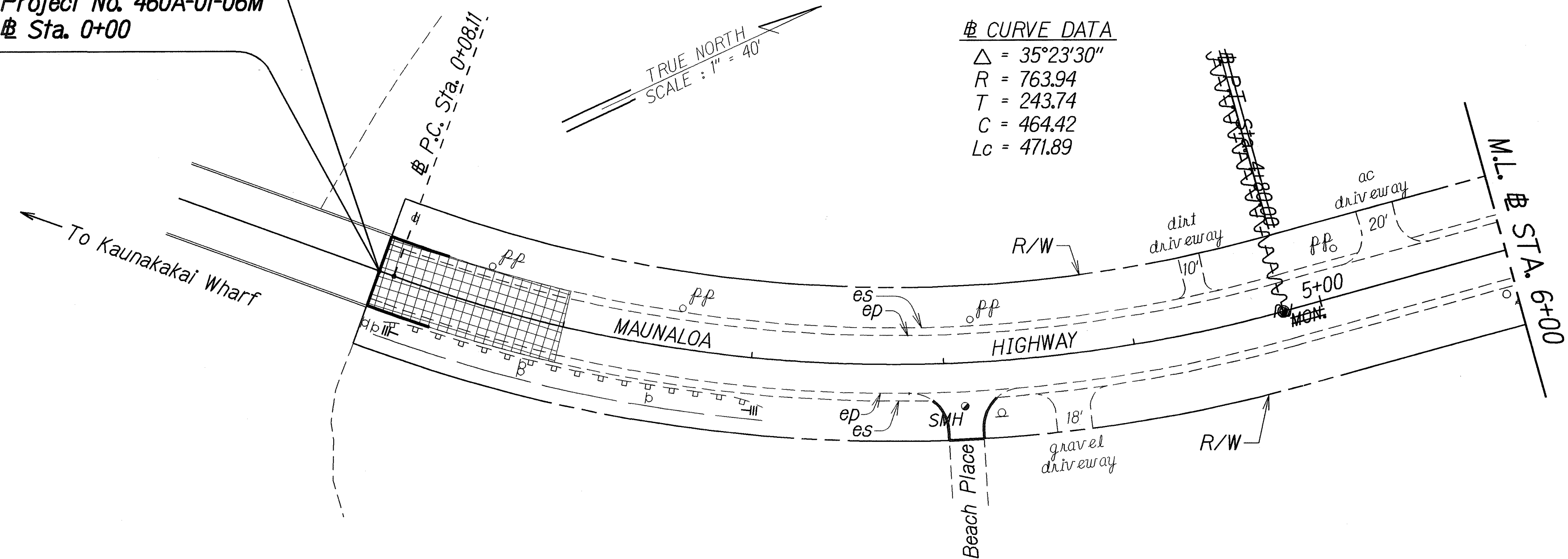


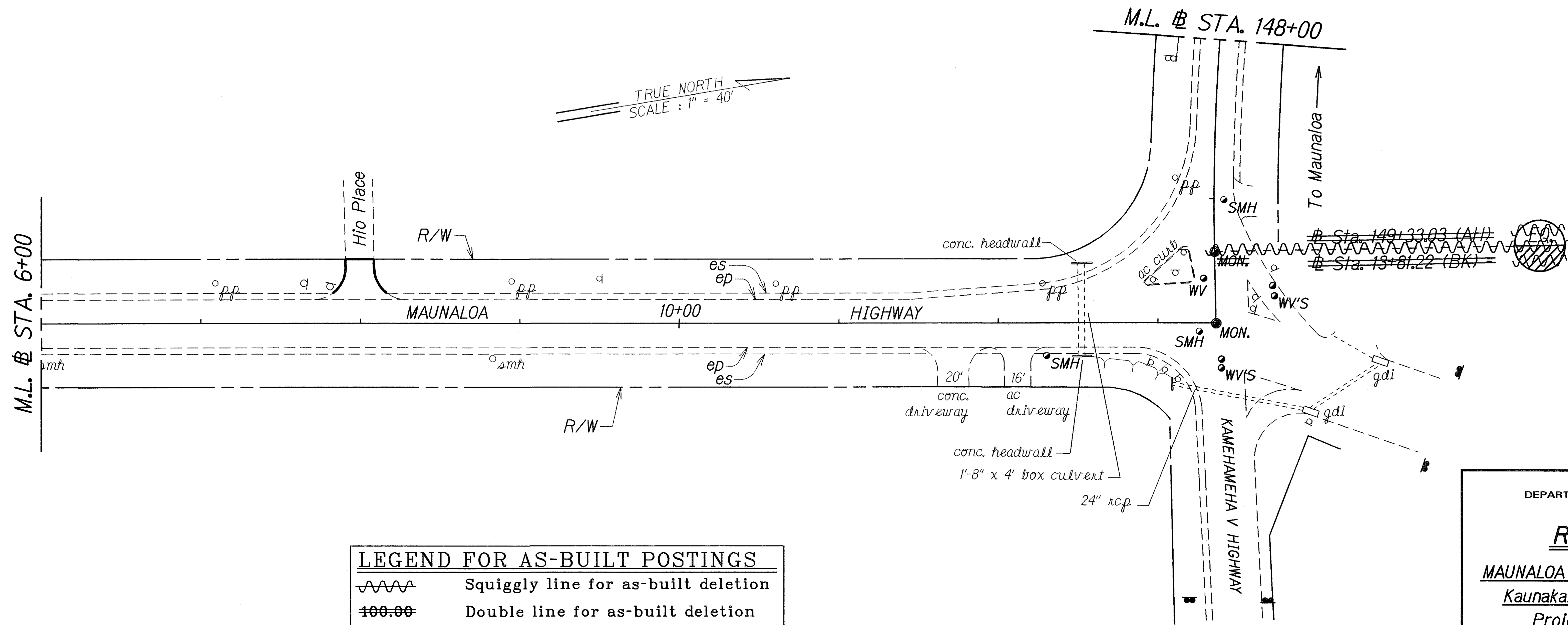
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	8	37

BEGIN PROJECT
Project No. 460A-01-06M
Sta. 0+00



CURVE DATA
Δ = 35°23'30"
R = 763.94
T = 243.74
C = 464.42
Lc = 471.89

STA. 0+10± TO STA. 2+00± RT.
Reset existing guardrail post (19 EACH)
Install RM-5 mounted on rail @ 25' o.c. (9 EACH)



