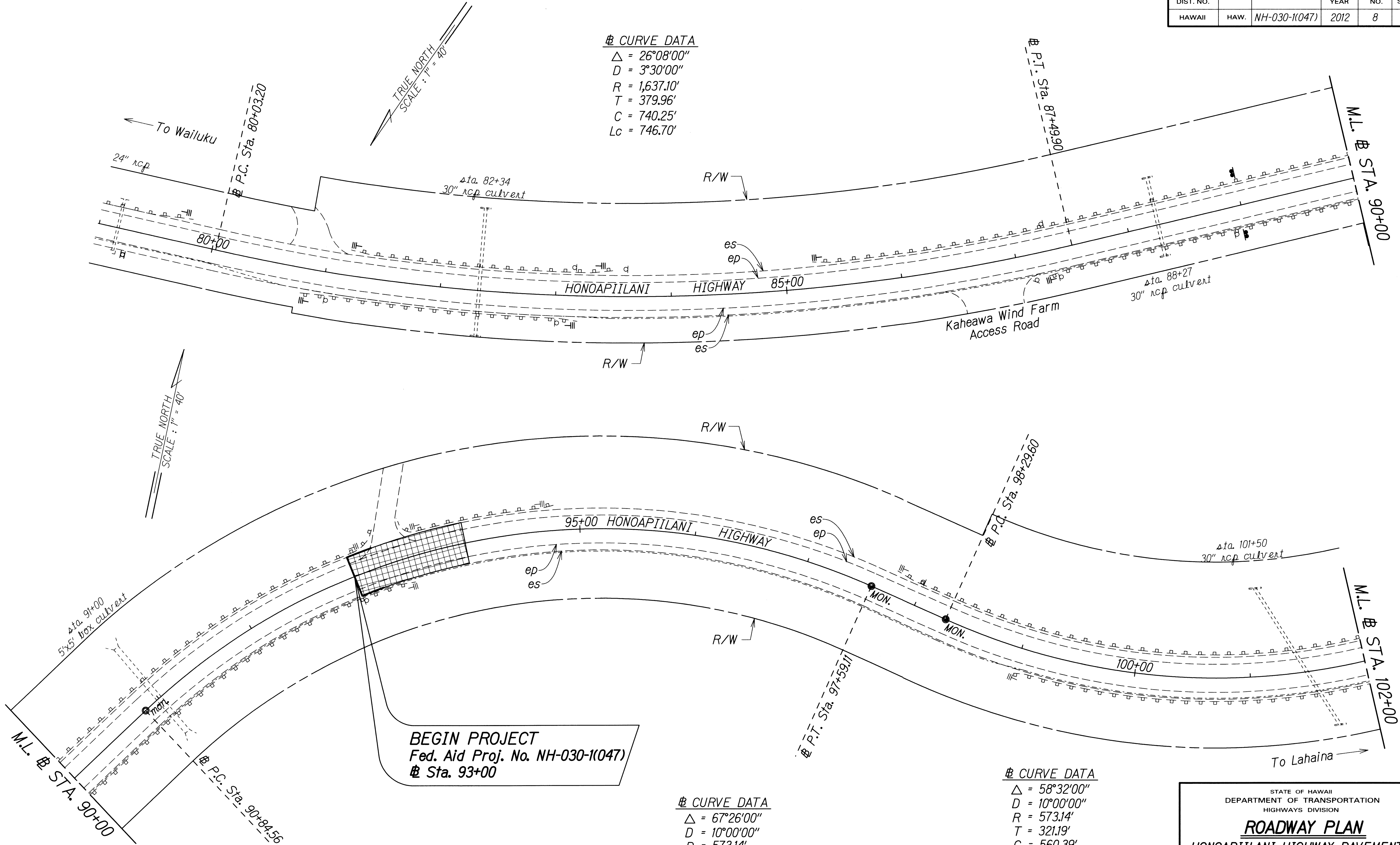


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	8	45



CURVE DATA
 $\Delta = 26^{\circ}08'00''$
 $D = 3^{\circ}30'00''$
 $R = 1,637.10'$
 $T = 379.96'$
 $C = 740.25'$
 $Lc = 746.70'$

CURVE DATA
 $\Delta = 58^{\circ}32'00''$
 $D = 10^{\circ}00'00''$
 $R = 573.14'$
 $T = 321.19'$
 $C = 560.39'$
 $Lc = 585.52'$

CURVE DATA
 $\Delta = 67^{\circ}26'00''$
 $D = 10^{\circ}00'00''$
 $R = 573.14'$
 $T = 382.48'$
 $C = 636.28'$
 $Lc = 674.55'$

BEGIN PROJECT
 Fed. Aid Proj. No. NH-030-1(047)
 # Sta. 93+00

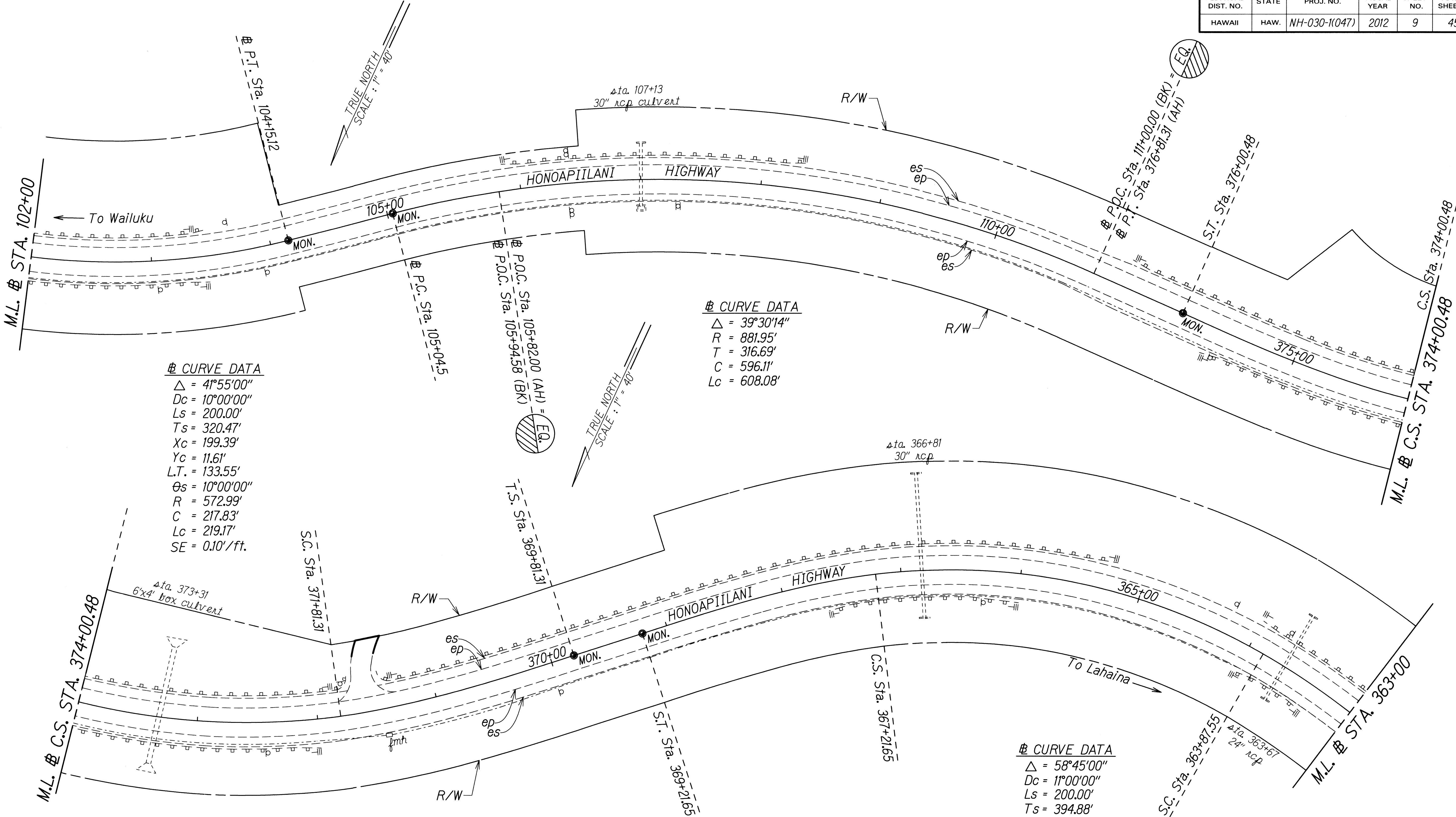
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40'
Date: July, 2011

