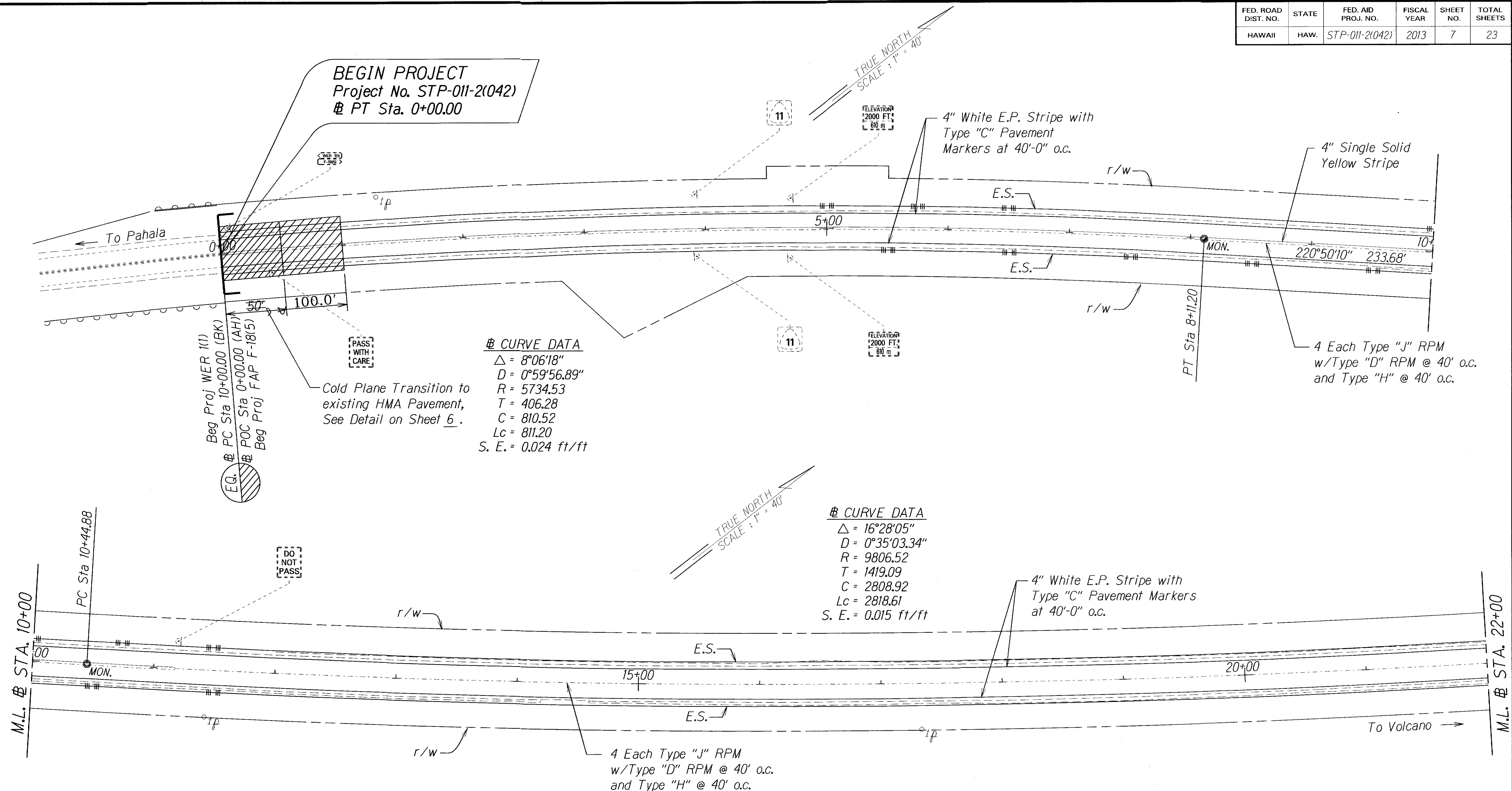


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	7	23



Notes:

1. All existing signs (dashed) with post are to remain.
2. All existing signs in conflict with construction signs are to be covered.
3. This work shall be considered incidental to various contract items.

Bi-Directional RM-3,
White Reflector Marker
w/ Flex Post

LEGEND FOR AS-BUILT POSTINGS

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
MAMALAHOA HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Kapapala Ranch To
Hawai'i Volcanoes National Park
Federal Aid Project No. STP-011-2(042)
Scale: 1"=40' Date: February, 2013

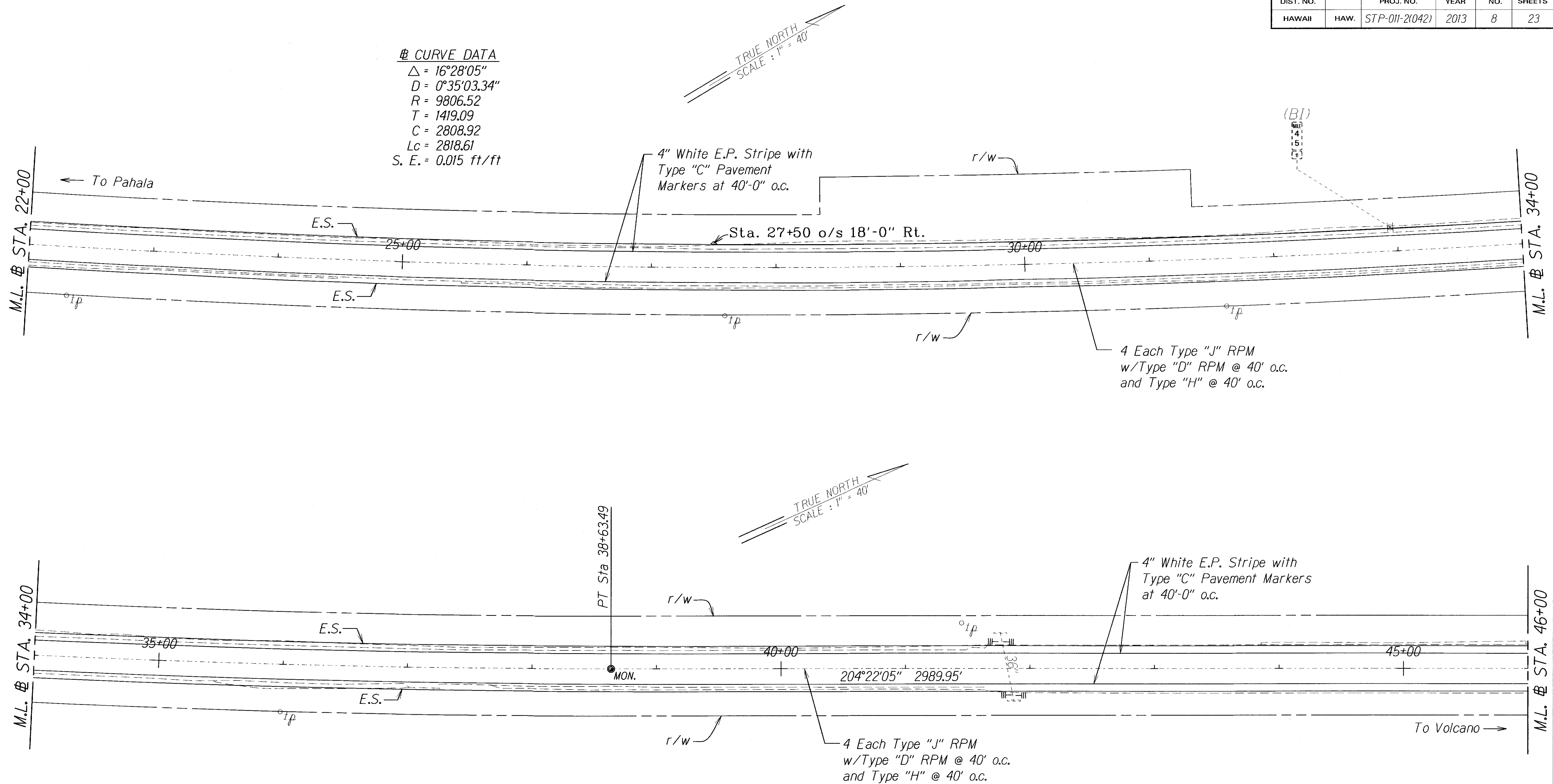
SHEET No. 1 OF 14 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	8	23

