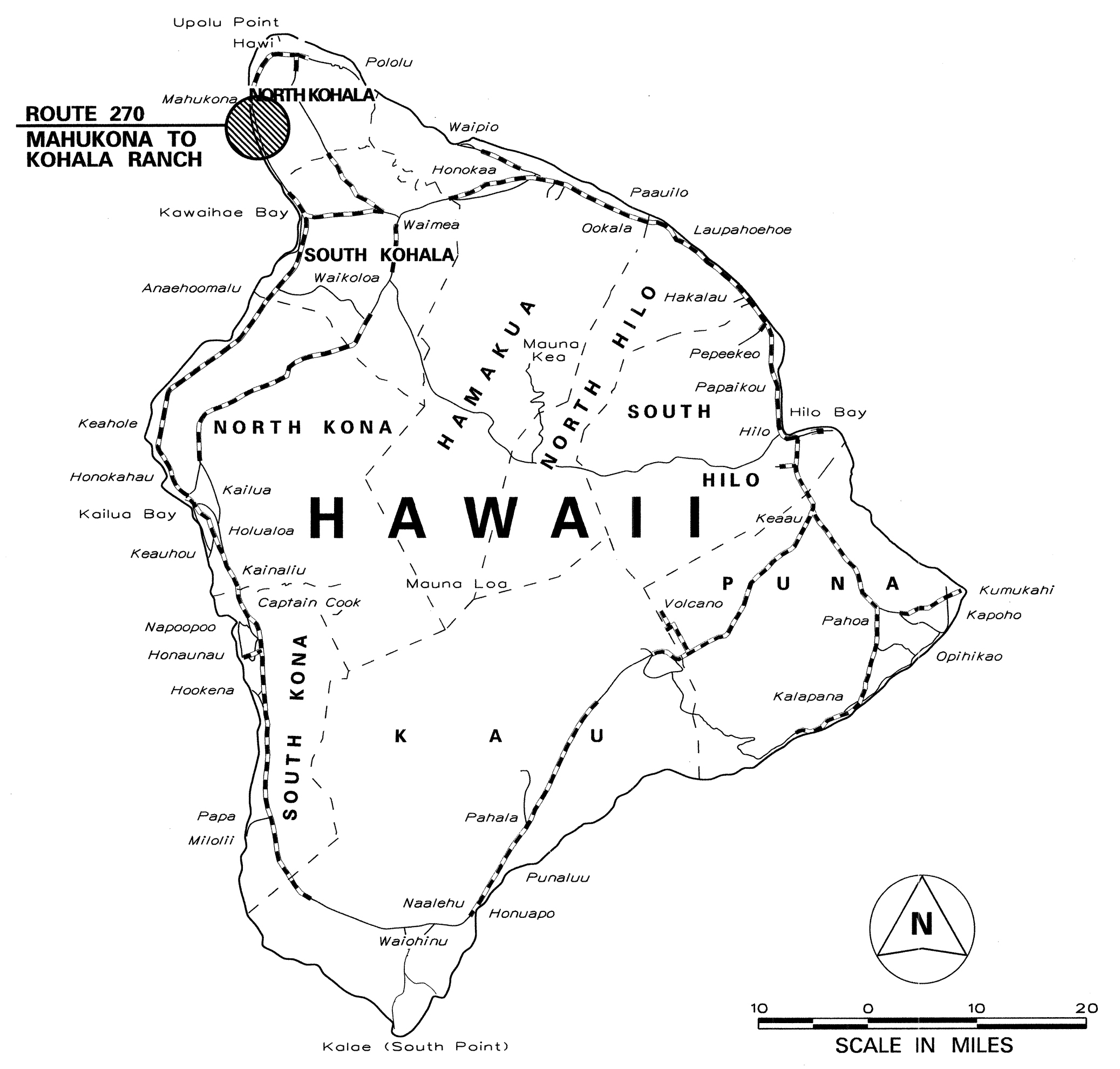
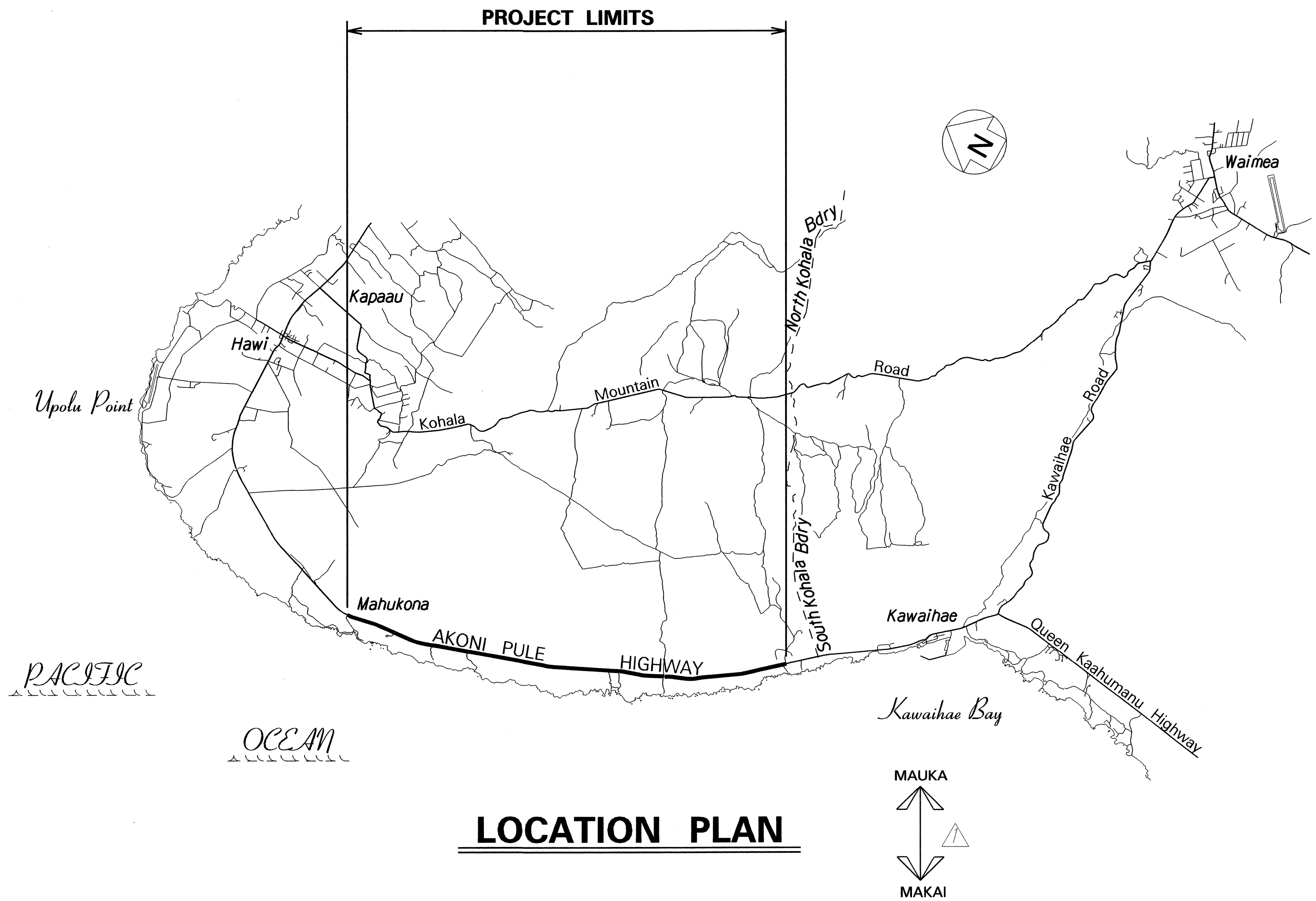