SHEET No. 1 OF 18 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	9	45



STA. 371+00 - STA. 177+00

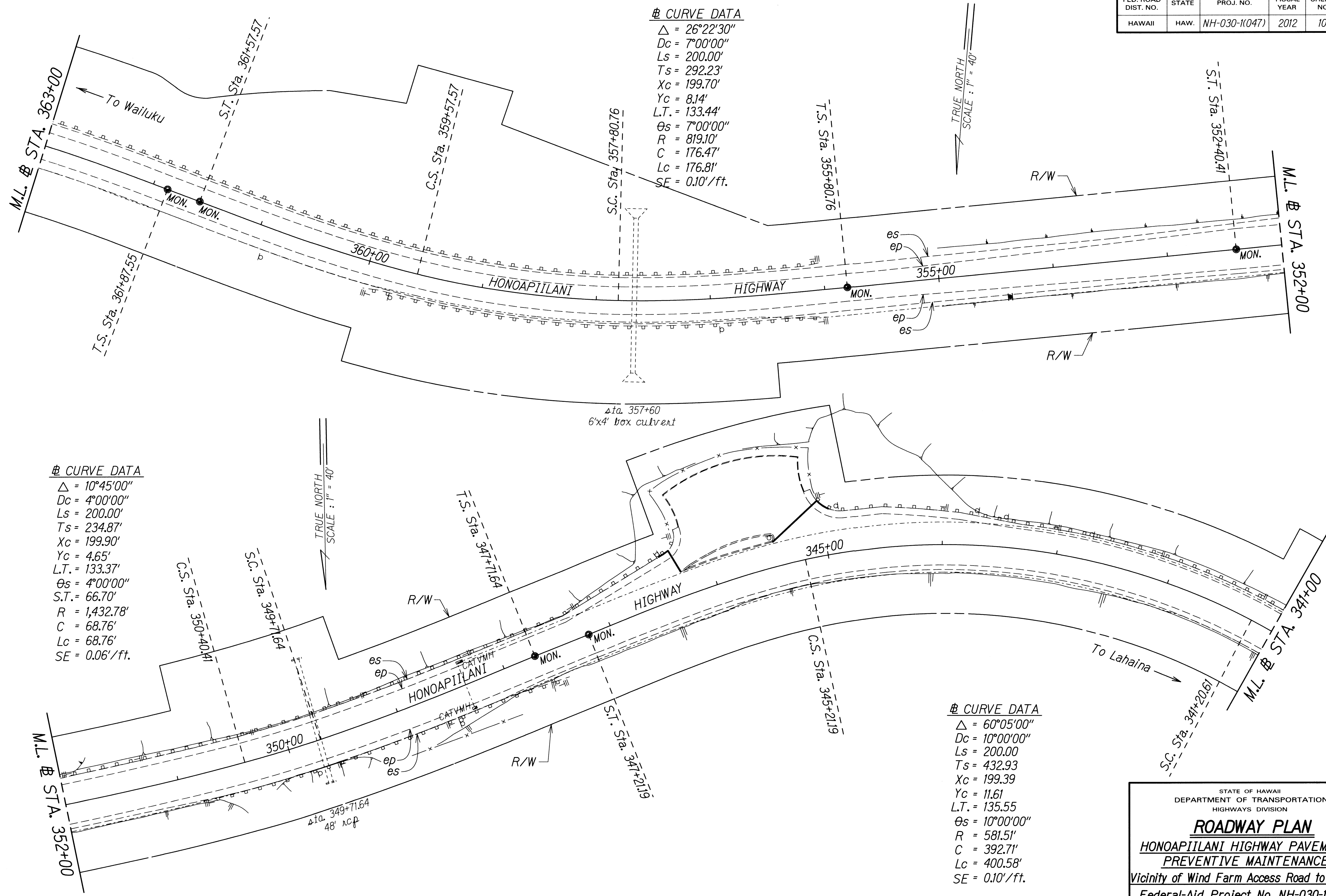
Pavement cracks shall be sealed at least 7 days prior to paving. After a minimum of 7 days, a paving grid will be laid over the cracked areas before overlay work begins. Exact locations and limits or areas to be filled shall be determined in the field by the Engineer or Project Inspector. This work will be paid under Items No. 408.0100 and 416.0100.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40'

Date: July, 2011

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	10	45



DATE	2011.07.01
SURVEY PLOTTED BY	JP
DESIGNED BY	JP
TRACED BY	JP
QUANTITIES BY	JP
CHECKED BY	JP
ORIGINAL PLAN	10/20/2011
NOTE BOOK	10/20/2011

