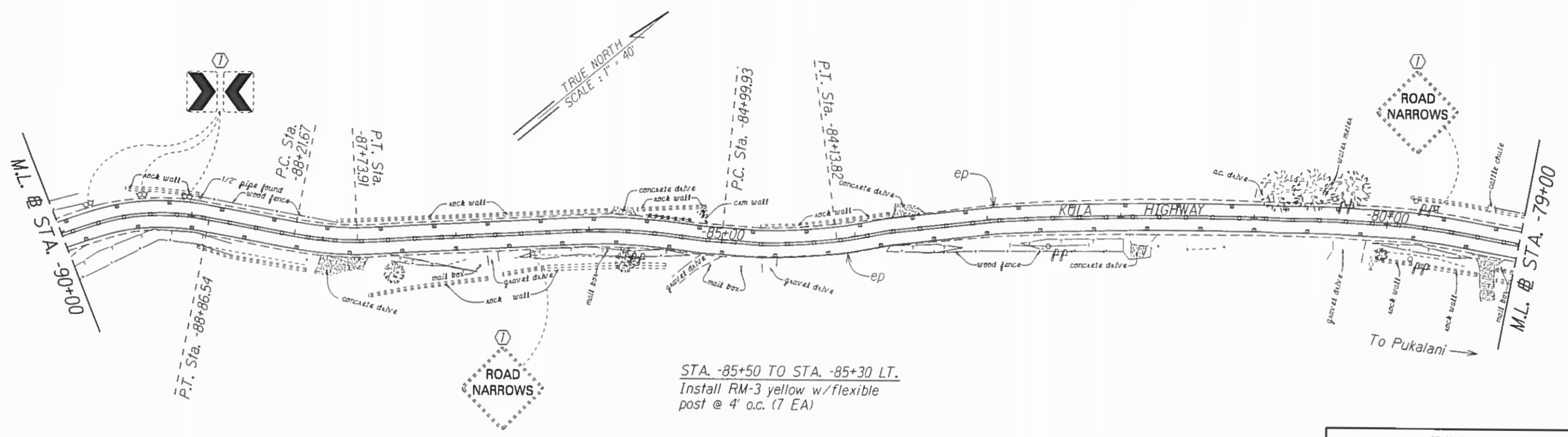
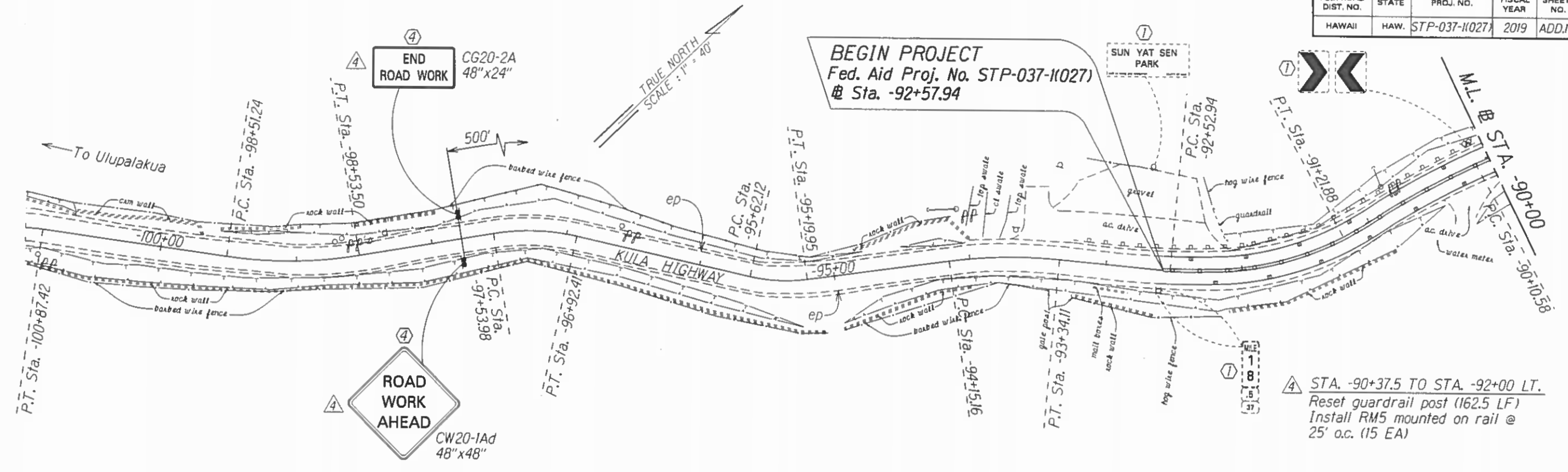


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-110271	2019	ADD.14	35



SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTES BOOSE	
QUANTITIES BY	
CHECKED BY	

NOTE:
Install RM-3 yellow with steel post behind existing guardrail @ 150 ft. o.c. Refer to Standard Sheet TE-14.

