

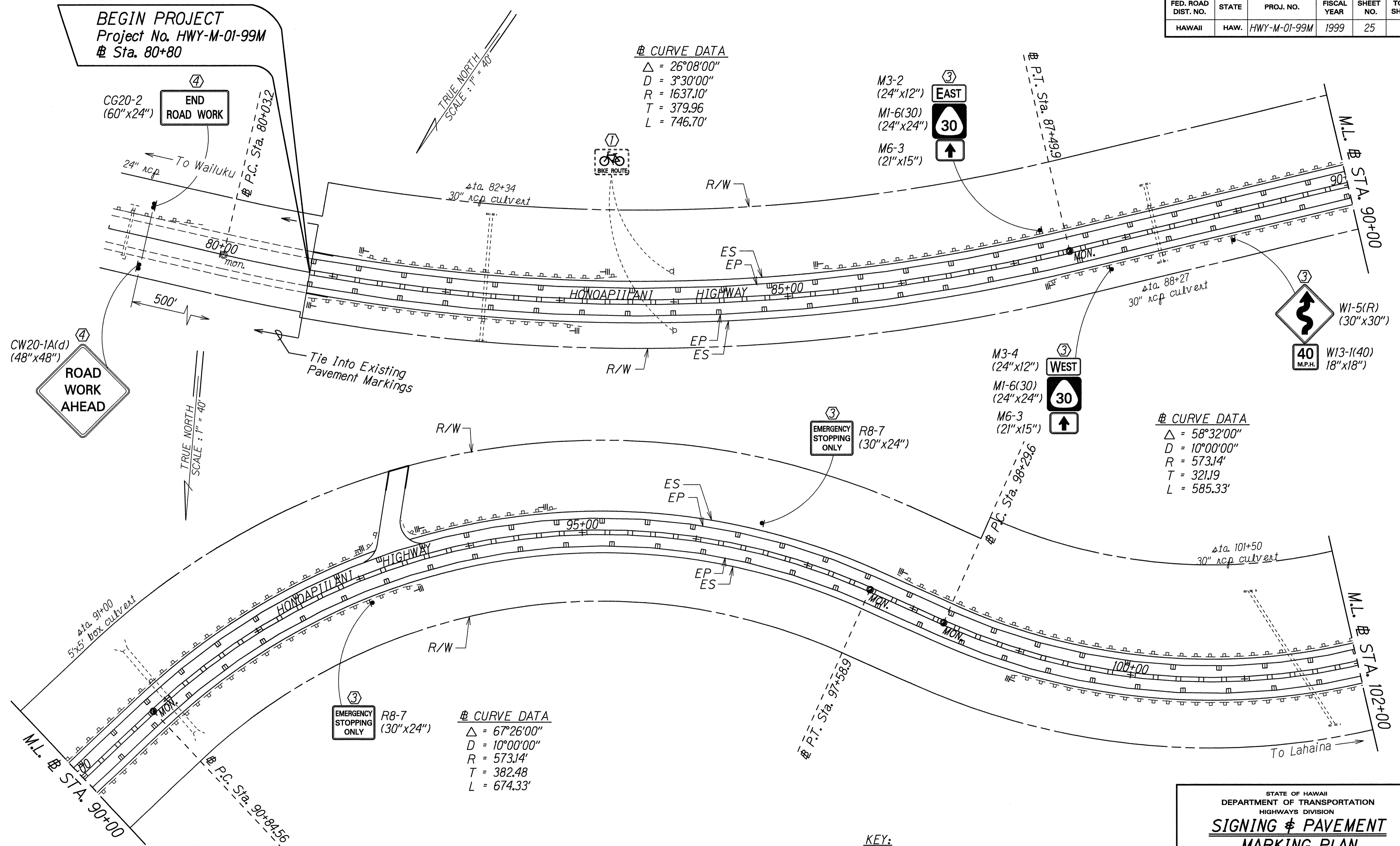
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	25	44

**BEGIN PROJECT**  
Project No. HWY-M-01-99M  
# Sta. 80+80

# CURVE DATA  
 $\Delta = 26^{\circ}08'00''$   
 $D = 3^{\circ}30'00''$   
 $R = 1637.10'$   
 $T = 379.96$   
 $L = 746.70'$

# CURVE DATA  
 $\Delta = 58^{\circ}32'00''$   
 $D = 10^{\circ}00'00''$   
 $R = 573.14'$   
 $T = 321.19$   
 $L = 585.33'$

# CURVE DATA  
 $\Delta = 67^{\circ}26'00''$   
 $D = 10^{\circ}00'00''$   
 $R = 573.14'$   
 $T = 382.48$   
 $L = 674.33'$



ORIGINAL PLAN	DATE	Scale: 1993
SURVEY PLOTTED BY		
DRAWN BY		
NOTE BOOK		
DESIGNED 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)

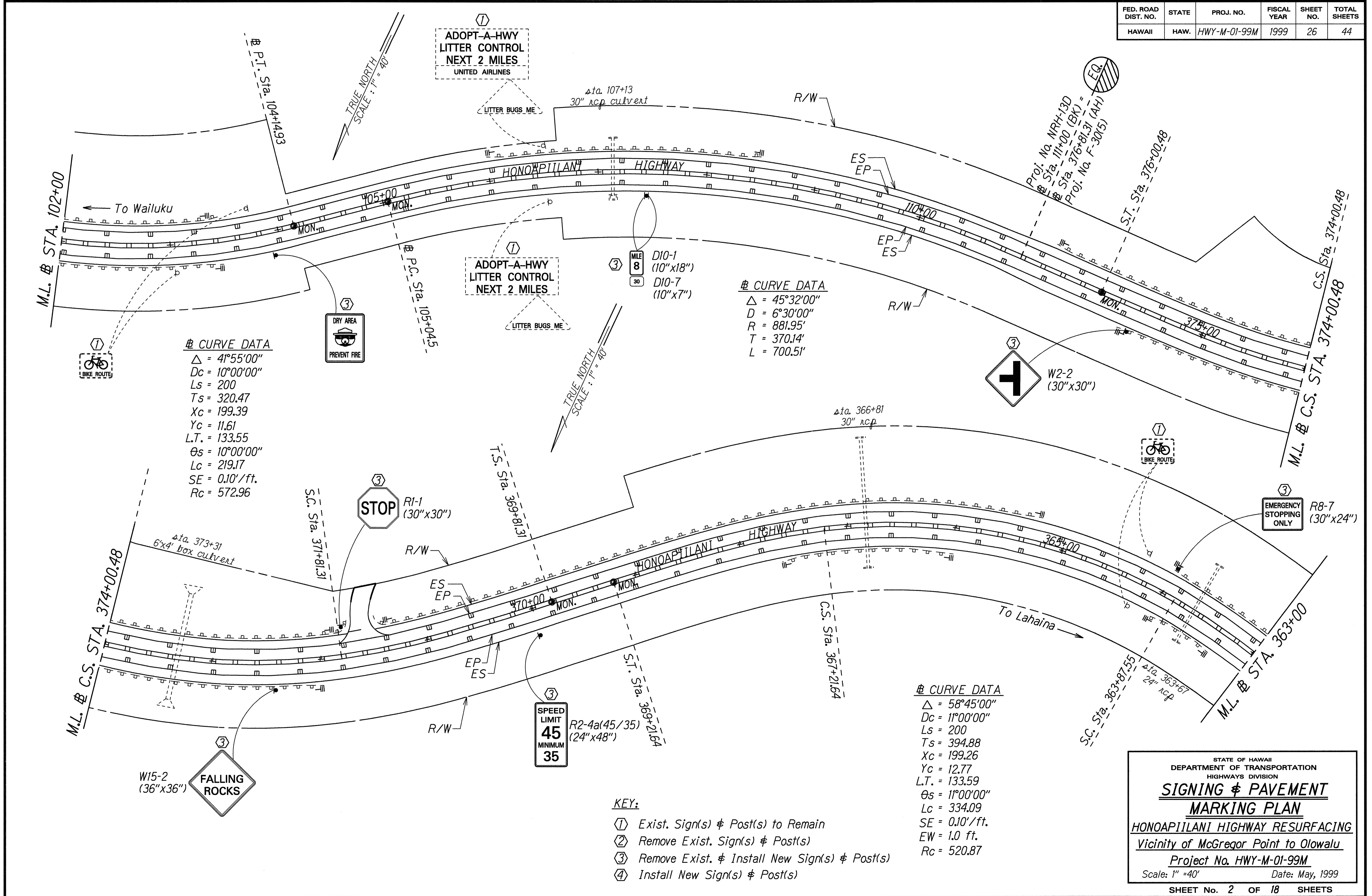
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

**HONOAPIILANI HIGHWAY RESURFACING**  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 1 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	26	44



**# CURVE DATA**  
 $\Delta = 41^{\circ}55'00''$   
 $D_c = 10^{\circ}00'00''$   
 $L_s = 200$   
 $T_s = 320.47$   
 $X_c = 199.39$   
 $Y_c = 11.61$   
 $L.T. = 133.55$   
 $\theta_s = 10^{\circ}00'00''$   
 $L_c = 219.17$   
 $SE = 0.10'/ft.$   
 $R_c = 572.96$

**# CURVE DATA**  
 $\Delta = 45^{\circ}32'00''$   
 $D = 6^{\circ}30'00''$   
 $R = 881.95'$   
 $T = 370.14'$   
 $L = 700.51'$

**# CURVE DATA**  
 $\Delta = 58^{\circ}45'00''$   
 $D_c = 11^{\circ}00'00''$   
 $L_s = 200$   
 $T_s = 394.88$   
 $X_c = 199.26$   
 $Y_c = 12.77$   
 $L.T. = 133.59$   
 $\theta_s = 11^{\circ}00'00''$   
 $L_c = 334.09$   
 $SE = 0.10'/ft.$   
 $EW = 1.0 ft.$   
 $R_c = 520.87$

- 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)

SURVEY PLOTTED BY	DATE
DRAWN BY	
NOTED BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT  
MARKING PLAN**

HONOAPIILANI HIGHWAY RESURFACING  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