INDEX TO DRAWINGS	
SHEET NO.	DESCRIPTION
84	LOCATION PLAN
85-102	SIGN LOCATION PLAN
103	SIGN SCHEDULE



DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	ADD. 84	113

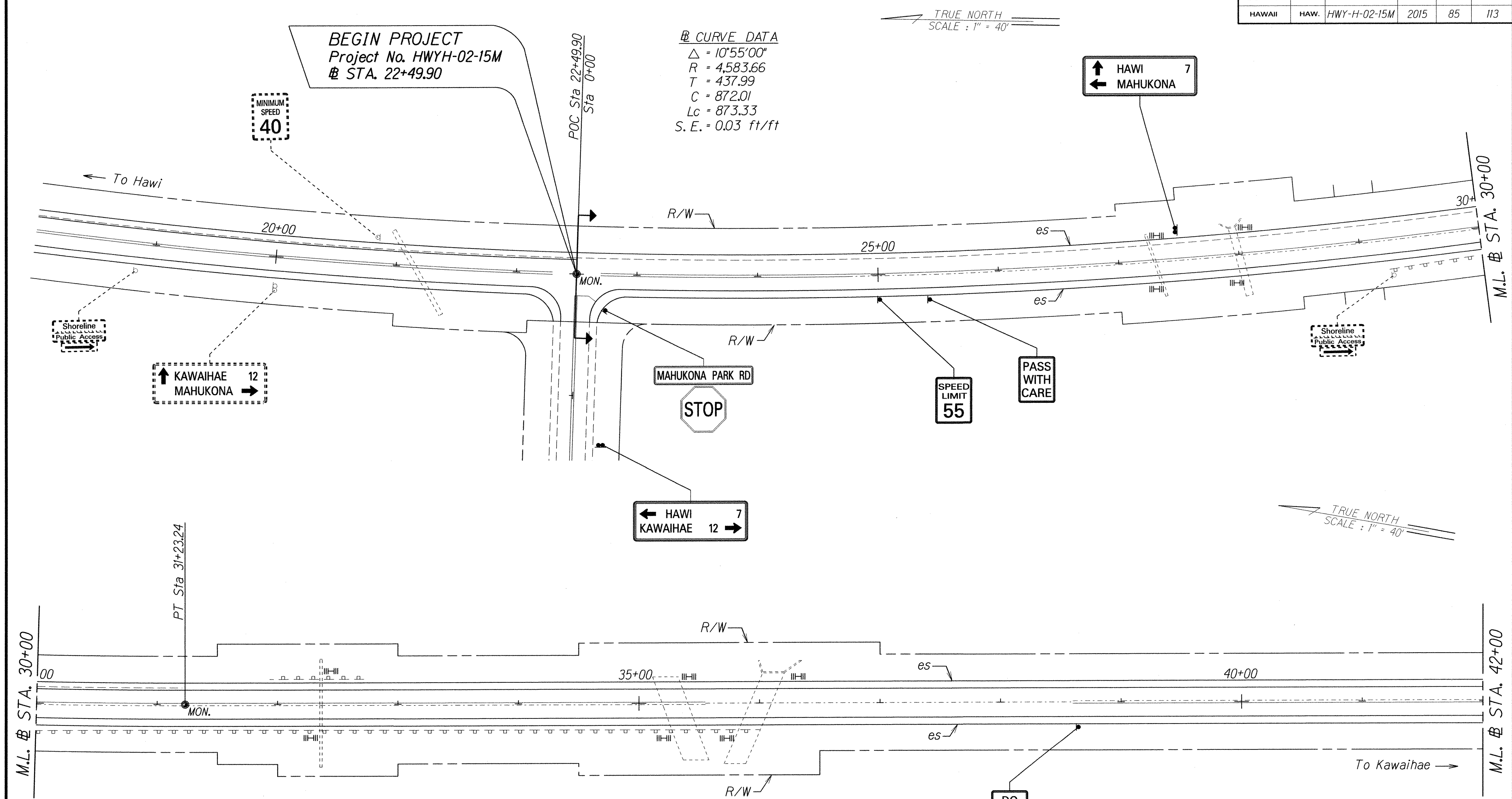


ROUTE 270, MAHUKONA TO KOHALA RANCH..... MILE POST 6.9 TO MILE POST 14.9

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

6/8/15	Added Mauka - Makai Reference Directions Arrow.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION LOCATION PLAN ROUTE 270, MAHUKONA TO KOHALA RANCH REPLACEMENT OF HIGHWAY SIGNS Project No. HWY-H-02-15M Scale: N.T.S. Date: May, 2015	
SHEET No. 1 OF 1 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	85	113



BEGIN PROJECT
Project No. HWYH-02-15M
STA. 22+49.90

CURVE DATA
 $\Delta = 10^{\circ}55'00''$
 $R = 4,583.66$
 $T = 437.99$
 $C = 872.01$
 $Lc = 873.33$
 $S.E. = 0.03 \text{ ft/ft}$

TRUE NORTH
SCALE : 1" = 40'

↑ HAWI 7
← MAHUKONA

↑ KAWAIHAE 12
MAHUKONA →

MAHUKONA PARK RD

STOP

SPEED LIMIT
55

PASS WITH CARE

← HAWI 7
KAWAIHAE 12 →

TRUE NORTH
SCALE : 1" = 40'

DO NOT PASS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

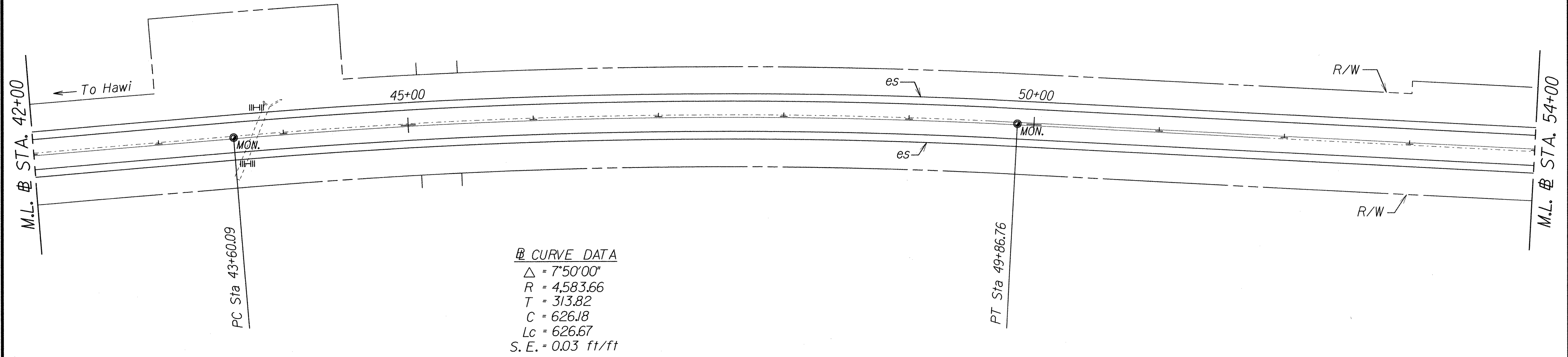
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 1 OF 18 SHEETS

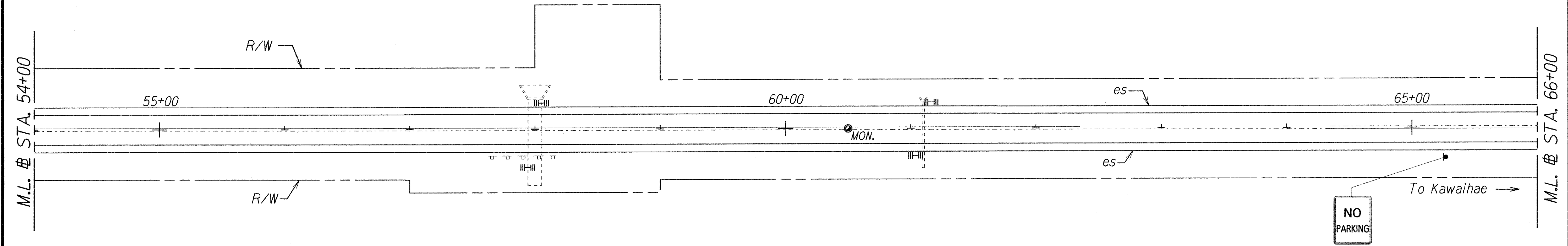
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	86	113

TRUE NORTH
SCALE : 1" = 40'



CURVE DATA
 $\Delta = 7^{\circ}50'00''$
 $R = 4,583.66$
 $T = 313.82$
 $C = 626.18$
 $Lc = 626.67$
 $S.E. = 0.03 \text{ ft/ft}$

TRUE NORTH
SCALE : 1" = 40'