- 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)

9/23/19	Revised call out on plan and add Construction Sign.
8/30/19	Issuing Sheet inadvertently left out from original Bid Set.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & PAVEMENT MARKING PLAN

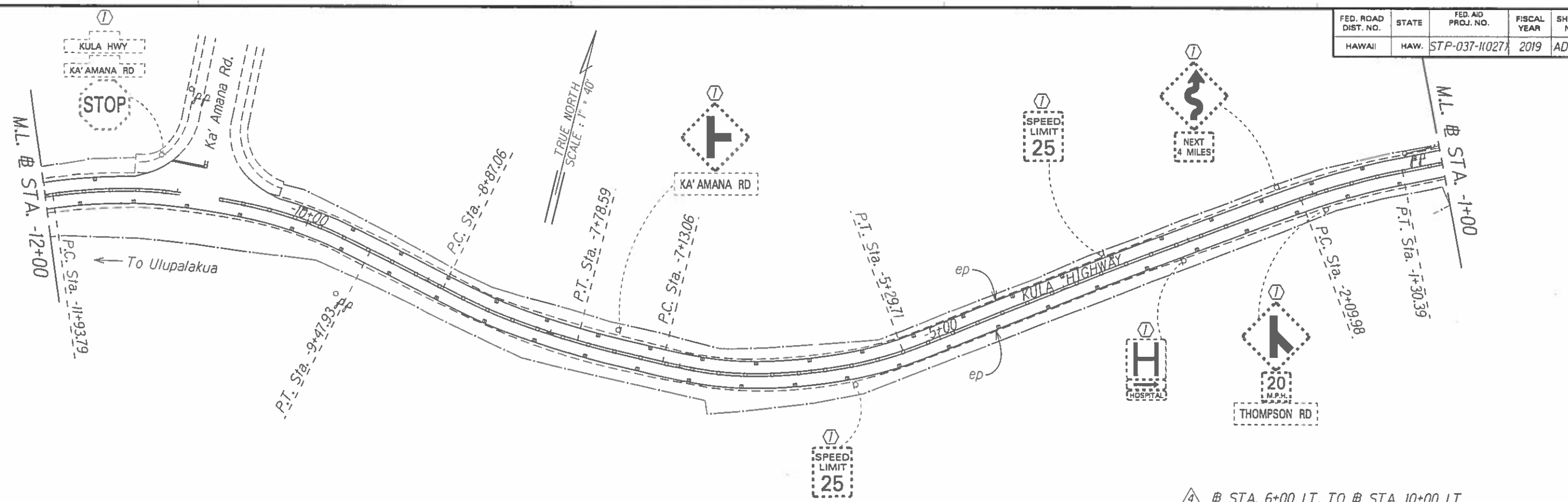
KULA HIGHWAY GUARDRAIL AND SHOULDER IMPROVEMENTS

Omaopio Road to Sun Yat Sen Park

Federal-Aid Project No. STP-037-110271

Scale: 1" = 40' Date: September, 2018

SHEET No. 1 OF 22 SHEETS

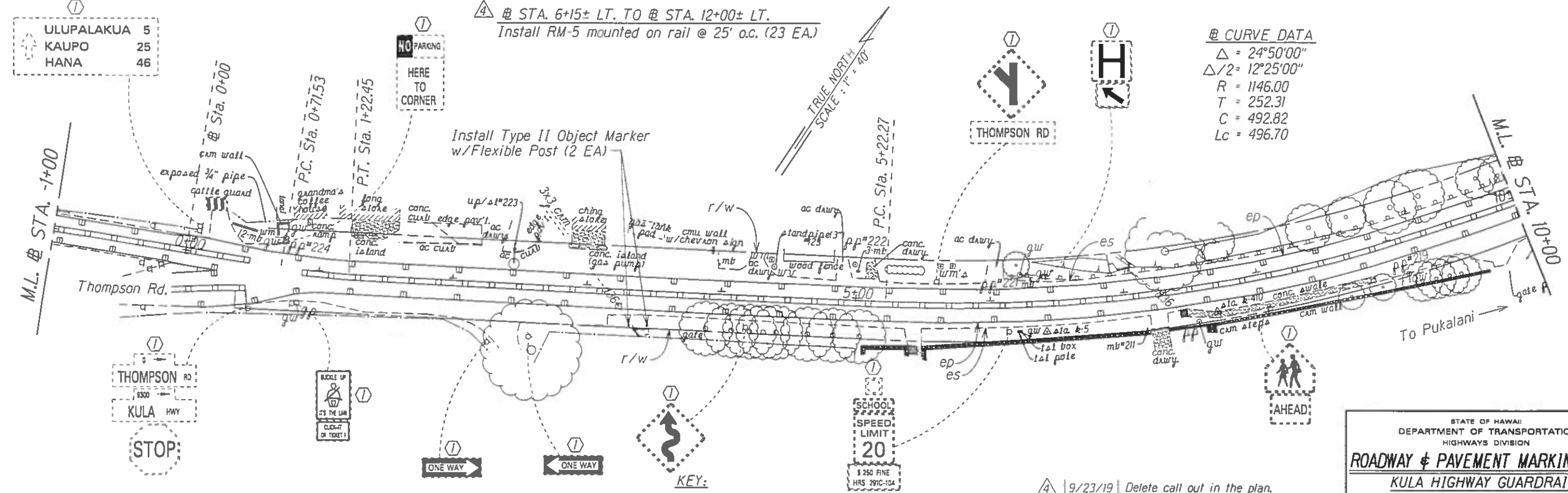


ULUPALAKUA	5
KAUPO	25
HANA	46

④ @ STA. 6+15± LT. TO @ STA. 12+00± LT.
Install RM-5 mounted on rail @ 25' o.c. (23 EA.)