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

HONOAPIILANI HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE

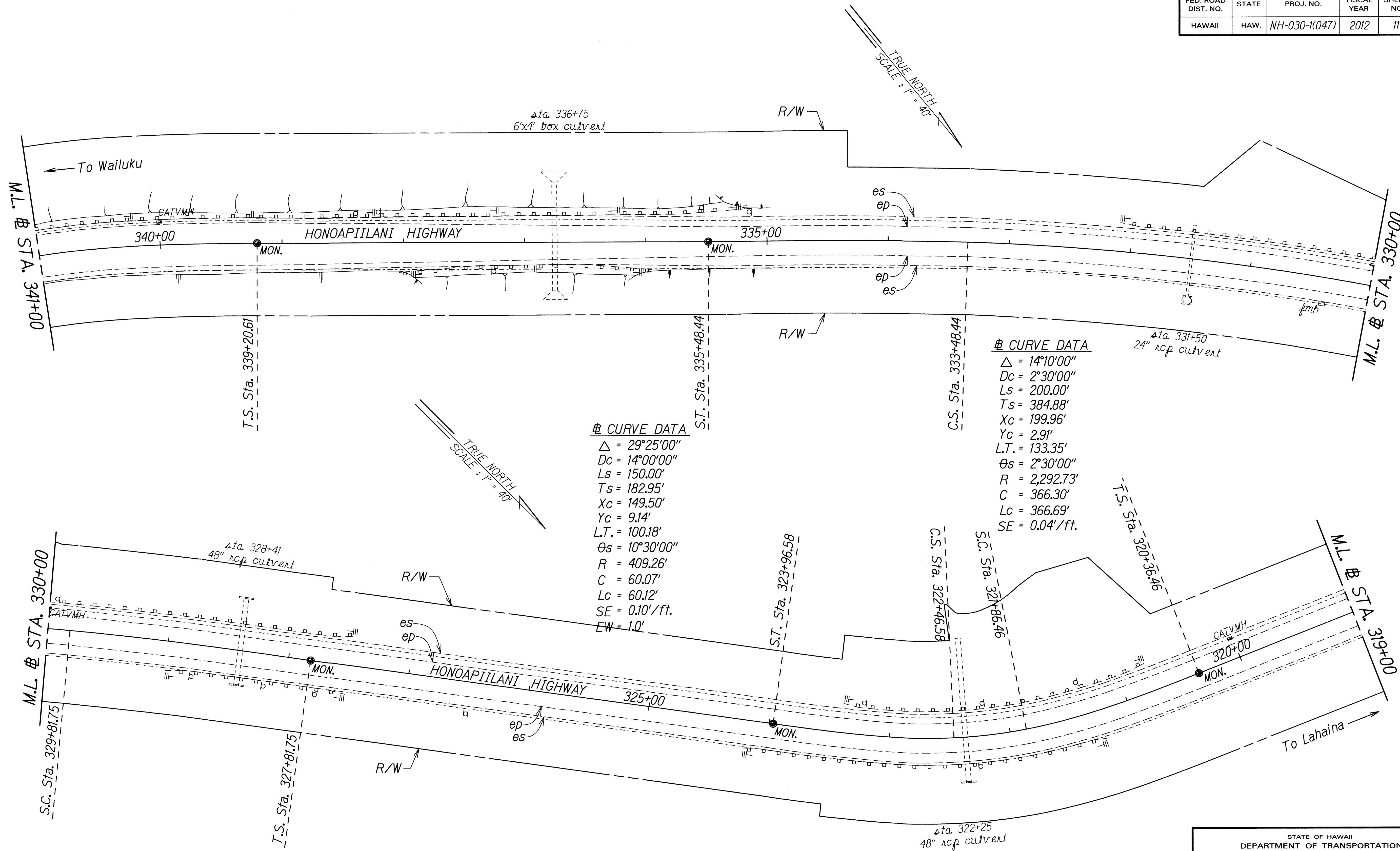
Vicinity of Wind Farm Access Road to Olowalu

Federal-Aid Project No. NH-030-1(047)

Scale: 1" = 40' Date: July, 2011

SHEET No. 3 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	11	45



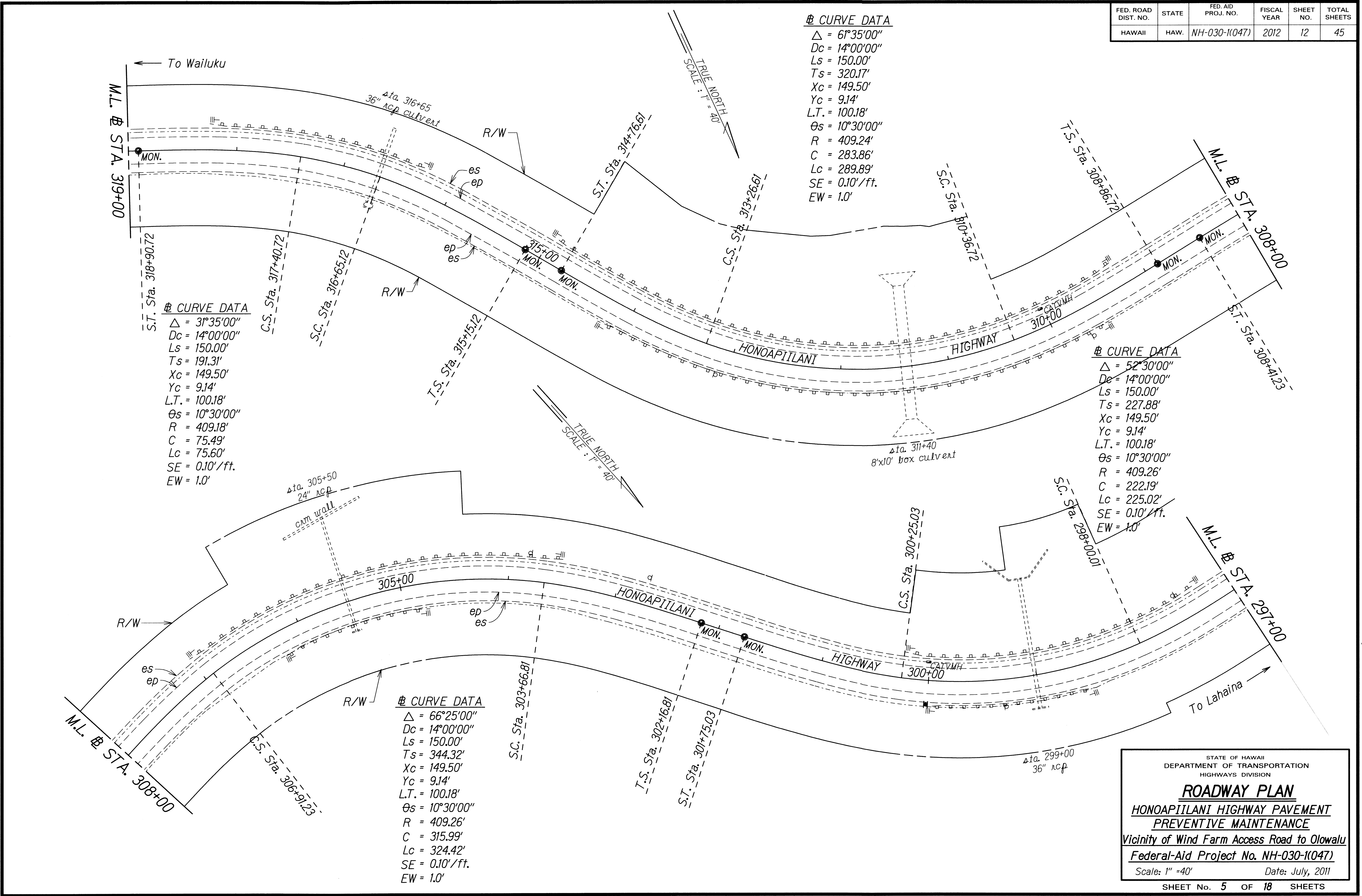
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	2011.03.22
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