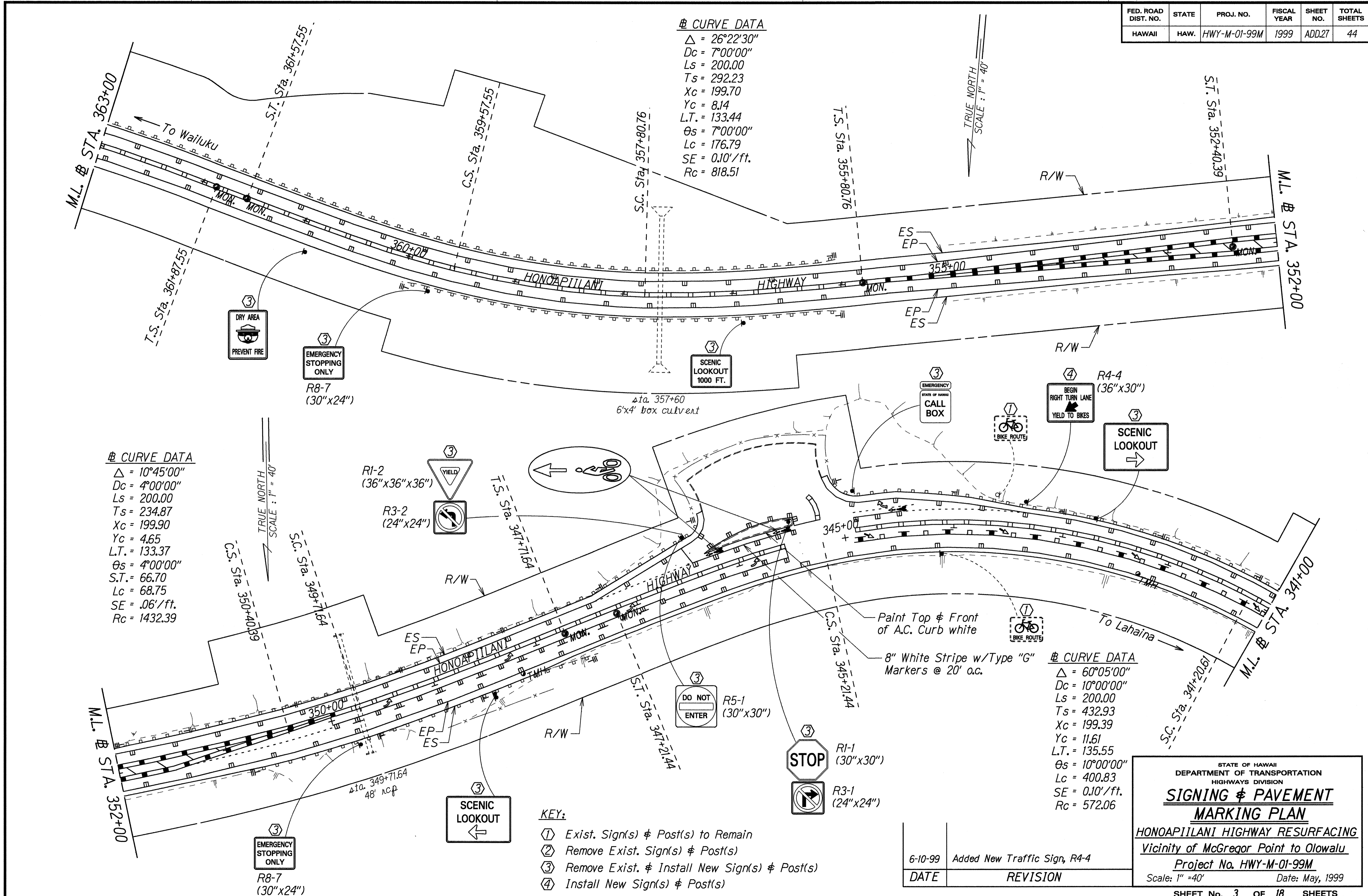
SHEET No. 2 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	ADD.27	44

**④ CURVE DATA**  
 $\Delta = 26^{\circ}22'30''$   
 $Dc = 7^{\circ}00'00''$   
 $Ls = 200.00$   
 $Ts = 292.23$   
 $Xc = 199.70$   
 $Yc = 8.14$   
 $L.T. = 133.44$   
 $\theta s = 7^{\circ}00'00''$   
 $Lc = 176.79$   
 $SE = 0.10'/ft.$   
 $Rc = 818.51$

**④ CURVE DATA**  
 $\Delta = 10^{\circ}45'00''$   
 $Dc = 4^{\circ}00'00''$   
 $Ls = 200.00$   
 $Ts = 234.87$   
 $Xc = 199.90$   
 $Yc = 4.65$   
 $L.T. = 133.37$   
 $\theta s = 4^{\circ}00'00''$   
 $S.T. = 66.70$   
 $Lc = 68.75$   
 $SE = .06'/ft.$   
 $Rc = 1432.39$

**④ CURVE DATA**  
 $\Delta = 60^{\circ}05'00''$   
 $Dc = 10^{\circ}00'00''$   
 $Ls = 200.00$   
 $Ts = 432.93$   
 $Xc = 199.39$   
 $Yc = 11.61$   
 $L.T. = 135.55$   
 $\theta s = 10^{\circ}00'00''$   
 $Lc = 400.83$   
 $SE = 0.10'/ft.$   
 $Rc = 572.06$



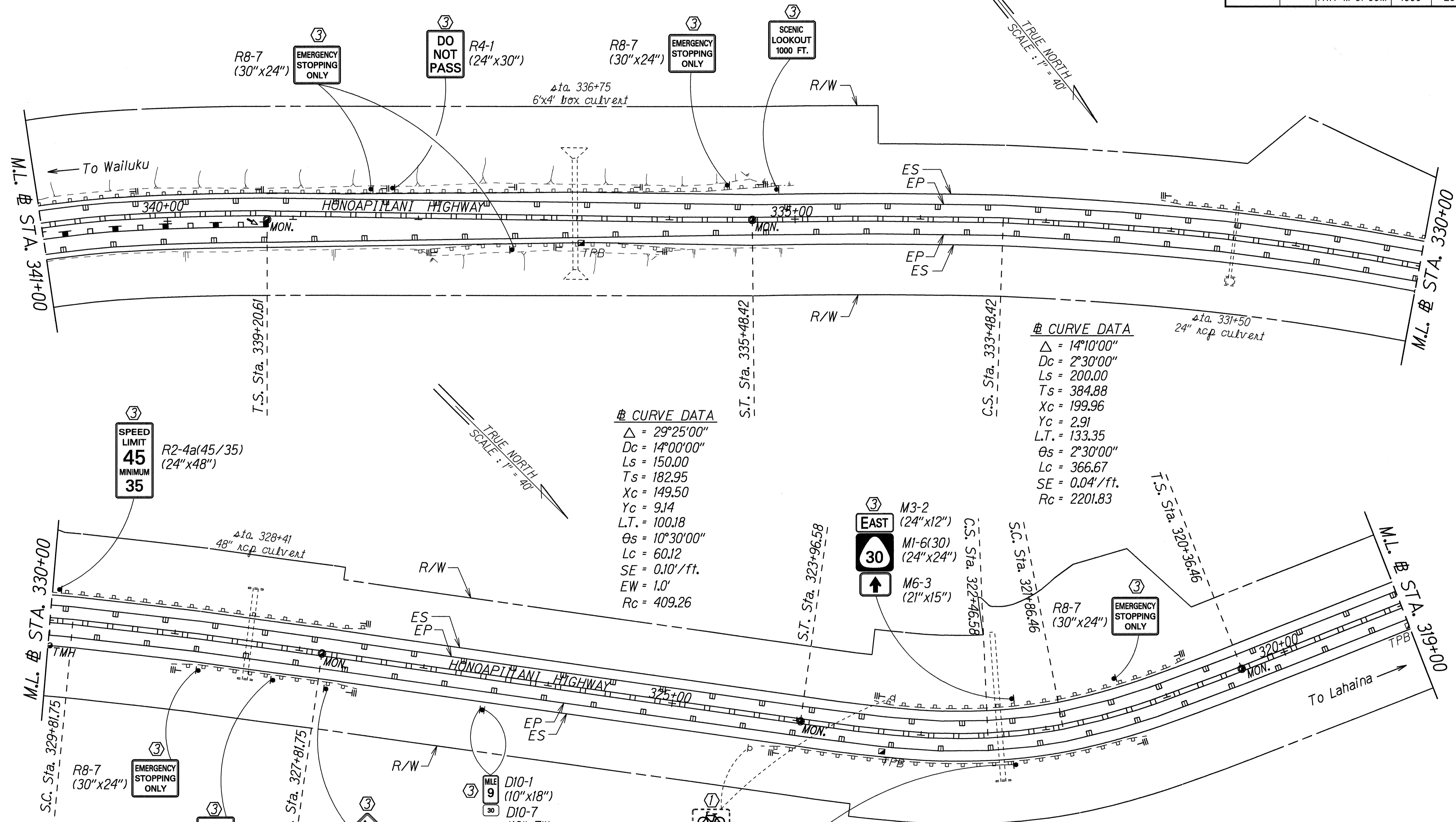
DATE	3/20/99
DESIGNED BY	JG
DRAWN BY	JG
CHECKED BY	JG
APPROVED BY	JG

- 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
6-10-99	Added New Traffic Sign, R4-4

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**SIGNING & PAVEMENT MARKING PLAN**  
HONOAPIILANI HIGHWAY RESURFACING  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999  
SHEET No. 3 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	28	44



**③ CURVE DATA**  
 $\Delta = 29^{\circ}25'00''$   
 $Dc = 14^{\circ}00'00''$   
 $Ls = 150.00$   
 $Ts = 182.95$   
 $Xc = 149.50$   
 $Yc = 9.14$   
 $L.T. = 100.18$   
 $\theta s = 10^{\circ}30'00''$   
 $Lc = 60.12$   
 $SE = 0.10'/ft.$   
 $EW = 1.0'$   
 $Rc = 409.26$

**③ CURVE DATA**  
 $\Delta = 14^{\circ}10'00''$   
 $Dc = 2^{\circ}30'00''$   
 $Ls = 200.00$   
 $Ts = 384.88$   
 $Xc = 199.96$   
 $Yc = 2.91$   
 $L.T. = 133.35$   
 $\theta s = 2^{\circ}30'00''$   
 $Lc = 366.67$   
 $SE = 0.04'/ft.$   
 $Rc = 2201.83$

