 21

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	23	28



SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	N.
NOTE BOOK	

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

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
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 - ④ Install New Sign(s) & Post(s)

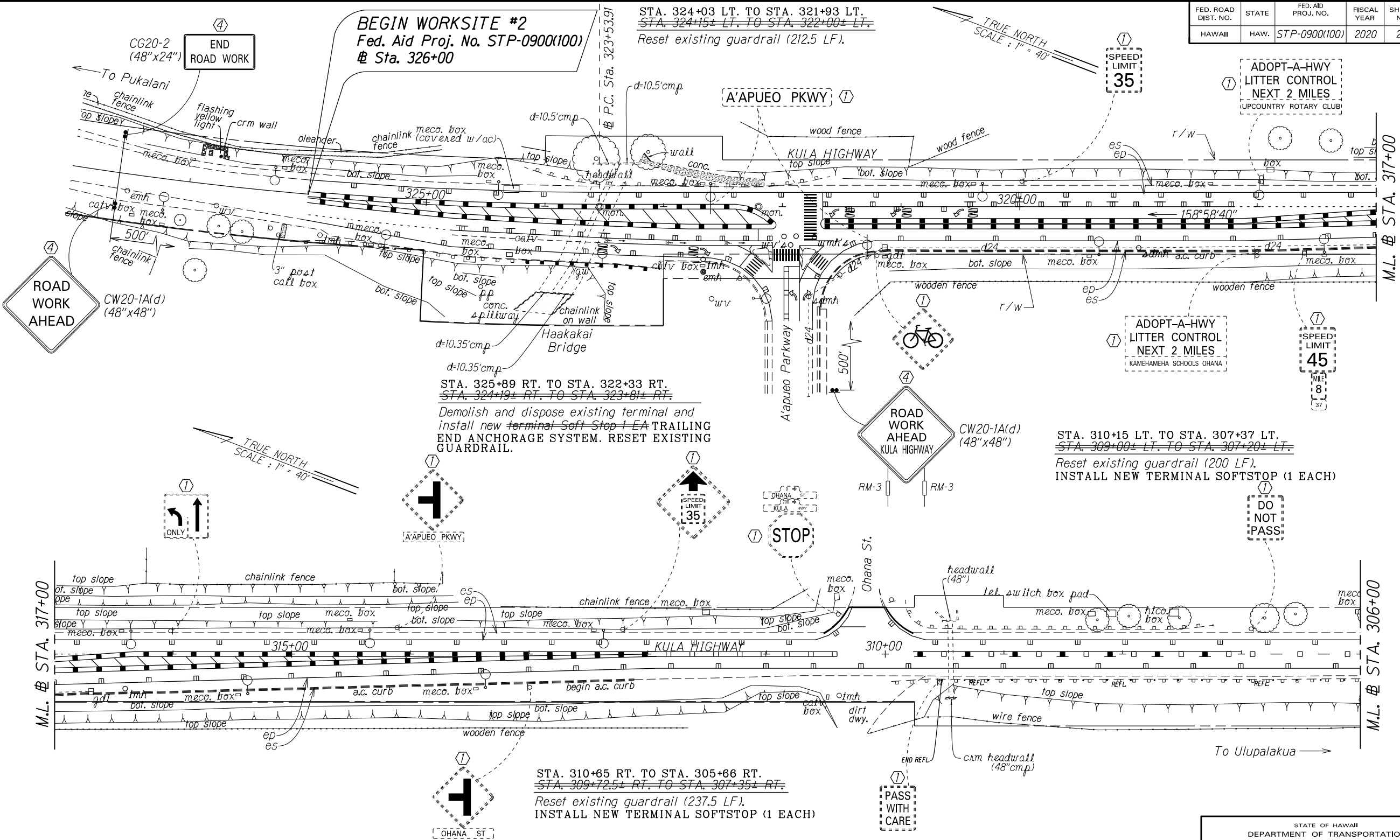
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & PAVEMENT MARKING PLAN

KULA HIGHWAY & PIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of A'apueo Parkway to Omaopio Road
and North Kihei Road to Lipoa Parkway
Federal-Aid Project No. STP-0900(100)
Scale: 1" = 40' Date: April, 2020