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

MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

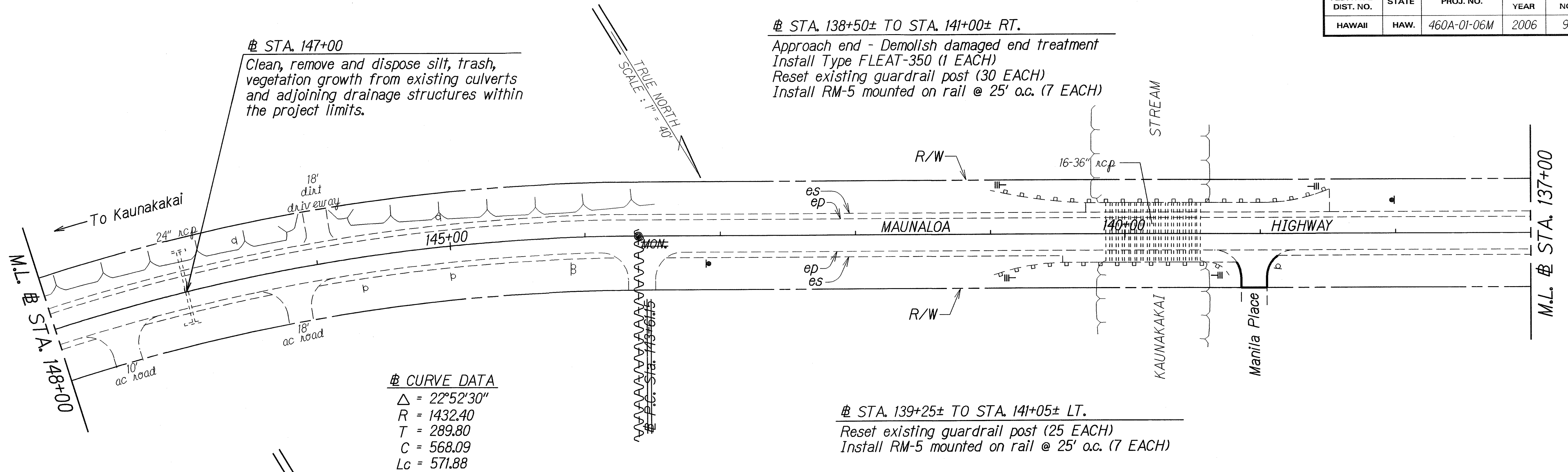
Scale: 1" = 40' Date: April, 2006

SHEET No. 1 OF 14 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	4/06
DRAWN BY	CC
TRACED BY	me/ly
NOTED BY	me/ly
CHECKED BY	me/ly

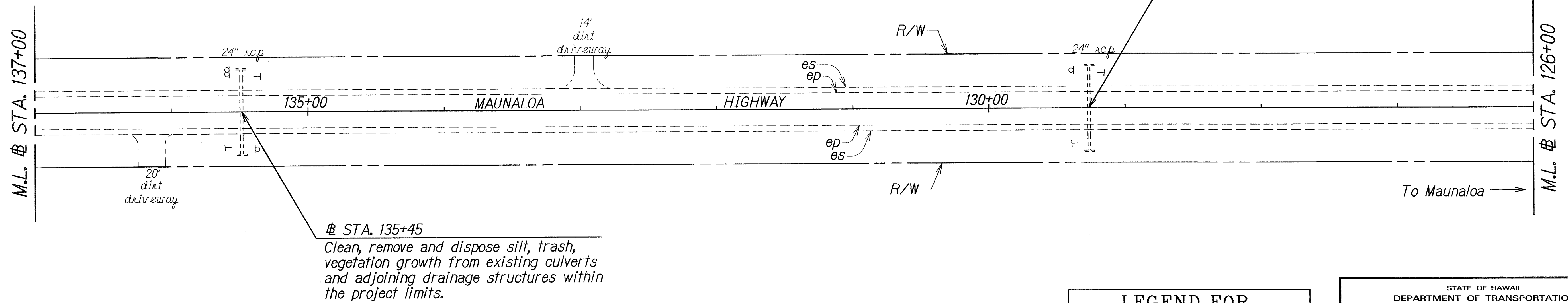
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	9	37



CURVE DATA

$\Delta = 22^\circ 52' 30''$
 $R = 1432.40$
 $T = 289.80$
 $C = 568.09$
 $L_c = 571.88$



ORIGINAL PLAN	DATE 4/16
NOTE BOOK	DESIGNED BY
QUANTITIES BY	CHECKED BY

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

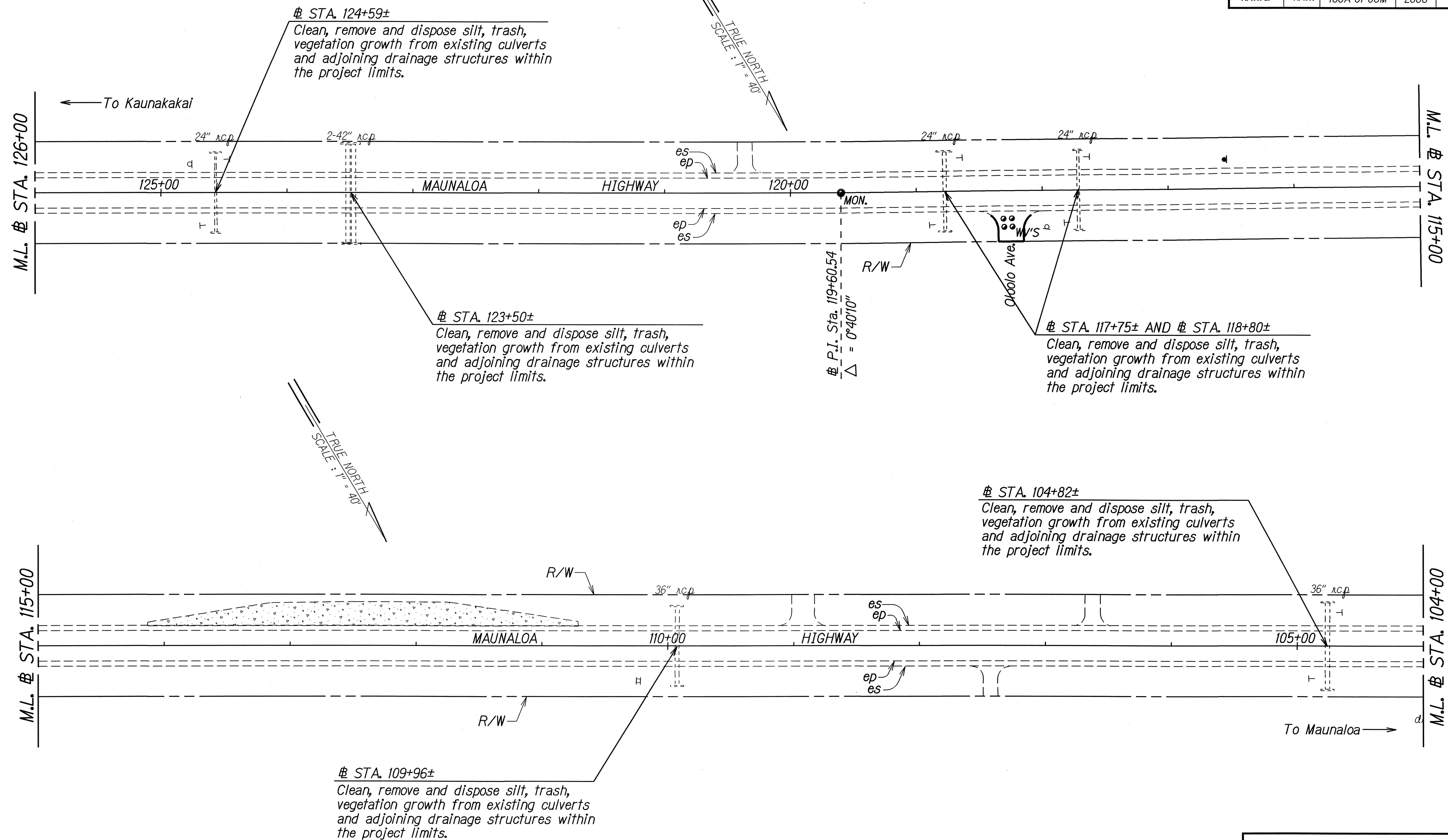
ROADWAY PLAN

MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

Scale: 1" = 40' Date: April, 2006

SHEET No. 2 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	10	37



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	4/06
QUANTITIES BY	CHECKED BY	
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