- 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: 5/24/99  
 SURVEY PLOTTED BY: JG  
 DRAWN BY: JG  
 CHECKED BY: JG  
 ORIGINAL PLAN: [ ]  
 NOTE BOOK: [ ]  
 QUANTITIES BY: [ ]  
 CHECKED BY: [ ]

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & PAVEMENT MARKING PLAN**  
 HONOAPIʻILANI HIGHWAY RESURFACING  
 Vicinity of McGregor Point to Olowalu  
 Project No. HWY-M-01-99M  
 Scale: 1" = 40' Date: May, 1999  
 SHEET No. 4 OF 18 SHEETS

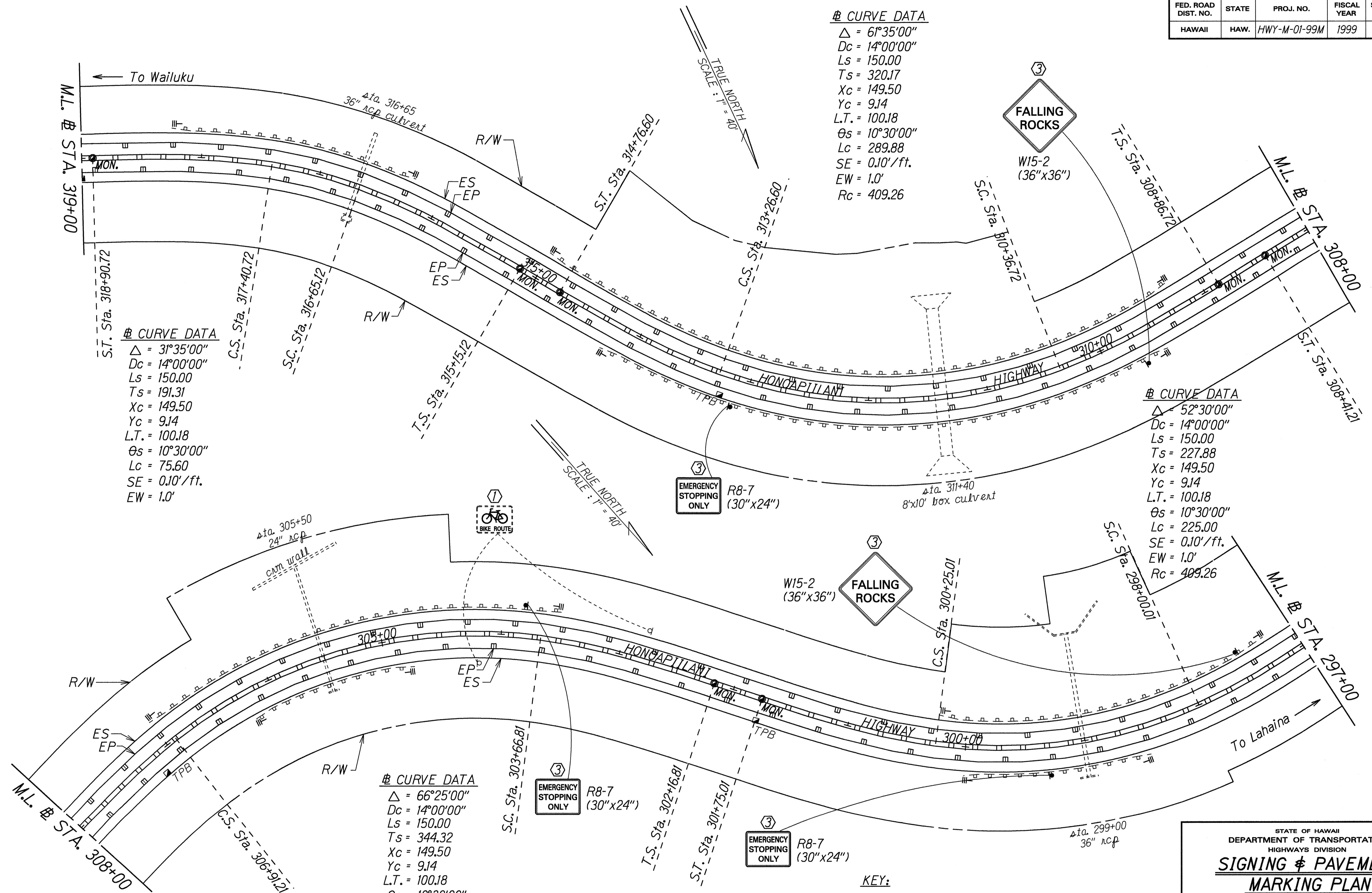
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	29	44

**# CURVE DATA**  
 $\Delta = 61^{\circ}35'00''$   
 $Dc = 14^{\circ}00'00''$   
 $Ls = 150.00$   
 $Ts = 320.17$   
 $Xc = 149.50$   
 $Yc = 9.14$   
 $L.T. = 100.18$   
 $\theta s = 10^{\circ}30'00''$   
 $Lc = 289.88$   
 $SE = 0.10'/ft.$   
 $EW = 1.0'$   
 $Rc = 409.26$

**# CURVE DATA**  
 $\Delta = 31^{\circ}35'00''$   
 $Dc = 14^{\circ}00'00''$   
 $Ls = 150.00$   
 $Ts = 191.31$   
 $Xc = 149.50$   
 $Yc = 9.14$   
 $L.T. = 100.18$   
 $\theta s = 10^{\circ}30'00''$   
 $Lc = 75.60$   
 $SE = 0.10'/ft.$   
 $EW = 1.0'$

**# CURVE DATA**  
 $\Delta = 52^{\circ}30'00''$   
 $Dc = 14^{\circ}00'00''$   
 $Ls = 150.00$   
 $Ts = 227.88$   
 $Xc = 149.50$   
 $Yc = 9.14$   
 $L.T. = 100.18$   
 $\theta s = 10^{\circ}30'00''$   
 $Lc = 225.00$   
 $SE = 0.10'/ft.$   
 $EW = 1.0'$   
 $Rc = 409.26$

**# CURVE DATA**  
 $\Delta = 66^{\circ}25'00''$   
 $Dc = 14^{\circ}00'00''$   
 $Ls = 150.00$   
 $Ts = 344.32$   
 $Xc = 149.50$   
 $Yc = 9.14$   
 $L.T. = 100.18$   
 $\theta s = 10^{\circ}30'00''$   
 $Lc = 324.40$   
 $SE = 0.10'/ft.$   
 $EW = 1.0'$   
 $Rc = 409.26$



DATE	1999
SURVEY PLATTED BY	
DRAWN BY	JG
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DESIGNED 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)

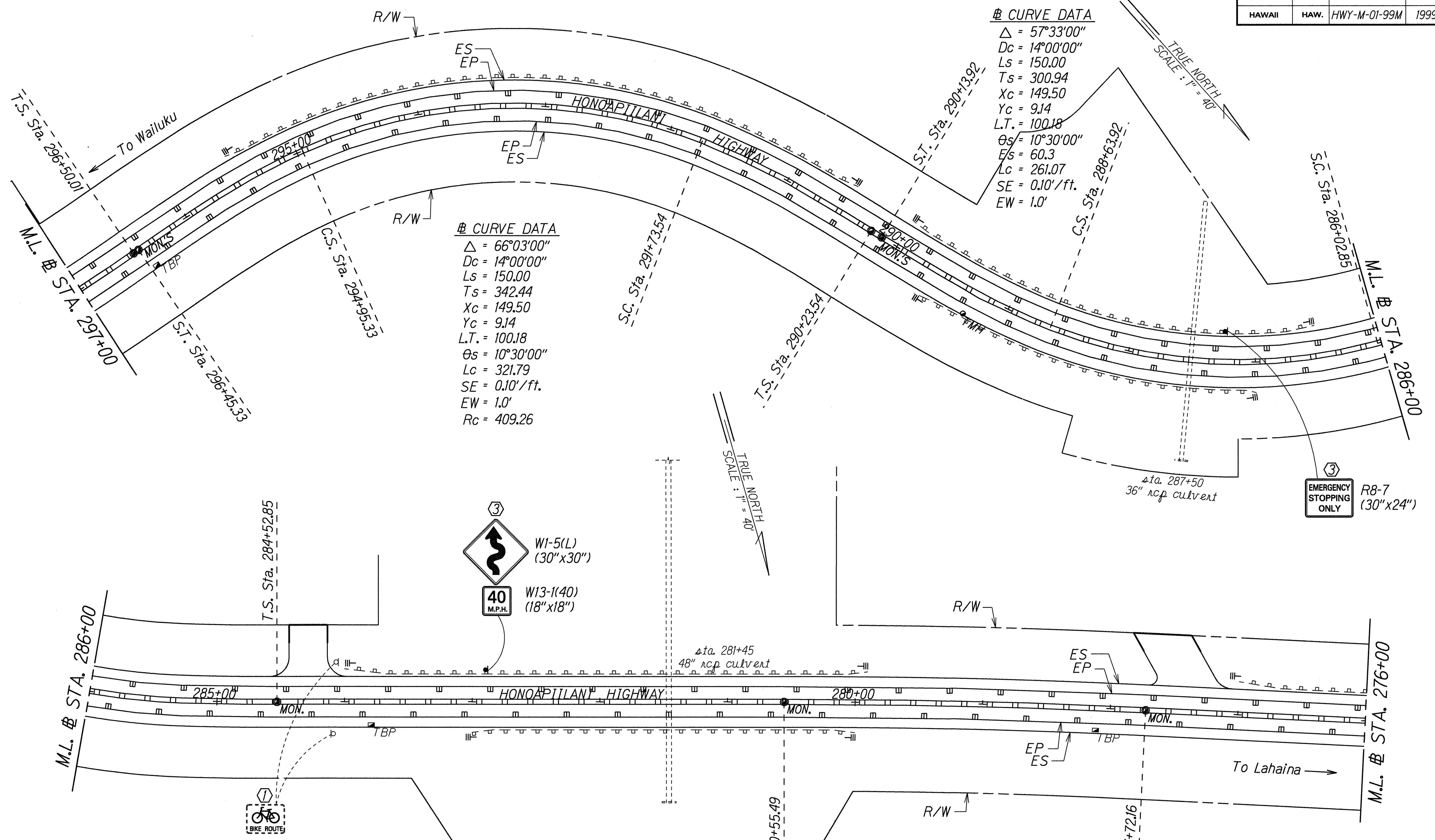
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT  
MARKING PLAN**