⊕ CURVE DATA

$\Delta = 16^{\circ}28'05''$
 $D = 0^{\circ}35'03.34''$
 $R = 9806.52$
 $T = 1419.09$
 $C = 2808.92$
 $Lc = 2818.61$
 $S. E. = 0.015 \text{ ft/ft}$



Notes:

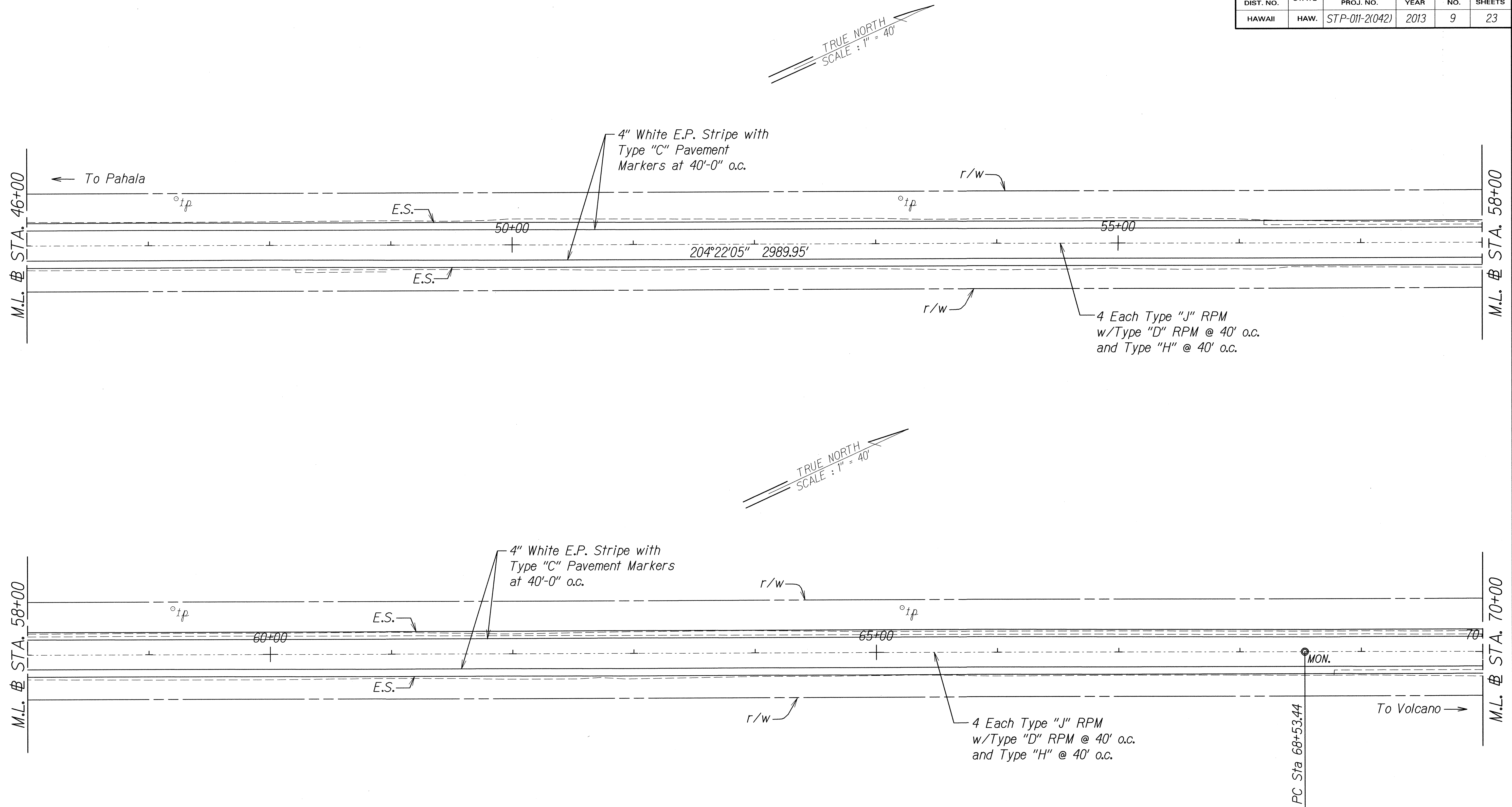
1. All existing signs (dashed) with post are to remain.
2. All existing signs in conflict with construction signs are to be covered.
3. This work shall be considered incidental to various contract items.

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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLAN
 MAMALAHOA HIGHWAY
 PAVEMENT PREVENTIVE MAINTENANCE
 Kapapala Ranch To
 Hawai'i Volcanoes National Park
 Federal Aid Project No. STP-011-2(042)
 Scale: 1"=40' Date: February, 2013
 SHEET No. 2 OF 14 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	9	23



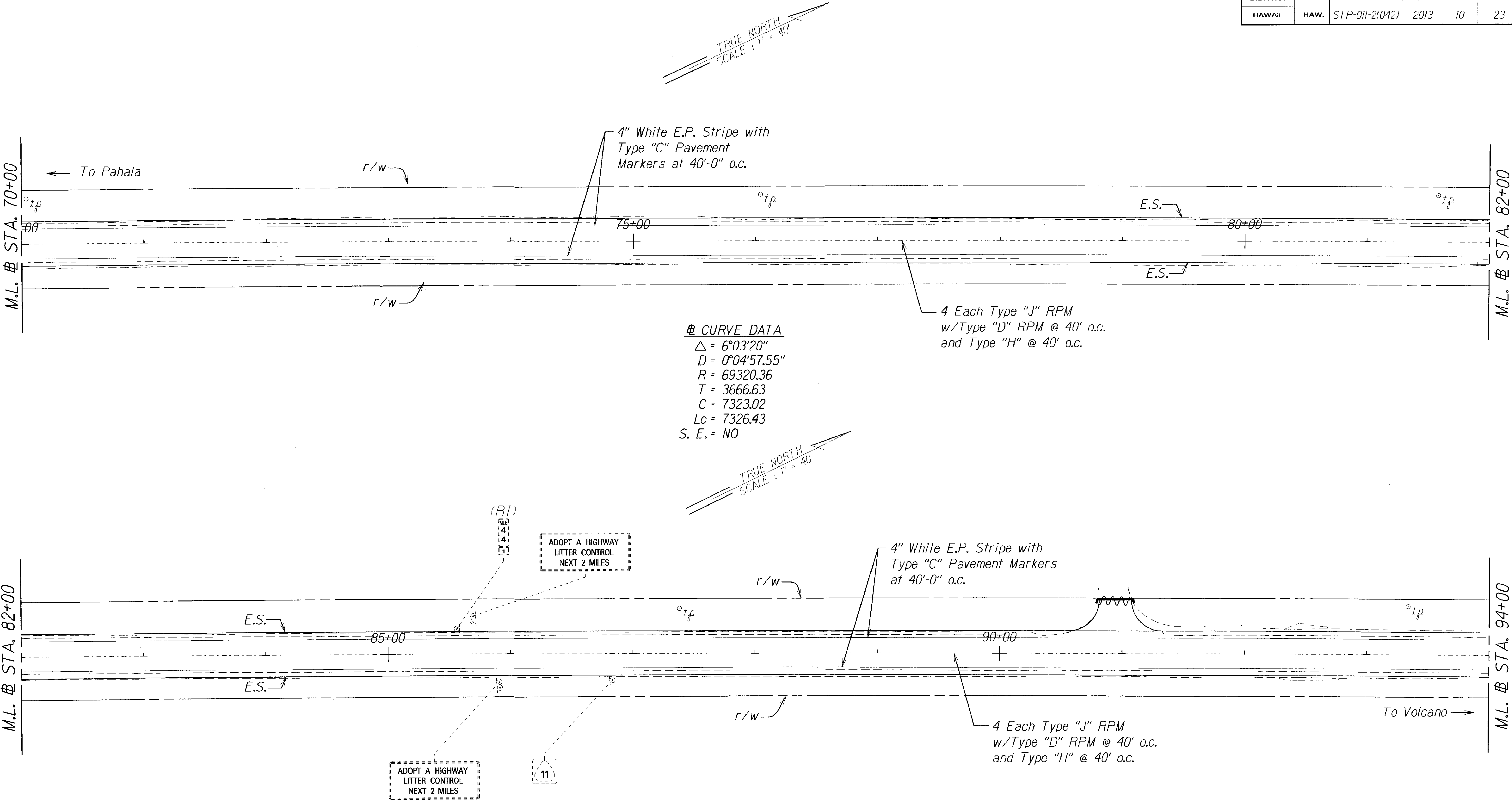
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

