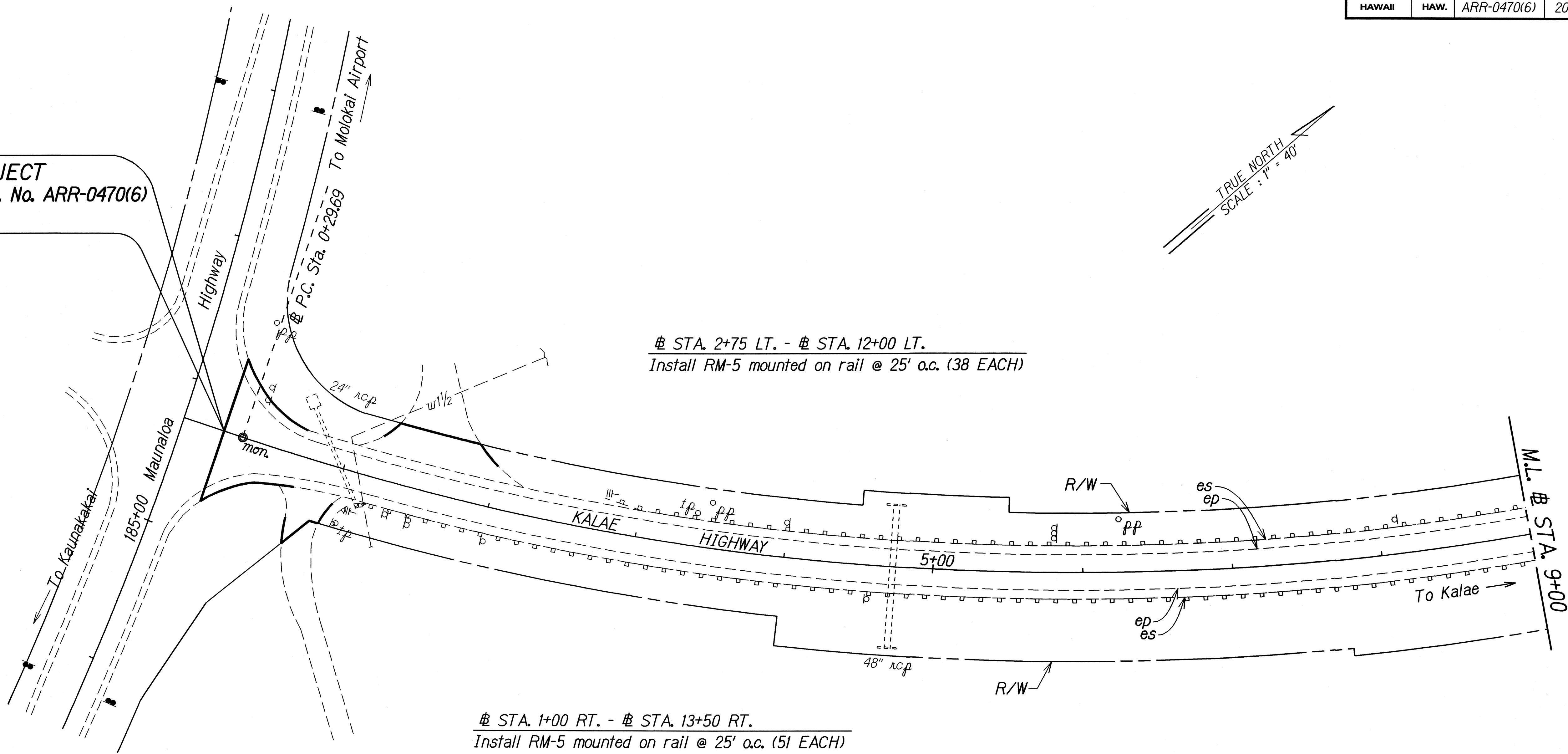


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	7	38

BEGIN PROJECT
 Fed. Aid Proj. No. ARR-0470(6)
 Sta. 0+28

TRUE NORTH
 SCALE : 1" = 40'