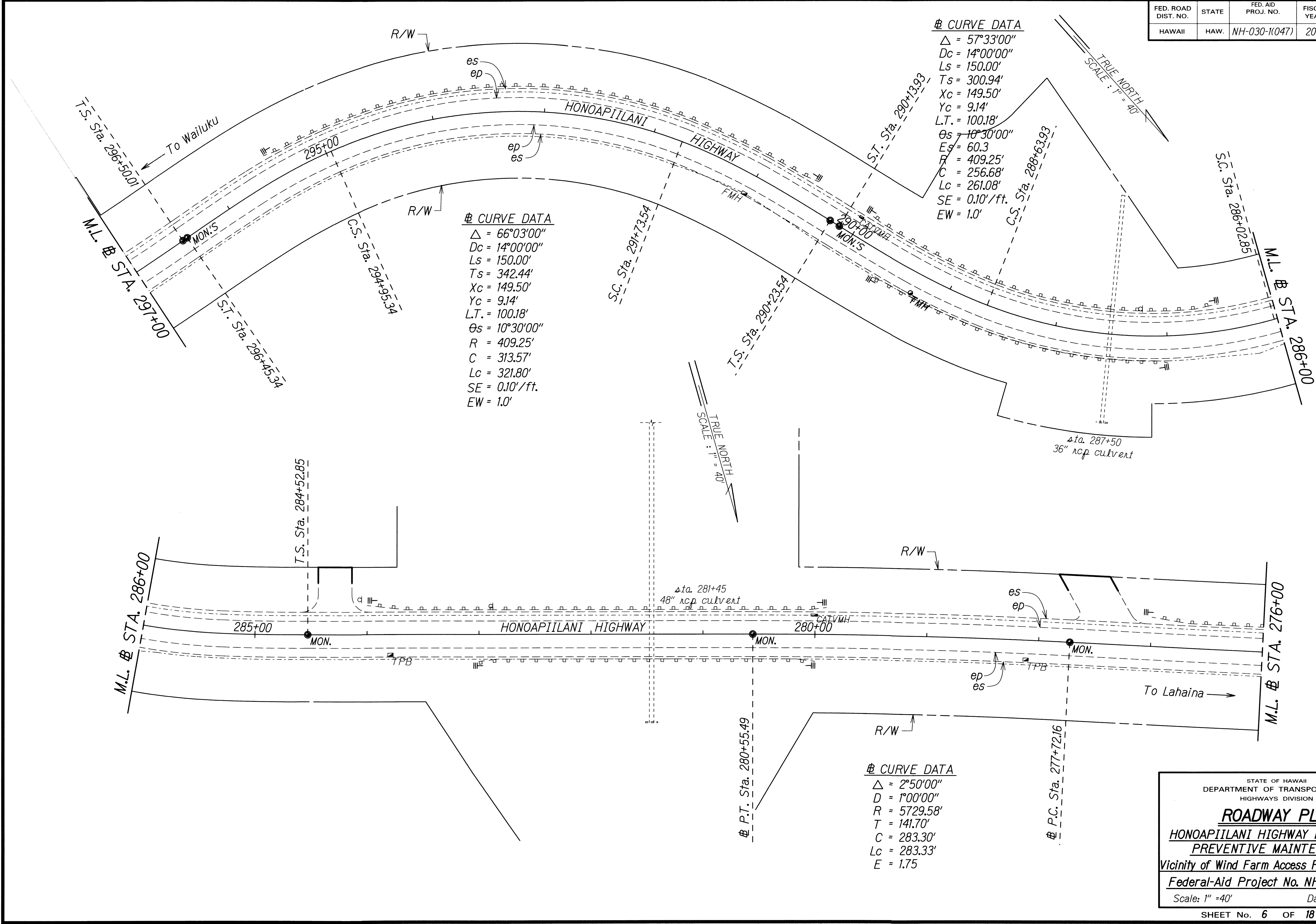
ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 4 OF 18 SHEETS