Notes:

1. All existing signs (dashed) with post are to remain.
2. All existing signs in conflict with construction signs are to be covered.
3. This work shall be considered incidental to various contract items.

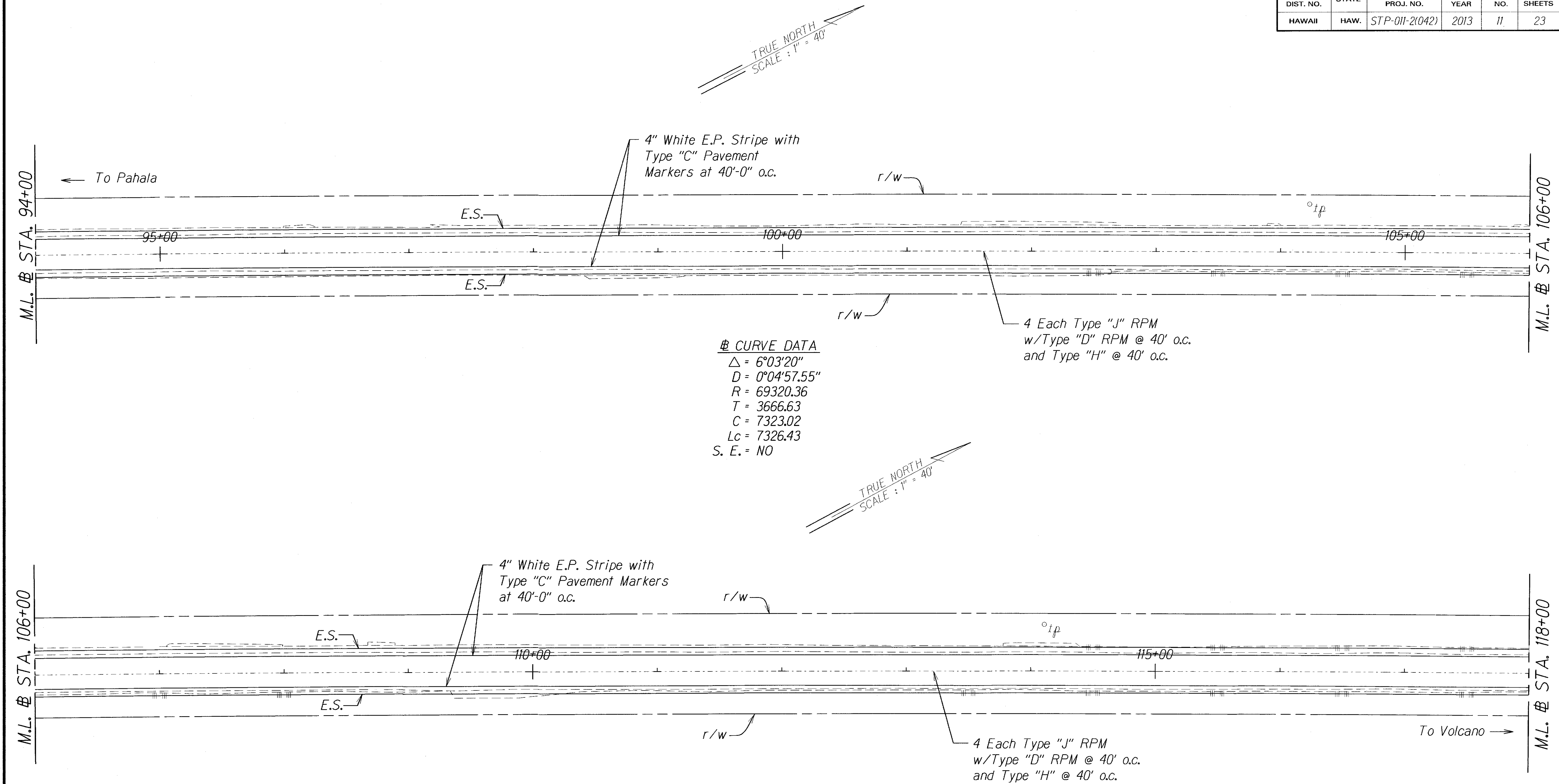
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
MAMALAHOA HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Kapapala Ranch To
Hawai'i Volcanoes National Park
Federal Aid Project No. STP-011-2(042)
Scale: 1"=40' Date: February, 2013
SHEET No. 3 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	10	23



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	11	23



△ CURVE DATA

△ = 6°03'20"
D = 0°04'57.55"
R = 69320.36
T = 3666.63
C = 7323.02
Lc = 7326.43
S. E. = NO

Bi-Directional RM-3,
White Reflection
Markers w/ Flex Post

LEGEND FOR
AS-BUILT POSTINGS

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

- Notes:
1. All existing signs (dashed) with post are to remain.
 2. All existing signs in conflict with construction signs are to be covered.
 3. This work shall be considered incidental to various contract items.