SHEET No. 10 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	24	28



SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	
BY	

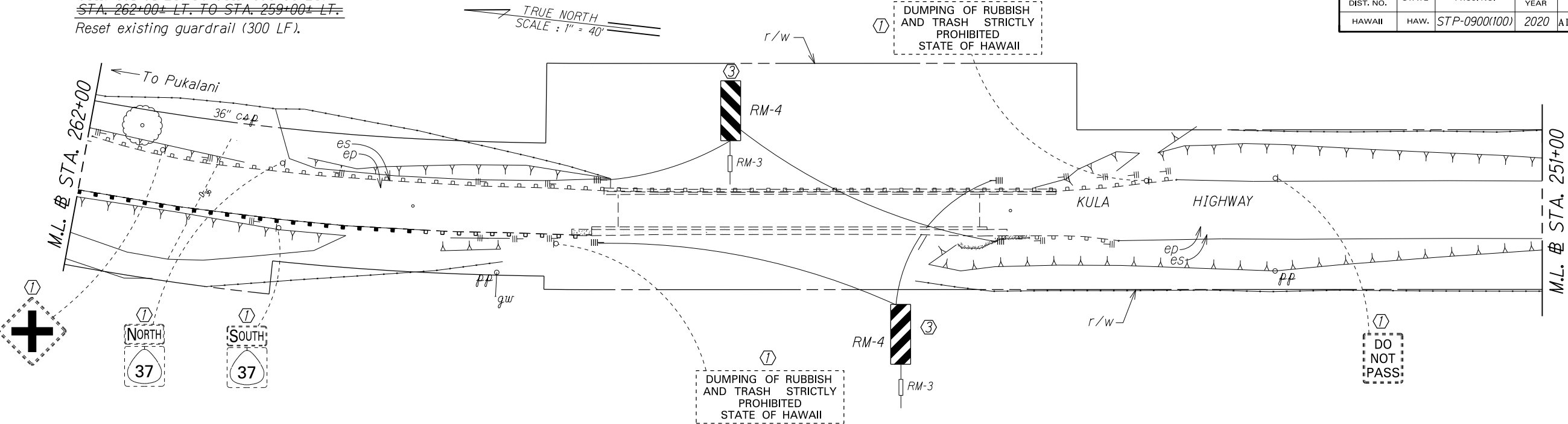
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

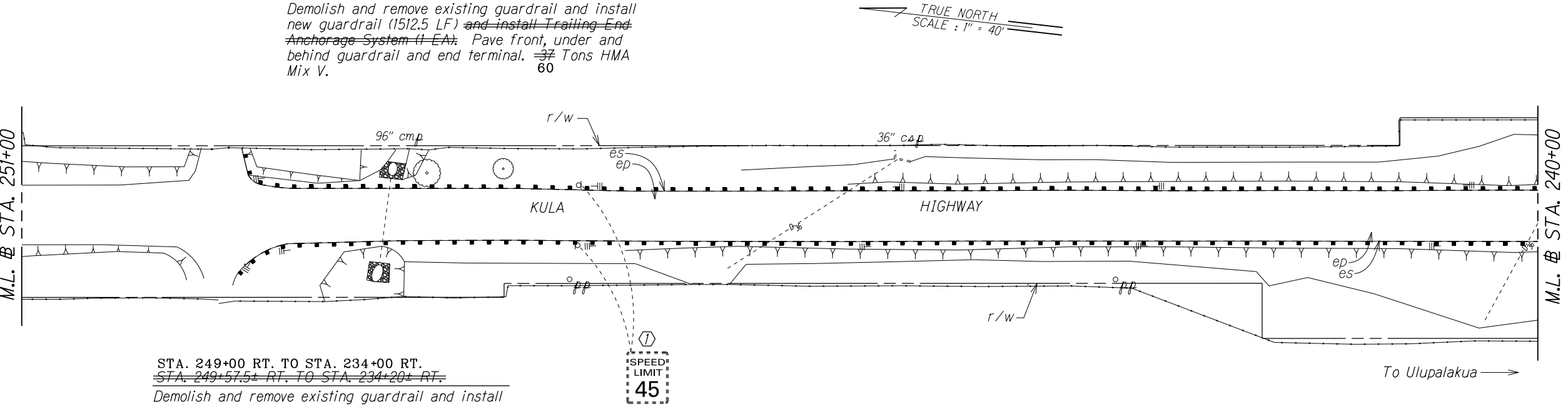
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY & PAVEMENT MARKING PLAN	
KULA HIGHWAY & PIILANI HIGHWAY GUARDRAIL & SHOULDER IMPROVEMENTS Vicinity of A'apueo Parkway to Omaopio Road and North Kihei Road to Lipoa Parkway Federal-Aid Project No. STP-0900(100)	
Scale: 1" = 40'	Date: April, 2020
SHEET No. 11 OF 15 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	ADD.27	28

STA. 261+91 LT. TO STA. 258+38 LT.
~~STA. 262+00± LT. TO STA. 259+00± LT.~~
Reset existing guardrail (300 LF).