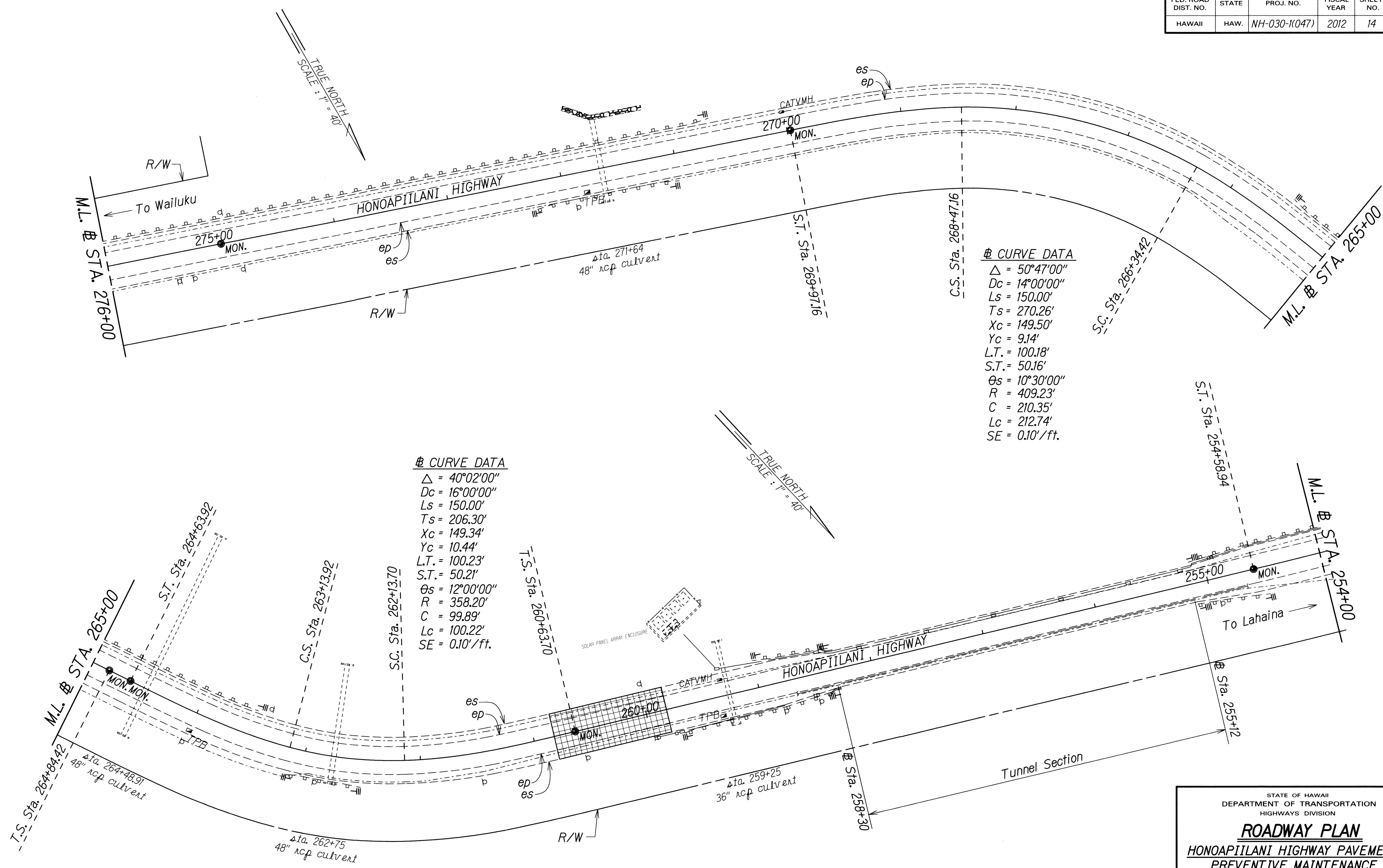
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-110471	2012	12	45



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	13	45



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	14	45



ORIGINAL PLAN	DATE	Sept. 1998
SURVEY PLOTTED BY		
TRACED BY		
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

HONOAPIILANI HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE

Vicinity of Wind Farm Access Road to Olowalu

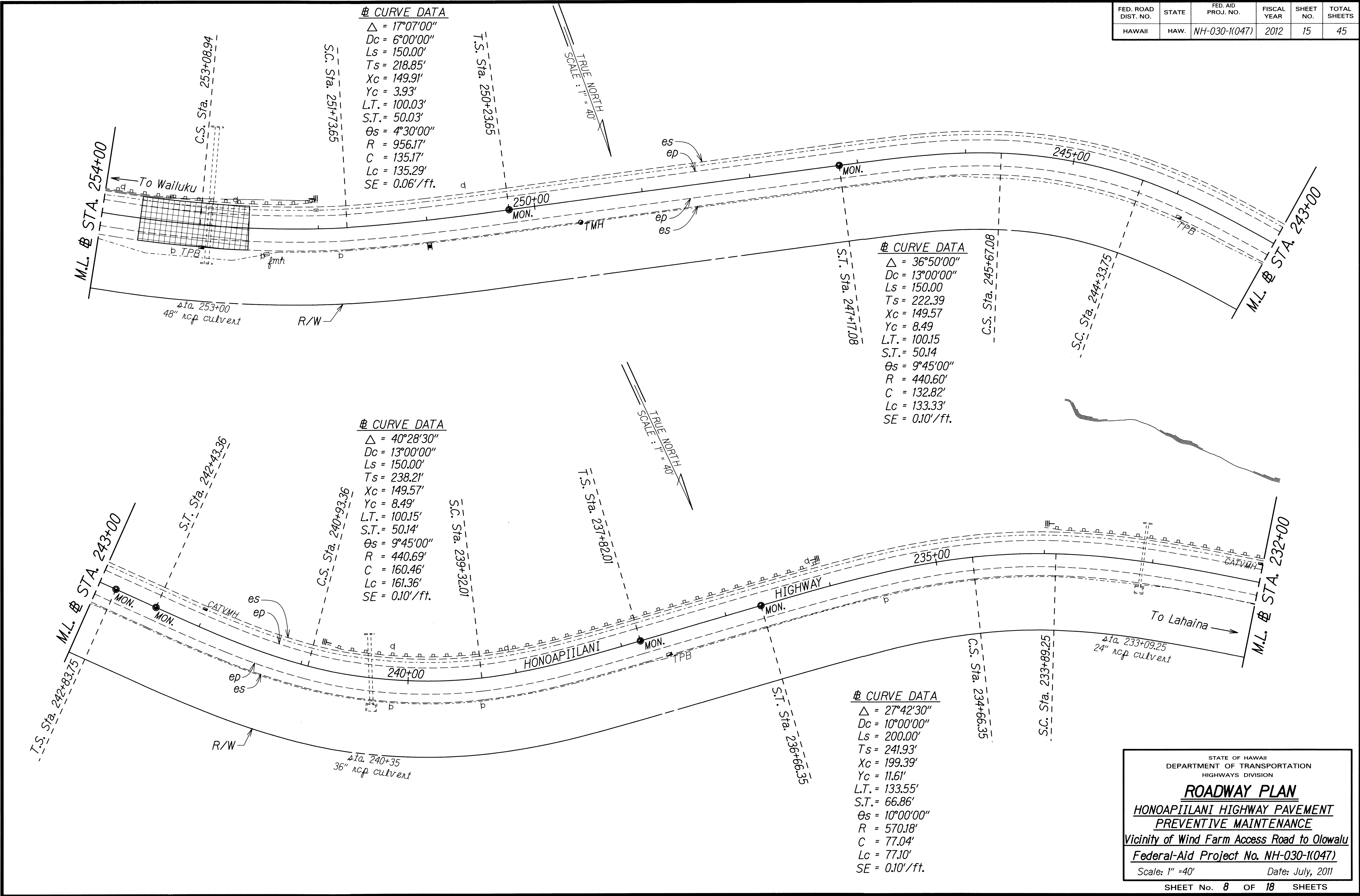
Federal-Aid Project No. NH-030-1(047)

Scale: 1" = 40'