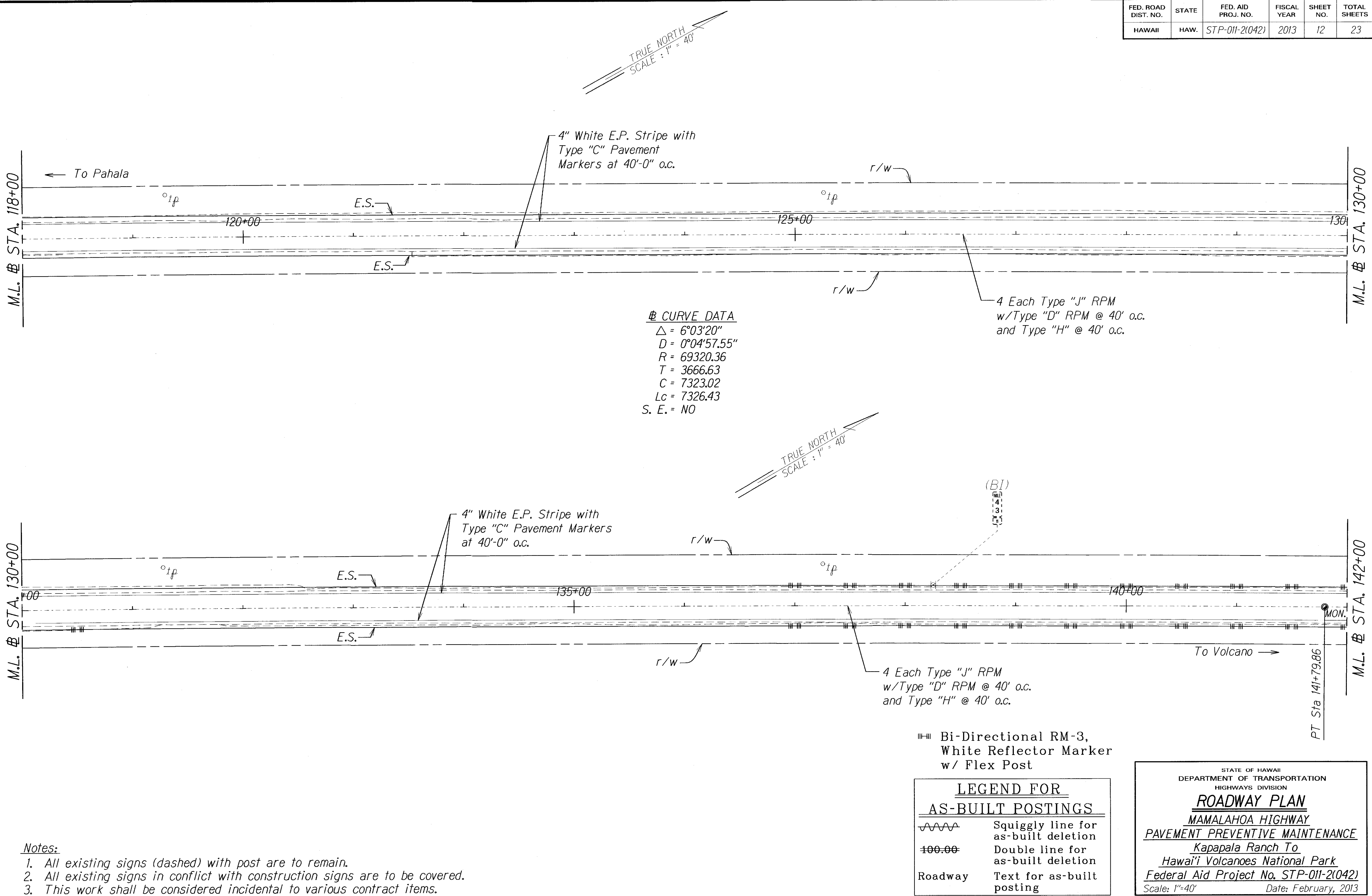
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
MAMALAHOA HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Kapapala Ranch To
Hawai'i Volcanoes National Park
Federal Aid Project No. STP-011-2(042)
Scale: 1"=40' Date: February, 2013

SHEET No. 5 OF 14 SHEETS

"AS-BUILT"

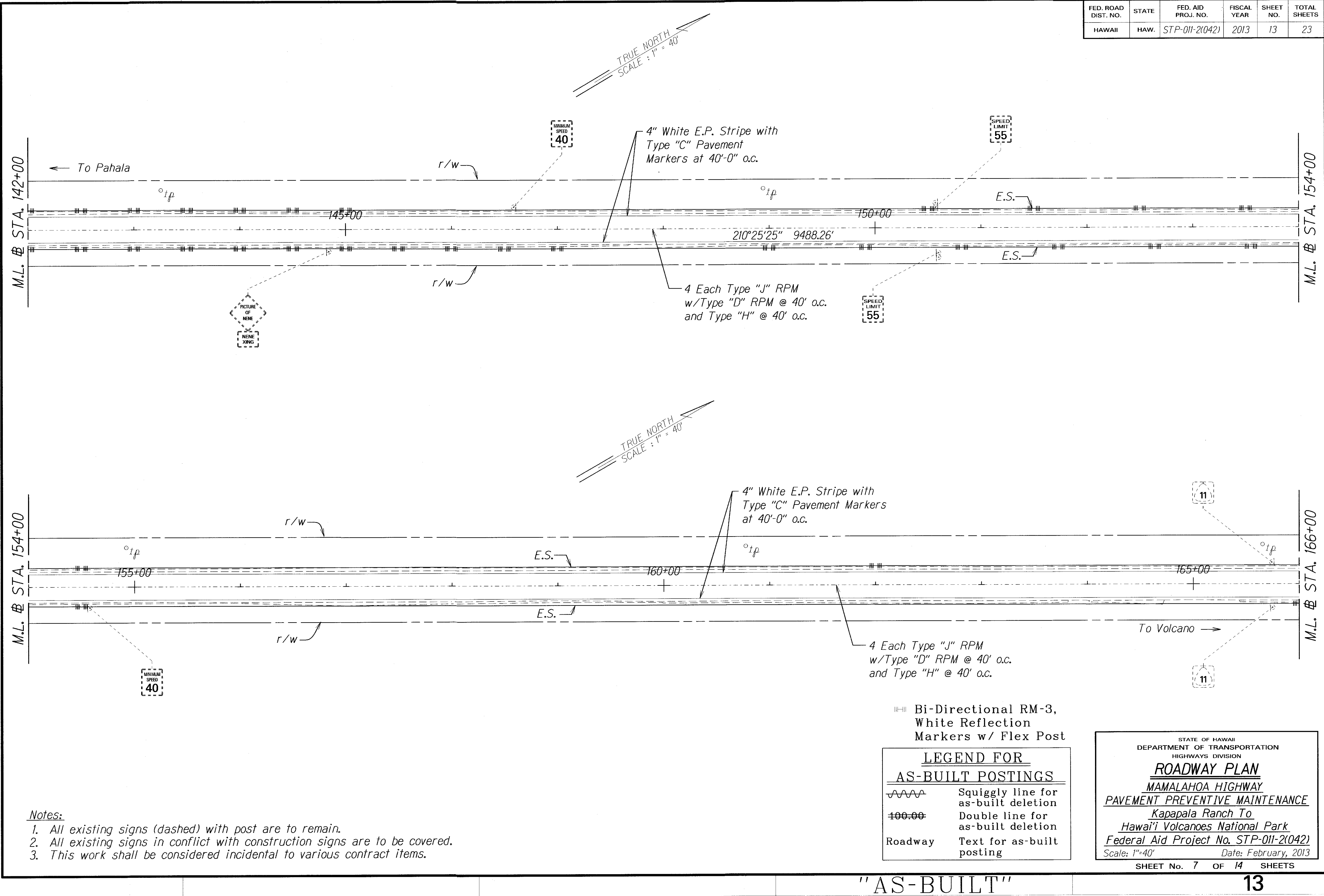
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	12	23



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	13	23



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY		
DESIGNED BY		
CHECKED BY		
NOTED BY		
DATE		

Notes:

1. All existing signs (dashed) with post are to remain.
2. All existing signs in conflict with construction signs are to be covered.
3. This work shall be considered incidental to various contract items.