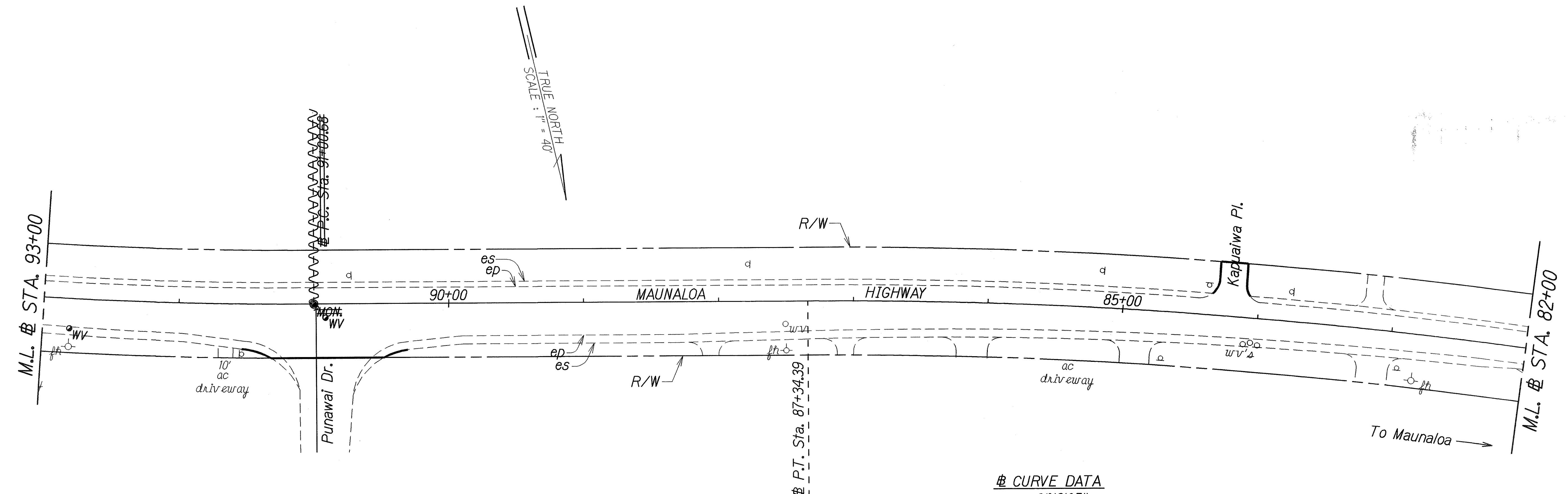
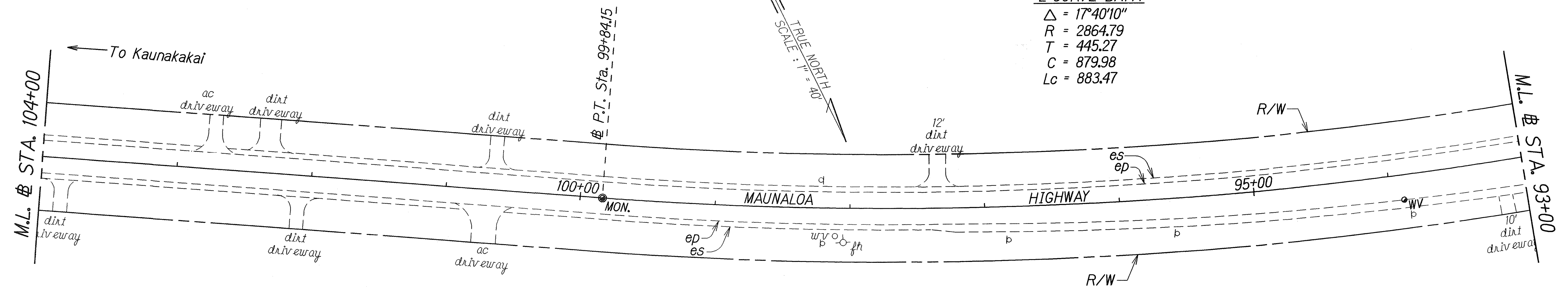
MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

Scale: 1" = 40' Date: April, 2006

SHEET No. 3 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	11	37

CURVE DATA
 $\Delta = 17^{\circ}40'10''$
 $R = 2864.79$
 $T = 445.27$
 $C = 879.98$
 $Lc = 883.47$



CURVE DATA
 $\Delta = 31^{\circ}12'05''$
 $R = 3819.72$
 $T = 1066.53$
 $C = 2054.49$
 $Lc = 2080.09$

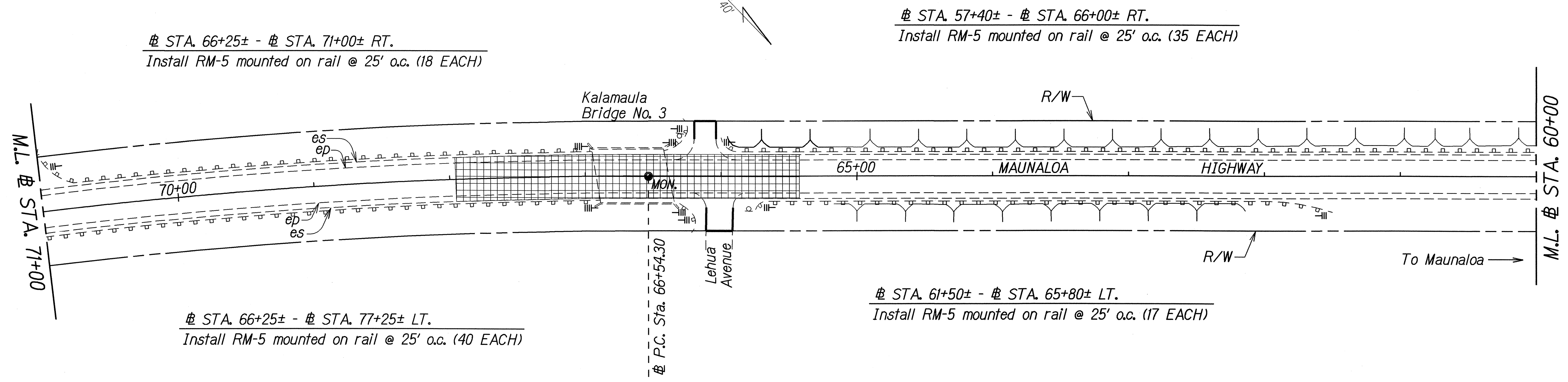
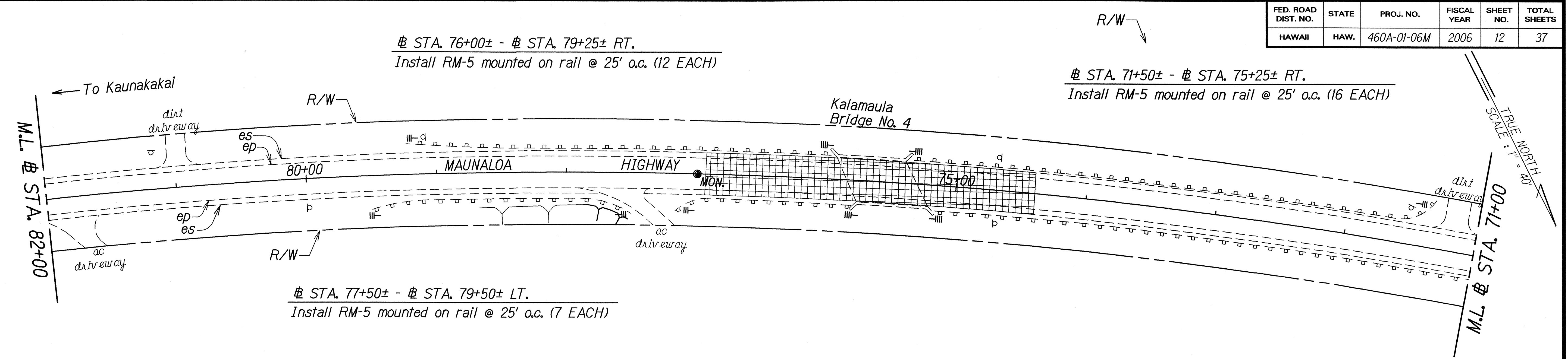
LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	4/06
QUANTITIES BY	TRACED BY	
CHECKED BY	NOTED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY PLAN
MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M
Scale: 1" = 40' Date: April, 2006
SHEET No. 4 OF 14 SHEETS