④ @ STA. 6+00 LT. TO @ STA. 10+00 LT.
Install RM-5 mounted on rail @ 25' o.c. (16 EA.)

@ CURVE DATA
 $\Delta = 24^{\circ}50'00''$
 $\Delta/2 = 12^{\circ}25'00''$
 $R = 1146.00$
 $T = 252.31$
 $C = 492.82$
 $L_c = 496.70$



NOTE:
Install RM-3 yellow with steel post behind existing guardrail @ 150 ft. o.c.. Refer to Standard Plan Sheet TE-14.

- 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)

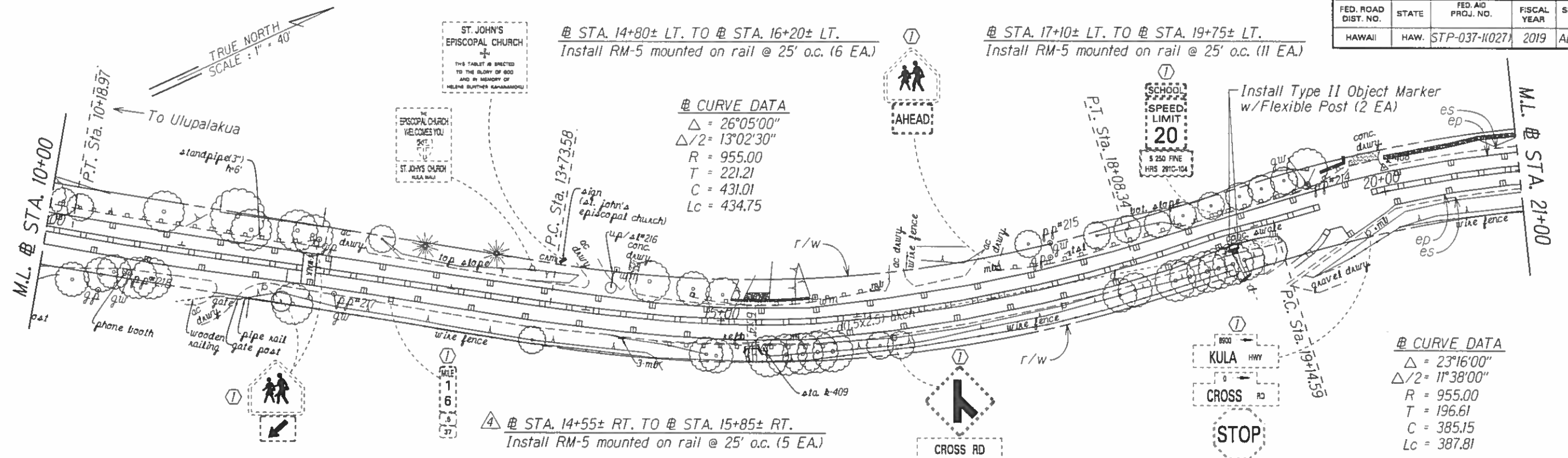
DATE	REVISION
9/23/19	Delete call out in the plan.
8/30/19	Issuing Sheet inadvertently left out from original Bid Set.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