Bi-Directional RM-3,
White Reflection
Markers w/ Flex Post

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

MAMALAHOA HIGHWAY

PAVEMENT PREVENTIVE MAINTENANCE

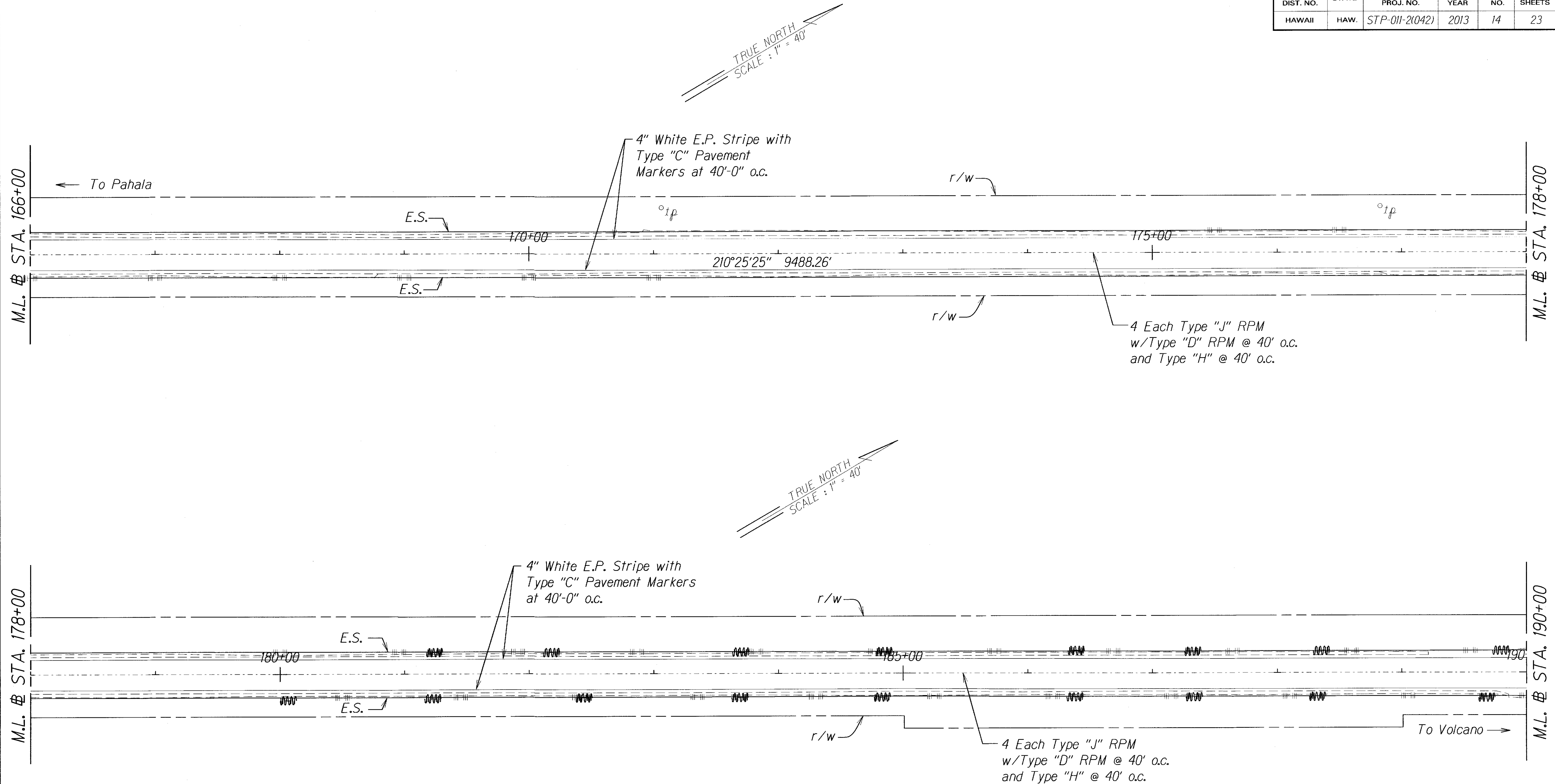
Kapapala Ranch To
Hawai'i Volcanoes National Park

Federal Aid Project No. STP-011-2(042)

Scale: 1"=40' Date: February, 2013

SHEET No. 7 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	14	23



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	

- Notes:
1. All existing signs (dashed) with post are to remain.
 2. All existing signs in conflict with construction signs are to be covered.
 3. This work shall be considered incidental to various contract items.

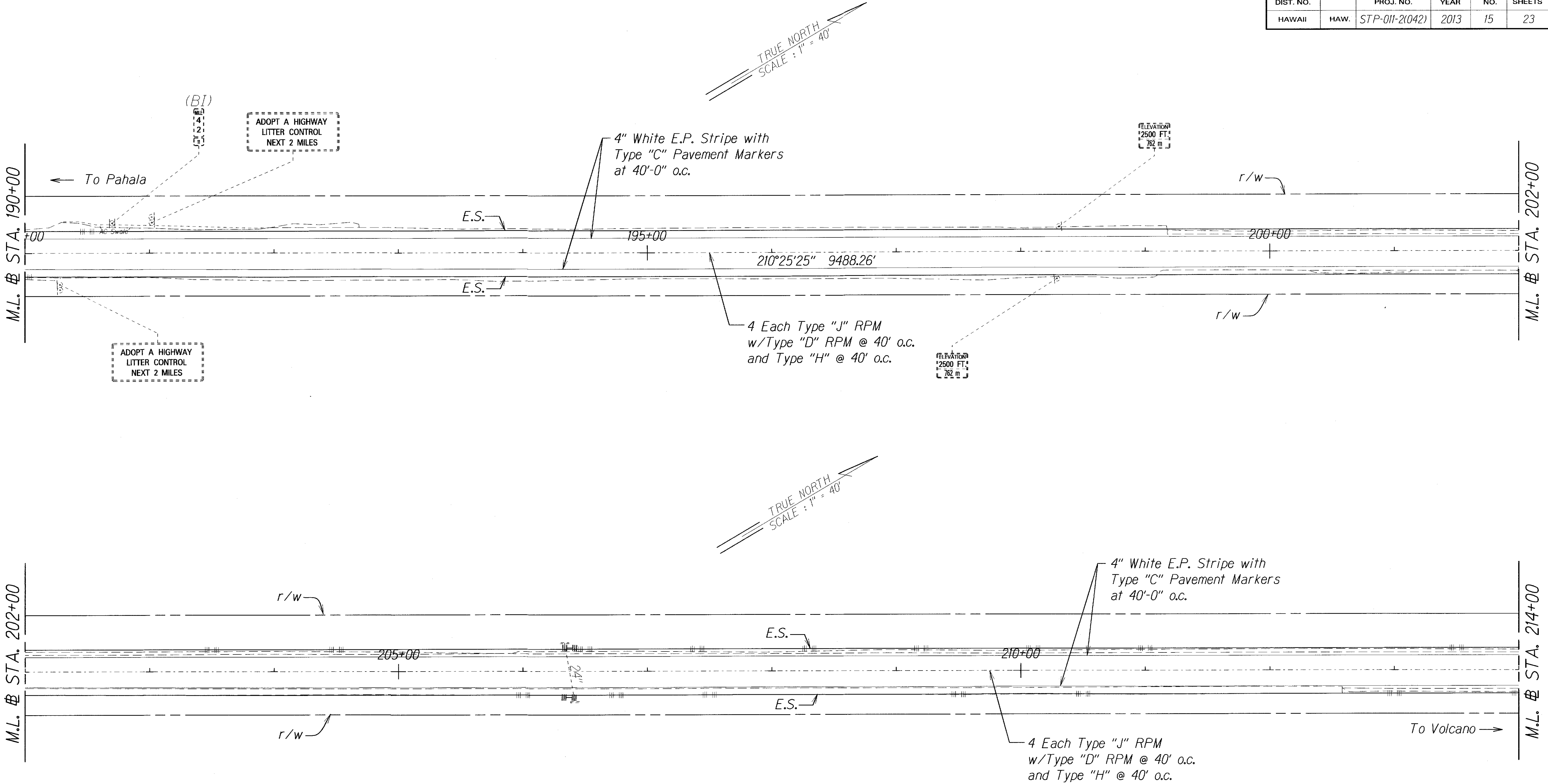
Bi-Directional RM-3,
White Reflection
Markers w/ Flex Post

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
MAMALAHOA HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Kapapala Ranch To
Hawai'i Volcanoes National Park
Federal Aid Project No. STP-011-2(042)
Scale: 1"=40' Date: February, 2013

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	15	23



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
NOTES	DESIGNED BY	
	CHECKED BY	

Notes:

1. All existing signs (dashed) with post are to remain.
2. All existing signs in conflict with construction signs are to be covered.
3. This work shall be considered incidental to various contract items.