"AS-BUILT"

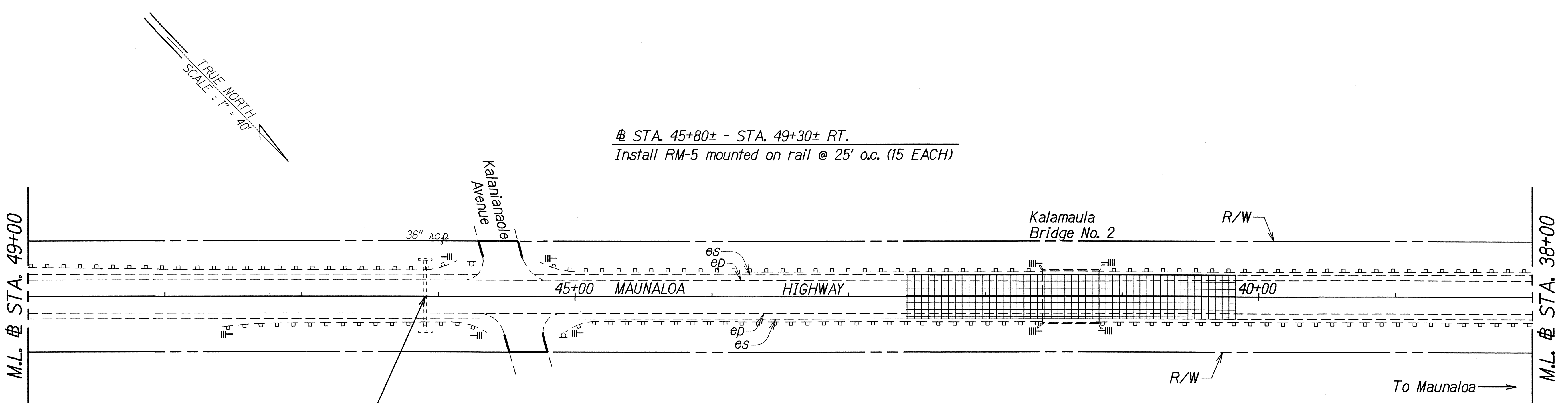
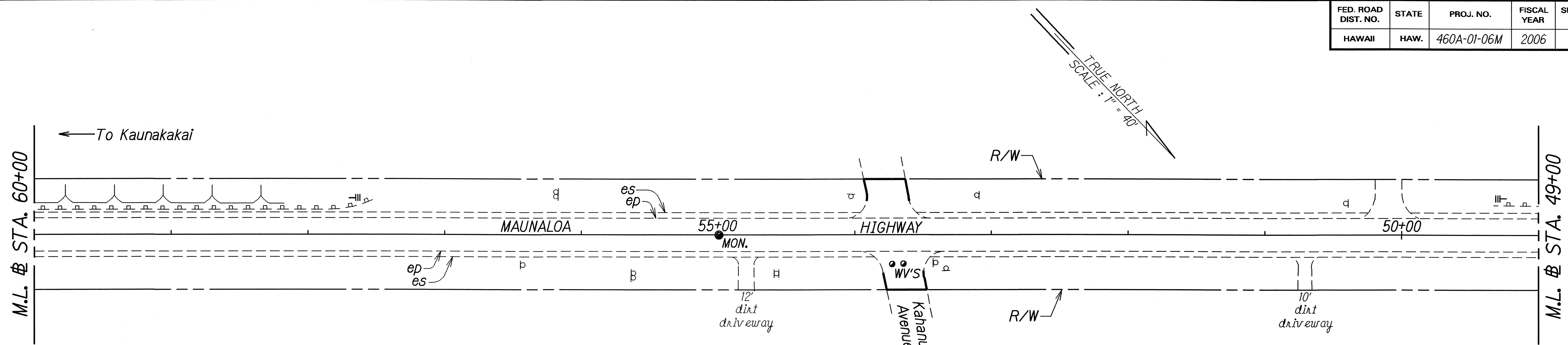
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	12	37



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	4/06
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLAN
MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M
 Scale: 1" = 40' Date: April, 2006
 SHEET No. 5 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	13	37



STA. 45+80± - STA. 49+30± RT.
Install RM-5 mounted on rail @ 25' o.c. (15 EACH)

STA. 46+10
Clean, remove and dispose silt, trash, vegetation growth from existing culverts and adjoining drainage structures within the project limits.

STA. 45+80± - STA. 47+60± LT.
Install RM-5 mounted on rail @ 25' o.c. (8 EACH)

DESIGNED BY	DATE
NOTED BY	4/06
CHECKED BY	
APPROVED BY	
PROJECT NO.	
PROJECT NAME	
PROJECT LOCATION	
PROJECT DESCRIPTION	
PROJECT STATUS	
PROJECT OWNER	
PROJECT CONTACT	
PROJECT BUDGET	
PROJECT SCHEDULE	
PROJECT RISK	
PROJECT IMPACT	
PROJECT BENEFIT	
PROJECT EVALUATION	
PROJECT REVIEW	
PROJECT FOLLOW-UP	
PROJECT CLOSURE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