STA. 249+00 LT. TO STA. 234+50 LT.
~~STA. 249+40± LT. TO STA. 234+20± LT.~~
Demolish and remove existing guardrail and install new guardrail (1512.5 LF) and install ~~Trailing End Anchorage System~~ (1 EA). Pave front, under and behind guardrail and end terminal. ~~37~~ Tons HMA Mix V.
60



STA. 249+00 RT. TO STA. 234+00 RT.
~~STA. 249+57.5± RT. TO STA. 234+20± RT.~~
Demolish and remove existing guardrail and install new guardrail (1537.5 LF) and install new terminal Softstop (1 EA). Pave front, under and behind guardrail and end terminal. ~~37~~ Tons HMA Mix V.
65

LEGEND FOR AS-BUILT POSTINGS

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

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

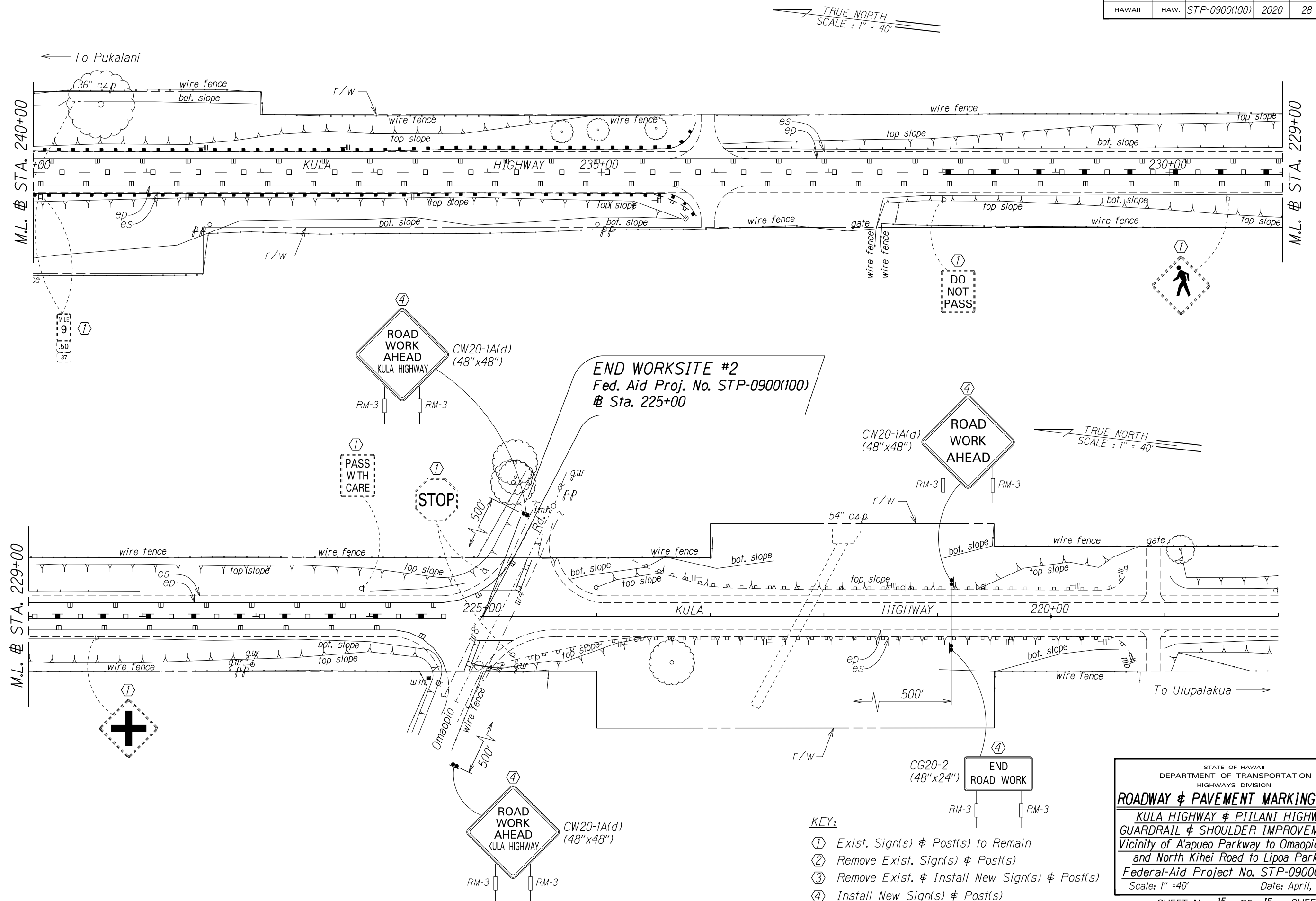
ROADWAY & PAVEMENT MARKING PLAN

KULA HIGHWAY & PIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of A'apueo Parkway to Omaopio Road
and North Kihei Road to Lipoa Parkway
Federal-Aid Project No. STP-0900(100)
Scale: 1" = 40' Date: April, 2020

SHEET No. 14 OF 15 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
N.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0900(100)	2020	28	28



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & PAVEMENT MARKING PLAN

KULA HIGHWAY & PIILANI HIGHWAY
GUARDRAIL & SHOULDER IMPROVEMENTS
Vicinity of A'apue Parkway to Omaopio Road
and North Kihei Road to Lipoa Parkway
Federal-Aid Project No. STP-0900(100)

Scale: 1" = 40' Date: April, 2020

SHEET No. 15 OF 15 SHEETS