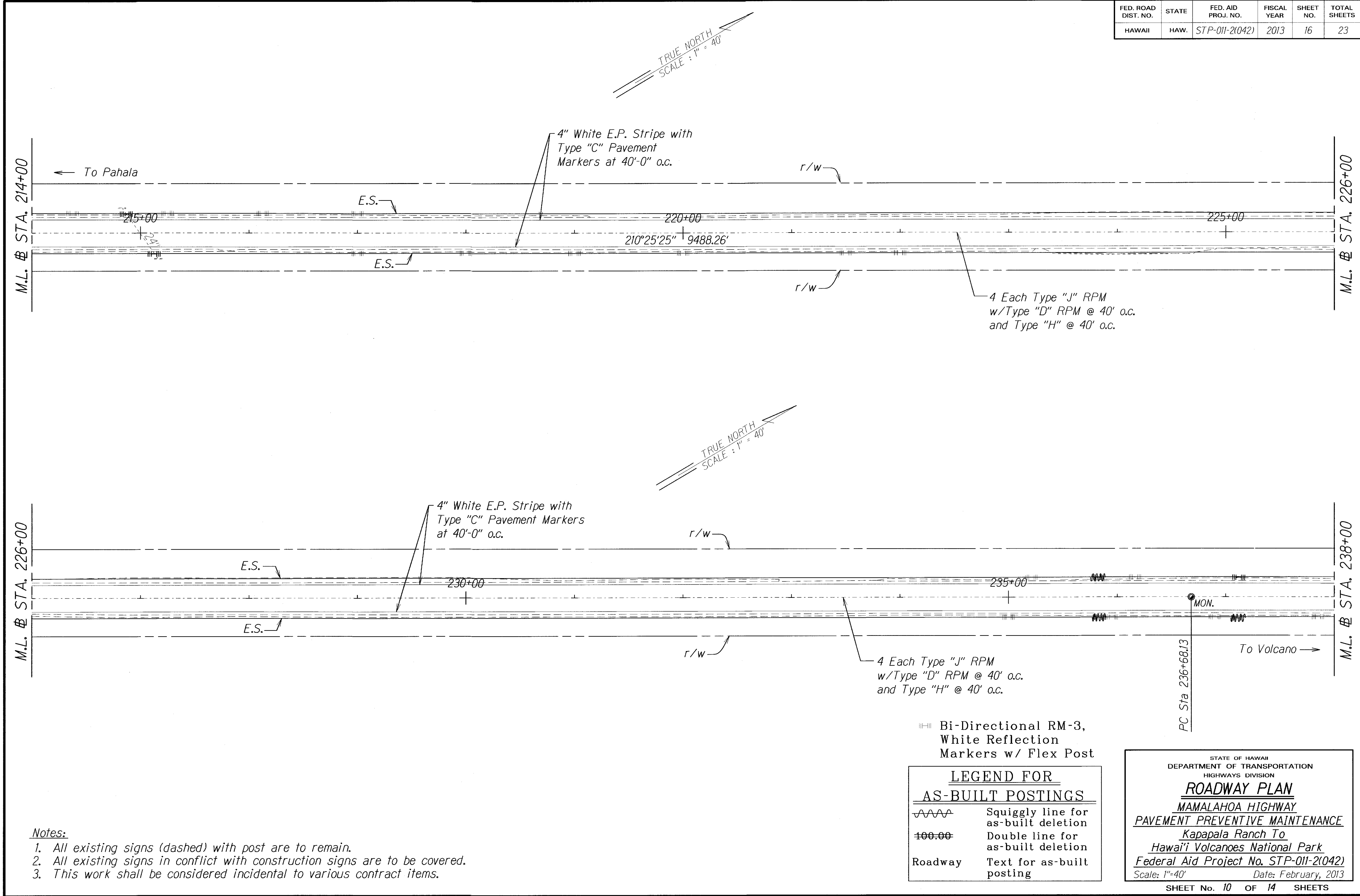
Bi-Directional RM-3,
White Reflection
Markers w/ Flex Post

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
MAMALAHOA HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Kapapala Ranch To
Hawai'i Volcanoes National Park
Federal Aid Project No. STP-011-2(042)
Scale: 1"=40' Date: February, 2013
SHEET No. 9 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	16	23



- Notes:
1. All existing signs (dashed) with post are to remain.
 2. All existing signs in conflict with construction signs are to be covered.
 3. This work shall be considered incidental to various contract items.

Bi-Directional RM-3,
White Reflection
Markers w/ Flex Post

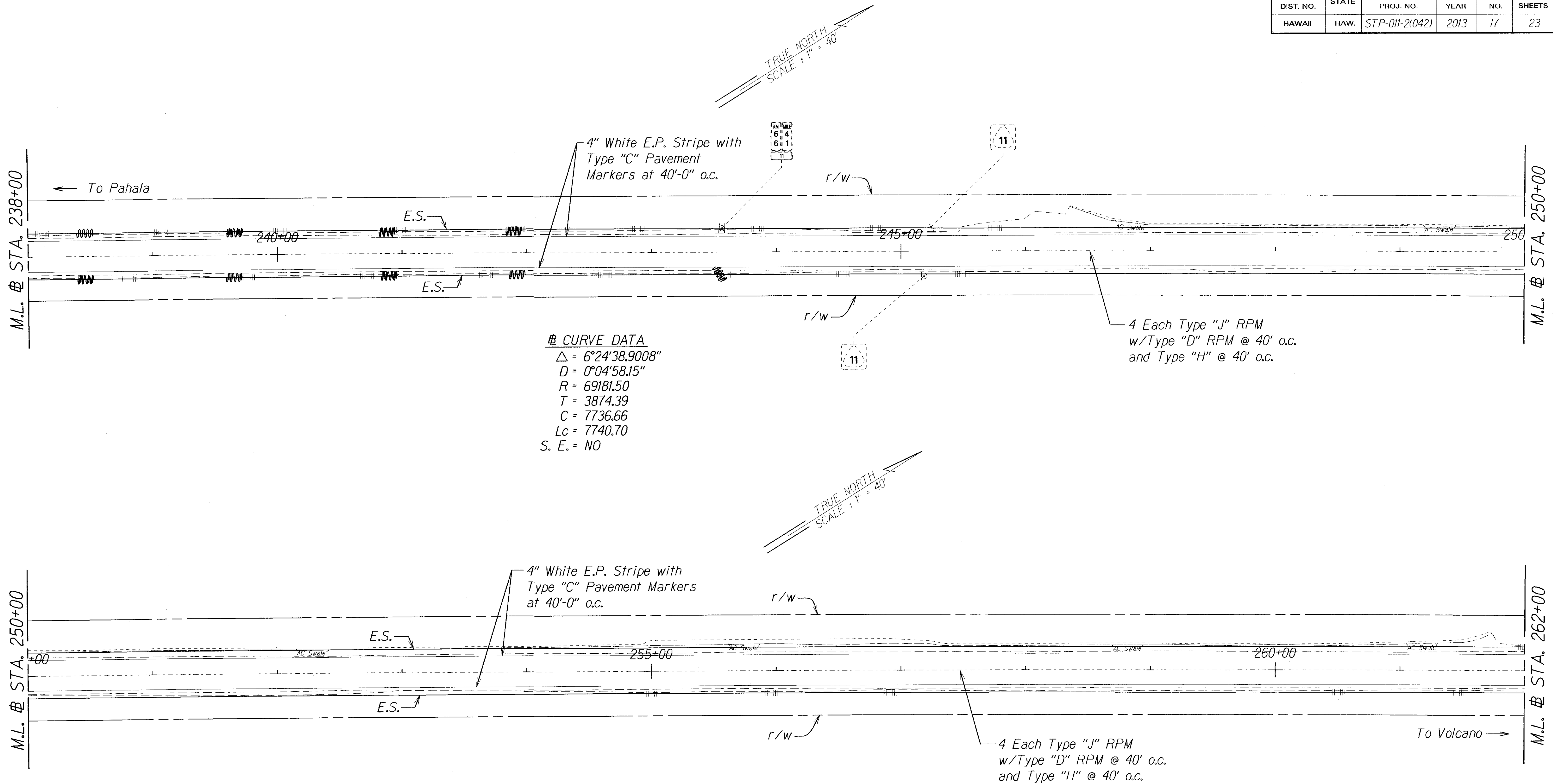
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
MAMALAHOA HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Kapapala Ranch To
Hawai'i Volcanoes National Park
Federal Aid Project No. STP-011-2(042)
Scale: 1"=40'