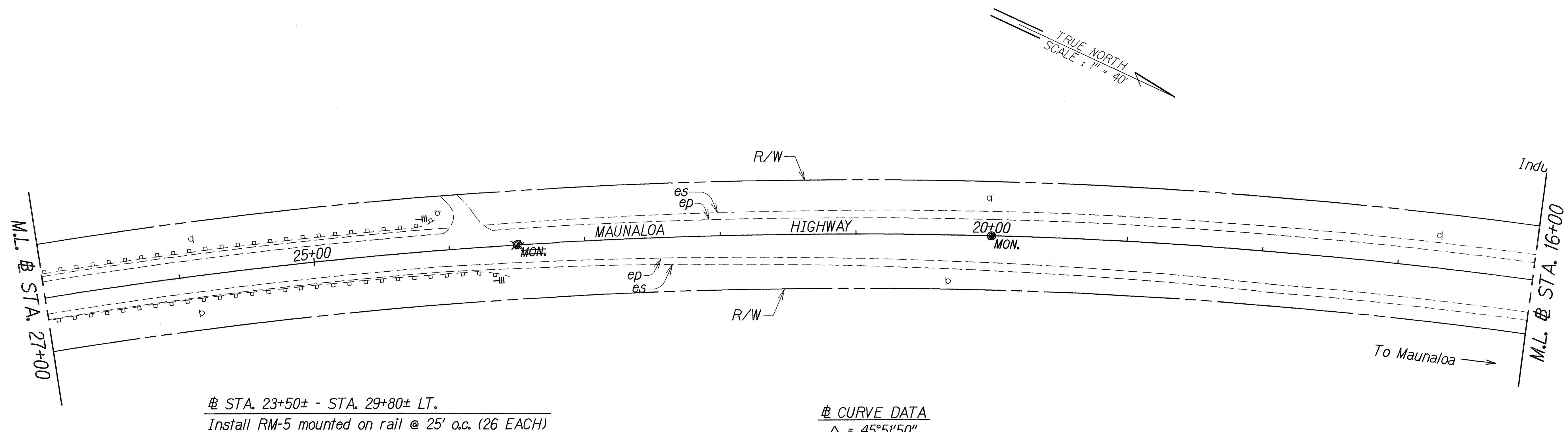
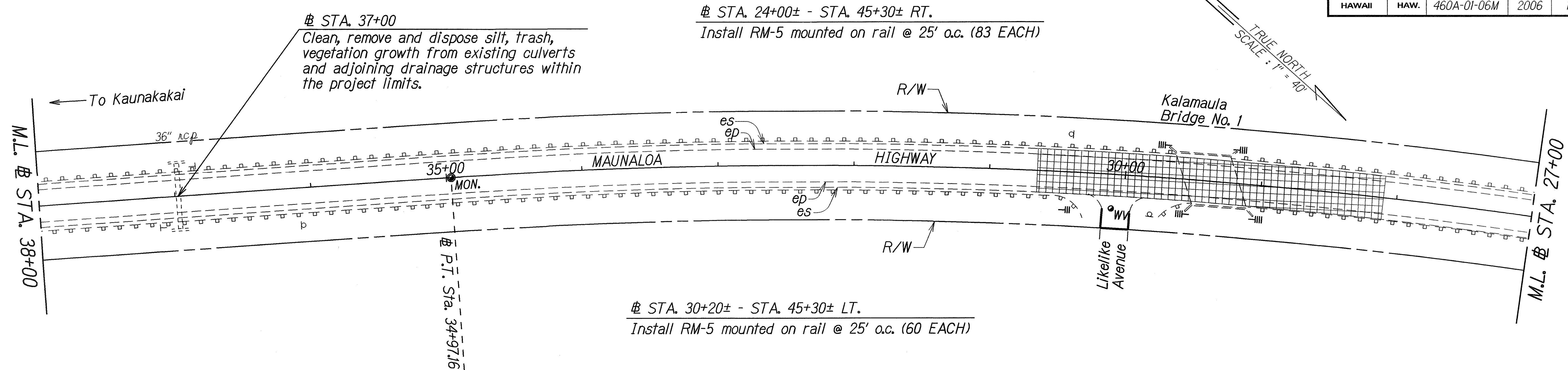
ROADWAY PLAN

MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

Scale: 1" = 40' Date: April, 2006

SHEET No. 6 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	14	37

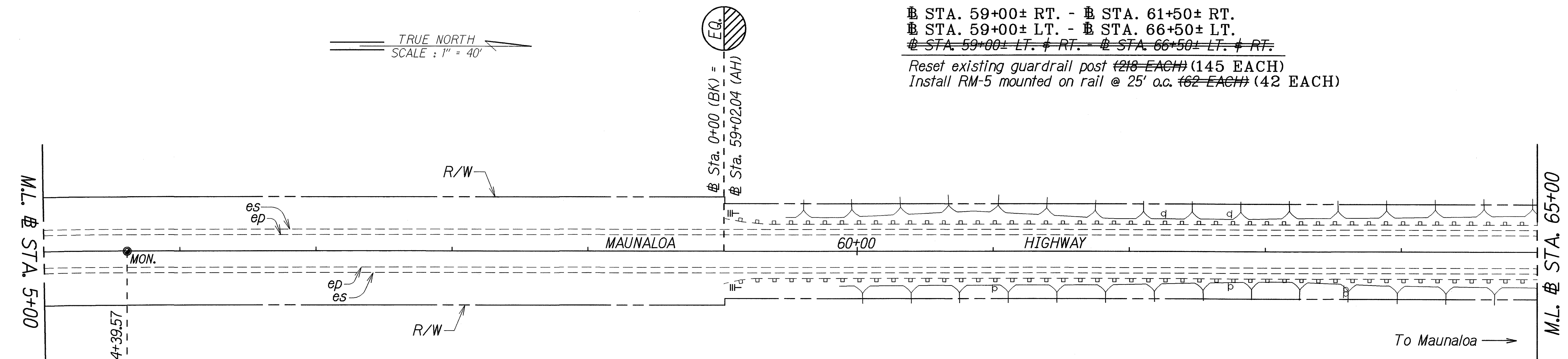
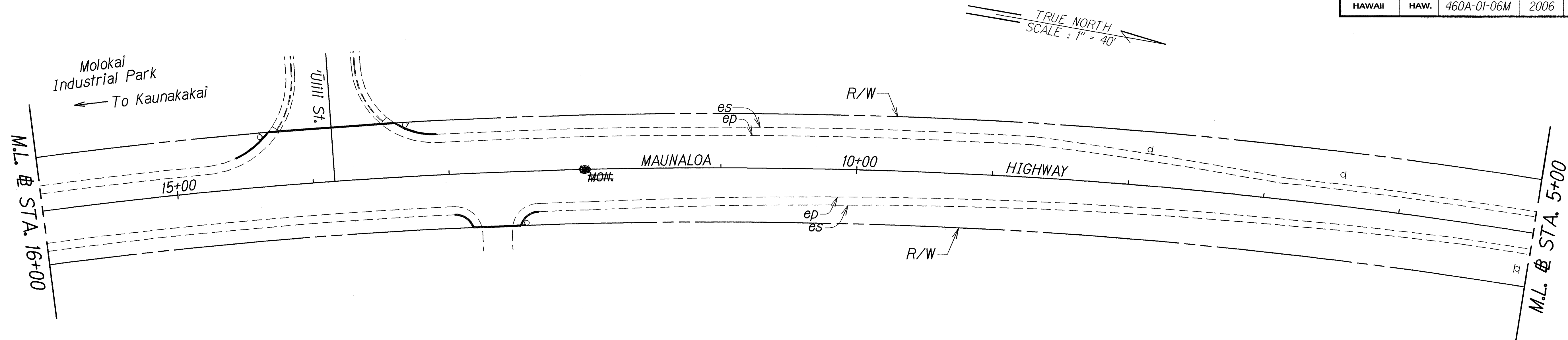


LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
ROADWAY PLAN
MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M
Scale: 1" = 40' Date: April, 2006
SHEET No. 7 OF 14 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	15	37



ORIGINAL PLAN	DATE
DESIGNED BY	4/06
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
REVISIONS	