HONOAPIILANI HIGHWAY RESURFACING  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 5 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	30	44



**# CURVE DATA**  
 $\Delta = 57^{\circ}33'00''$   
 $D_c = 14^{\circ}00'00''$   
 $L_s = 150.00$   
 $T_s = 300.94$   
 $X_c = 149.50$   
 $Y_c = 9.14$   
 $L.T. = 100.18$   
 $\theta_s = 10^{\circ}30'00''$   
 $E_s = 60.3$   
 $L_c = 261.07$   
 $SE = 0.10'/ft.$   
 $EW = 1.0'$

**# CURVE DATA**  
 $\Delta = 66^{\circ}03'00''$   
 $D_c = 14^{\circ}00'00''$   
 $L_s = 150.00$   
 $T_s = 342.44$   
 $X_c = 149.50$   
 $Y_c = 9.14$   
 $L.T. = 100.18$   
 $\theta_s = 10^{\circ}30'00''$   
 $L_c = 321.79$   
 $SE = 0.10'/ft.$   
 $EW = 1.0'$   
 $R_c = 409.26$

**# CURVE DATA**  
 $\Delta = 2^{\circ}50'00''$   
 $D = 1^{\circ}00'00''$   
 $R = 5729.58$   
 $T = 141.70$   
 $C = 283.30$   
 $L = 283.33$   
 $E = 1.75$

- 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	Sept. 1999
SURVEY PLOTTED BY	
DRAWN BY	JG
NOTE BOOK	
DESIGNED BY	CR
CHECKED BY	
CHECKED BY	

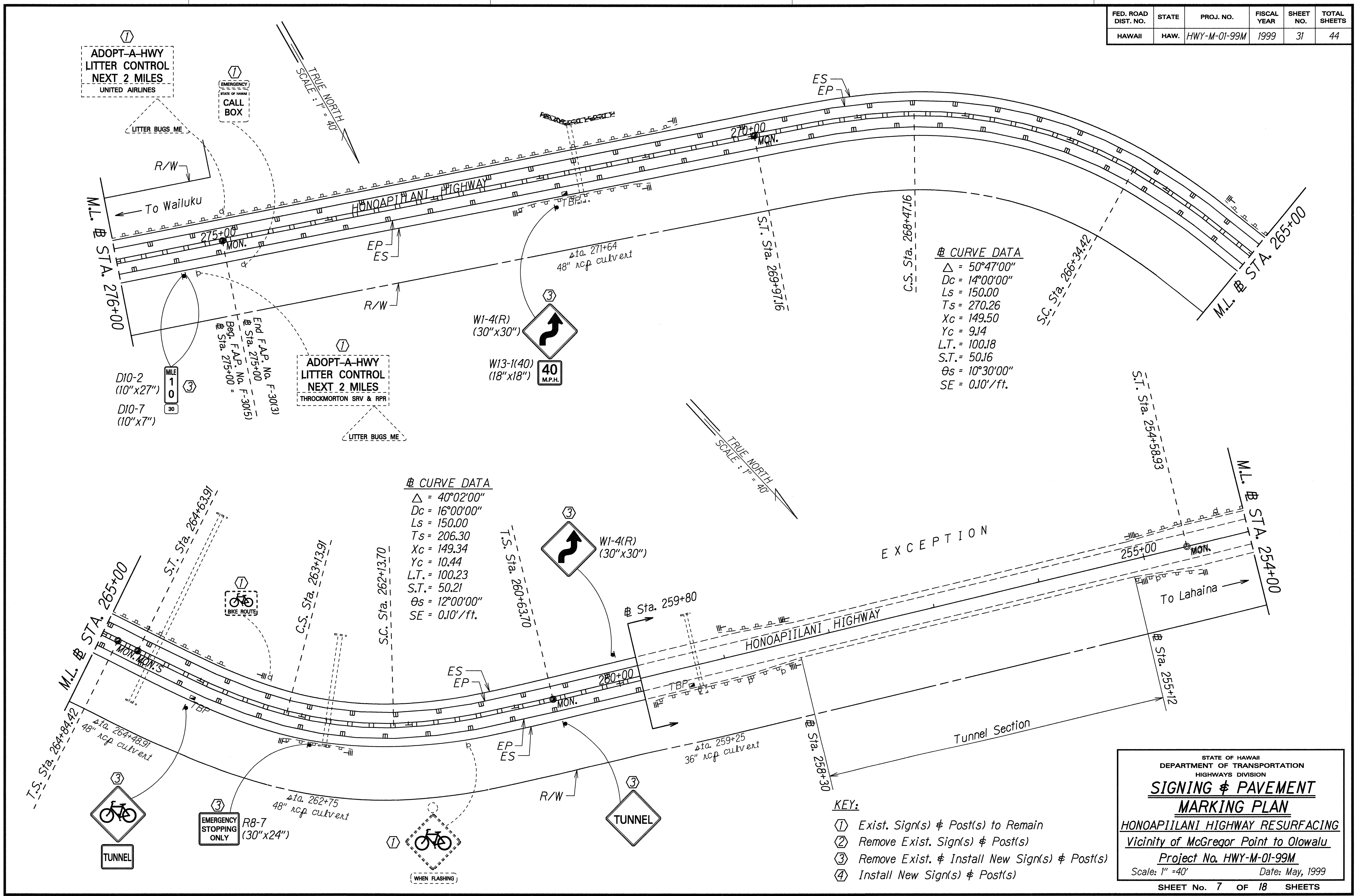
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT  
MARKING PLAN**

HONOAPIILANI HIGHWAY RESURFACING  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 6 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	31	44



# CURVE DATA

$\Delta$	= 50°47'00"
Dc	= 14°00'00"
Ls	= 150.00
Ts	= 270.26
Xc	= 149.50
Yc	= 9.14
L.T.	= 100.18
S.T.	= 50.16
$\theta_s$	= 10°30'00"
SE	= 0.10'/ft.

# CURVE DATA

$\Delta$	= 40°02'00"
Dc	= 16°00'00"
Ls	= 150.00
Ts	= 206.30
Xc	= 149.34
Yc	= 10.44
L.T.	= 100.23
S.T.	= 50.21
$\theta_s$	= 12°00'00"
SE	= 0.10'/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)

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

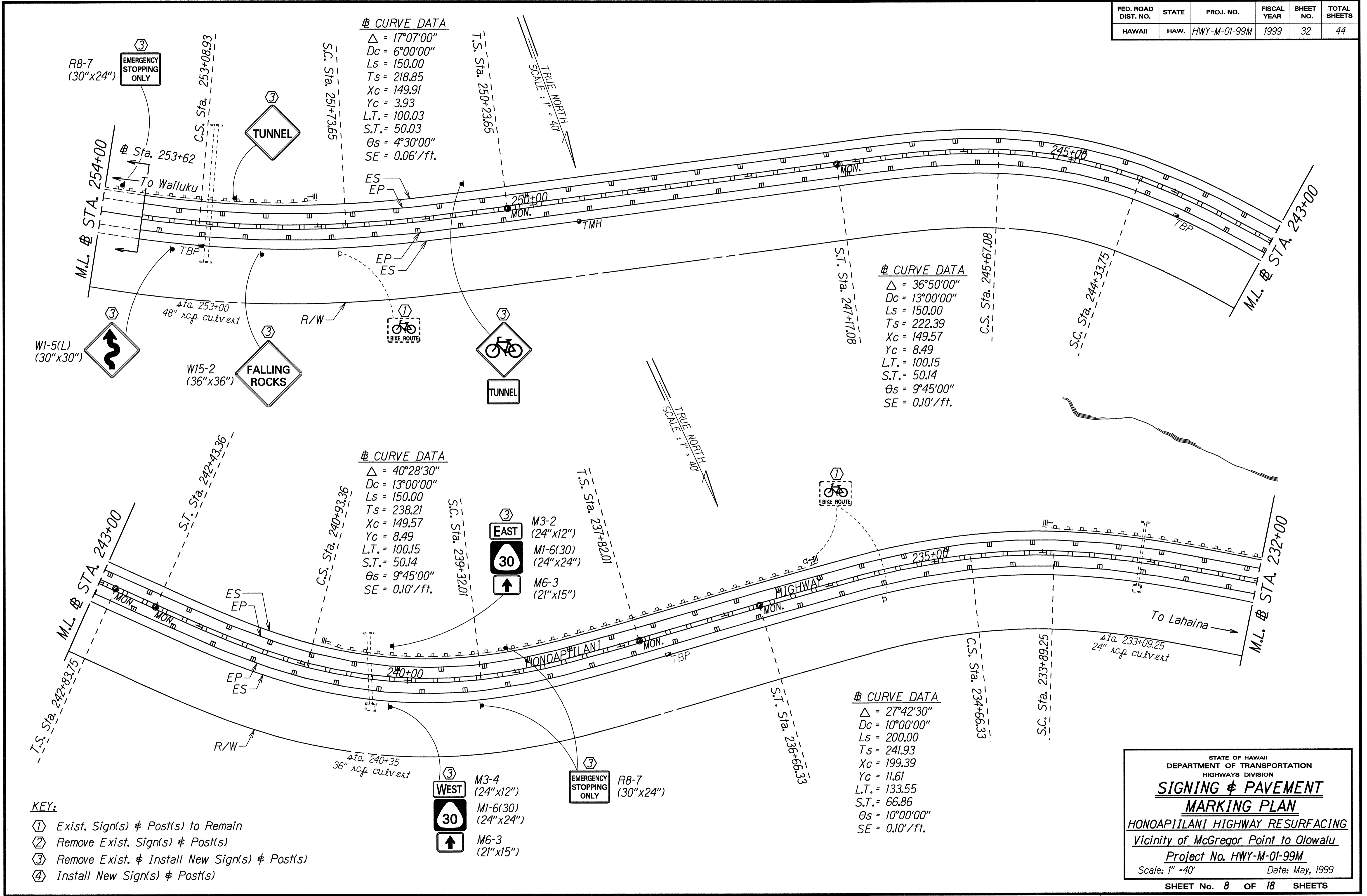
**SIGNING & PAVEMENT MARKING PLAN**

HONOAPIILANI HIGHWAY RESURFACING  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 7 OF 18 SHEETS

DATE: Sept. 1998  
SURVEY PLOTTED BY: JG  
ORIGINAL PLAN  
DRAWN BY: JG  
NOTE BOOK  
NO. 1011  
QUANTITIES BY: JG  
CHECKED BY: JG