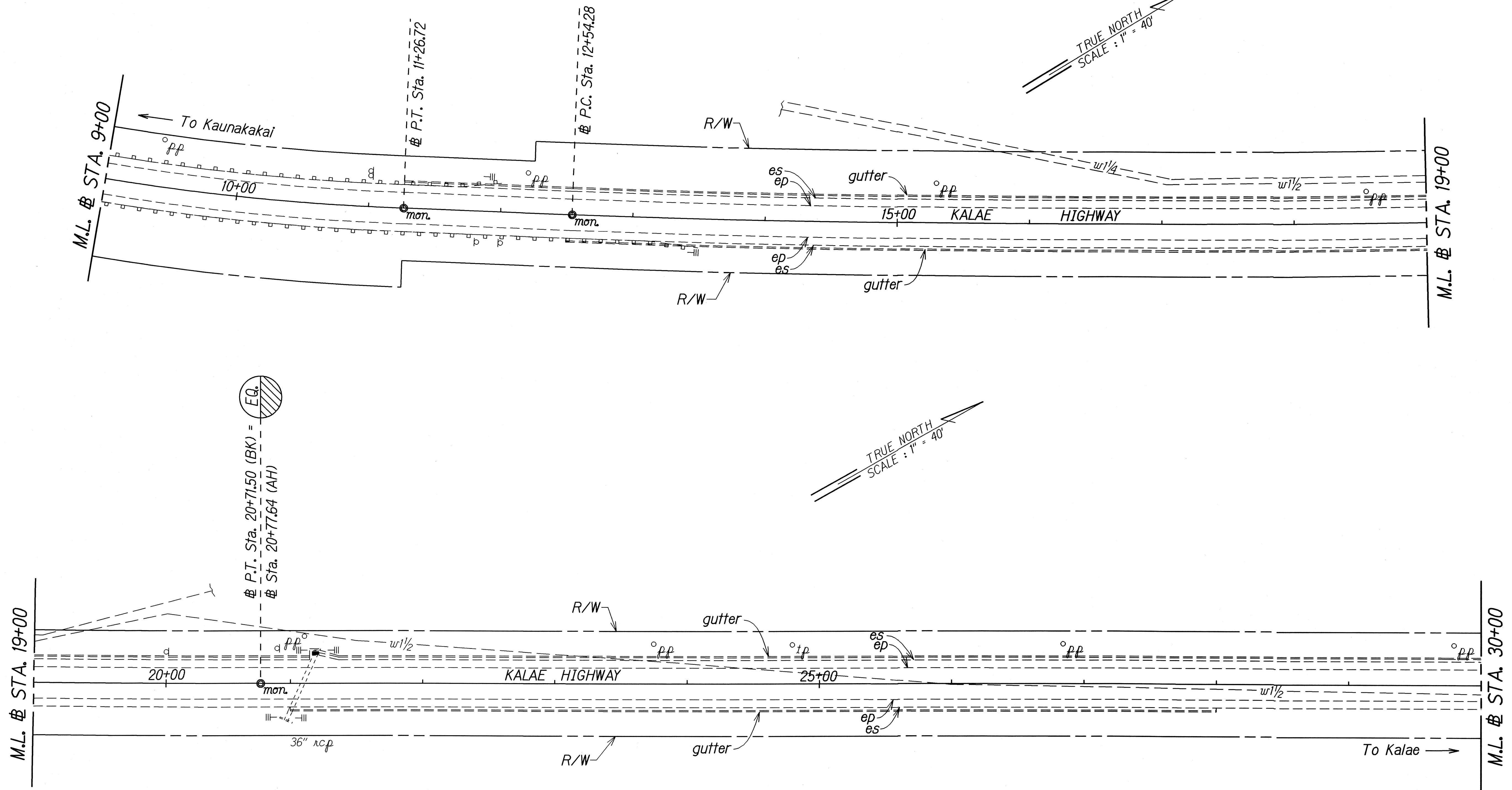


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY		
DESIGNED BY		
CHECKED BY		
NOTE BOOK		
DATE		
BY		
CHECKED BY		
DATE		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)
Scale: 1" = 40' Date: February, 2009
SHEET No. 1 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	8	38



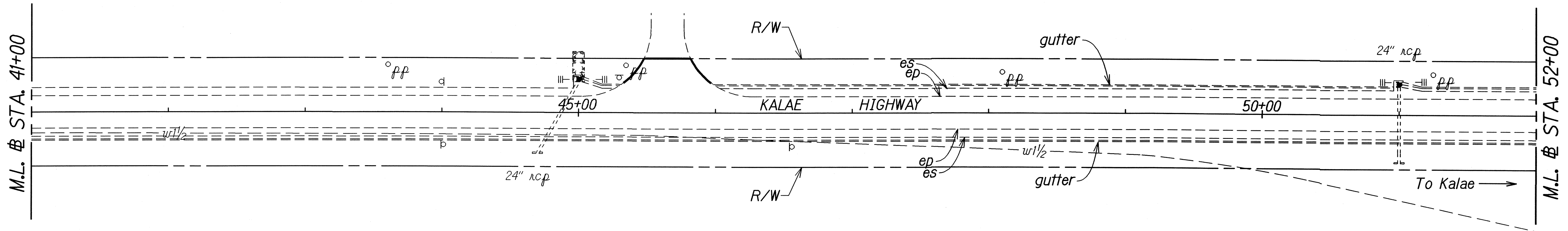
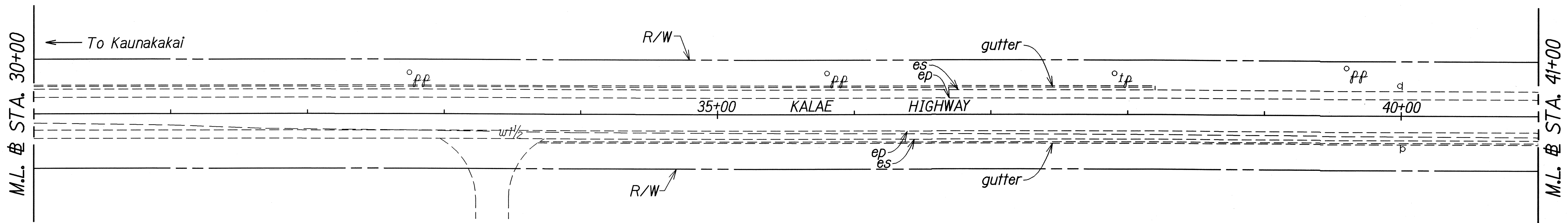
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
DESIGNED BY	TRACED BY	
CHECKED BY	CHECKED BY	
N. K. K.		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" = 40' Date: February, 2009

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	9	38



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
check	TRACED BY	
check	DESIGNED BY	
check	CHECKED BY	
check	CHECKED BY	

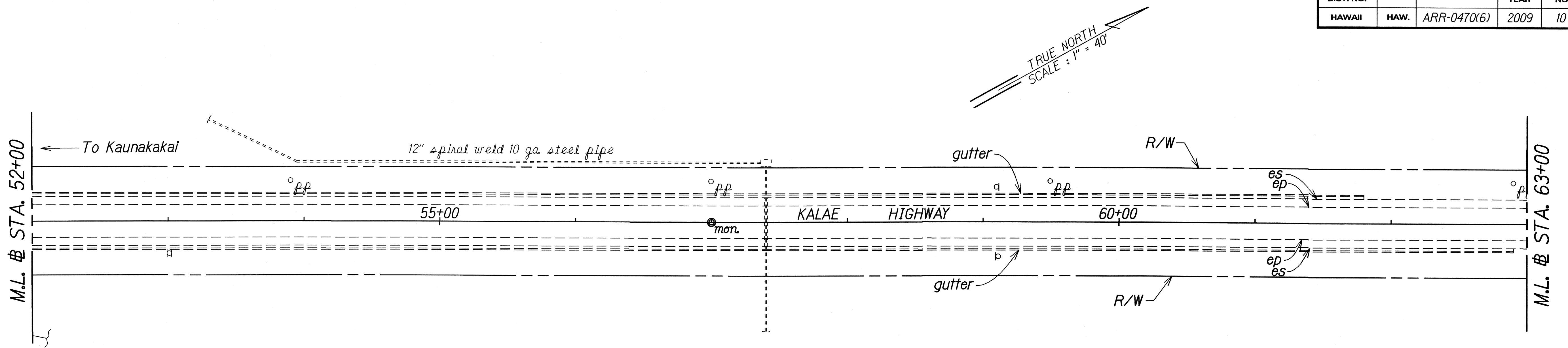
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