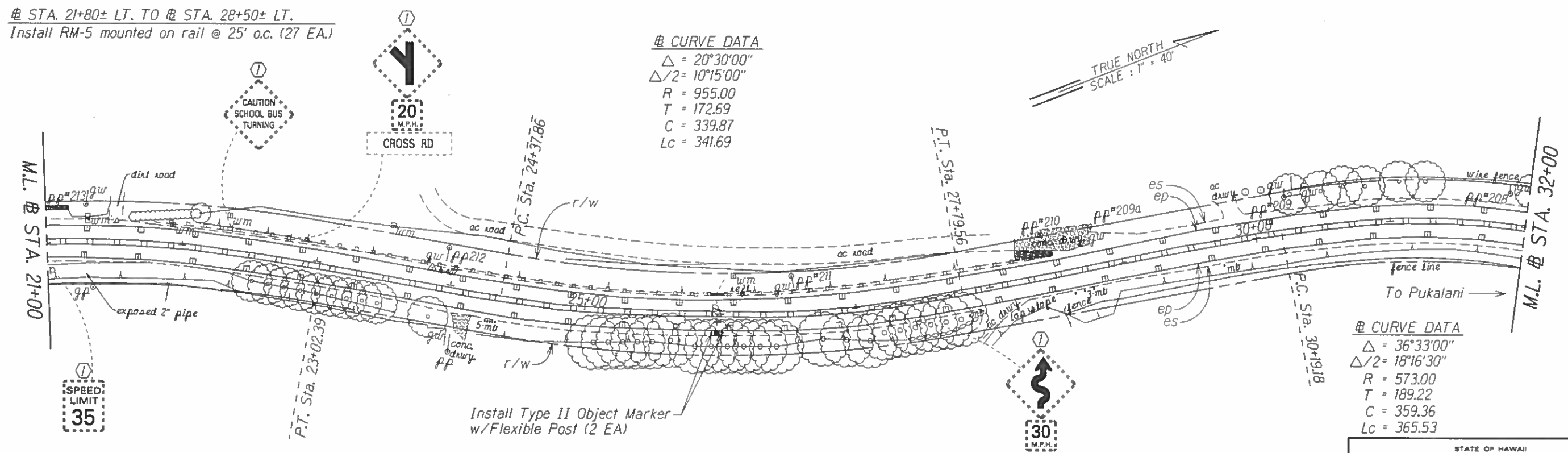
ROADWAY & PAVEMENT MARKING PLAN
KULA HIGHWAY GUARDRAIL AND SHOULDER IMPROVEMENTS
Omaopio Road to Sun Yat Sen Park
Federal-Aid Project No. STP-037-11027

Scale: 1" = 40' Date: September, 2018
SHEET No. 5 OF 22 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-1027	2019	ADD.19	35



④ STA. 14+55± RT. TO STA. 15+85± RT.
Install RM-5 mounted on rail @ 25' o.c. (5 EA.)



NOTE:
Install RM-3 yellow with steel post behind existing guardrail @ 150 ft. o.c.. Refer to Standard Plan Sheet TE-14.

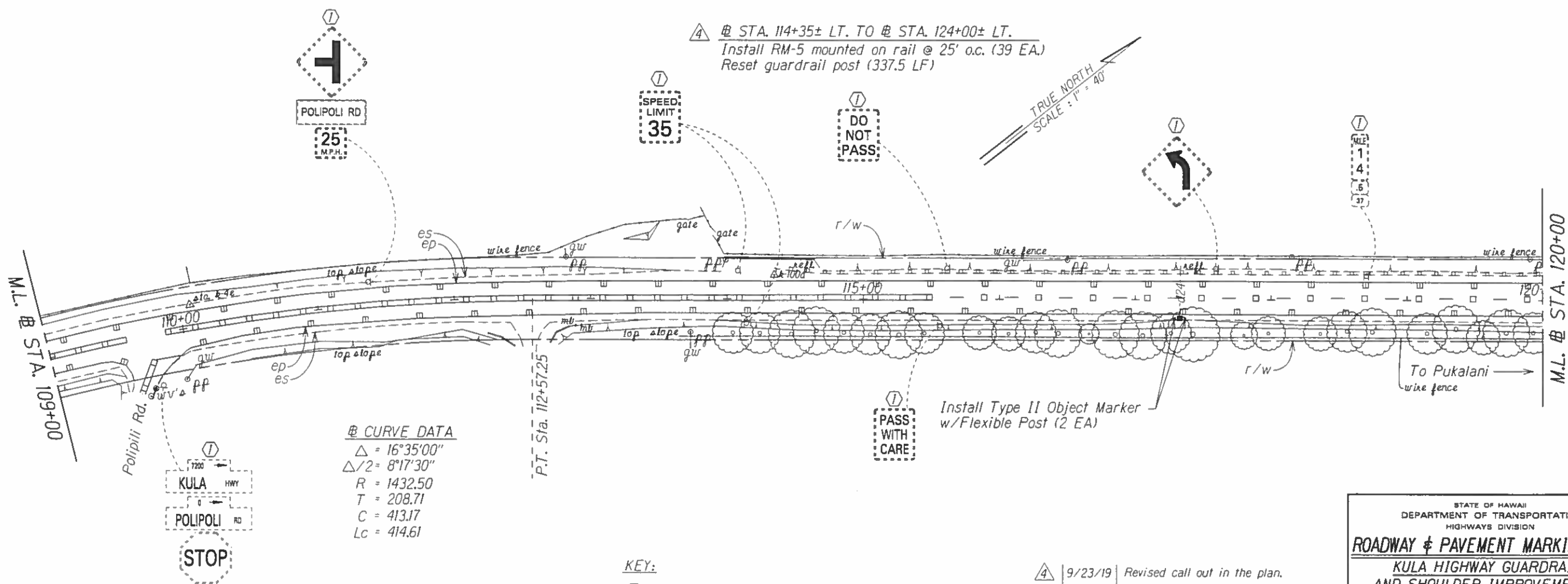
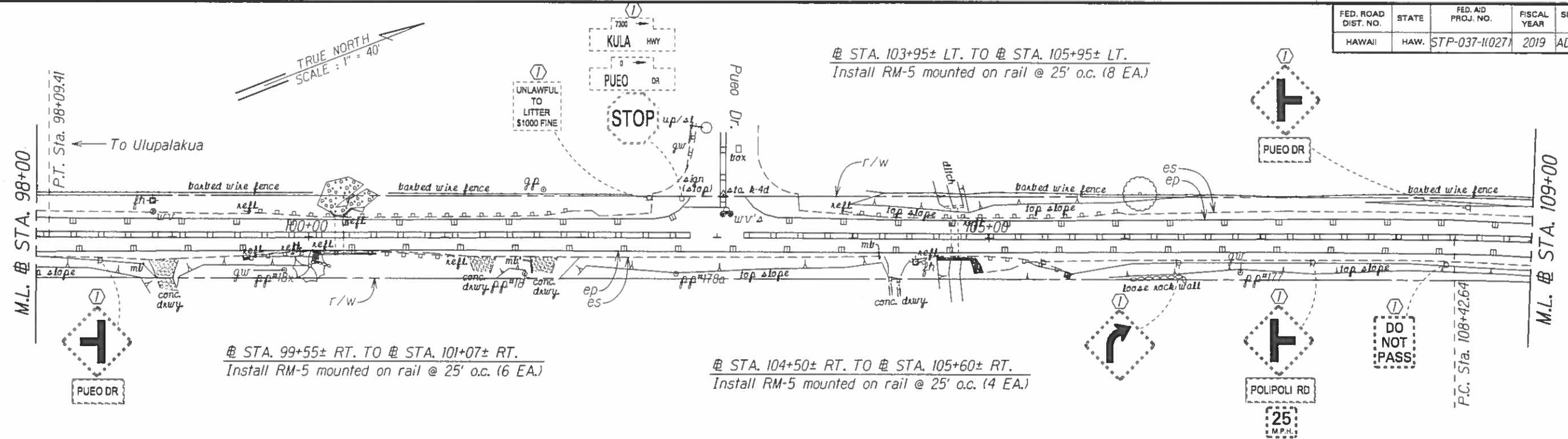
KEY:

- 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)

DATE	REVISION
9/23/19	Add call out in the plan.
8/30/19	Issuing Sheet inadvertently left out from original Bid Set.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY & PAVEMENT MARKING PLAN	
KULA HIGHWAY GUARDRAIL AND SHOULDER IMPROVEMENTS	
Omaopio Road to Sun Yat Sen Park	
Federal-Aid Project No. STP-037-1027	
Scale: 1" = 40'	Date: September, 2018
SHEET No. 6 OF 22 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-110271	2019	ADD.23	35



@ CURVE DATA
 $\Delta = 16^\circ 35' 00''$
 $\Delta/2 = 8^\circ 17' 30''$
 $R = 1432.50$
 $T = 208.71$
 $C = 413.17$
 $L_c = 414.61$

NOTE:
 Install RM-3 yellow with steel post behind existing guardrail @ 150 ft. o.c. Refer to Standard Plan Sheet TE-14.

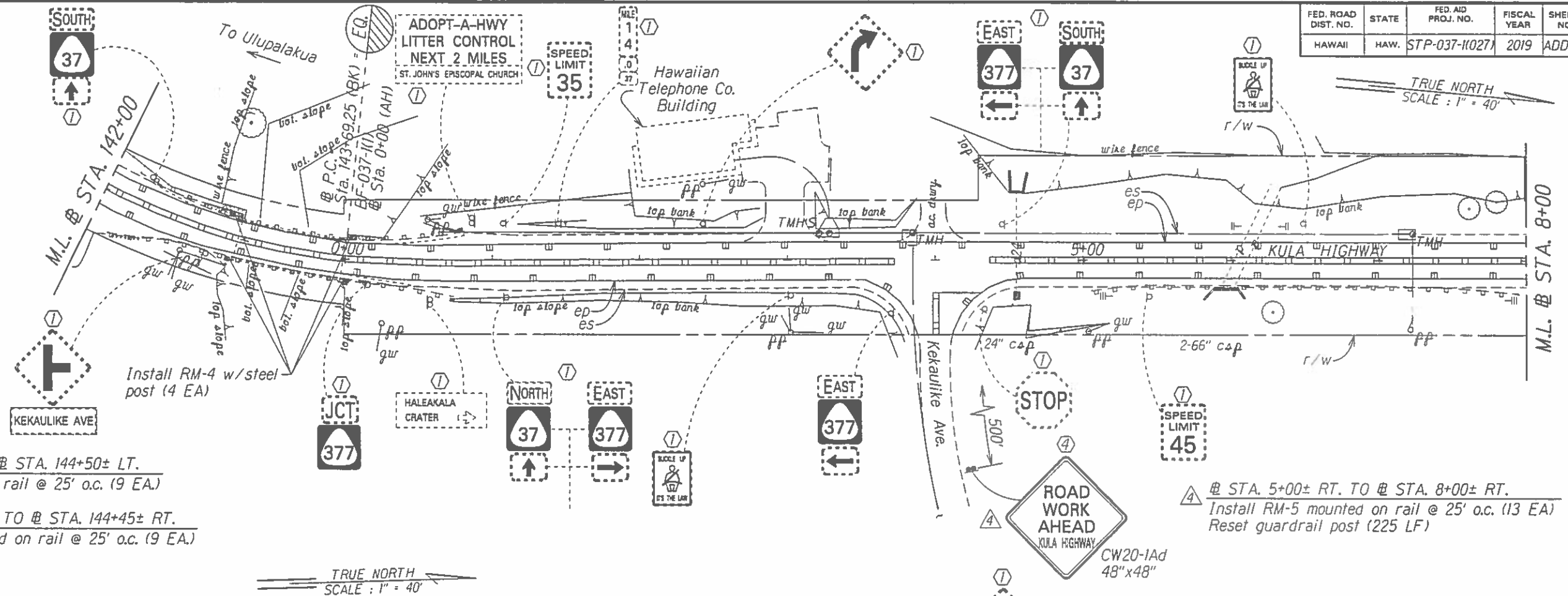
KEY:

- 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)

9/23/19	Revised call out in the plan.
8/30/19	Issuing Sheet inadvertently left out from original Bid Set.
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
ROADWAY & PAVEMENT MARKING PLAN
KULA HIGHWAY GUARDRAIL AND SHOULDER IMPROVEMENTS
Omaopio Road to Sun Yat Sen Park
Federal-Aid Project No. STP-037-110271
Scale: 1" = 40' Date: September, 2018
SHEET No. 10 OF 22 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-110271	2019	ADD.25	35

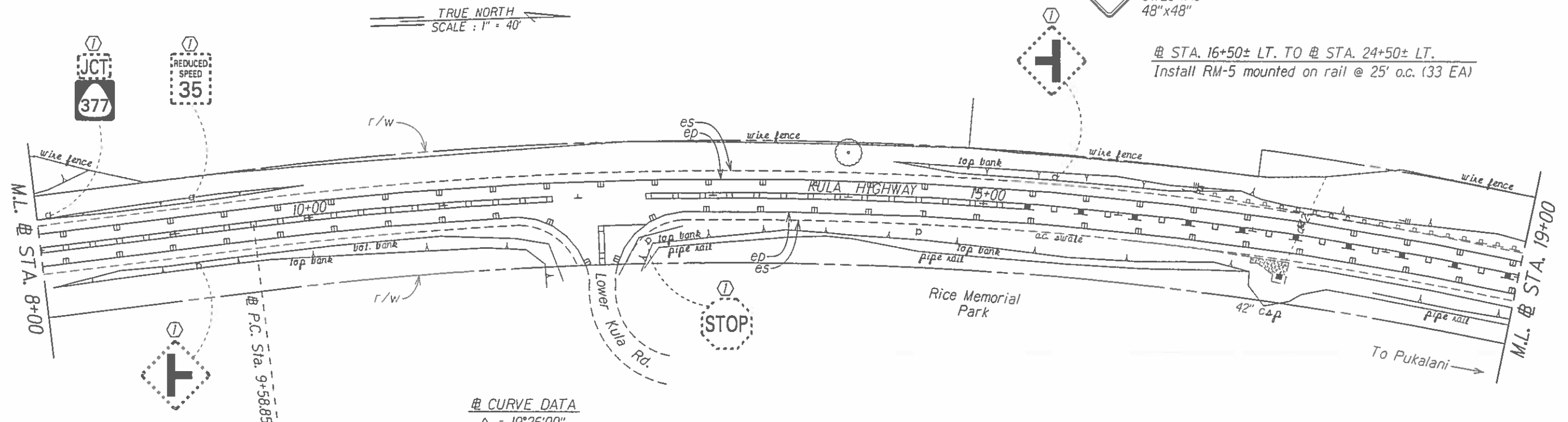


④ STA. 142+20± LT. TO STA. 144+50± LT.
Install RM-5 mounted on rail @ 25' o.c. (9 EA)

④ STA. 142+15± RT. TO STA. 144+45± RT.
Install RM-5 mounted on rail @ 25' o.c. (9 EA)

④ STA. 5+00± RT. TO STA. 8+00± RT.
Install RM-5 mounted on rail @ 25' o.c. (13 EA)
Reset guardrail post (225 LF)

④ STA. 16+50± LT. TO STA. 24+50± LT.
Install RM-5 mounted on rail @ 25' o.c. (33 EA)



④ CURVE DATA
 $\Delta = 19^\circ 26' 00''$
 $R = 2864.79$
 $T = 490.55$
 $C = 967.02$
 $L_c = 971.67$
 $S. E. = 0.046 \text{ ft/ft}$