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

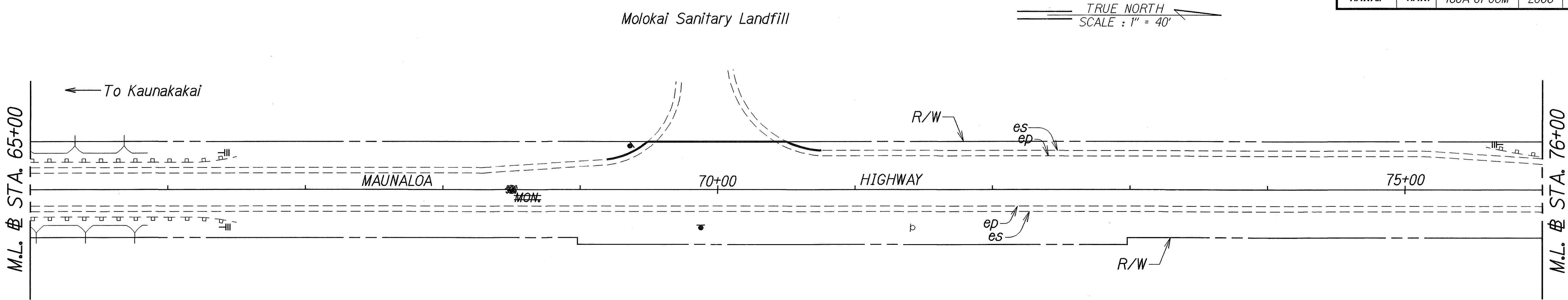
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

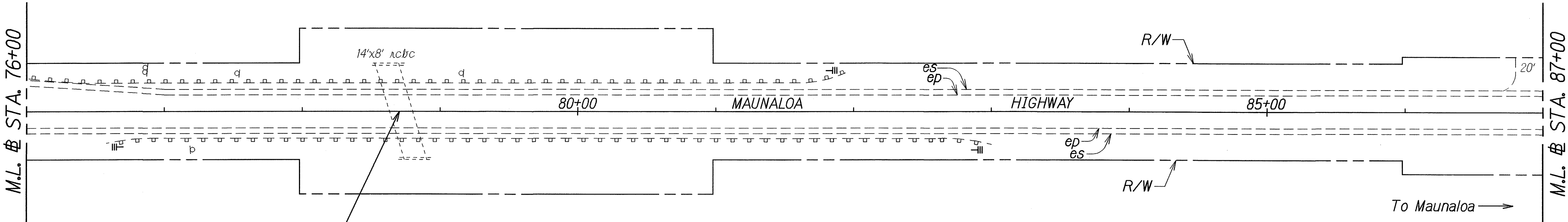
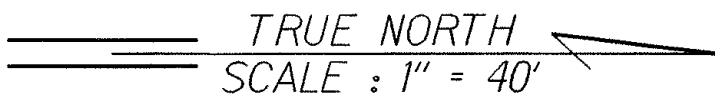
Scale: 1" = 40'
Date: April, 2006

SHEET No. 8 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	16	37



± STA. 75+60± - ± STA. 82+00± LT.
 Reset existing guardrail post (92 EACH)
 Install RM-5 mounted on rail @ 25' o.c. (27 EACH)



± STA. 78+70
 Clean, remove and dispose silt, trash, vegetation growth from existing culverts and adjoining drainage structures within the project limits.

± STA. 76+60± - ± STA. 83+00± RT.
 Reset existing guardrail post (92 EACH)
 Install RM-5 mounted on rail @ 25' o.c. (27 EACH)

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
MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M
Scale: 1" = 40'

Date: April, 2006
SHEET No. 9 OF 14 SHEETS

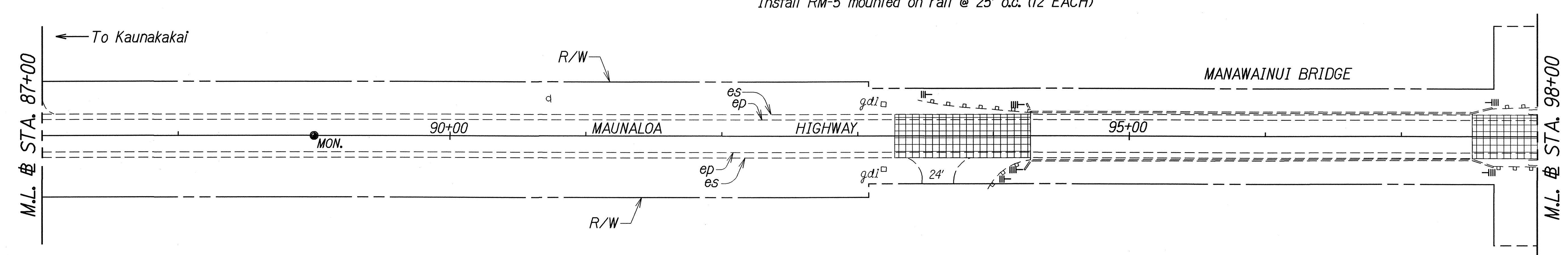
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	4/16
DESIGNED BY	CHECKED BY	
APPROVED BY		

"AS-BUILT"

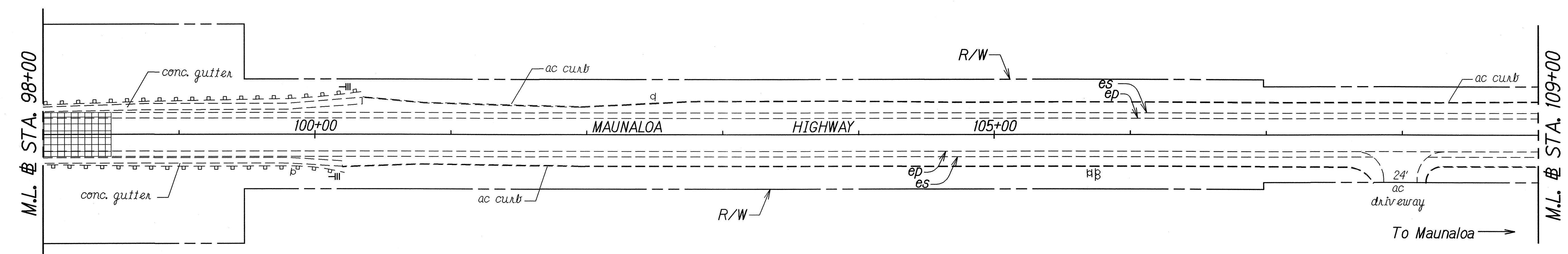
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	17	37

TRUE NORTH
SCALE : 1" = 40'

STA. 97+70± LT. # RT. - # STA. 100+40± LT. # RT.
Reset existing guardrail post (44 EACH)
Install RM-5 mounted on rail @ 25' o.c. (12 EACH)



TRUE NORTH
SCALE : 1" = 40'



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	4/06
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