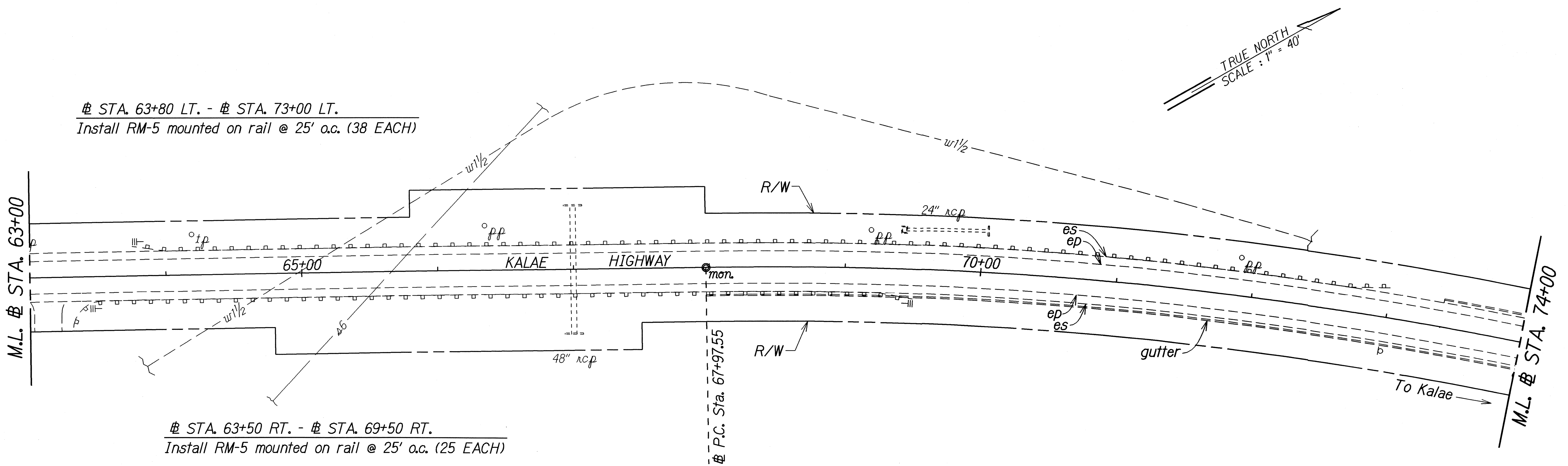
Scale: 1" = 40' Date: February, 2009

SHEET No. 3 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	10	38



Sta. 63+80 LT. - Sta. 73+00 LT.
Install RM-5 mounted on rail @ 25' o.c. (38 EACH)



Sta. 63+50 RT. - Sta. 69+50 RT.
Install RM-5 mounted on rail @ 25' o.c. (25 EACH)

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

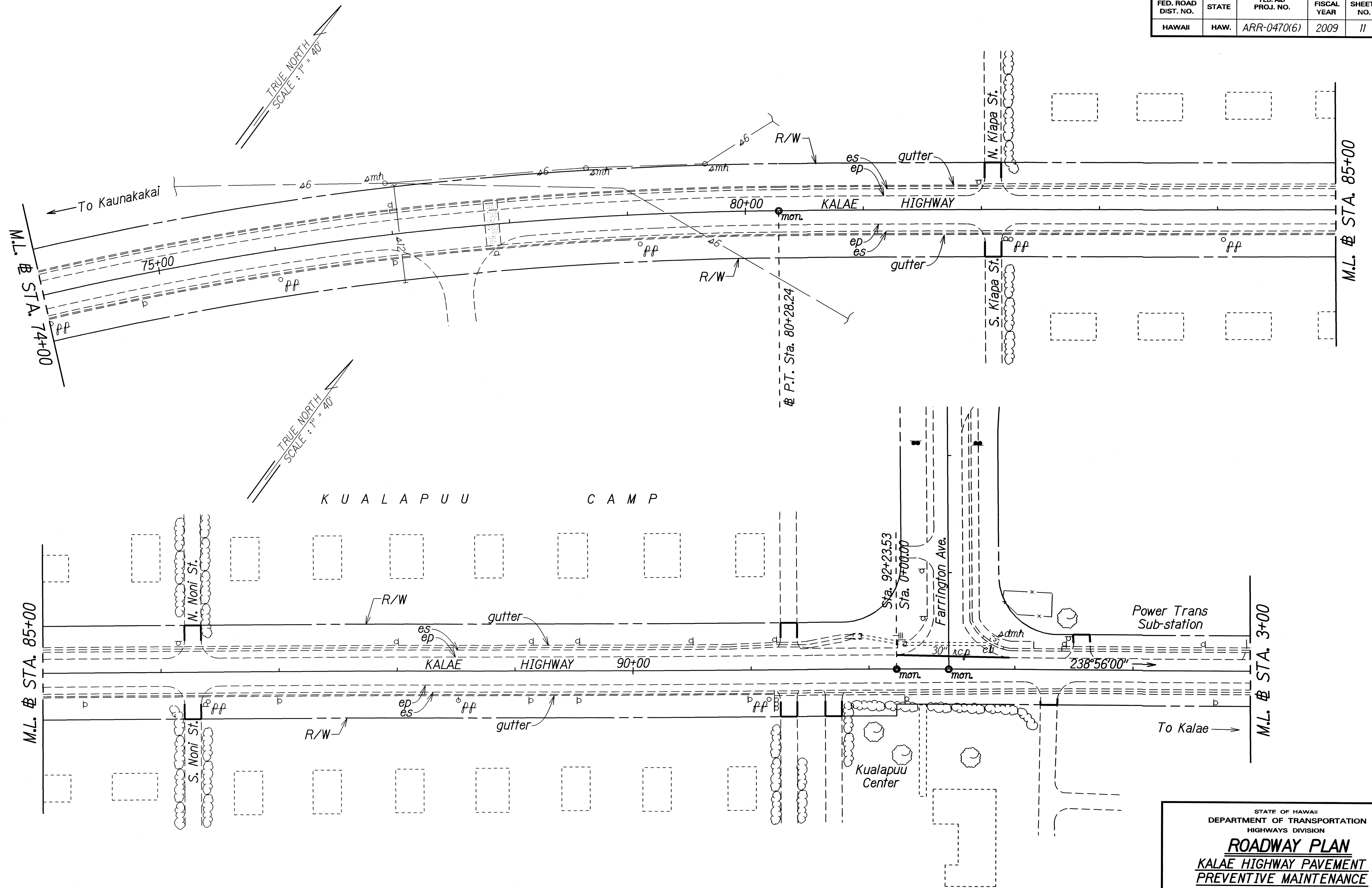
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" = 40' Date: February, 2009