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)

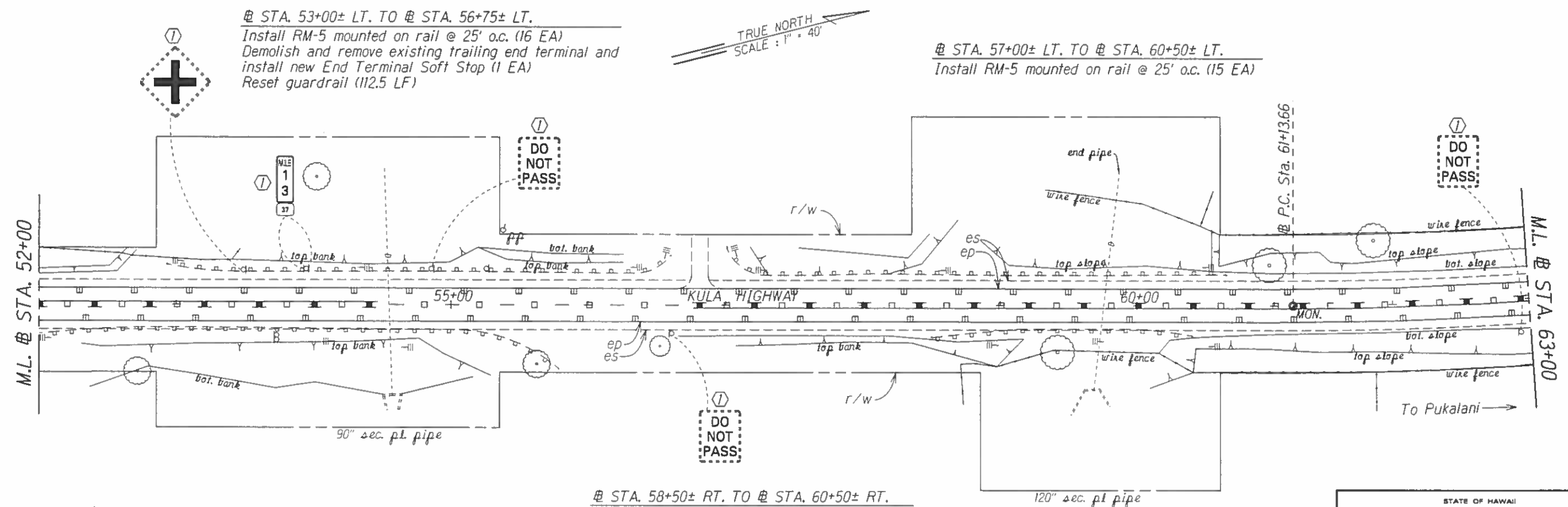
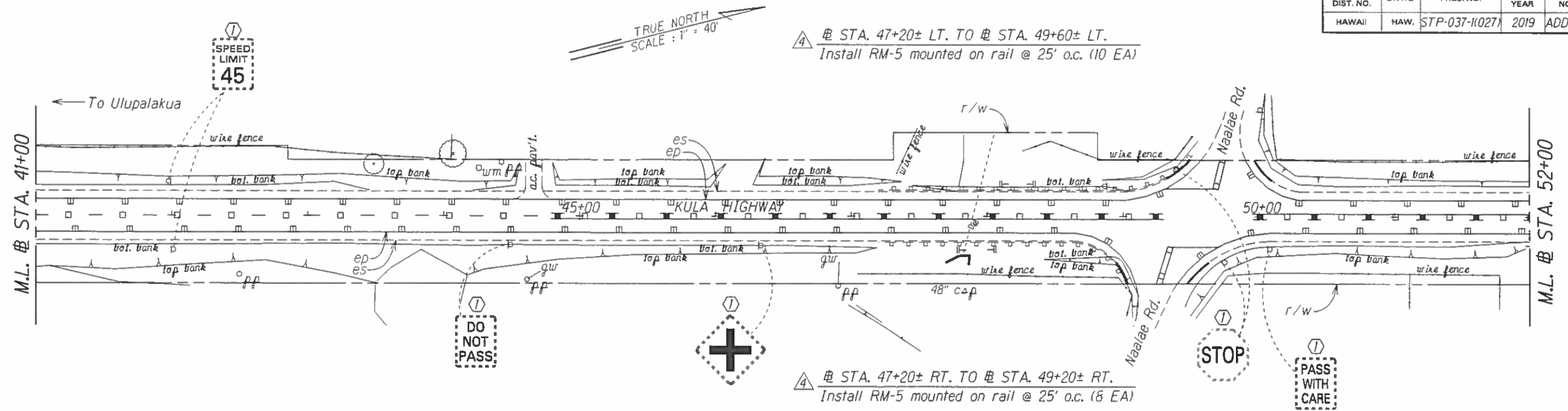
NOTE:

Install RM-3 yellow with steel post behind existing guardrail @ 150 ft. o.c.. Refer to Standard Plan Sheet TE-14.