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	32	44



**☉ CURVE DATA**  
 $\Delta = 17^{\circ}07'00''$   
 $Dc = 6^{\circ}00'00''$   
 $Ls = 150.00$   
 $Ts = 218.85$   
 $Xc = 149.91$   
 $Yc = 3.93$   
 $L.T. = 100.03$   
 $S.T. = 50.03$   
 $\theta s = 4^{\circ}30'00''$   
 $SE = 0.06' / ft.$

**☉ CURVE DATA**  
 $\Delta = 36^{\circ}50'00''$   
 $Dc = 13^{\circ}00'00''$   
 $Ls = 150.00$   
 $Ts = 222.39$   
 $Xc = 149.57$   
 $Yc = 8.49$   
 $L.T. = 100.15$   
 $S.T. = 50.14$   
 $\theta s = 9^{\circ}45'00''$   
 $SE = 0.10' / ft.$

**☉ CURVE DATA**  
 $\Delta = 40^{\circ}28'30''$   
 $Dc = 13^{\circ}00'00''$   
 $Ls = 150.00$   
 $Ts = 238.21$   
 $Xc = 149.57$   
 $Yc = 8.49$   
 $L.T. = 100.15$   
 $S.T. = 50.14$   
 $\theta s = 9^{\circ}45'00''$   
 $SE = 0.10' / ft.$

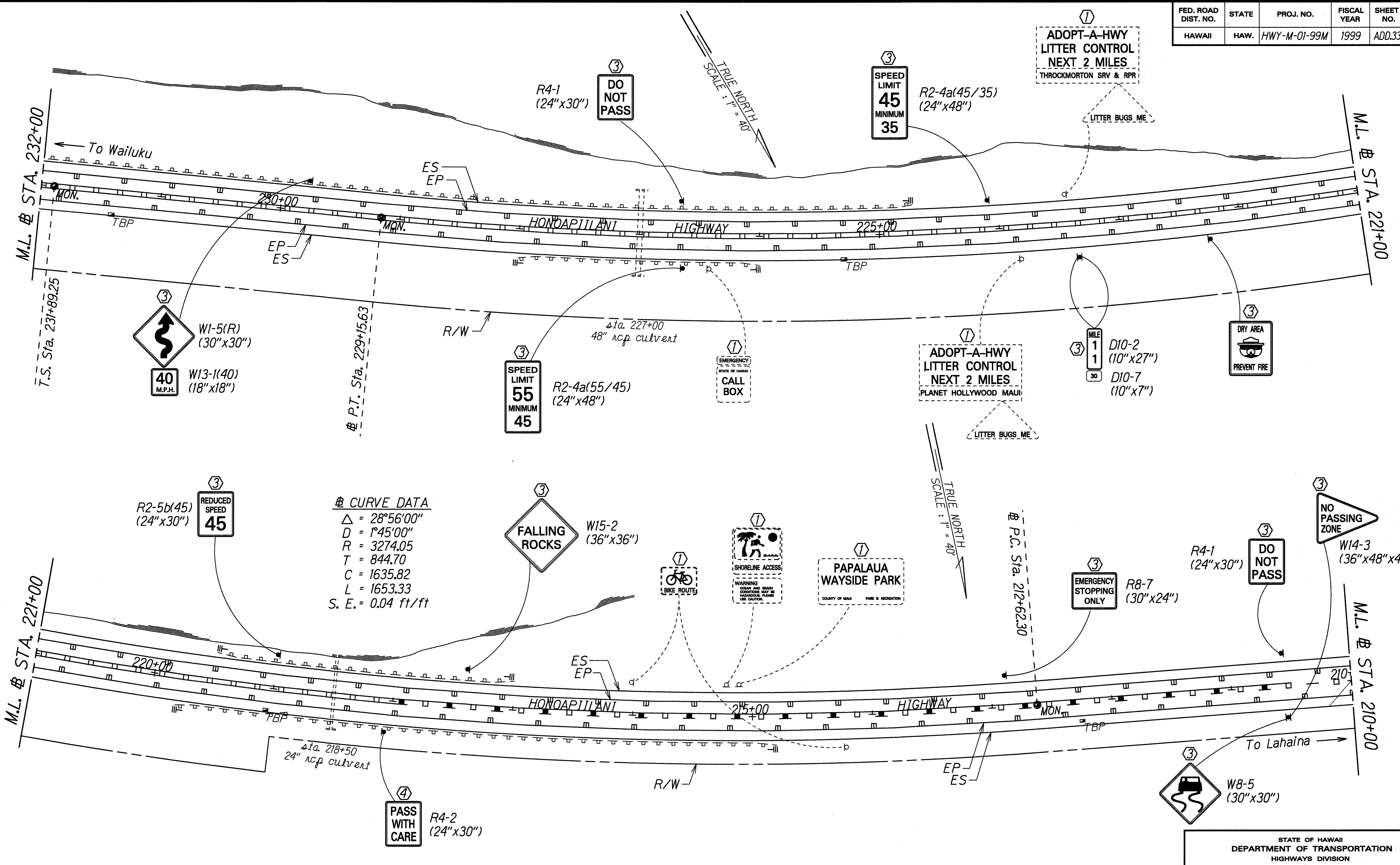
**☉ CURVE DATA**  
 $\Delta = 27^{\circ}42'30''$   
 $Dc = 10^{\circ}00'00''$   
 $Ls = 200.00$   
 $Ts = 241.93$   
 $Xc = 199.39$   
 $Yc = 11.61$   
 $L.T. = 133.55$   
 $S.T. = 66.86$   
 $\theta s = 10^{\circ}00'00''$   
 $SE = 0.10' / ft.$

- 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)

DATE: 5/21/99  
 SURVEY PLOTTED BY: [Signature]  
 DRAWN BY: JG  
 DESIGNED BY: CR  
 CHECKED BY: [Signature]

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & PAVEMENT MARKING PLAN**  
 HONOAPIILANI HIGHWAY RESURFACING  
 Vicinity of McGregor Point to Olowalu  
 Project No. HWY-M-01-99M  
 Scale: 1" = 40' Date: May, 1999  
 SHEET No. 8 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	ADD.33	44



**CURVE DATA**  
 $\Delta = 28^\circ 56' 00''$   
 $D = 1^\circ 45' 00''$   
 $R = 3274.05$   
 $T = 844.70$   
 $C = 1635.82$   
 $L = 1653.33$   
 $S. E. = 0.04 \text{ ft/ft}$

- 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)

DATE	5/21/99
SURVEY PLOTTED BY	
DRAWN BY	ALC
TRACED BY	CP
DESIGNED BY	JAY
CHECKED BY	ALC
ORIGINAL PLAN	
NOTE BOOK	
100% IN CHARGE	
CHECKED BY	

DATE	REVISION
6-10-99	Show pavement marking between # Sta. 221+00 to # Sta. 210+00.

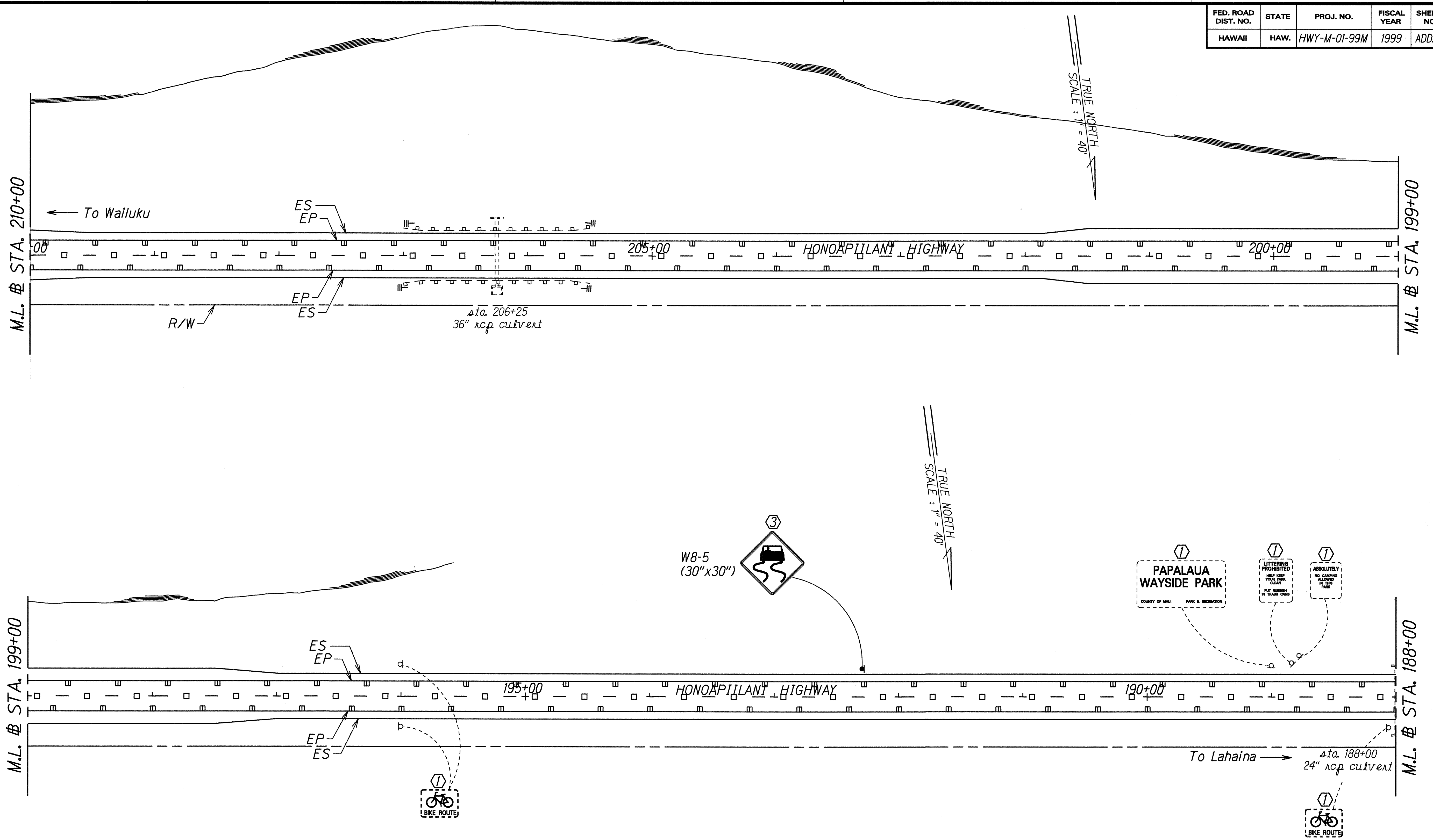
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

**HONOAPIILANI HIGHWAY RESURFACING**  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 9 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	ADD.34	44



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY	DRAWN BY	SCALE
NOTED BY	DESIGNED BY	
CHECKED 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)

DATE	REVISION
6-10-99	Show pavement marking between Sta. 210+00 to Sta. 199+00.