SHEET No. 4 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	11	38



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

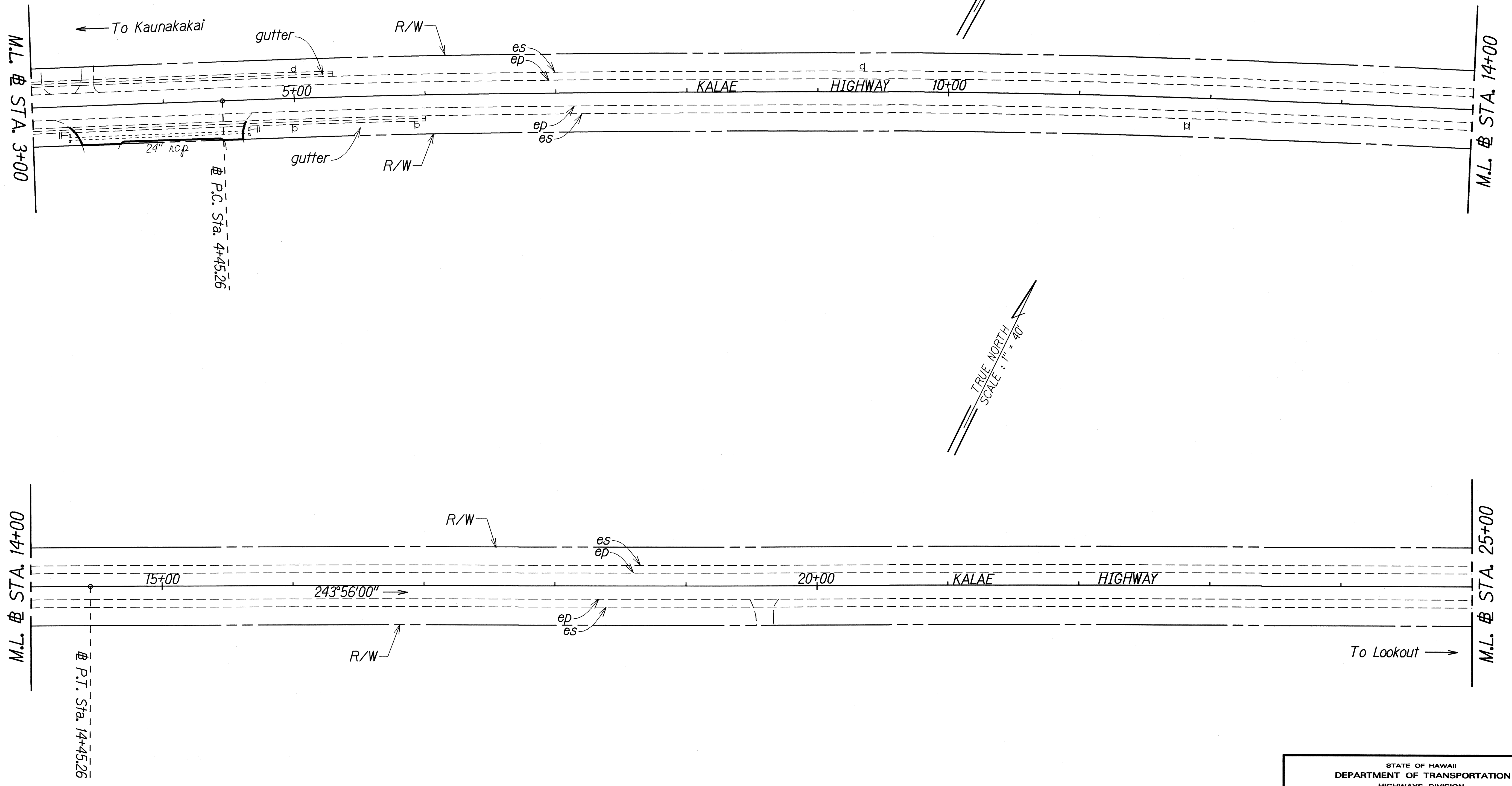
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" = 40' Date: February, 2009

SHEET No. 5 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	12	38



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

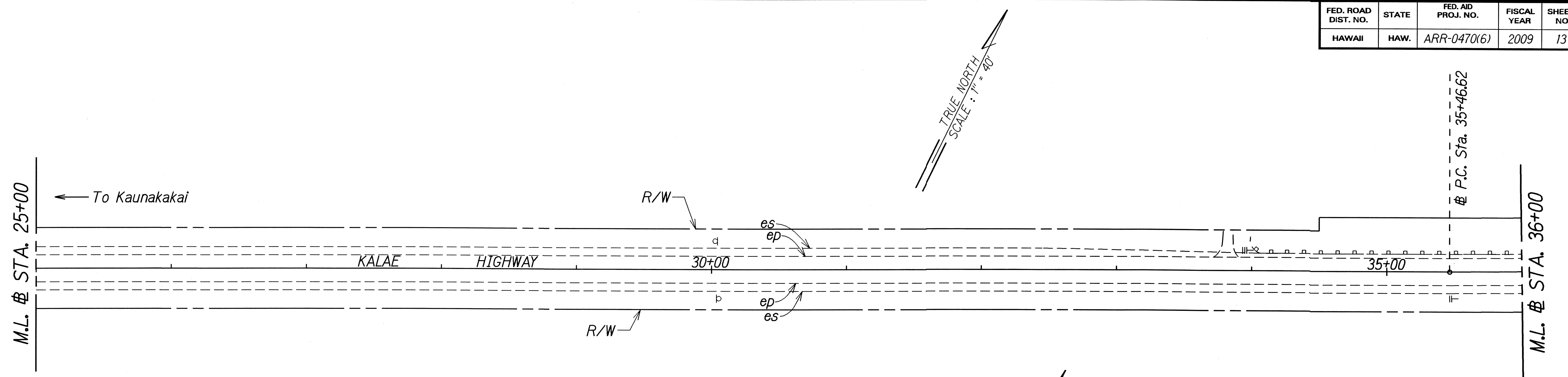
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

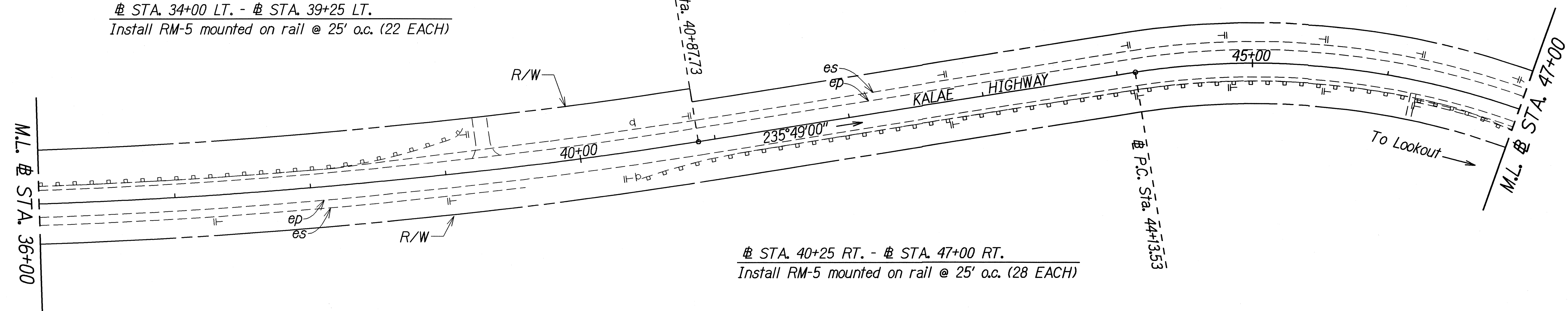
Scale: 1" = 40' Date: February, 2009

SHEET No. 6 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	13	38



Sta. 34+00 LT. - Sta. 39+25 LT.
Install RM-5 mounted on rail @ 25' o.c. (22 EACH)



Sta. 40+25 RT. - Sta. 47+00 RT.
Install RM-5 mounted on rail @ 25' o.c. (28 EACH)