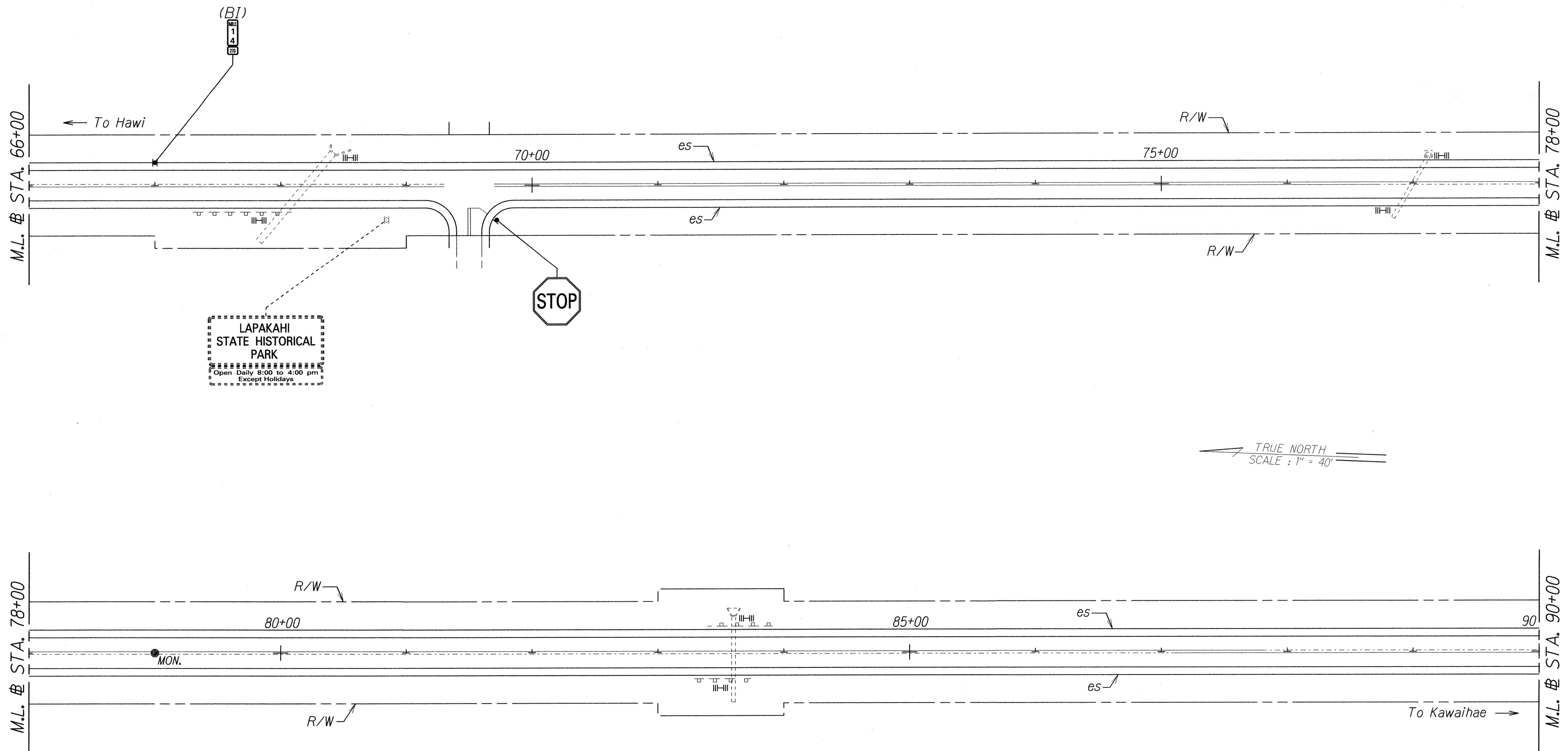


DESIGNED BY	DATE
NOTED BY	
CHECKED BY	
PROJECT NO.	
DATE	
BY	
FOR	
BY	
FOR	
BY	
FOR	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGN LOCATION PLAN
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M
Scale: 1" = 40' Date: May, 2015
SHEET No. 2 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	87	113

TRUE NORTH
SCALE : 1" = 40'



DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

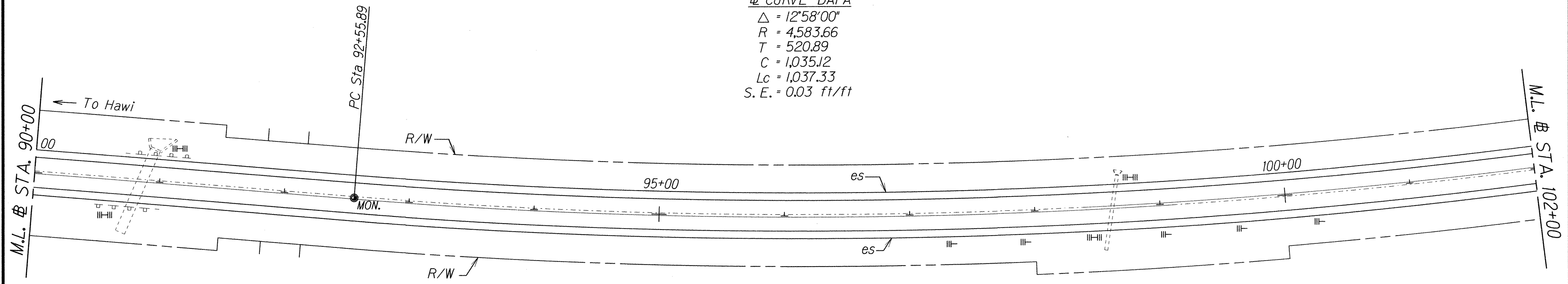
SHEET No. 3 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	88	113

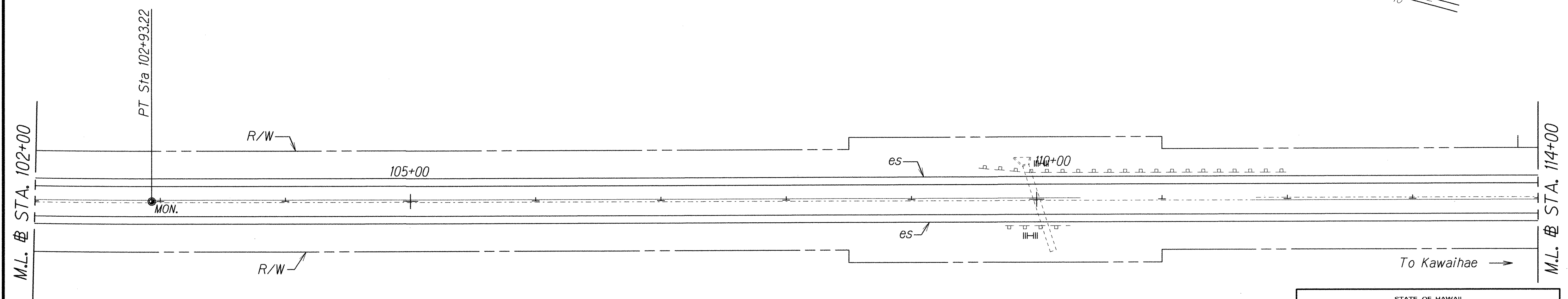
TRUE NORTH
SCALE : 1" = 40'

⊕ CURVE DATA

$\Delta = 12^\circ 58' 00''$
 $R = 4,583.66$
 $T = 520.89$
 $C = 1,035.12$
 $L_c = 1,037.33$
 $S.E. = 0.03 \text{ ft/ft}$



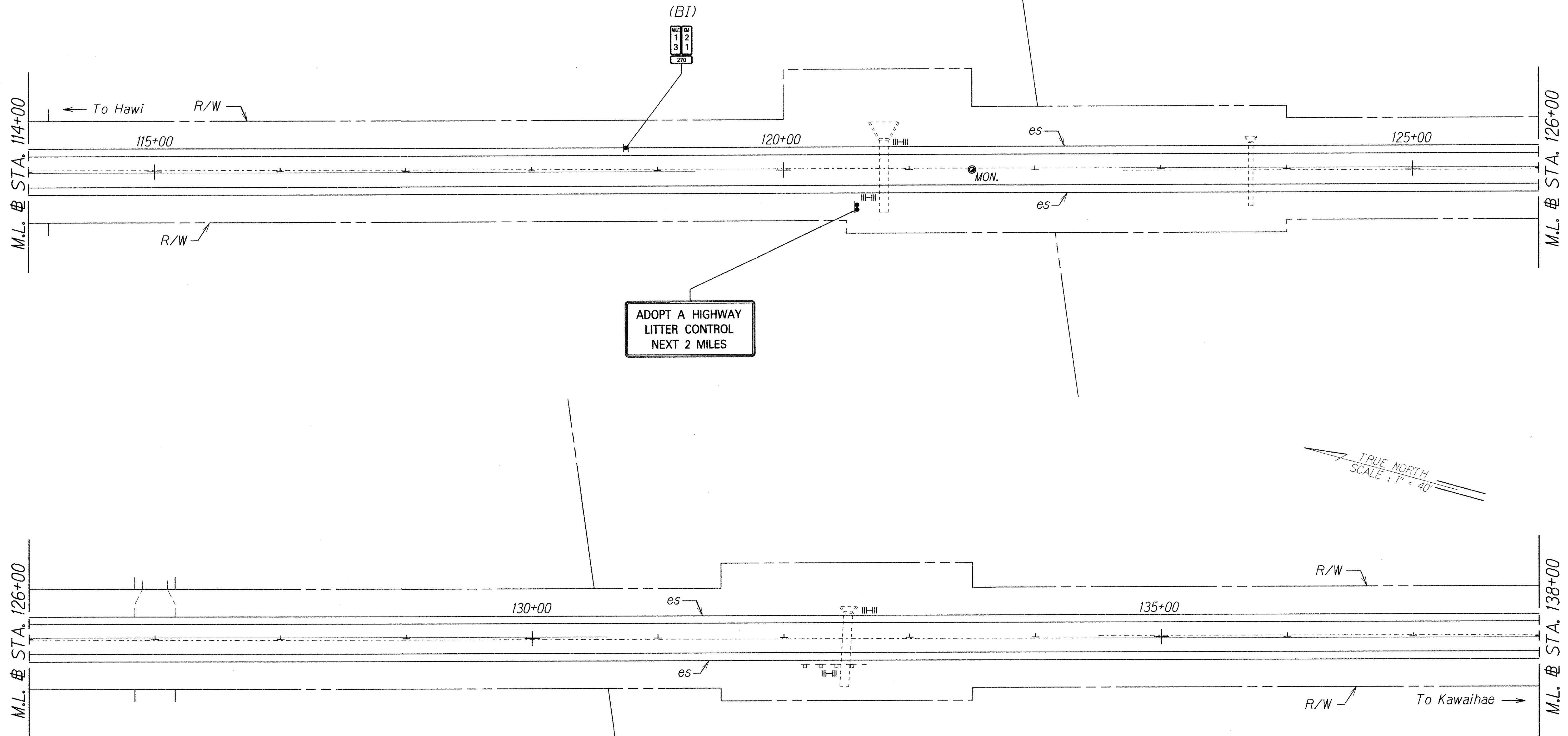
TRUE NORTH
SCALE : 1" = 40'



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGN LOCATION PLAN
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M
Scale: 1" = 40' Date: May, 2015
SHEET No. 4 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	89	113



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

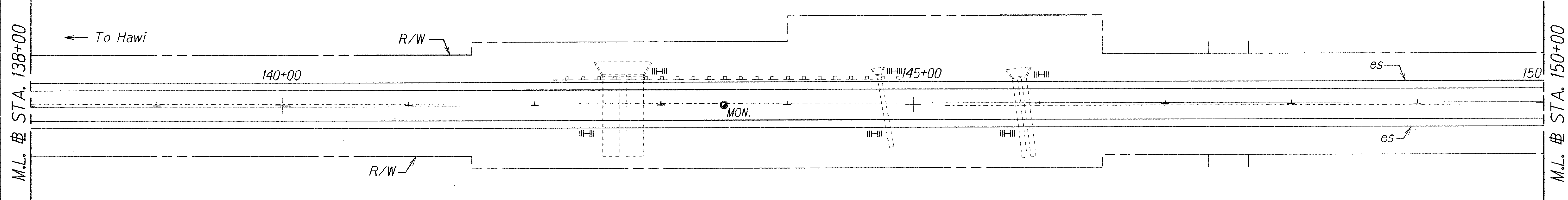
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