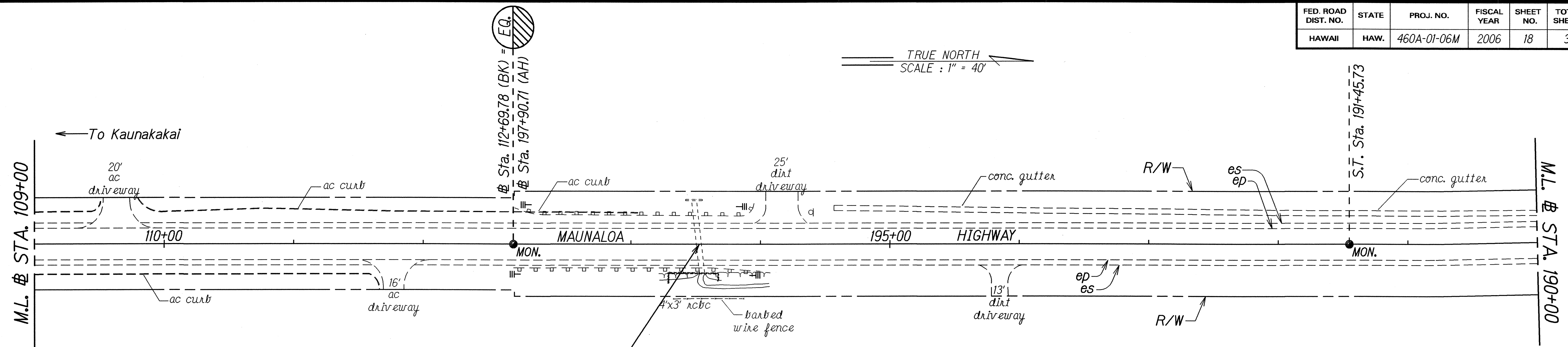
ROADWAY PLAN

MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

Scale: 1" = 40' Date: April, 2006

SHEET No. 10 OF 14 SHEETS

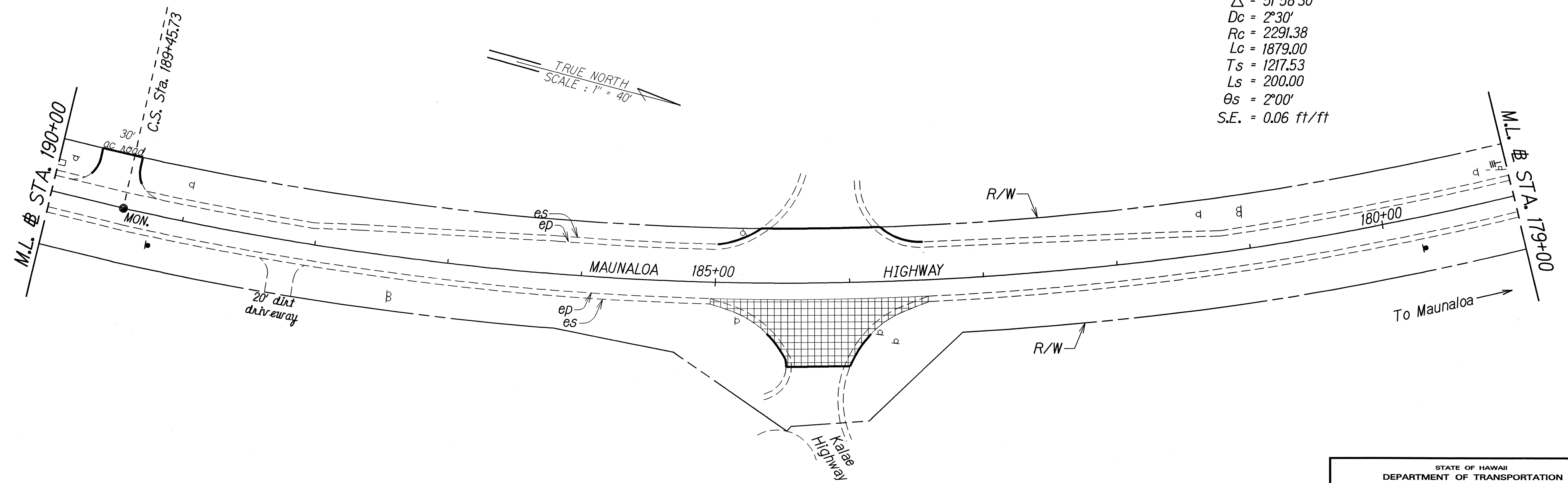
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	18	37



STA. 197+60±
Clean, remove and dispose silt, trash, vegetation growth from existing culverts and adjoining drainage structures within the project limits.

STA. 196+00± - STA. 197+90± LT.
Reset existing guardrail post (19 EACH)
Install RM-5 mounted on rail @ 25' o.c. (9 EACH)

CURVE DATA
 $\Delta = 51^\circ 58' 30''$
 $Dc = 2^\circ 30'$
 $Rc = 2291.38$
 $Lc = 1879.00$
 $Ts = 1217.53$
 $Ls = 200.00$
 $\theta s = 2^\circ 00'$
 $S.E. = 0.06 \text{ ft/ft}$



DESIGNED BY	DATE
TRACED BY	4/06
NOTED BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

Scale: 1" = 40' Date: April, 2006

SHEET No. 11 OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	19	37

STA. 170+90± - STA. 179+80± RT.
Reset existing guardrail post (133 EACH)
Install RM-5 mounted on rail @ 25' o.c. (37 EACH)

STA. 174+90±
Clean, remove and dispose silt, trash, vegetation growth from existing culverts and adjoining drainage structures within the project limits.

STA. 170+60± - STA. 178+60± LT.
Reset existing guardrail post (119 EACH)
Install RM-5 mounted on rail @ 25' o.c. (33 EACH)

STA. 172+80±
Clean, remove and dispose silt, trash, vegetation growth from existing culverts and adjoining drainage structures within the project limits.

CURVE DATA

$\Delta = 20^{\circ}10'00''$
 $D_c = 2^{\circ}30'$
 $R_c = 2291.83$
 $L_c = 606.67$
 $T_s = 507.67$
 $L_s = 200.00$
 $\theta_s = 2^{\circ}30'$
 $S.E. = 0.06 \text{ ft/ft}$

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

MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

Scale: 1" = 40'

Date: April, 2006

Reset existing guardrail post (133 EACH)
Install RM-5 mounted on rail @ 25' o.c. (37 EACH)

Clean, remove and dispose silt, trash, vegetation growth from existing culverts and adjoining drainage structures within the project limits.

Reset existing guardrail post (119 EACH)
Install RM-5 mounted on rail @ 25' o.c. (33 EACH)