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

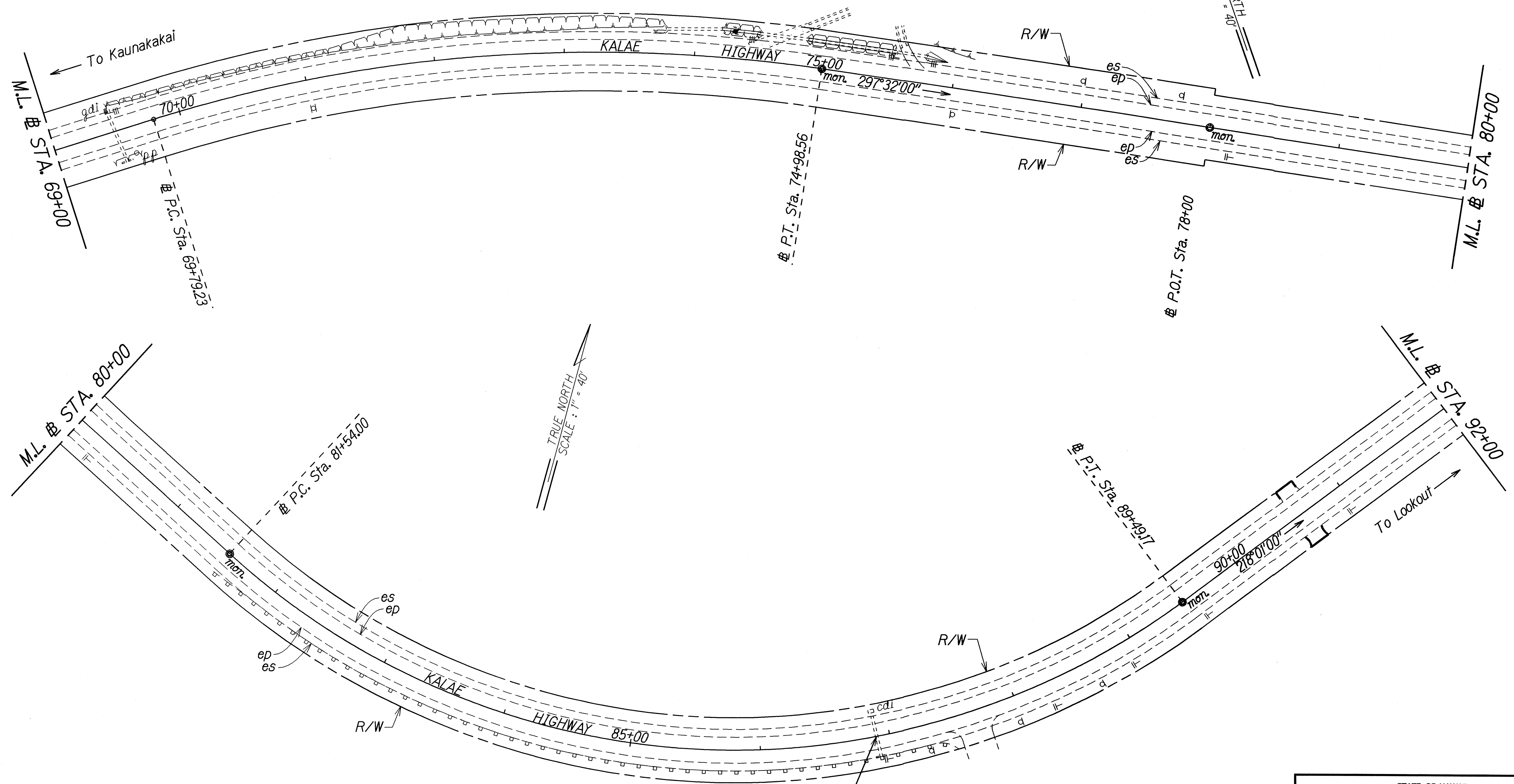
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" = 40' Date: February, 2009

SHEET No. 7 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	15	38



± STA. 81+55± RT. - ± STA. 87+55± RT.
Install RM-5 mounted on rail @ 25' o.c. (25 EACH)

± STA. 86+90
Clean, remove and dispose of silt, trash, vegetation growth from existing culverts and adjoining drainage structures within project limits.

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

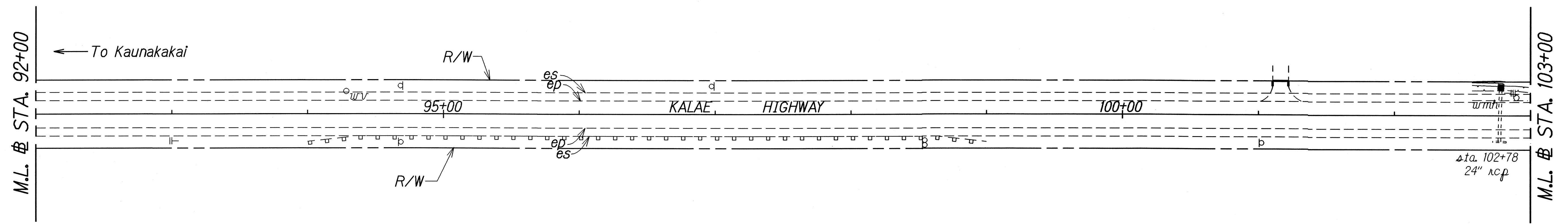
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

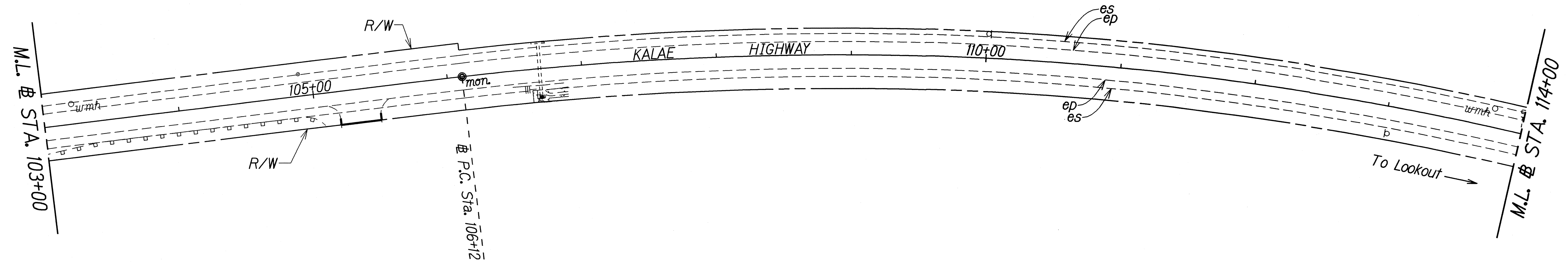
Scale: 1" = 40' Date: February, 2009

SHEET No. 9 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	16	38



± STA. 94+00± RT. - ± STA. 99+00± RT.
Install RM-5 mounted on rail @ 25' o.c. (21 EACH)



± STA. 103+00± RT. - ± STA. 105+00± RT.
Install RM-5 mounted on rail @ 25' o.c. (9 EACH)