Date: February, 2013
SHEET No. 10 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	17	23



△ CURVE DATA
 $\Delta = 6^\circ 24' 38.9008''$
 $D = 0^\circ 04' 58.15''$
 $R = 69181.50$
 $T = 3874.39$
 $C = 7736.66$
 $Lc = 7740.70$
 $S. E. = NO$

Bi-Directional RM-3,
 White Reflection
 Markers w/ Flex Post

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

- Notes:**
1. All existing signs (dashed) with post are to remain.
 2. All existing signs in conflict with construction signs are to be covered.
 3. This work shall be considered incidental to various contract items.

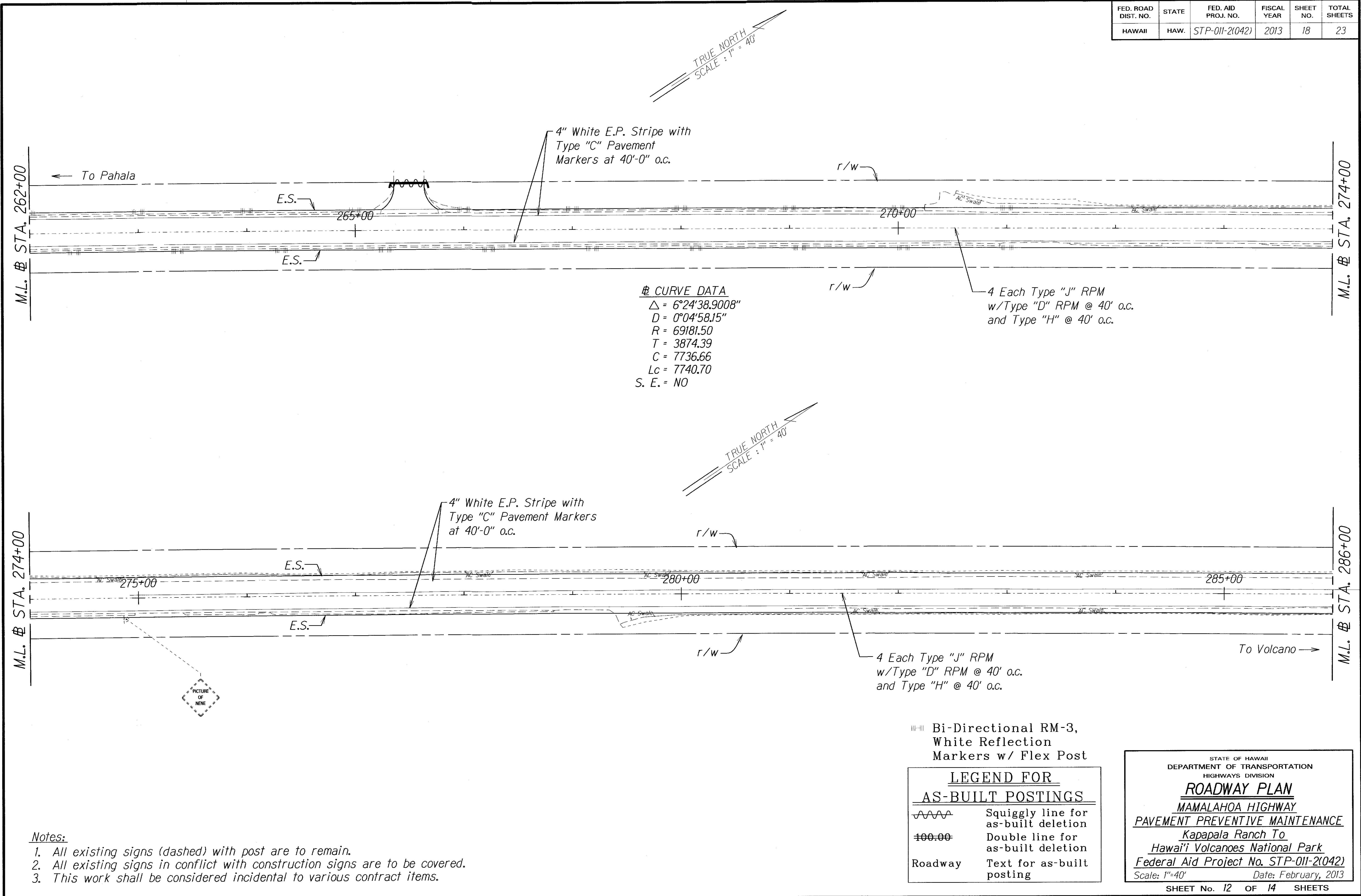
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN
 MAMALAHOA HIGHWAY
 PAVEMENT PREVENTIVE MAINTENANCE
 Kapapala Ranch To
 Hawai'i Volcanoes National Park
 Federal Aid Project No. STP-011-2(042)
 Scale: 1"=40' Date: February, 2013