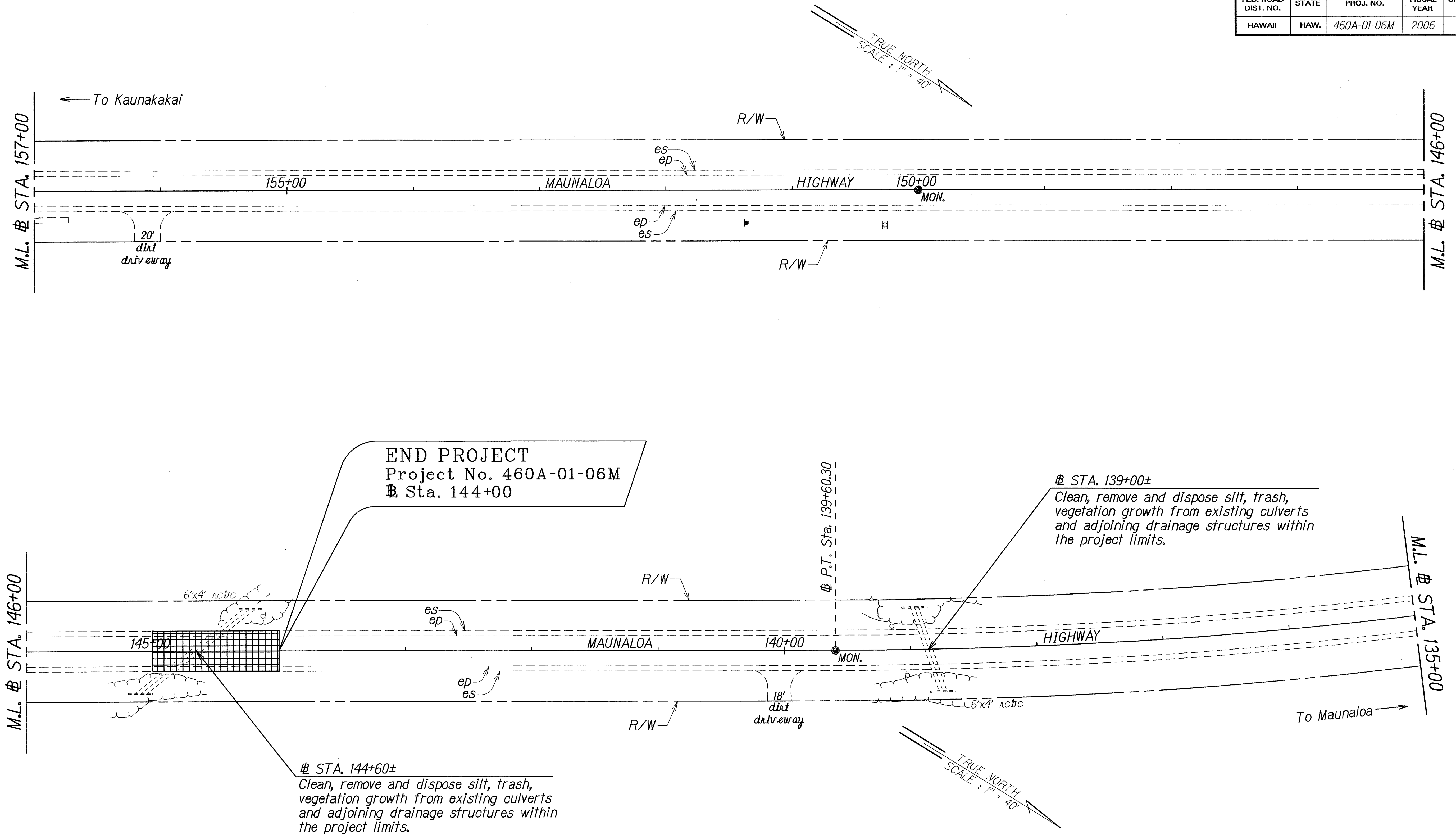
Clean, remove and dispose silt, trash, vegetation growth from existing culverts and adjoining drainage structures within the project limits.

$$\begin{aligned}\Delta &= 20^{\circ}10'00'' \\ Dc &= 2^{\circ}30' \\ Rc &= 2291.83 \\ Lc &= 606.67 \\ Ts &= 507.67 \\ Ls &= 200.00 \\ \theta s &= 2^{\circ}30' \\ S.E. &= 0.06 \text{ ft/ft}\end{aligned}$$

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

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	20	37



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	4/06
DESIGNED BY	TRACED BY	
CHECKED BY	NOTED BY	

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

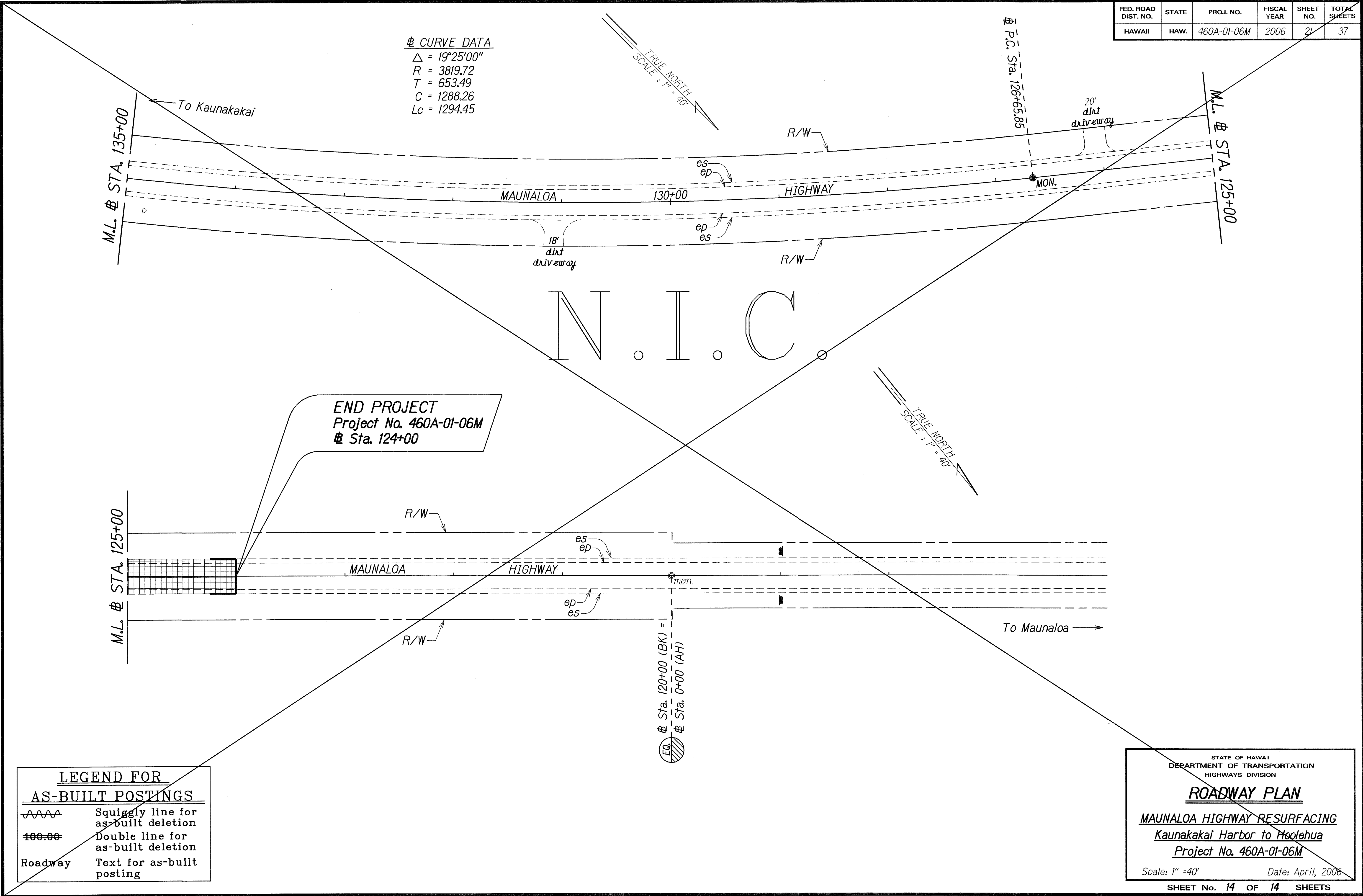
MAUNALOA HIGHWAY RESURFACING
Kaunakakai Harbor to Hoolehua
Project No. 460A-01-06M

Scale: 1" = 40' Date: April, 2006

SHEET No. 13 OF 14 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-06M	2006	21	37



☯ CURVE DATA
 $\Delta = 19^{\circ}25'00''$
 $R = 3819.72$
 $T = 653.49$
 $C = 1288.26$
 $L_c = 1294.45$

END PROJECT
Project No. 460A-01-06M
☯ Sta. 124+00

"AS-BUILT"