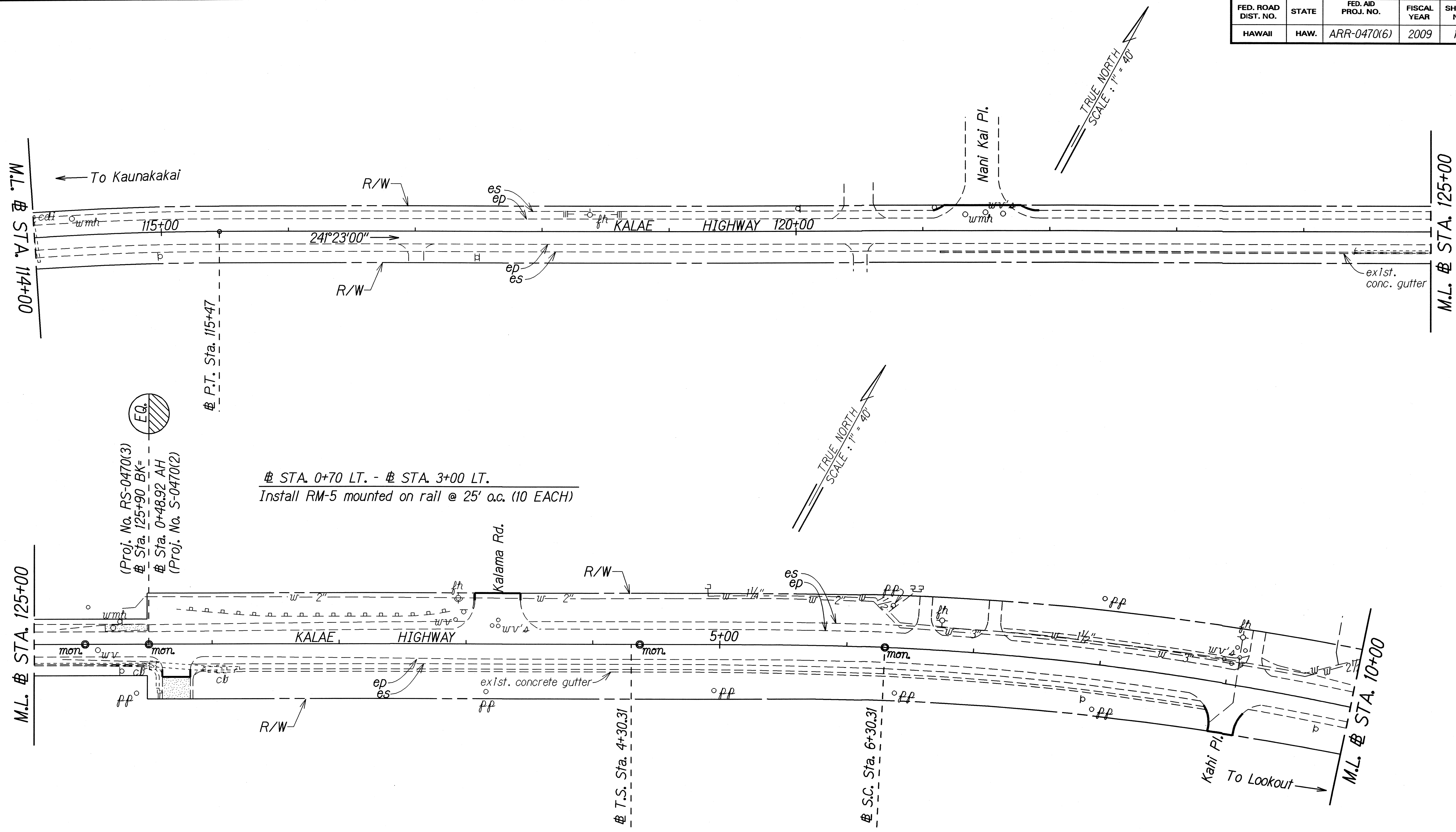
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY		
DESIGNED BY		
CHECKED BY		
DATE		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" = 40' Date: February, 2009

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	17	38



STA. 0+70 LT. - # STA. 3+00 LT.
Install RM-5 mounted on rail @ 25' o.c. (10 EACH)

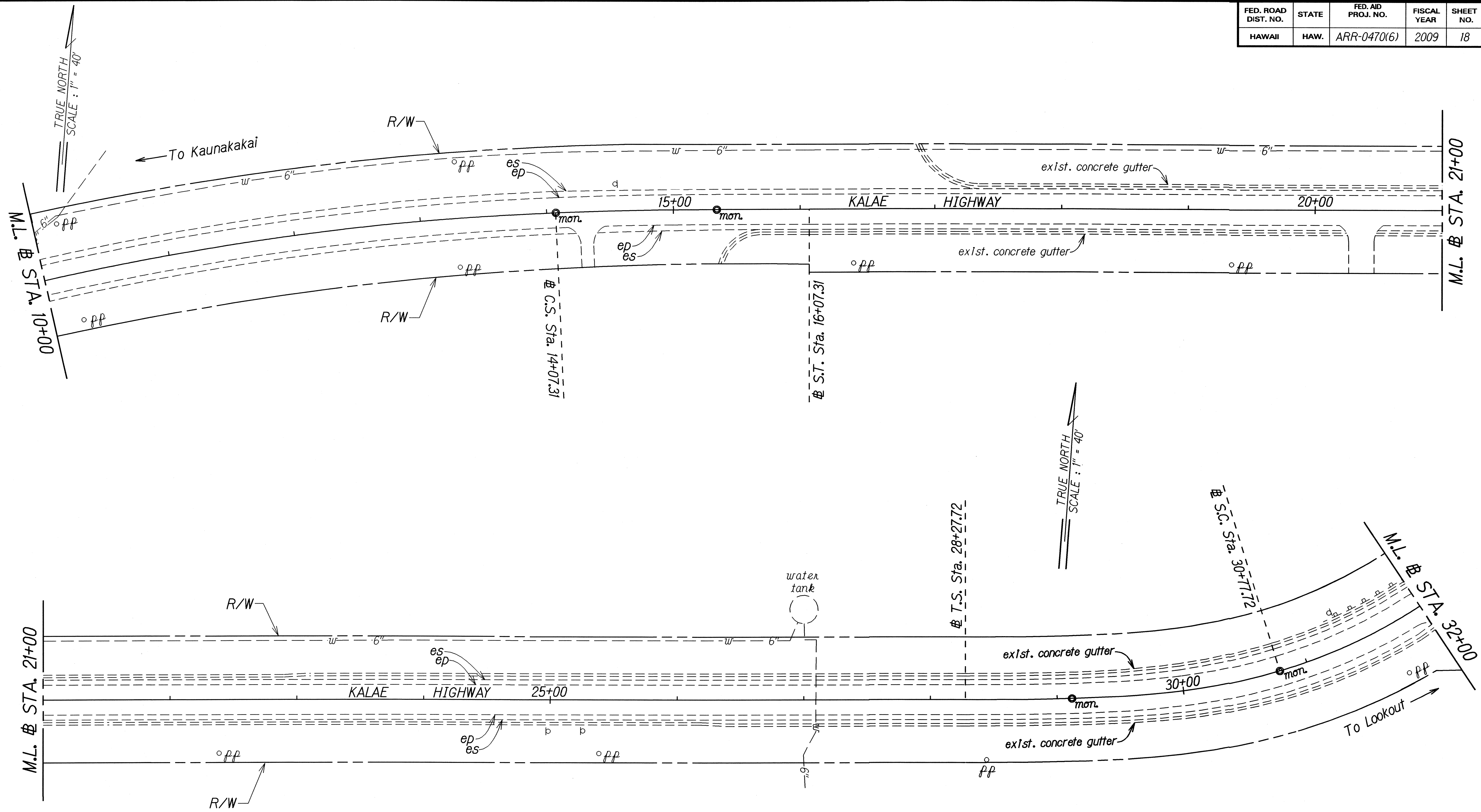
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	
	DATE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)
Scale: 1" = 40'
Date: February, 2009