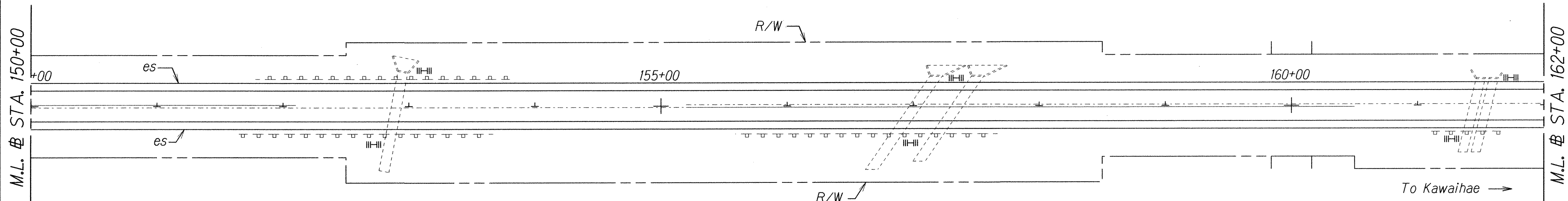
SHEET No. 5 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	90	113

TRUE NORTH
SCALE : 1" = 40'



TRUE NORTH
SCALE : 1" = 40'



DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 6 OF 18 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	92	113

M.L. & STA. 186+00

← To Hawi

KAIHOLENA PL

STOP

190+00

R/W

195+00

es

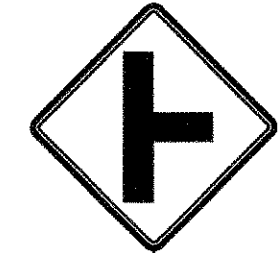
es

M.L. & STA. 198+00

Shoreline
Public Access

Shoreline
Public Access

TRUE NORTH
SCALE : 1" = 40'



M.L. & STA. 198+00

200+00

es

R/W

205+00

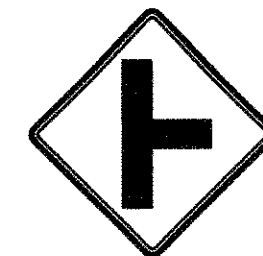
es

R/W

210+00

M.L. & STA. 210+00

→ To Kawaihae



TRUE NORTH
SCALE : 1" = 40'

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

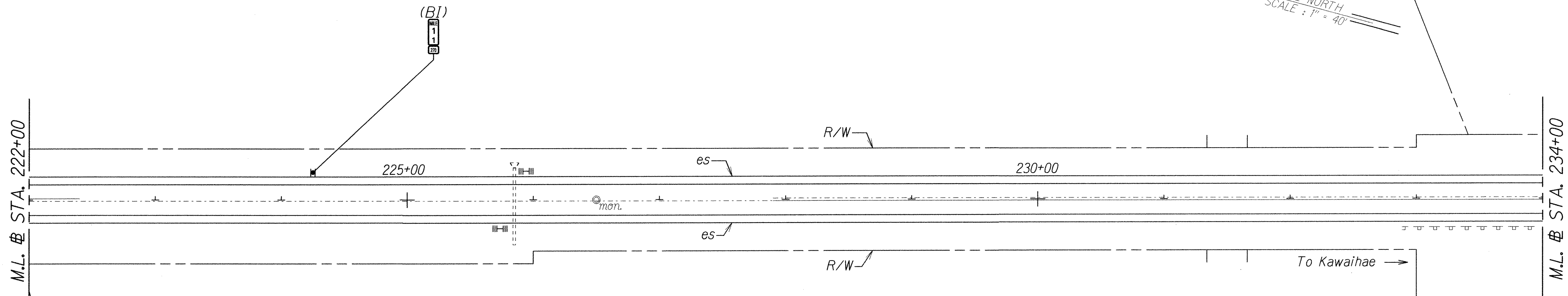
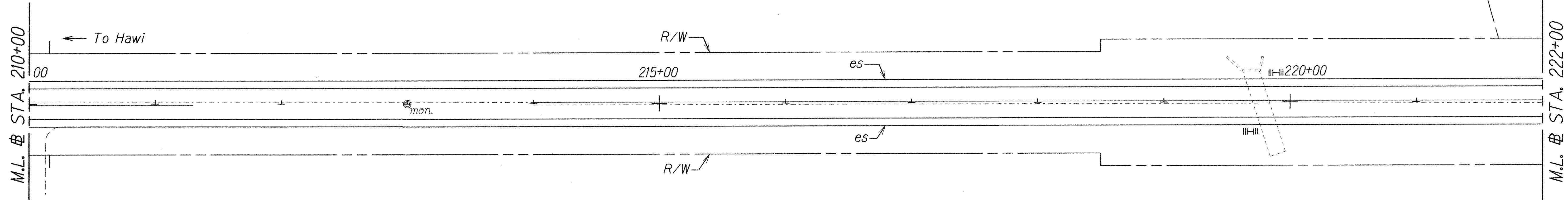
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 8 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	93	113

TRUE NORTH
SCALE : 1" = 40'



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

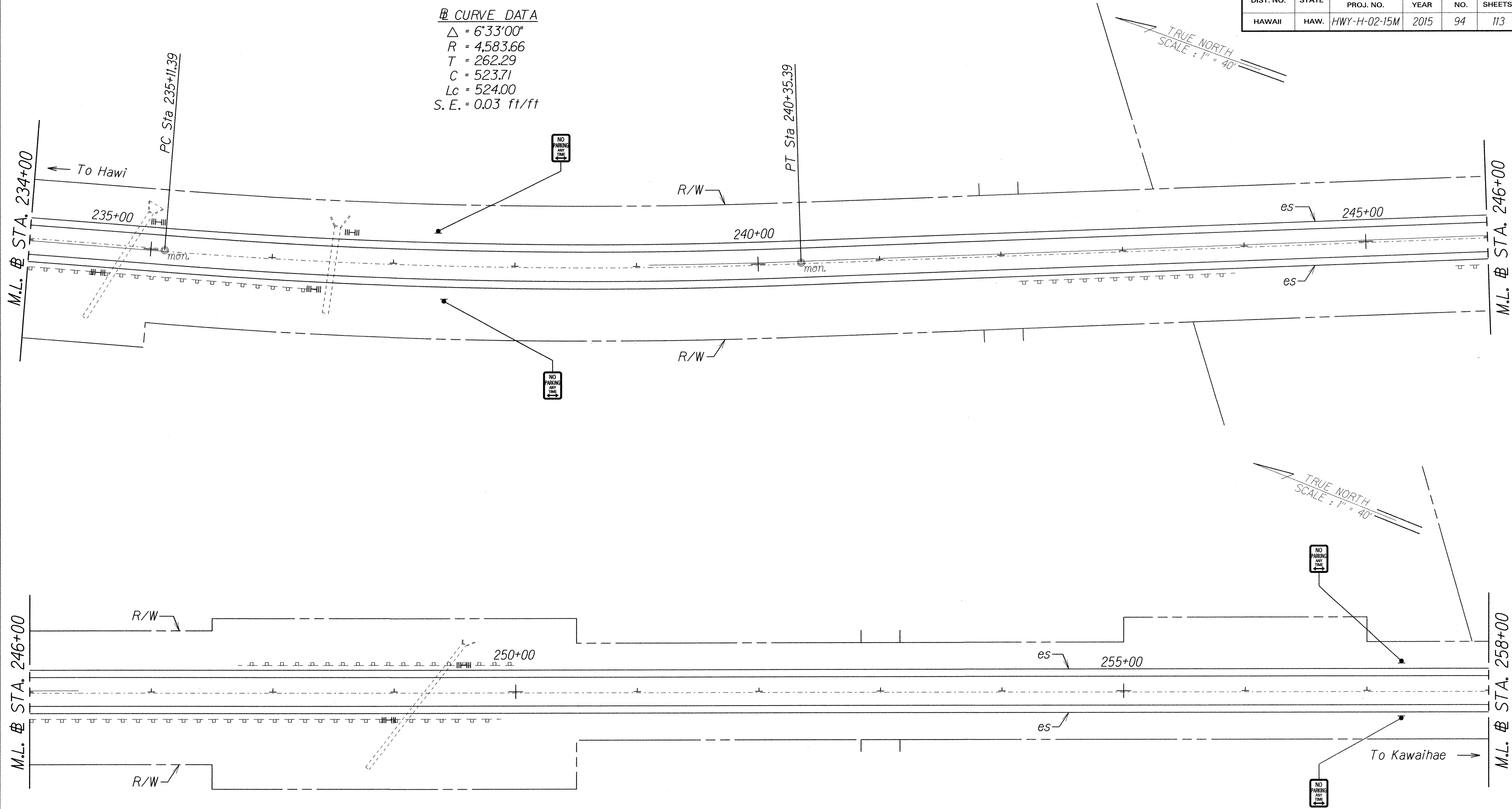
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 9 OF 18 SHEETS

DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	94	113

Curve Data
 $\Delta = 6^{\circ}33'00''$
 $R = 4,583.66$
 $T = 262.29$
 $C = 523.71$
 $L_c = 524.00$
 $S.E. = 0.03 \text{ ft/ft}$



DESIGNED BY	DATE
TRACED BY	
NOTED BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

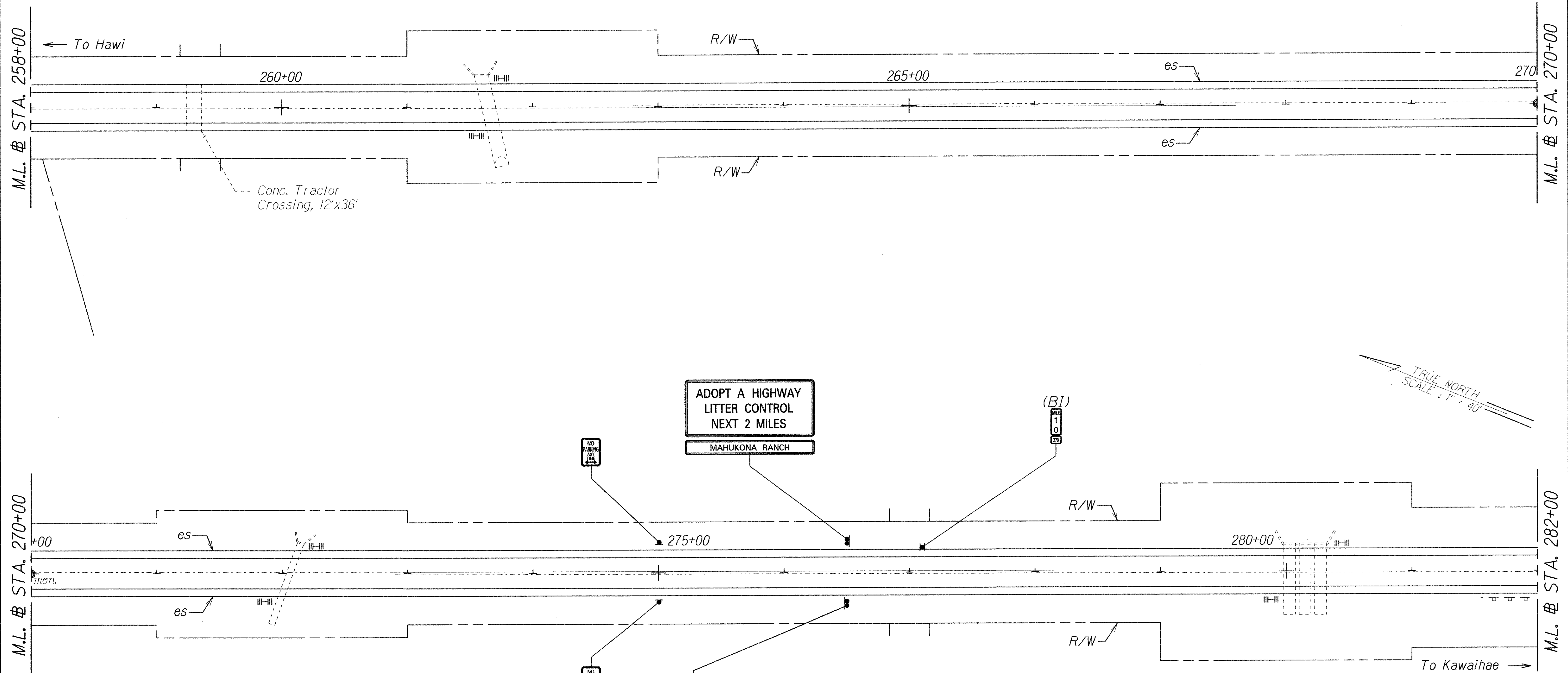
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40'
Date: May, 2015

SHEET No. 10 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	95	113

TRUE NORTH
SCALE: 1" = 40'



TRUE NORTH
SCALE: 1" = 40'

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

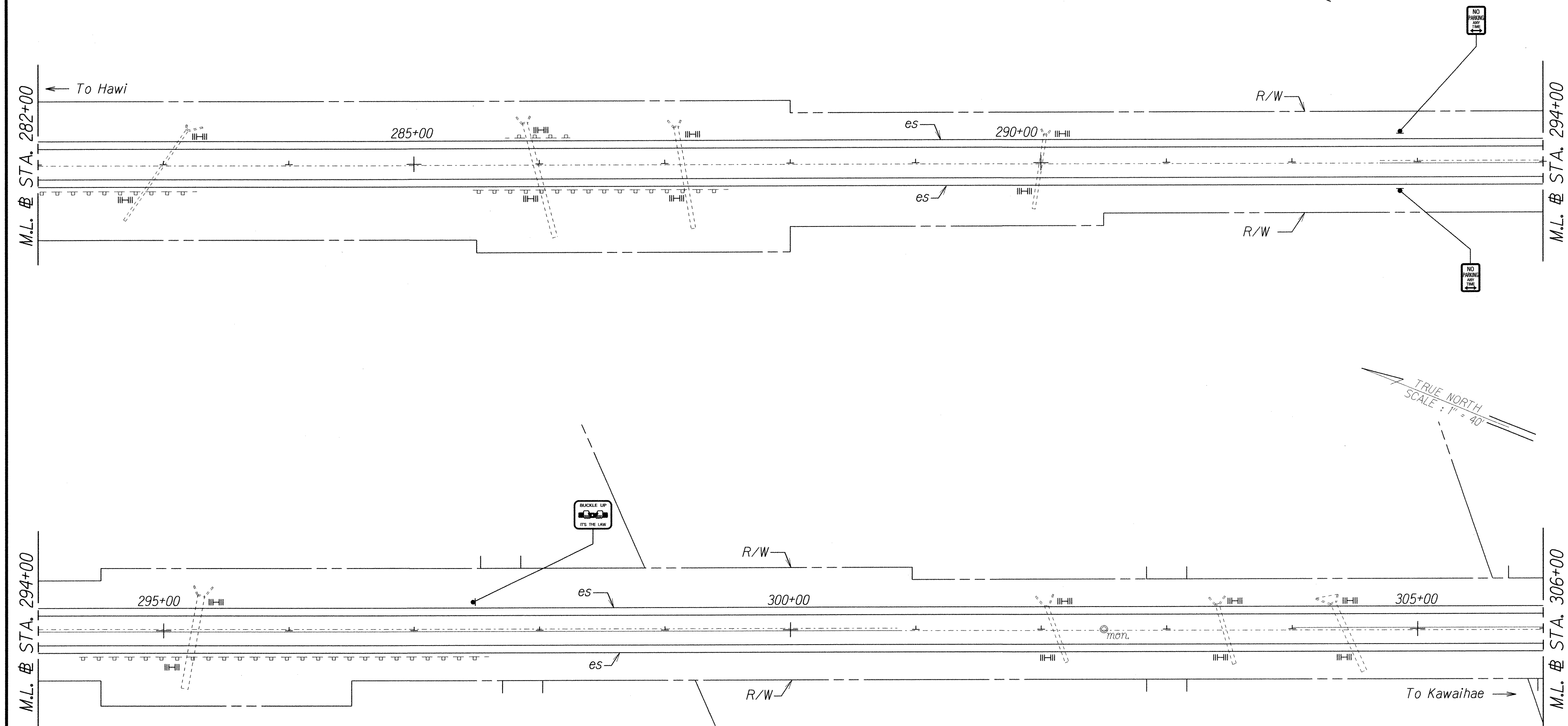
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 11 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	96	113

TRUE NORTH
SCALE: 1" = 40'