DATE	REVISION
9/23/19	Revised call out on plan. Add Construction Sign.
8/30/19	Issuing Sheet inadvertently left out from original Bid Set.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY & PAVEMENT MARKING PLAN	
KULA HIGHWAY GUARDRAIL AND SHOULDER IMPROVEMENTS	
Omaopio Road to Sun Yat Sen Park	
Federal-Aid Project No. STP-037-110271	
Scale: 1" = 40'	Date: September, 2018
SHEET No. 12 OF 22 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-1(027)	2019	ADD.27	35



@ STA. 52+00± RT. TO @ STA. 55+75± RT.
Install RM-5 mounted on rail @ 25' o.c. (16 EA)
Reset guardrail post (175 LF)

@ STA. 58+50± RT. TO @ STA. 60+50± RT.
 Install RM-5 mounted on rail @ 25' o.c. (9 EA)
 Reset guardrail post (100 LF)

KEY:

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

4	9/23/19	Revised call out in the plan.
	8/30/19	Issuing Sheet inadvertently left out from original Bid Set.

DATE	REVISION
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY & PAVEMENT MARKING PLAN

KULA HIGHWAY GUARDRAIL
AND SHOULDER IMPROVEMENTS

Omaopio Road to Sun Yat Sen Park
Federal-Aid Project No. STP-037-IK0271

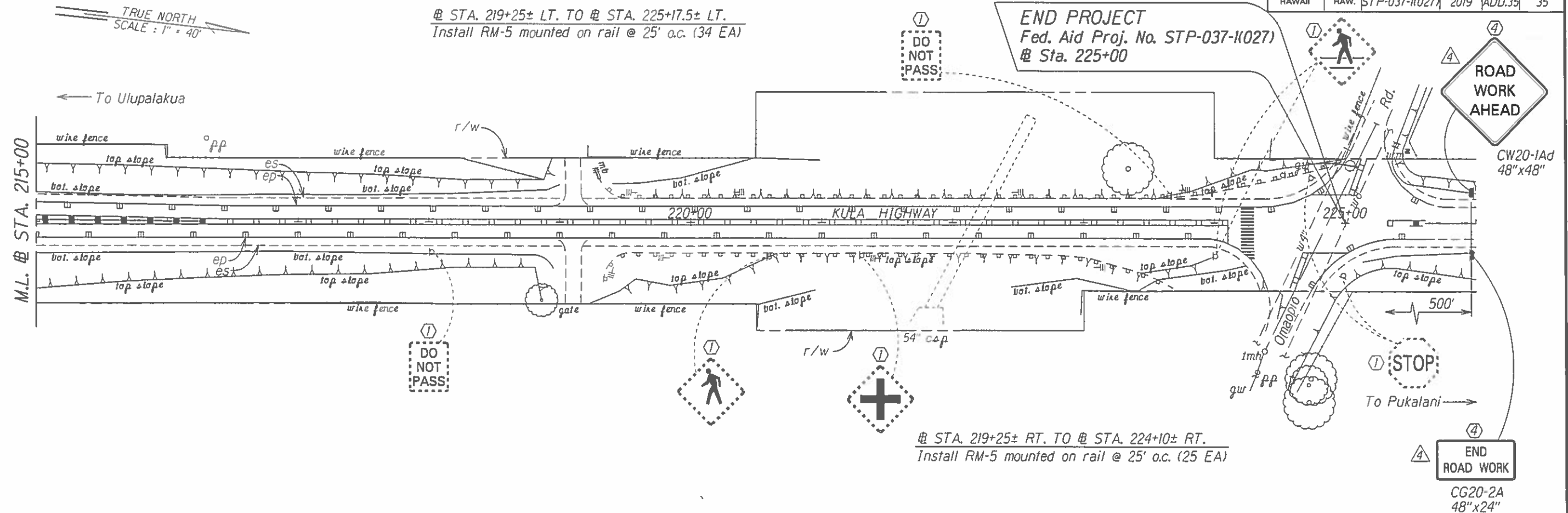
Scale: 1" = 40' Date: September, 2018

SHEET No. 14 OF 22 SHEETS

ADD. 27

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-037-11(027)	2019	ADD.35	35



NOTE:
Install RM-3 yellow with steel post behind existing guardrail
@ 150 ft. o.c.. Refer to Standard Plan Sheet TE-14.

- 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)

④	9/23/19	Add Construction Signs.
	8/30/19	Issuing Sheet inadvertently left out from original Bid Set.
DATE	REVISION	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ROADWAY & PAVEMENT MARKING PLAN	
KULA HIGHWAY GUARDRAIL AND SHOULDER IMPROVEMENTS	
Omaopio Road to Sun Yat Sen Park	
Federal-Aid Project No. STP-037-11(027)	
Scale: 1" = 40'	Date: September, 2018
SHEET No. 22 OF 22 SHEETS	