SHEET No. 11 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	18	38



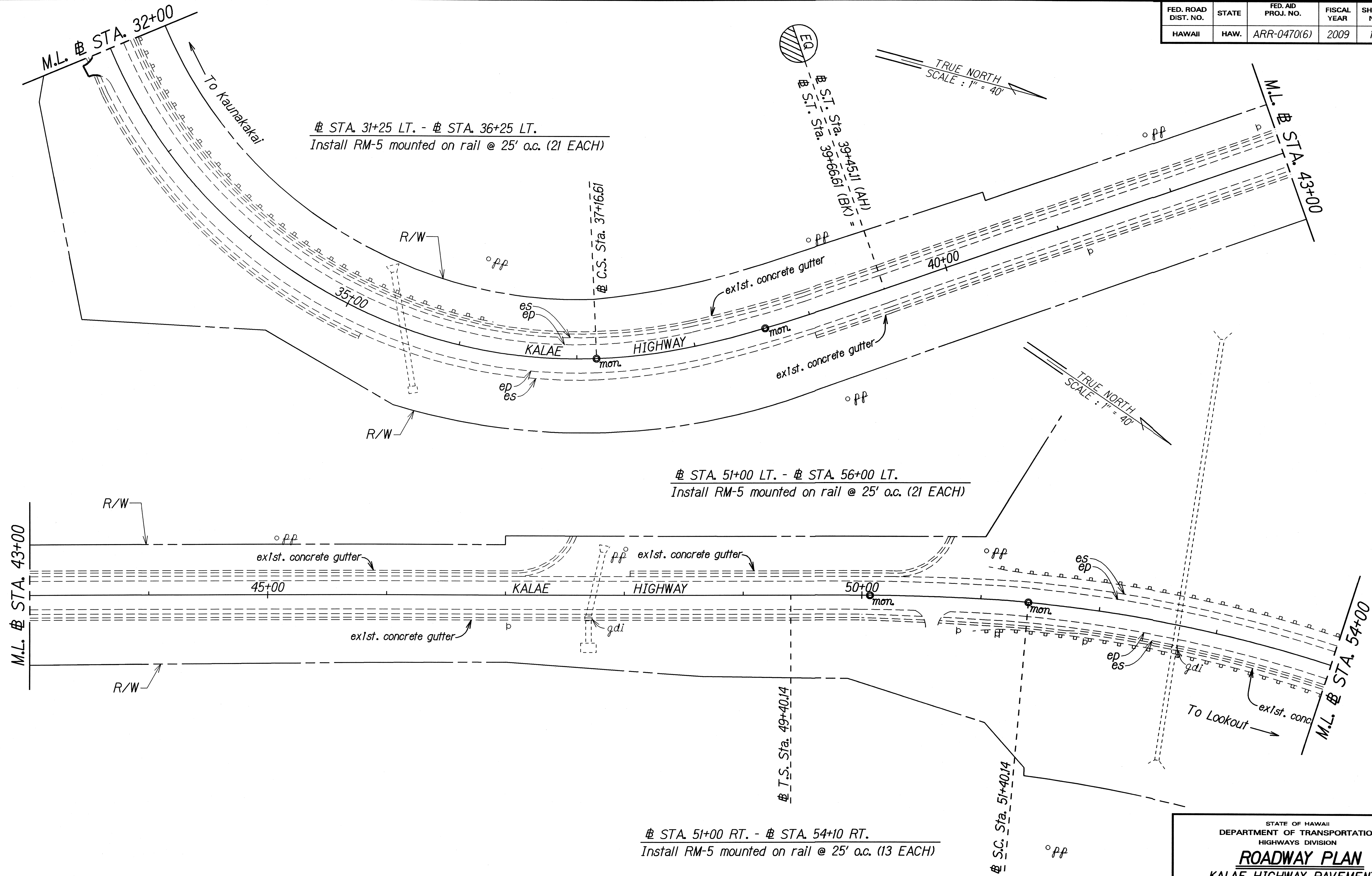
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DRAWN BY	
DESIGNED BY	CHECKED BY	
APPROVED BY		
DATE		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" = 40' Date: February, 2009