Date: July, 2011

SHEET No. 7 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	15	45



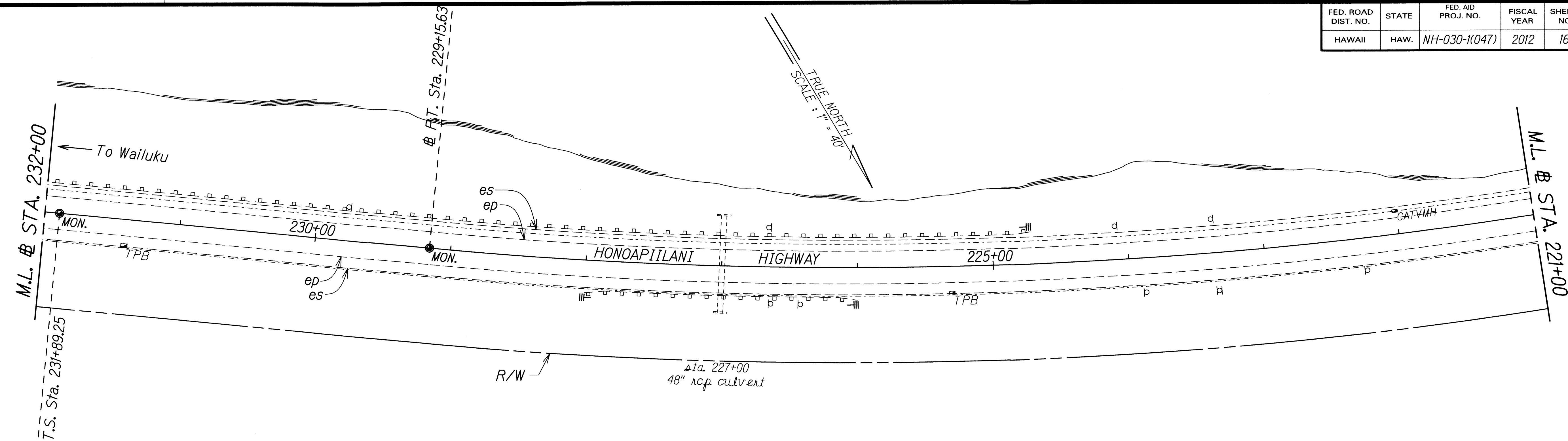
DATE	5/24/11
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DESIGNED BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

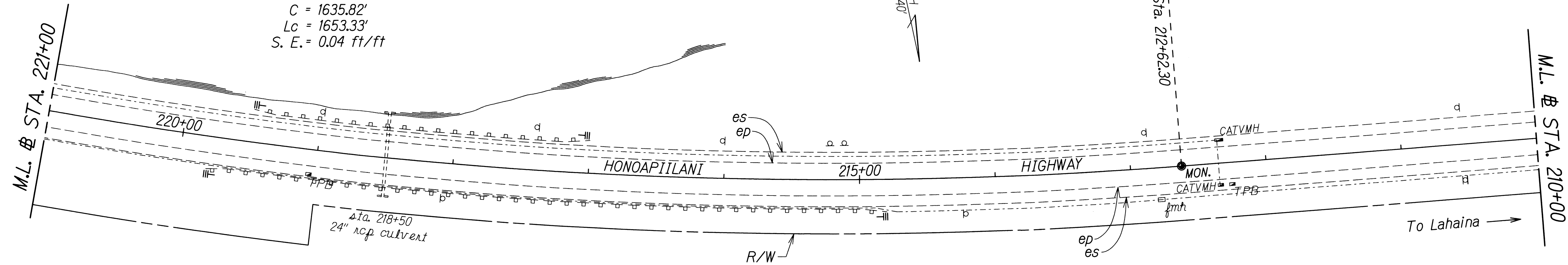
ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 8 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	16	45



CURVE DATA
 $\Delta = 28^{\circ}56'00''$
 $D = 1^{\circ}45'00''$
 $R = 3,274.04'$
 $T = 844.70'$
 $C = 1635.82'$
 $L_c = 1653.33'$
 $S. E. = 0.04 \text{ ft/ft}$



ORIGINAL PLAN	DATE
NOTE BOOK	DESIGNED BY
QUANTITIES BY	CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

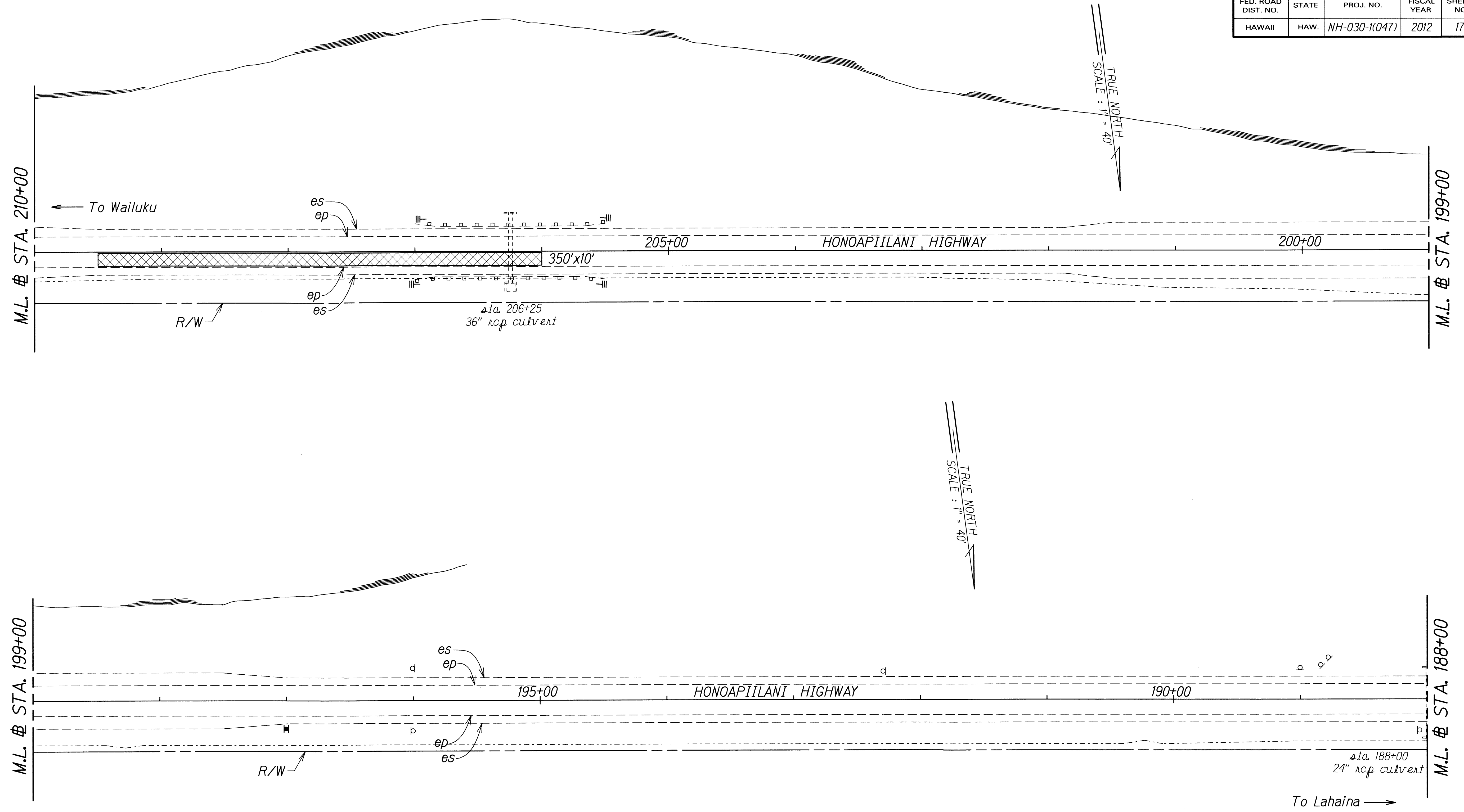
HONOAPIILANI HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE