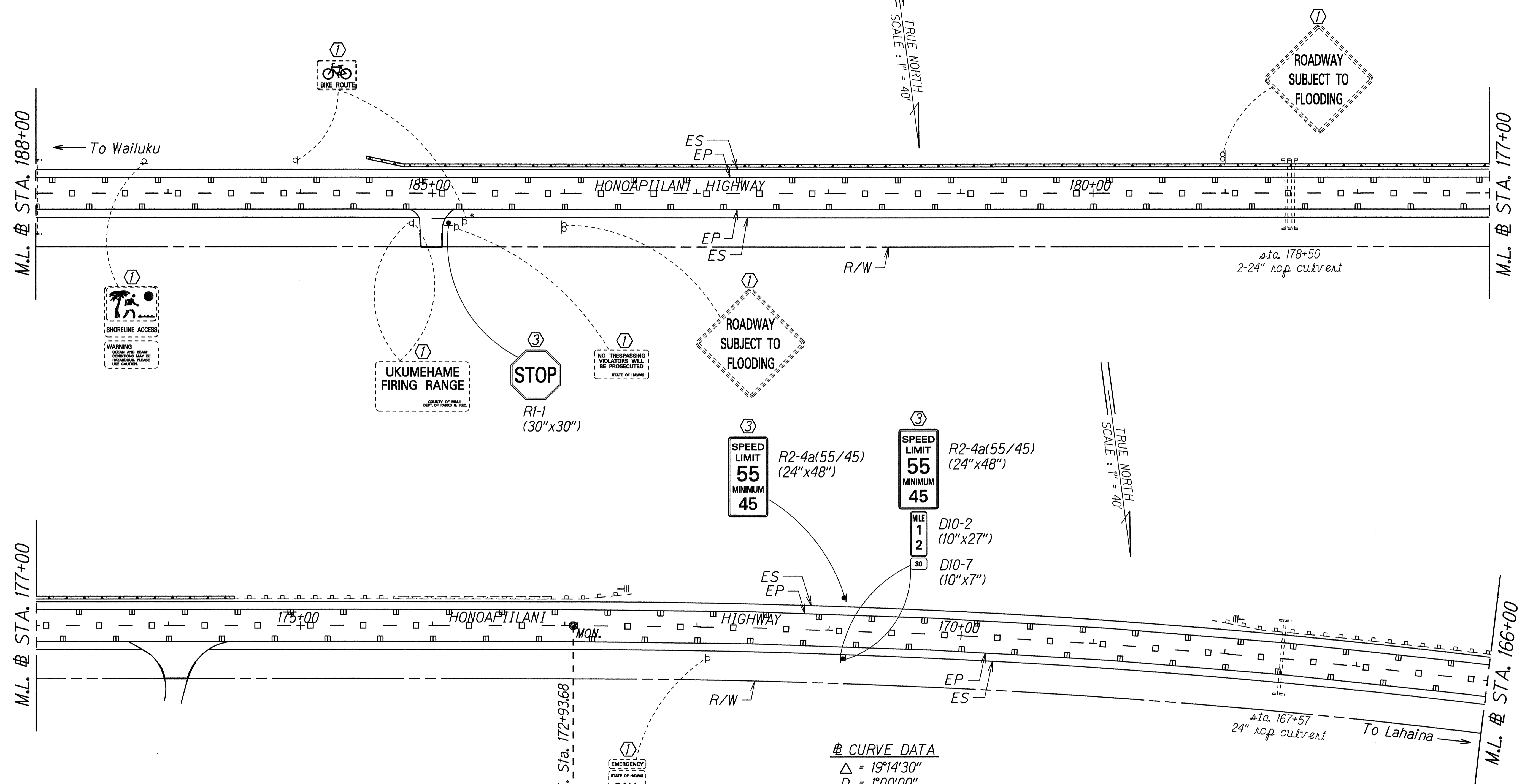
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT  
MARKING PLAN**

**HONOAPIILANI HIGHWAY RESURFACING**  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 10 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	35	44



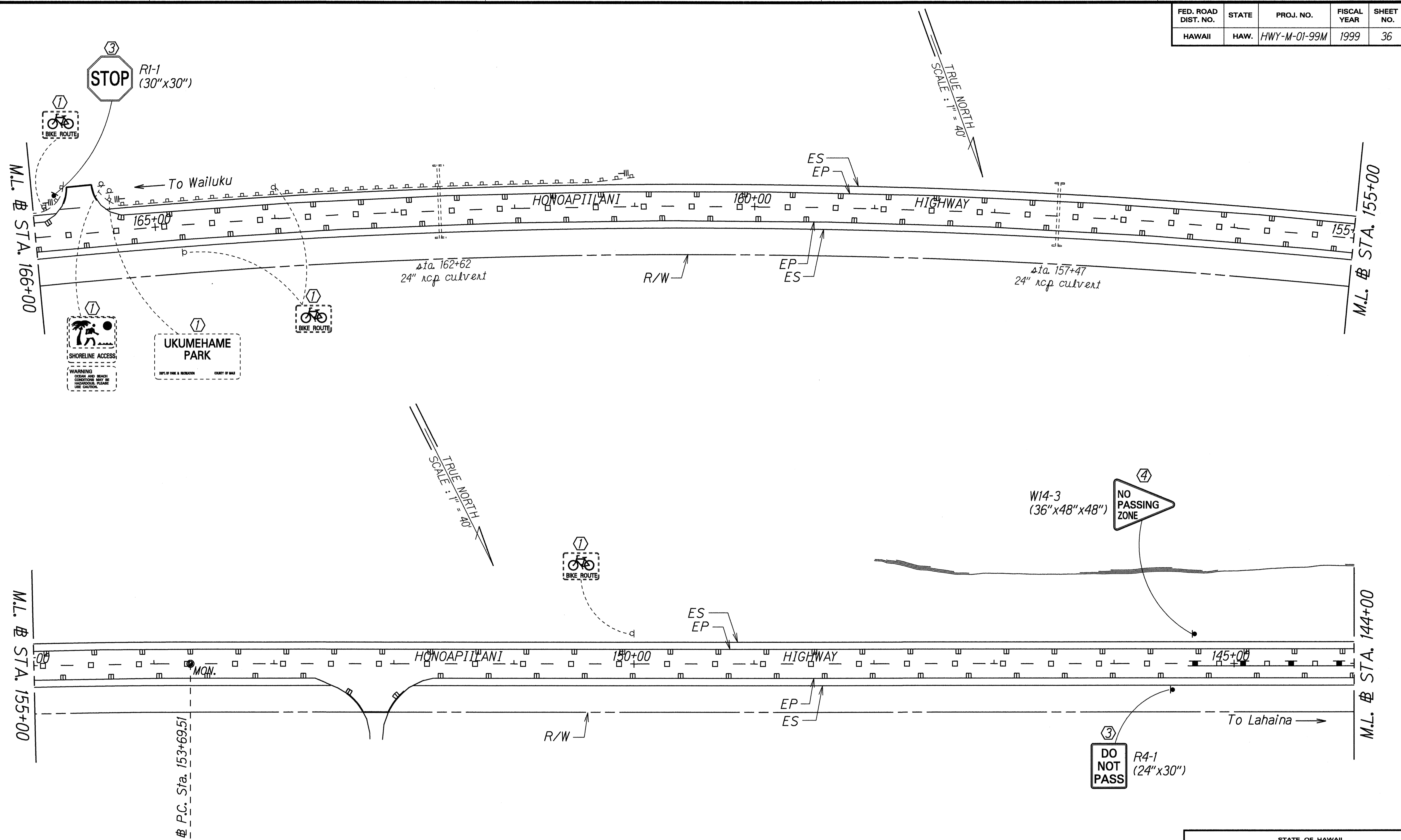
**⊕ CURVE DATA**  
 $\Delta = 19^{\circ}14'30''$   
 $D = 1^{\circ}00'00''$   
 $R = 5729.58$   
 $T = 971.23$   
 $C = 1915.14$   
 $L = 1924.17$   
 $S. E. = 0.00 \text{ ft/ft}$

- 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)

DATE: Sept. 1999  
 SURVEY PLOTTED BY: \_\_\_\_\_  
 DRAWN BY: JG  
 TRACED BY: \_\_\_\_\_  
 DESIGNED BY: CR  
 CHECKED BY: \_\_\_\_\_

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & PAVEMENT MARKING PLAN**  
 HONOAPIILANI HIGHWAY RESURFACING  
 Vicinity of McGregor Point to Olowalu  
 Project No. HWY-M-01-99M  
 Scale: 1" = 40' Date: May, 1999  
 SHEET No. 11 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	36	44



SURVEY PLOTTED BY	DATE
DRAWN BY	Scale: 1999
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