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

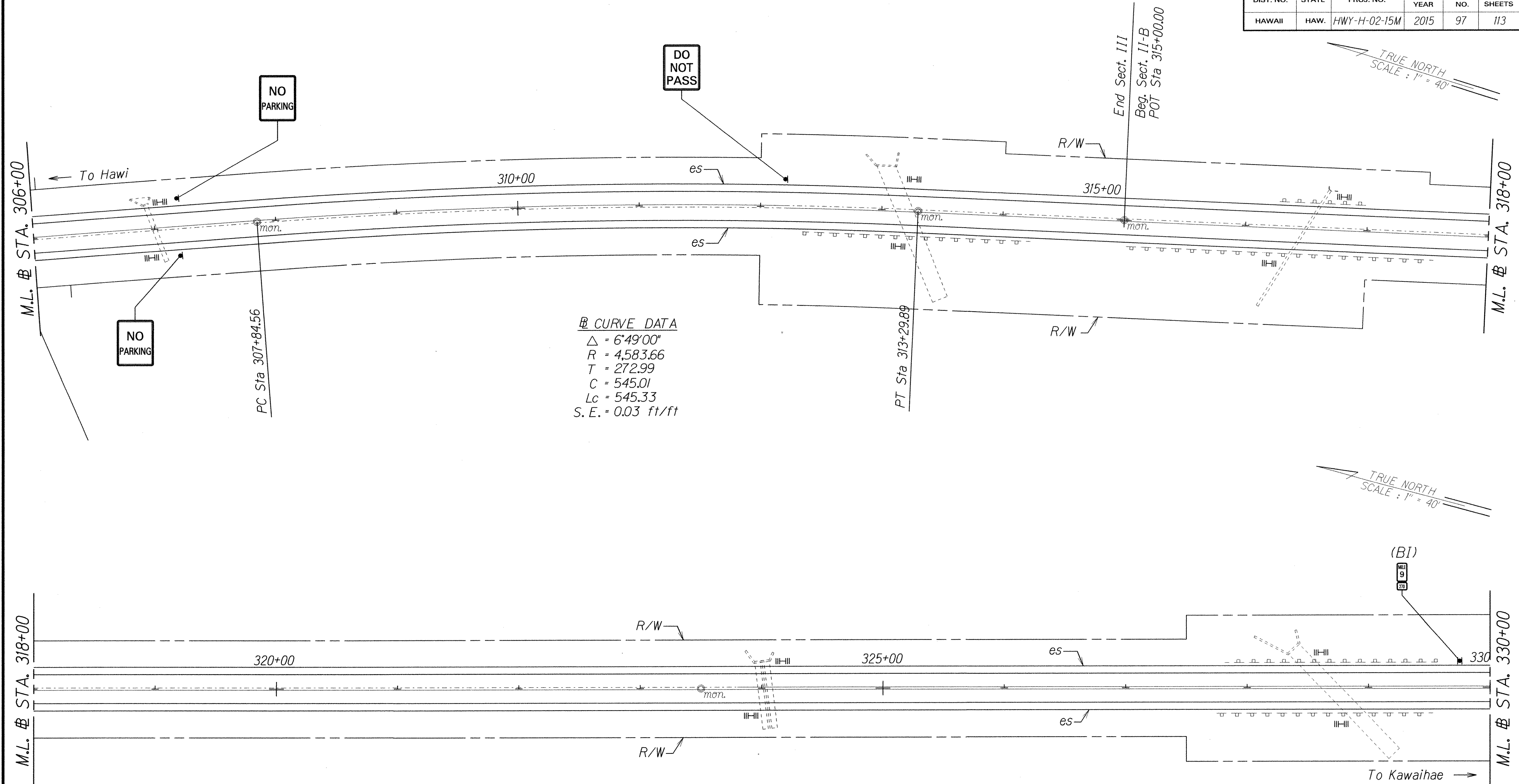
SIGN LOCATION PLAN

ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 12 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	97	113



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

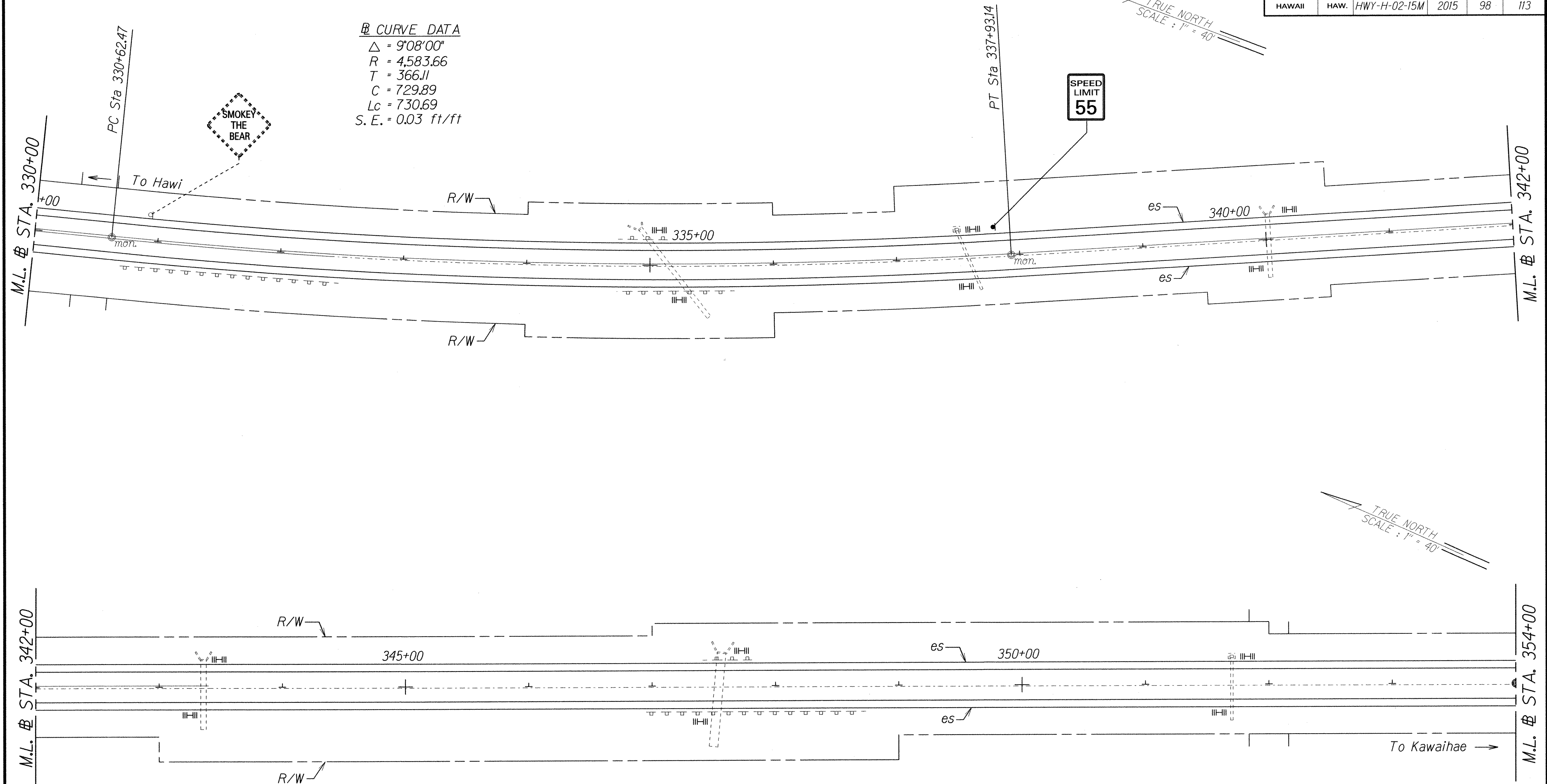
SIGN LOCATION PLAN

ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 13 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	98	113



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

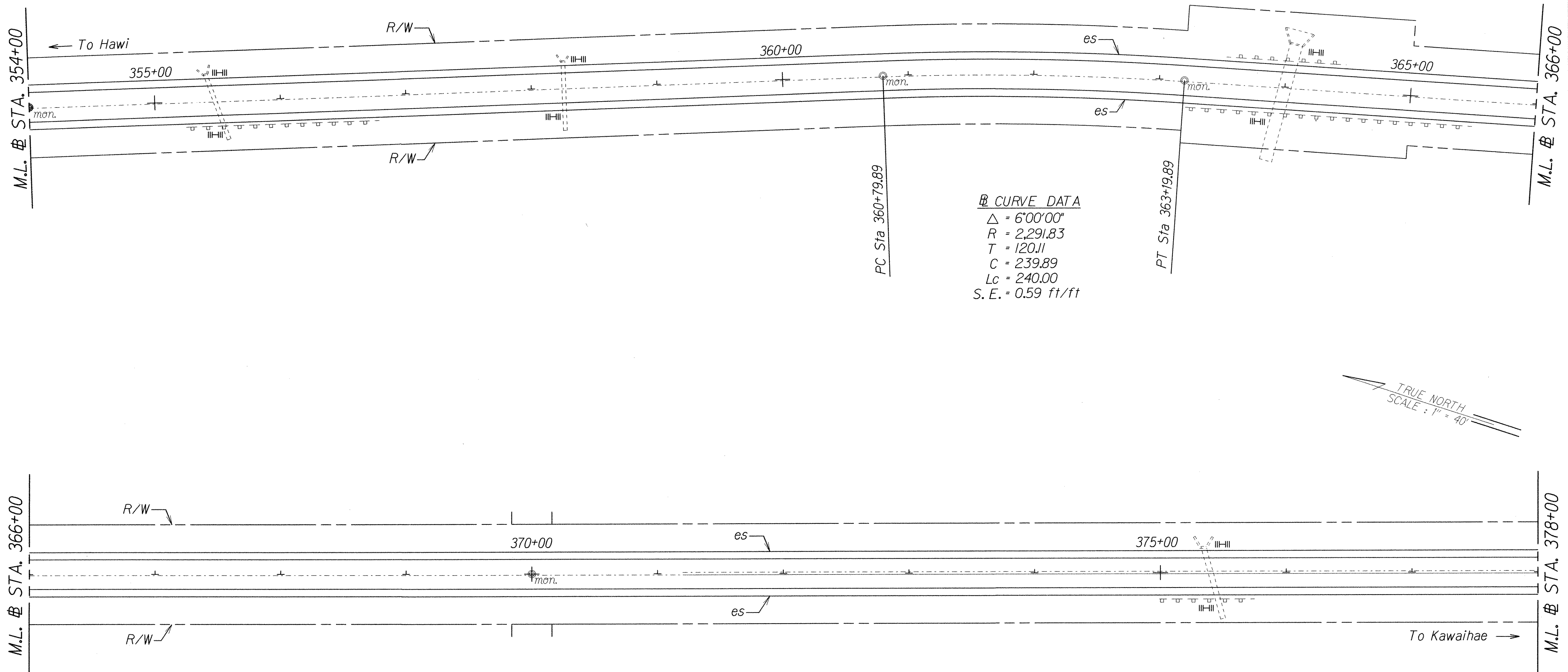
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 14 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	99	113

TRUE NORTH
SCALE : 1" = 40'



TRUE NORTH
SCALE : 1" = 40'

ORIGINAL PLAN	DATE
NOTED BY	
DESIGNED BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