Vicinity of Wind Farm Access Road to Olowalu

Federal-Aid Project No. NH-030-1(047)

Scale: 1" = 40' Date: July, 2011

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	17	45

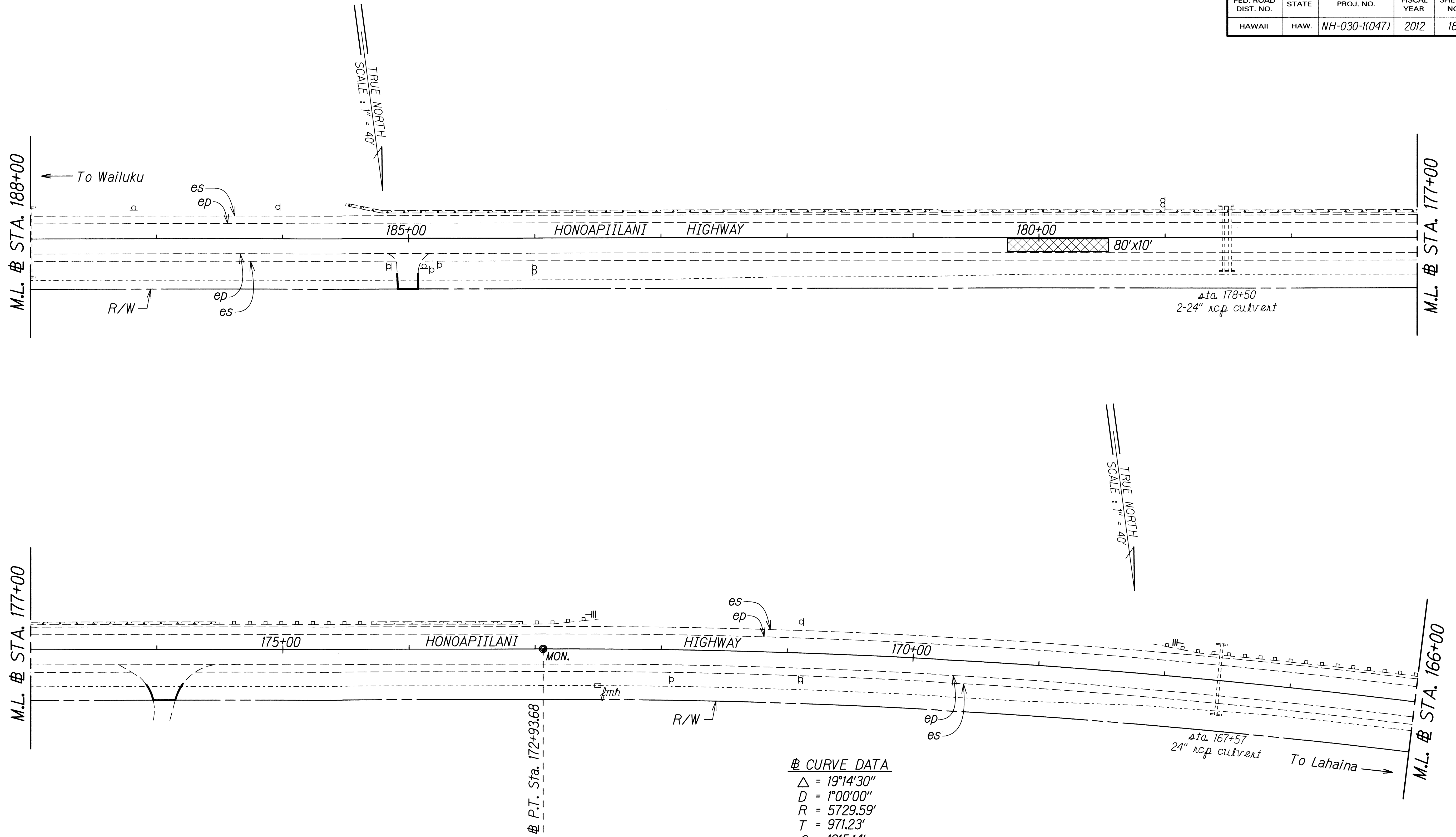


ORIGINAL PLAN	DATE
NOTE BOOK	DESIGNED BY
QUANTITIES BY	CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
**HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE**
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	18	45



⊕ CURVE DATA
Δ = 19°14'30"
D = 1°00'00"
R = 5729.59'
T = 971.23'
C = 1915.14'
Lc = 1924.17'
S. E. = 0.00 ft/ft