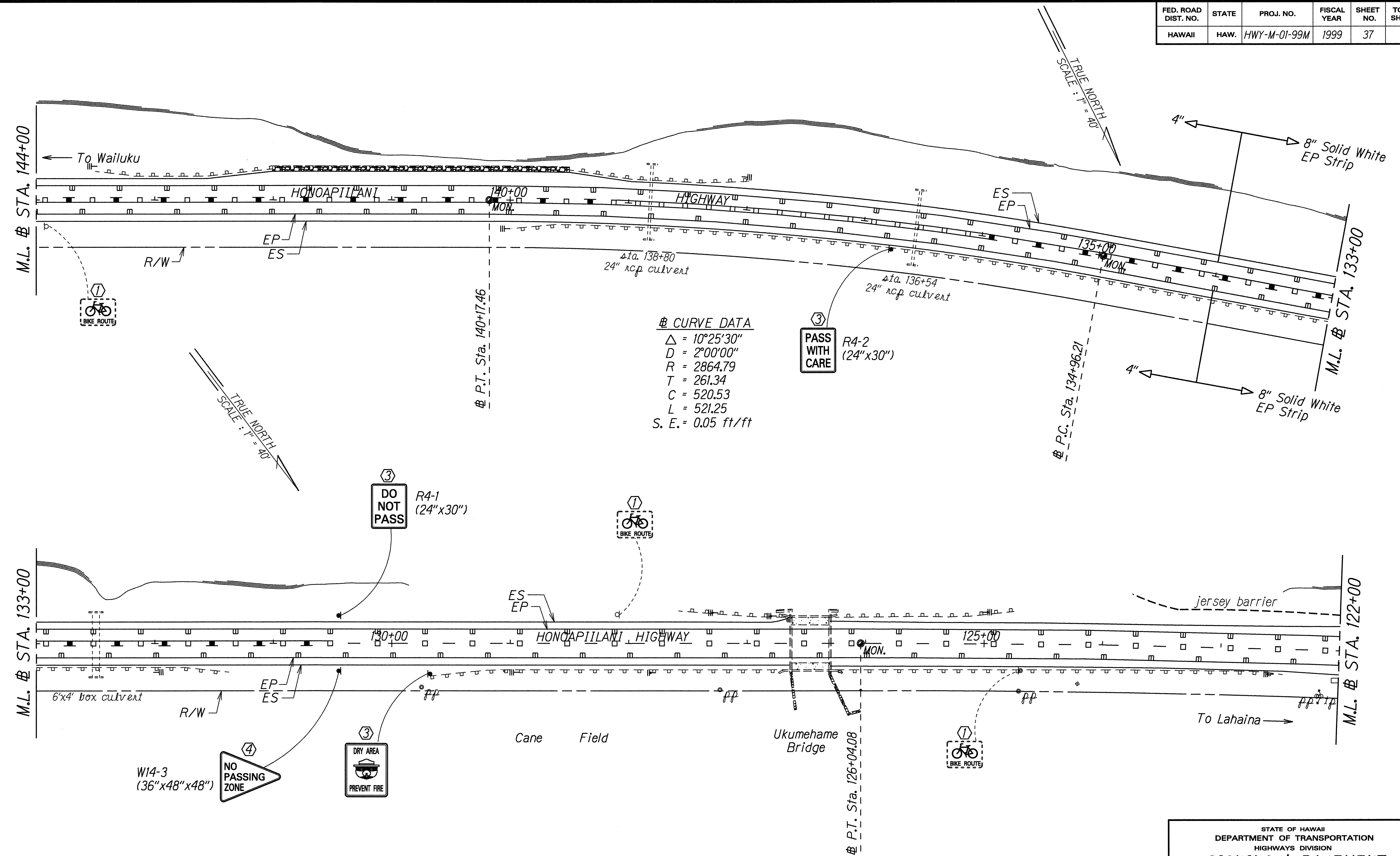
**SIGNING & PAVEMENT  
MARKING PLAN**

**HONOAPIʻILANI HIGHWAY RESURFACING  
Vicinity of McGregor Point to Olowalu**

Project No. HWY-M-01-99M  
Scale: 1" = 40'      Date: May, 1999

SHEET No. 12 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	37	44



**CURVE DATA**  
 $\Delta = 10^{\circ}25'30''$   
 $D = 2^{\circ}00'00''$   
 $R = 2864.79$   
 $T = 261.34$   
 $C = 520.53$   
 $L = 521.25$   
 $S. E. = 0.05 \text{ ft/ft}$

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

DATE: Sept. 1999  
 SURVEY PLOTTED BY: JG  
 DRAWN BY: JG  
 TRACED BY: CR  
 NOTE BOOK: 1001-1010  
 QUANTITIES BY: JG  
 CHECKED BY: JG

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**SIGNING & PAVEMENT MARKING PLAN**  
 HONOAPIILANI HIGHWAY RESURFACING  
 Vicinity of McGregor Point to Olowalu  
 Project No. HWY-M-01-99M  
 Scale: 1" = 40' Date: May, 1999  
 SHEET No. 13 OF 18 SHEETS

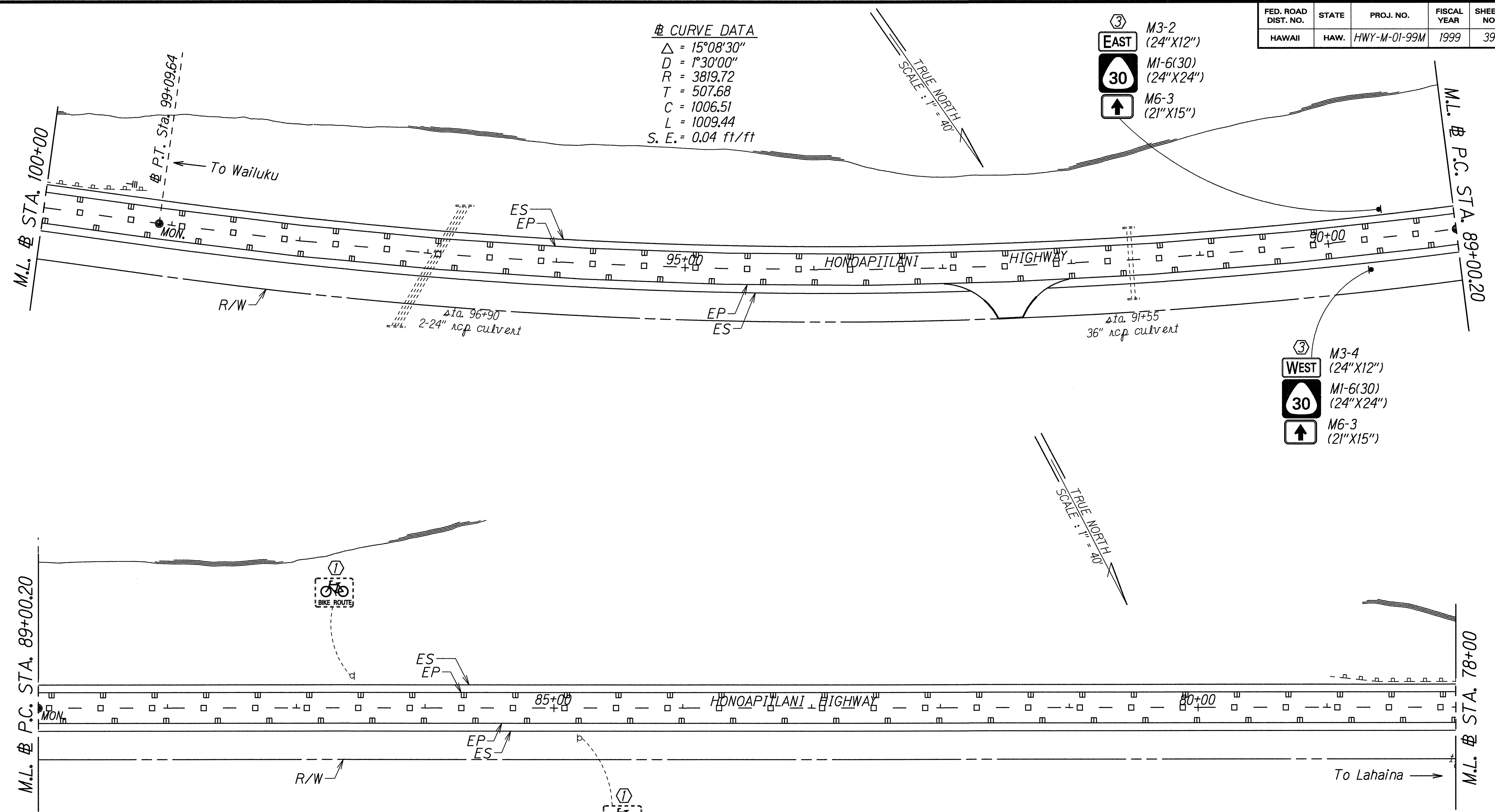


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	39	44

**Ⓢ CURVE DATA**  
 $\Delta = 15^{\circ}08'30''$   
 $D = 1^{\circ}30'00''$   
 $R = 3819.72$   
 $T = 507.68$   
 $C = 1006.51$   
 $L = 1009.44$   
 $S. E. = 0.04 \text{ ft/ft}$

**Ⓢ EAST**  
 M3-2 (24"X12")  
**30**  
 M1-6(30) (24"X24")  
**↑**  
 M6-3 (21"X15")

**Ⓢ WEST**  
 M3-4 (24"X12")  
**30**  
 M1-6(30) (24"X24")  
**↑**  
 M6-3 (21"X15")



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BOOK	DRAWN BY	Sept. 1992
REVISIONS	CHECKED BY	

- KEY:**
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STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