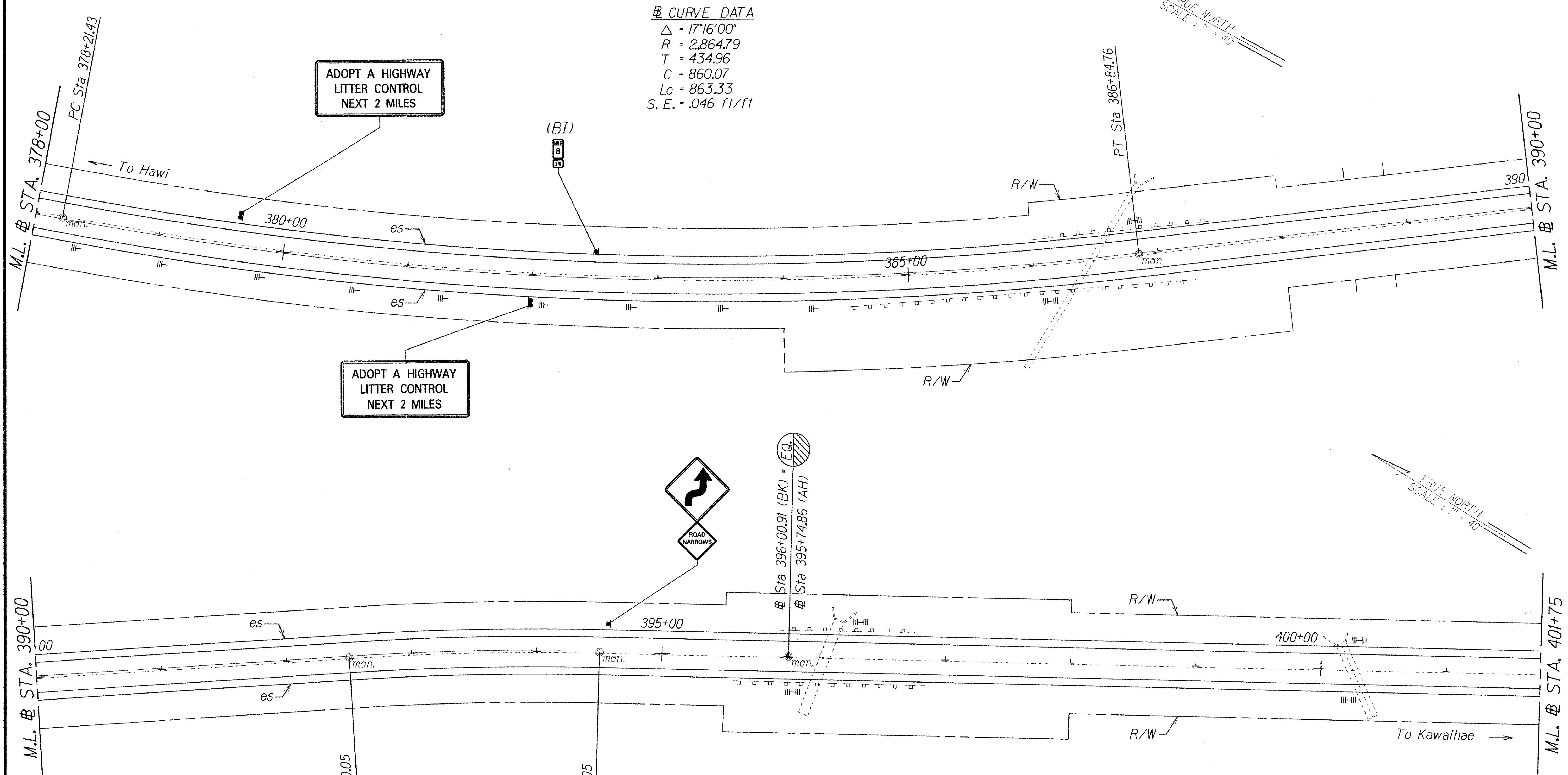
SIGN LOCATION PLAN

ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 15 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	100	113



⌘ CURVE DATA
 $\Delta = 17^{\circ}16'00''$
 $R = 2,864.79$
 $T = 434.96$
 $C = 860.07$
 $L_c = 863.33$
 $S.E. = .046 \text{ ft/ft}$

⌘ CURVE DATA
 $\Delta = 5^{\circ}00'00''$
 $R = 2,291.83$
 $T = 100.06$
 $C = 199.94$
 $L_c = 200.00$
 $S.E. = .059 \text{ ft/ft}$

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

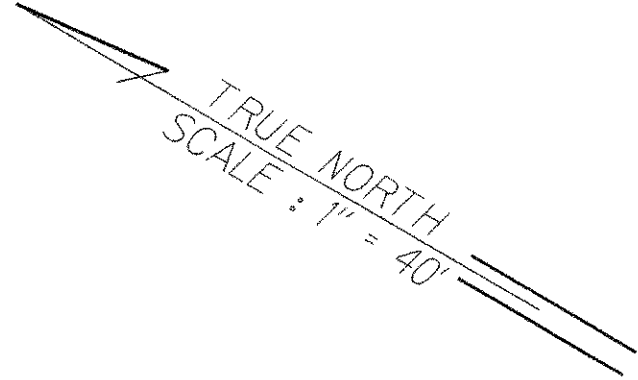
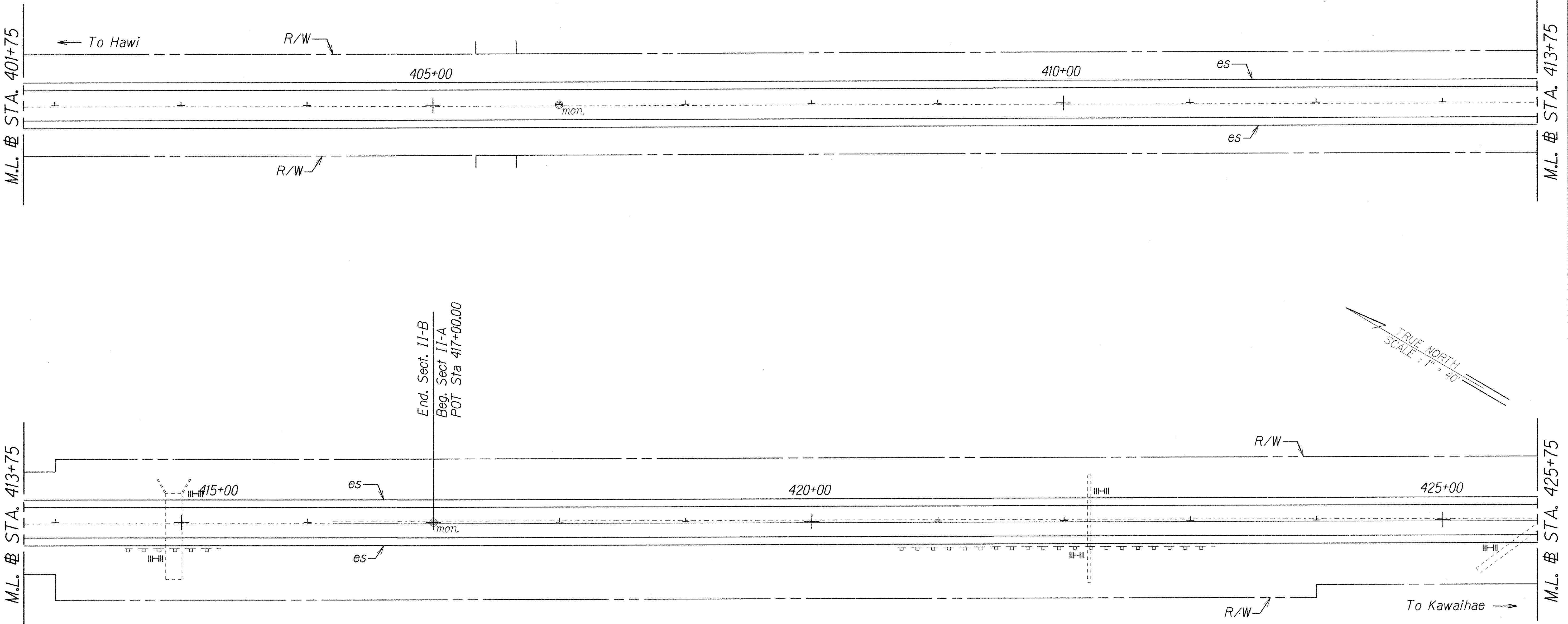
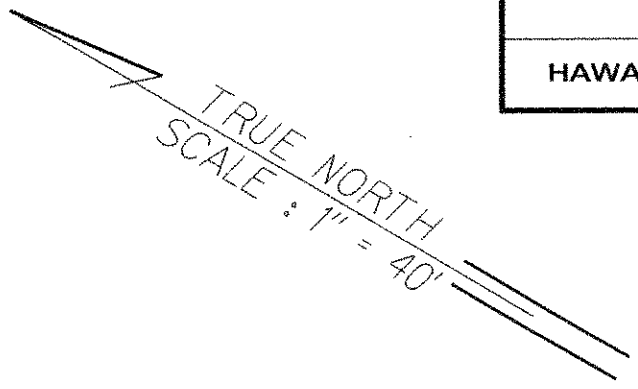
SIGN LOCATION PLAN

ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 16 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	101	113