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	19	38



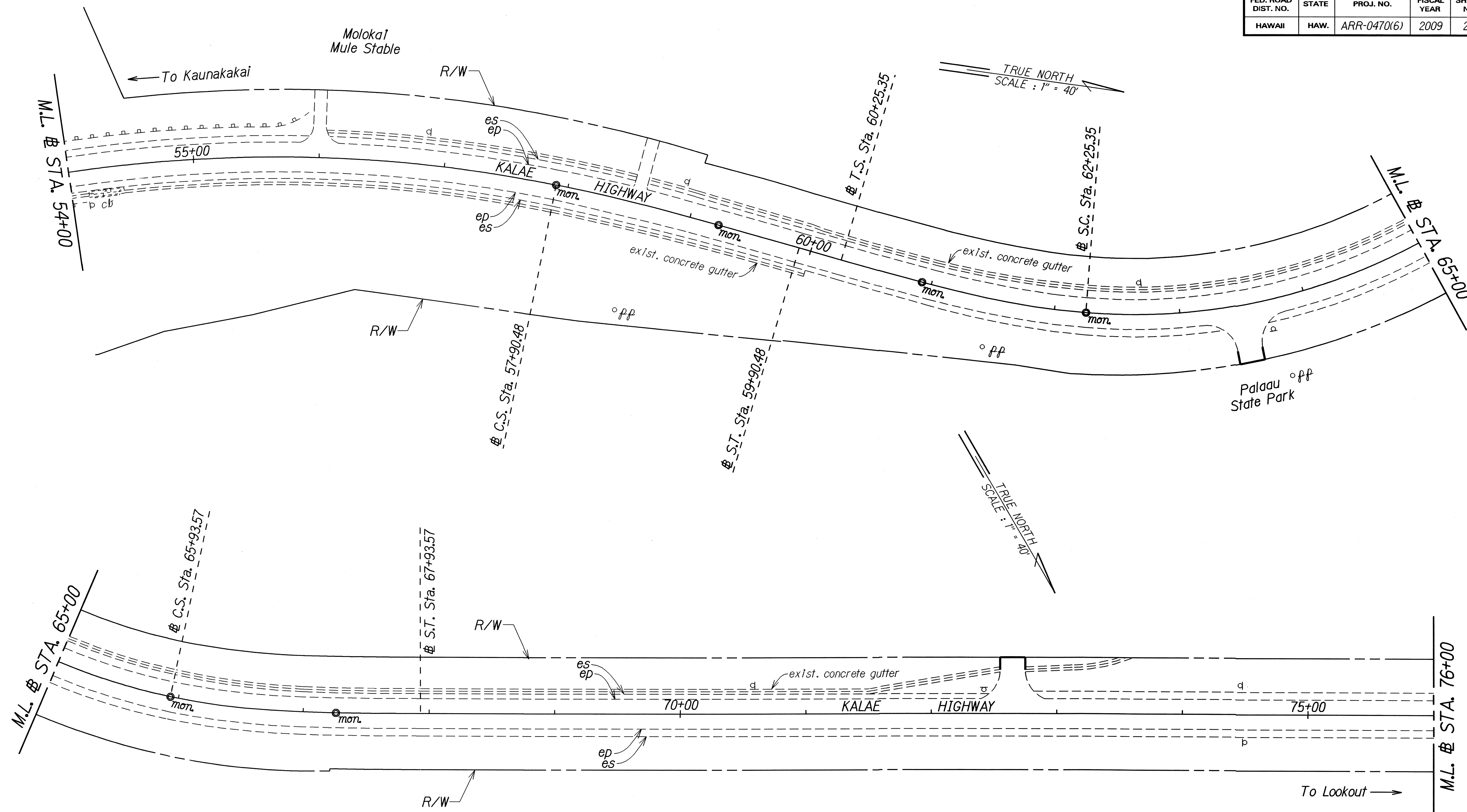
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY		
NOTE BOOK		
QUANTITIES BY		
CHECKED BY		
No. 1000		

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ROADWAY PLAN
 KALAE HIGHWAY PAVEMENT
 PREVENTIVE MAINTENANCE
 Maunaloa Highway to Kalaupapa Lookout
 Federal-Aid Project No. ARR-0470(6)
 Scale: 1" = 40' Date: February, 2009

SHEET No. 13 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	20	38



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

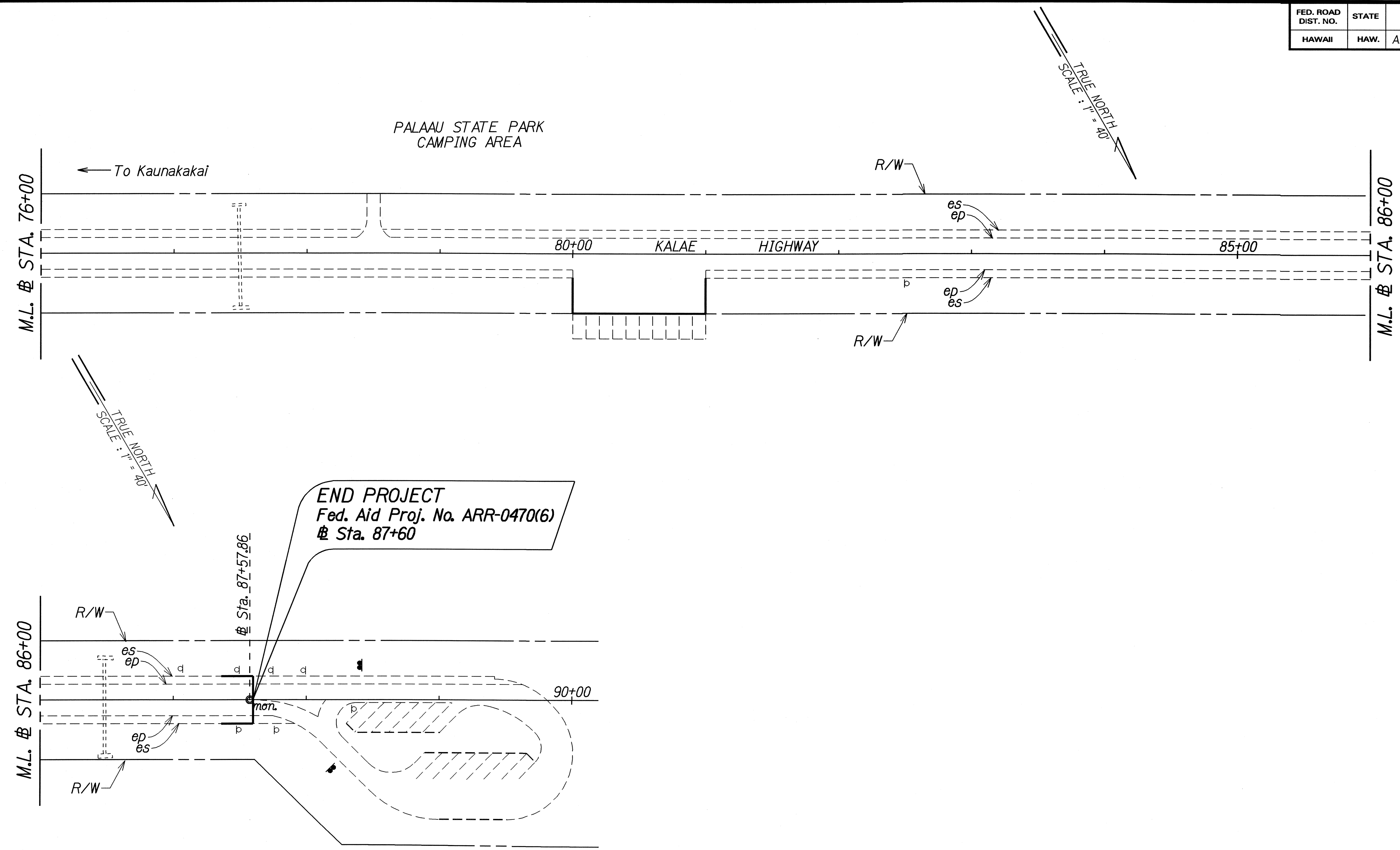
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" = 40' Date: February, 2009

SHEET No. 14 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ARR-0470(6)	2009	21	38



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
KALAE HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE

Maunaloa Highway to Kalaupapa Lookout
Federal-Aid Project No. ARR-0470(6)

Scale: 1" = 40' Date: February, 2009

SHEET No. 15 OF 15 SHEETS