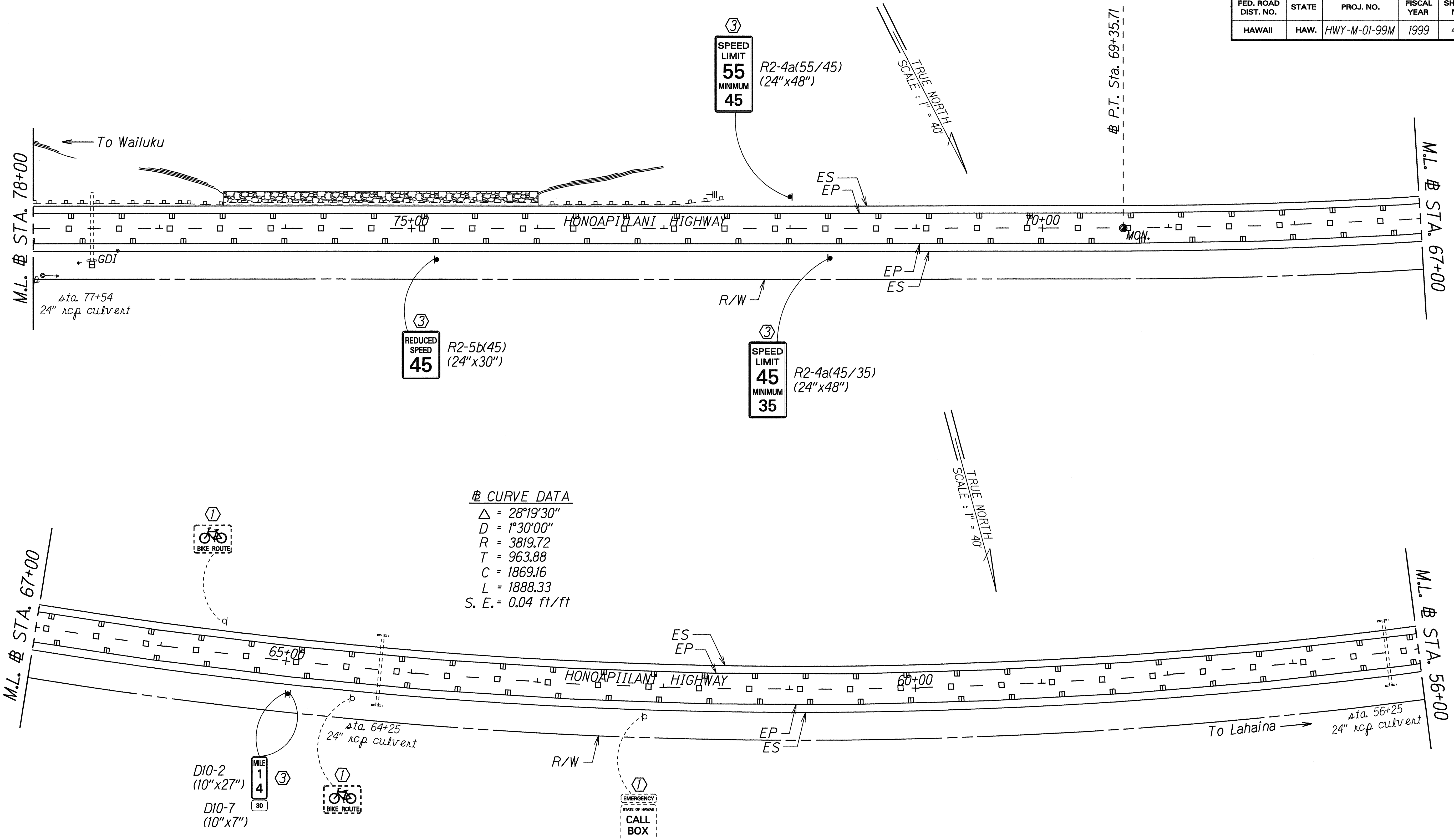
**SIGNING & PAVEMENT  
 MARKING PLAN**

**HONOAPIILANI HIGHWAY RESURFACING**  
 Vicinity of McGregor Point to Olowalu

Project No. HWY-M-01-99M  
 Scale: 1" = 40' Date: May, 1999

SHEET No. 15 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	40	44



DATE	Sept. 1999
SURVEY PLOTTED BY	
ORIGINAL PLAN	
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	

- KEY:**
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

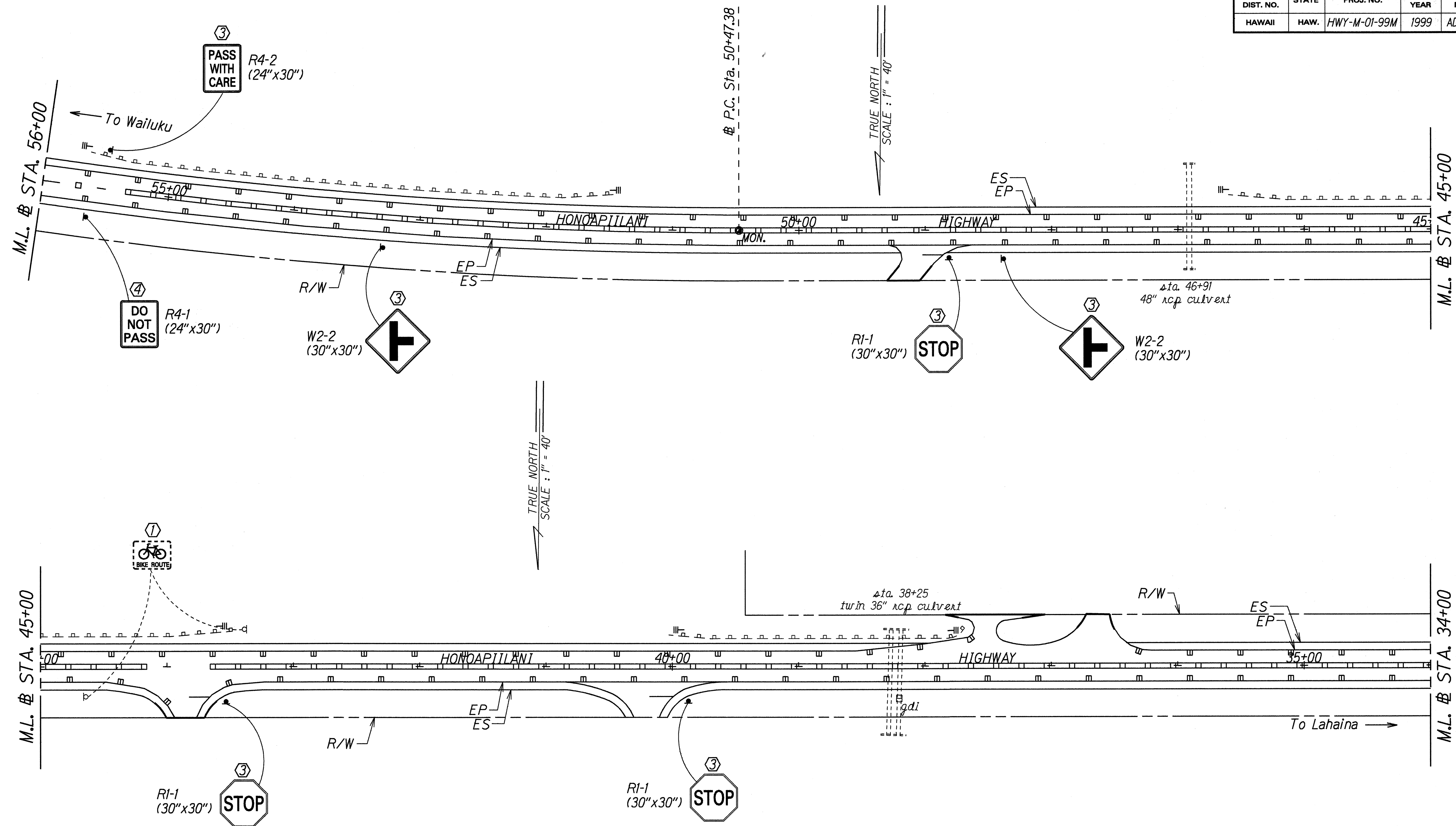
**SIGNING & PAVEMENT  
MARKING PLAN**

**HONOAPIILANI HIGHWAY RESURFACING**  
Vicinity of McGregor Point to Olowalu

Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 16 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	ADD.41	44



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	Sept. 1999
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTES	
DATE	
BY	
CHECKED BY	

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

DATE	REVISION
6-10-99	Show pavement marking between Sta. 56+00 to Sta. 34+00.

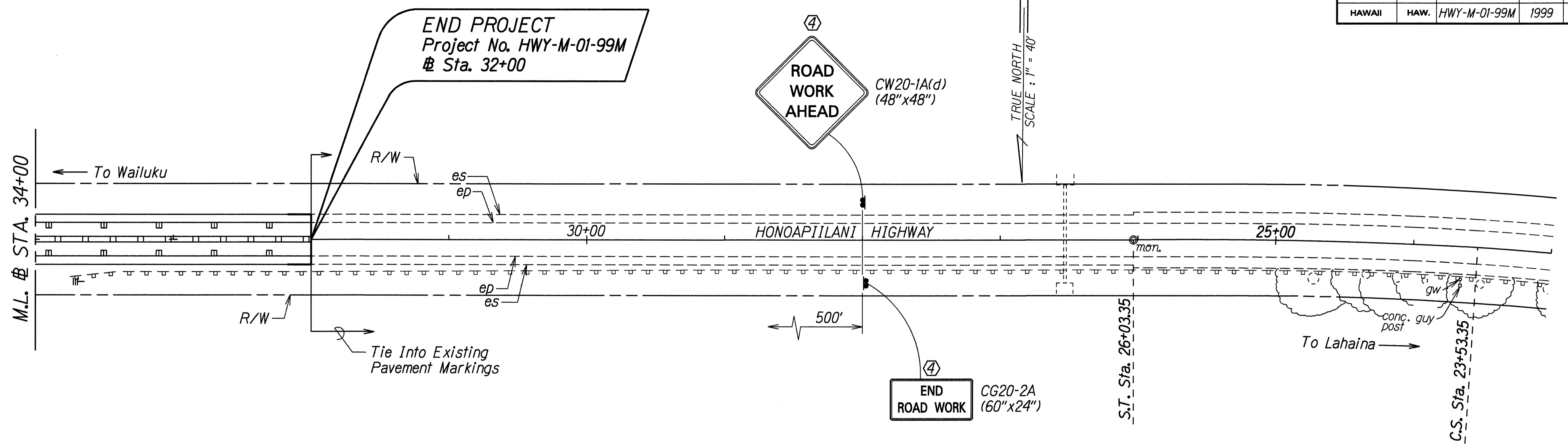
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT  
MARKING PLAN**

HONOAPIILANI HIGHWAY RESURFACING  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 17 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-M-01-99M	1999	42	44



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DRAWN BY	Scale 1999
DESIGNED BY	CHECKED BY	
CHECKED BY		

- KEY:**
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT  
MARKING PLAN**

**HONOAPIILANI HIGHWAY RESURFACING**  
Vicinity of McGregor Point to Olowalu  
Project No. HWY-M-01-99M  
Scale: 1" = 40' Date: May, 1999

SHEET No. 18 OF 18 SHEETS