SHEET No. 17 OF 14 SHEETS

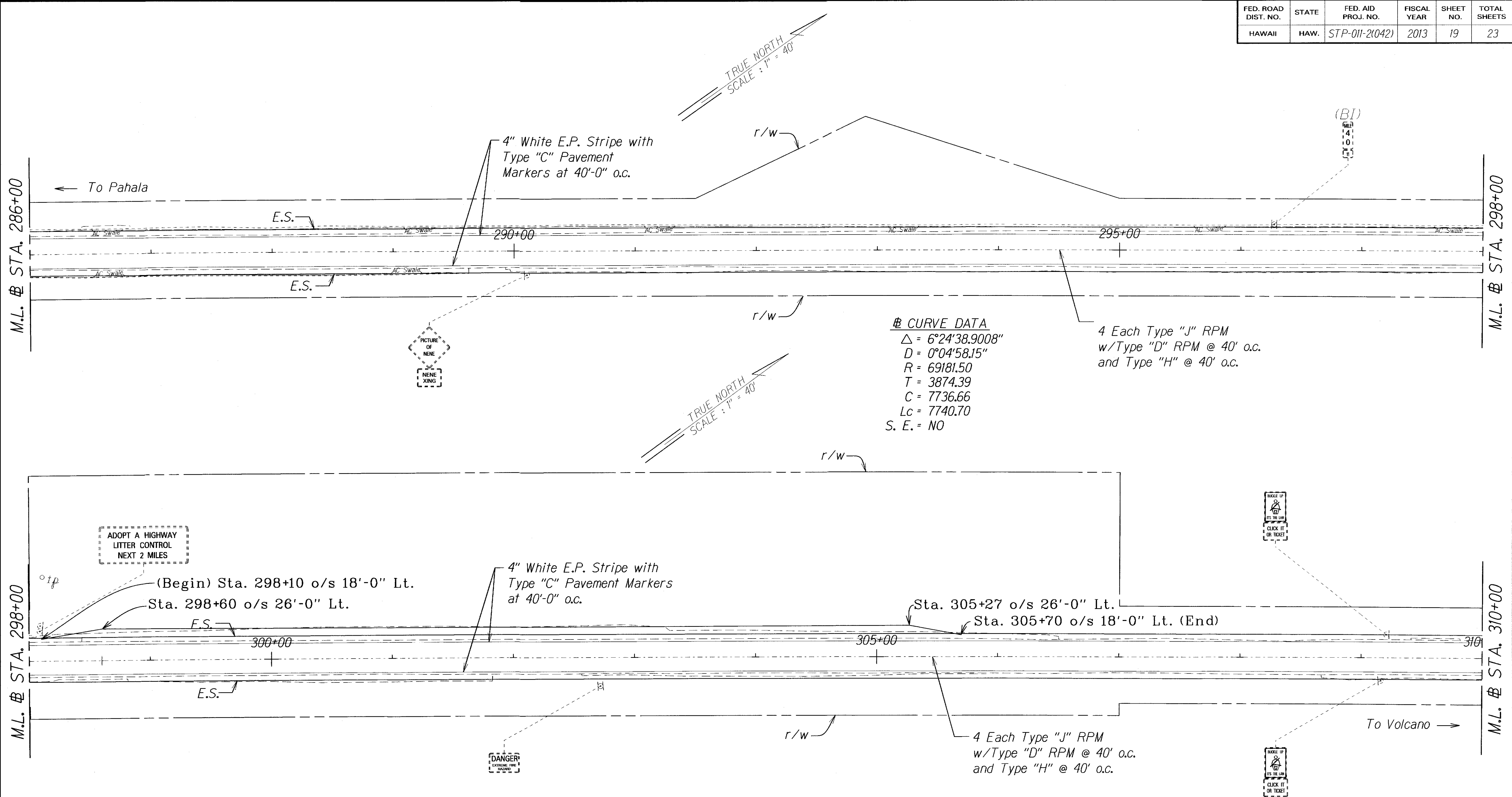
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	18	23



"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	19	23



Notes:

1. All existing signs (dashed) with post are to remain.
2. All existing signs in conflict with construction signs are to be covered.
3. This work shall be considered incidental to various contract items.

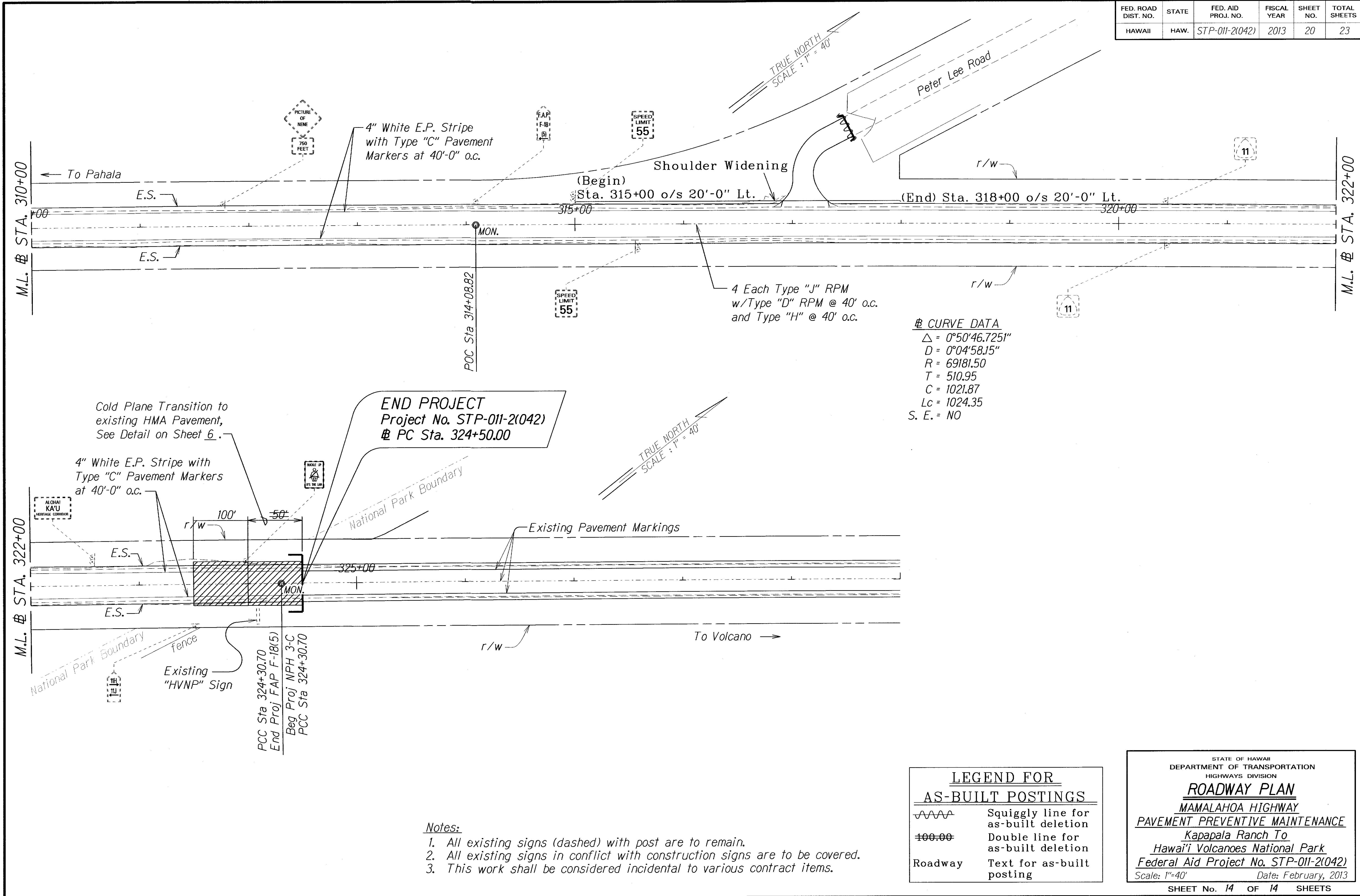
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
MAMALAHOA HIGHWAY
PAVEMENT PREVENTIVE MAINTENANCE
Kapapala Ranch To
Hawai'i Volcanoes National Park
Federal Aid Project No. STP-011-2(042)
Scale: 1"=40' Date: February, 2013
SHEET No. 13 OF 14 SHEETS

"AS-BUILT"

19

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-011-2(042)	2013	20	23



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY	DRAWN BY	
NOTED BY	CHECKED BY	
DATE		

"AS-BUILT"