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

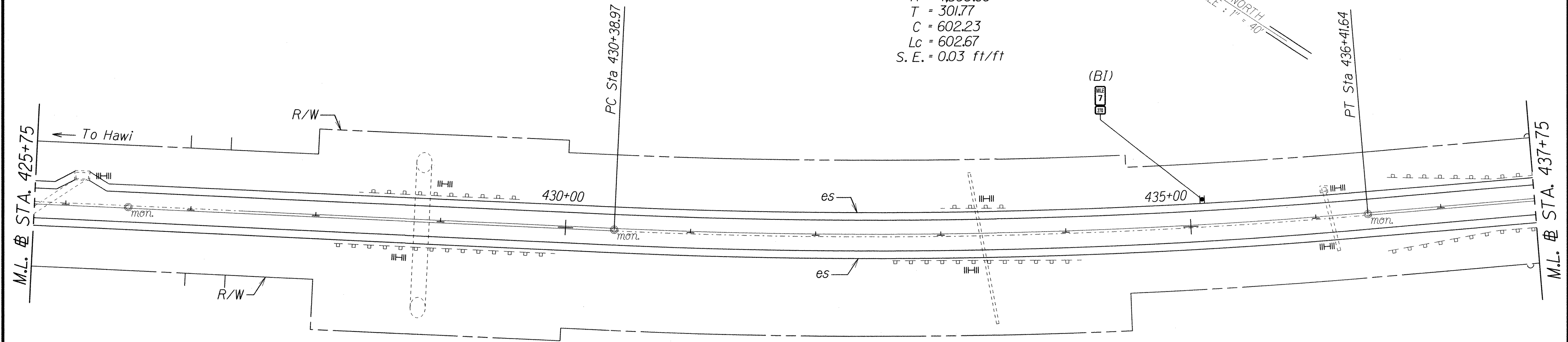
ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M
Scale: 1" = 40' Date: May, 2015
SHEET No. 17 OF 18 SHEETS

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-02-15M	2015	102	113

⊕ CURVE DATA

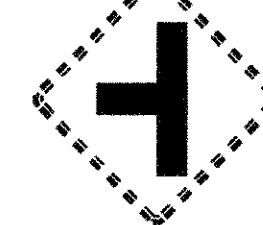
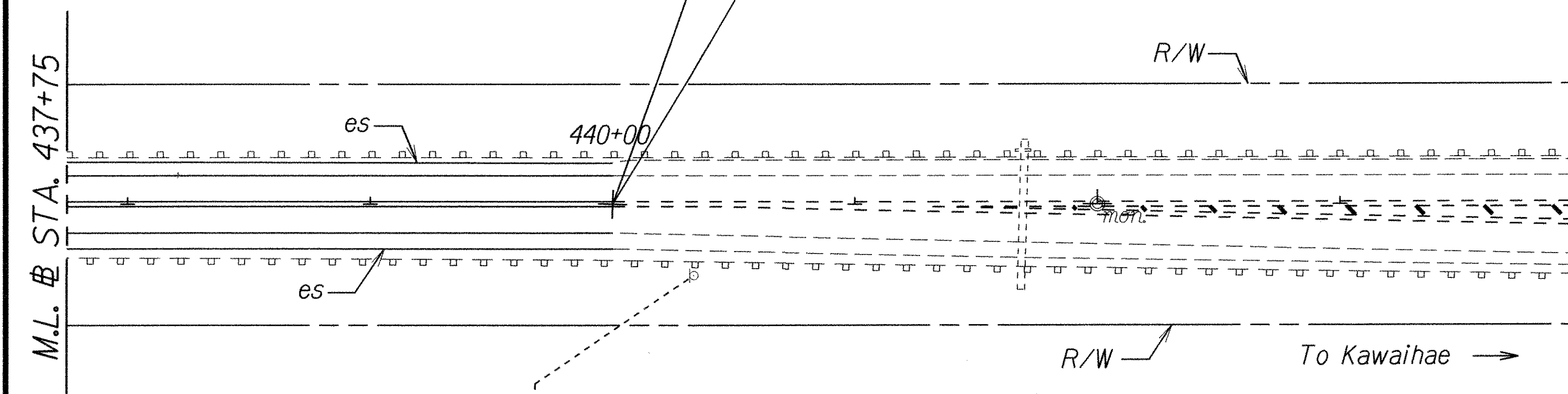
$\Delta = 7^{\circ}32'00''$
 $R = 4,583.66$
 $T = 301.77$
 $C = 602.23$
 $L_c = 602.67$
 $S.E. = 0.03 \text{ ft/ft}$

TRUE NORTH
SCALE: 1" = 40'



END PROJECT
 Project No. 270AB-01-10M
 ⊕ Sta. 440+00

TRUE NORTH
SCALE: 1" = 40'



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN LOCATION PLAN

ROUTE 270, MAHUKONA TO KOHALA RANCH
REPLACEMENT OF HIGHWAY SIGNS
Project No. HWY-H-02-15M

Scale: 1" = 40' Date: May, 2015

SHEET No. 18 OF 18 SHEETS

ORIGINAL PLAN

SURVEY PLOTTED BY

DATE

TRACED BY

NOTED BY

QUANTITIES BY

CHECKED BY

DATE

NOTED BY

QUANTITIES BY

CHECKED BY

DATE

SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE											
STATION	MAUKA	MAKAI	M.P.	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)
							W/POST	WO/POST	W/POST	WO/POST	
22+75		●	14.84	R1-1		1	1				
22+75		●	14.84	SS-1 (MAHUKONA PARK RD)		1		1			
25+01		●	14.80	R2-1B (55)		1			1		
25+43		●	14.79	R4-2		1	1				
27+48	●		14.75	(↑ HAWI 7) D-3 (← MAHUKONA) (8' X 4')		1			1		32
29+25		●	14.71	Shoreline Public Access	1						
38+65		●	14.54	R4-1		1	1				
65+27		●	14.03	R8-3		1	1				
69+55	●		13.96	LAPAKAHI STATE HISTORICAL PARK	1						
69+72		●	13.93	R1-1		1	1				
120+59		●	12.96	ADOPT-A-HIGHWAY (KOHALA LIONS CLUB)		2		1	1		
172+06	●		11.99	ADOPT-A-HIGHWAY (KOHALA LIONS CLUB)		2		1	1		
172+06		●	11.99	ADOPT-A-HIGHWAY (MAHUKONA RANCH)		2		1	1		
182+01		●	11.80	W2-2L		1	1				
185+42		●	11.74	W2-2L		1	1				
187+00		●	11.71	Shoreline Public Access	1						
189+88	●		11.65	R1-1		1	1				
189+88	●		11.65	SS-1 (KAIHOLENA PL)		1		1			
193+61	●		11.58	Shoreline Public Access	1						
196+45	●		11.53	W2-2R		1	1				
200+64	●		11.45	W2-2R		1	1				
237+35	●	●	10.75	R7-1		2	1	1			
257+28	●	●	10.38	R7-1		2	1	1			
275+00	●	●	10.04	R7-1		2	1	1			
276+50	●	●	10.01	ADOPT-A-HIGHWAY (MAHUKONA RANCH)		2		1	1		
292+86	●	●	9.70	R7-1		2	2				
297+47	●		9.61	R16-1A		1	1				
307+20	●	●	9.43	R8-3		2	2				
312+20	●		9.33	R4-1		1	1				
330+92	●		8.98	Smokey The Bear	1						
337+39	●		8.85	R2-1B (55)		1			1		
379+62	●		8.05	ADOPT-A-HIGHWAY (NO SPONSOR)		1			1		



SIGN REPLACEMENT, REMOVAL, AND INSTALLATION SCHEDULE											
STATION	MAUKA	MAKAI	M.P.	TYPE	SIGN TO REMAIN	REMOVE	INSTALL (10 SQ. FT. OR LESS)		INSTALL (GREATER THAN 10 SQ. FT.)		DESTINATION SIGN PANEL (S.F.)
							W/POST	WO/POST	W/POST	WO/POST	
382+00		●	8.01	ADOPT-A-HIGHWAY (NO SPONSOR)		1			1		
394+57	●		7.77	W1-4R		1	1				
394+57	●		7.77	W5-1		1		1			
TOTALS					5	39	20	10	9		32

MILEPOST SCHEDULE				
STATION	MAUKA	MAKAI	MILE POST D10-4 (12"X24") MILE POST NO. (RTE. NO.)	INSTALL WITH POST (BI-DIRECTIONAL)
41+75	●		14.5 (270)	1
67+00	●		14 (270)	1
92+87	●		13.5 (270)	1
118+75	●		13 (270)	1
145+12	●		12.5 (270)	1
171+50	●		12 (270)	1
197+87	●		11.5 (270)	1
224+25	●		11 (270)	1
250+67	●		10.5 (270)	1
277+10	●		10 (270)	1
303+42	●		9.5 (270)	1
329+75	●		9 (270)	1
356+12	●		8.5 (270)	1
382+50	●		8 (270)	1
408+80	●		7.5 (270)	1
435+10	●		7 (270)	1
TOTALS			8	16

ROUTE MARKER SCHEDULE				
STATION	MAUKA	MAKAI	ROUTE MARKER SIGN NO. (ROUTE #) w/ M2-1 OR M6 SIGNS	INSTALL TYPE A ASSEMBLY
431+50	●	●	M1-6 (270)	2
72+00	●	●	M1-6 (270)	2
TOTALS				4

NOTE :
Refer to Location Plan for reference directions,
Mauka and Makai.

6/8/15

This sheet replaces Sheet No. 103 in its entirety.

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION SIGN SCHEDULE ROUTE 270, MAHUKONA TO KOHALA RANCH REPLACEMENT OF HIGHWAY SIGNS Project No. HWY-H-02-15M Scale: None Date: May, 2015 SHEET No. 1 OF 1 SHEETS	