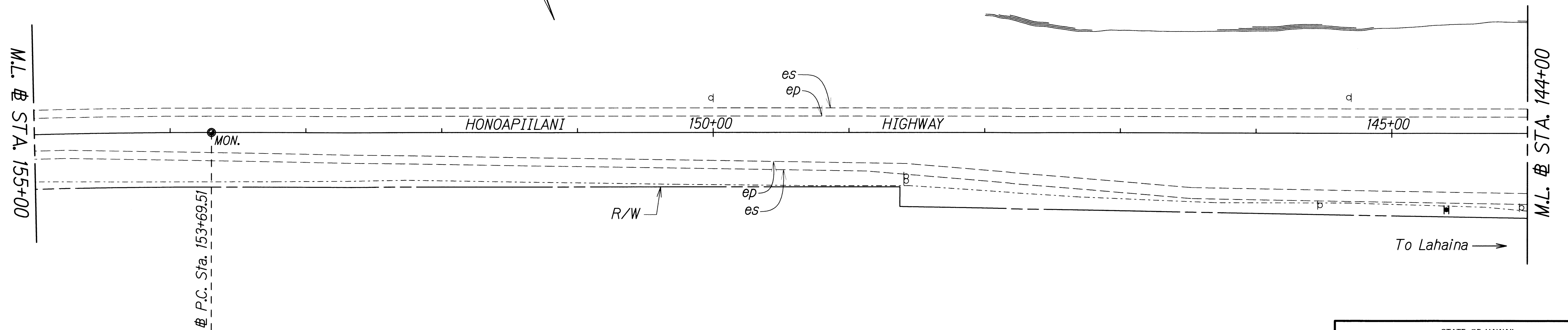
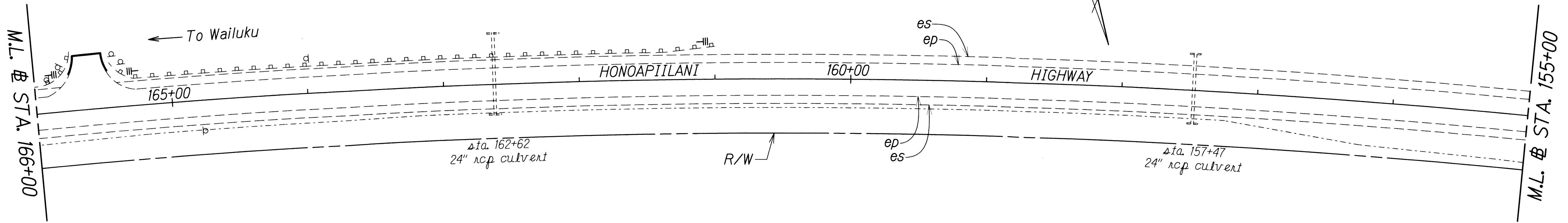
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	TRACED BY	2011
DESIGNED BY	QUANTITIES BY	
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 11 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	19	45



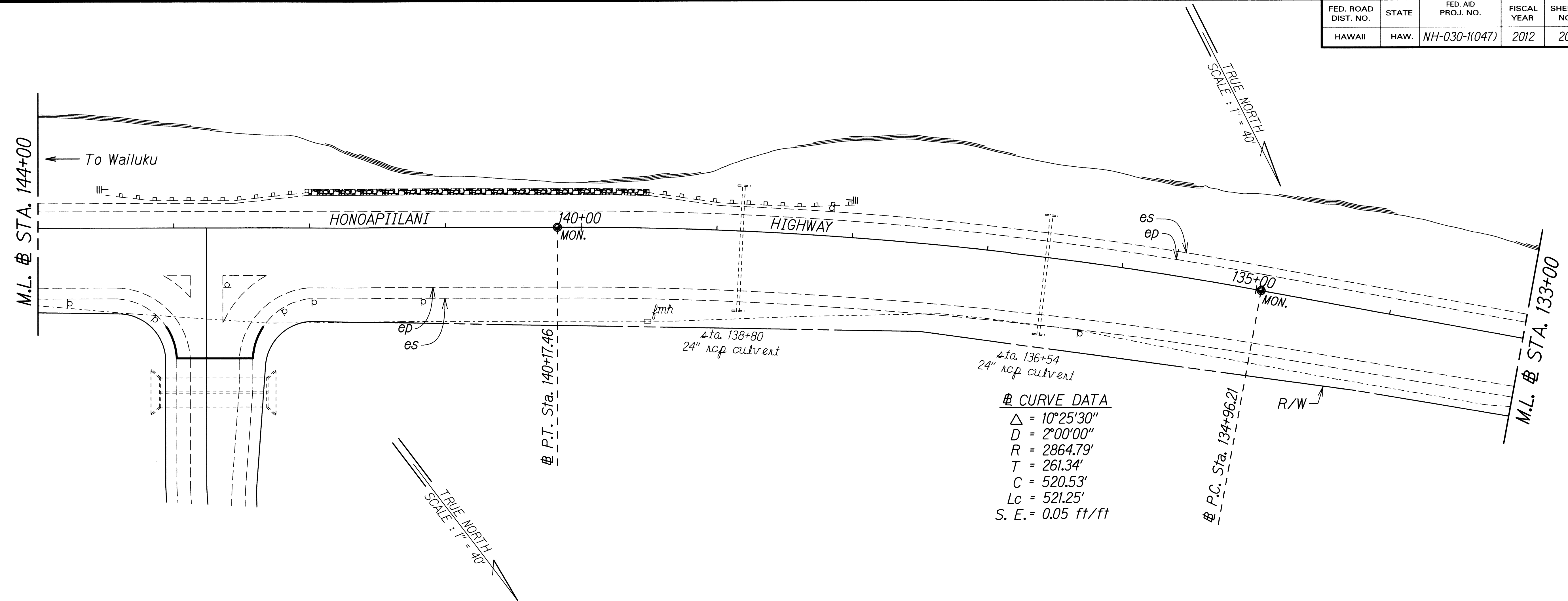
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	10/1/11
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

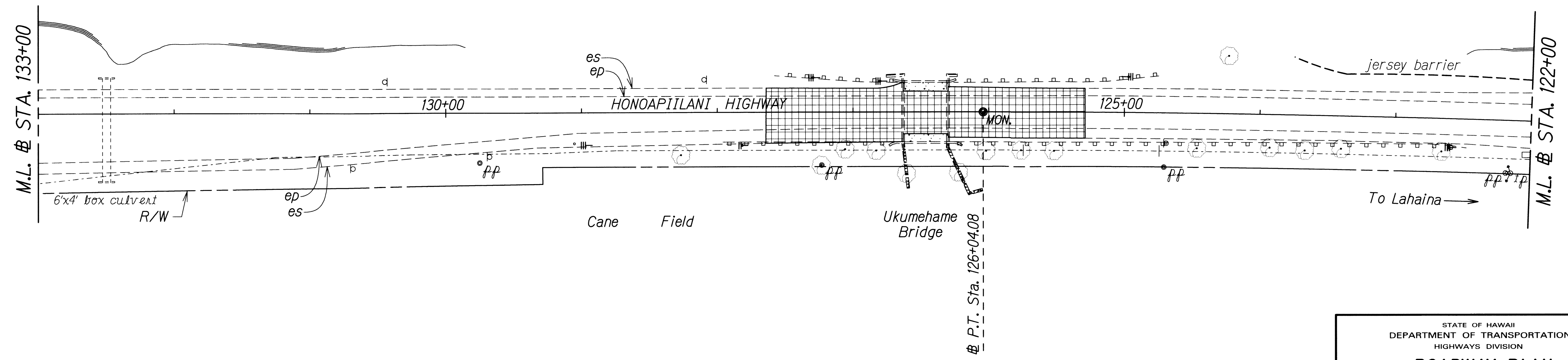
ROADWAY PLAN
**HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE**
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 12 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	20	45



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

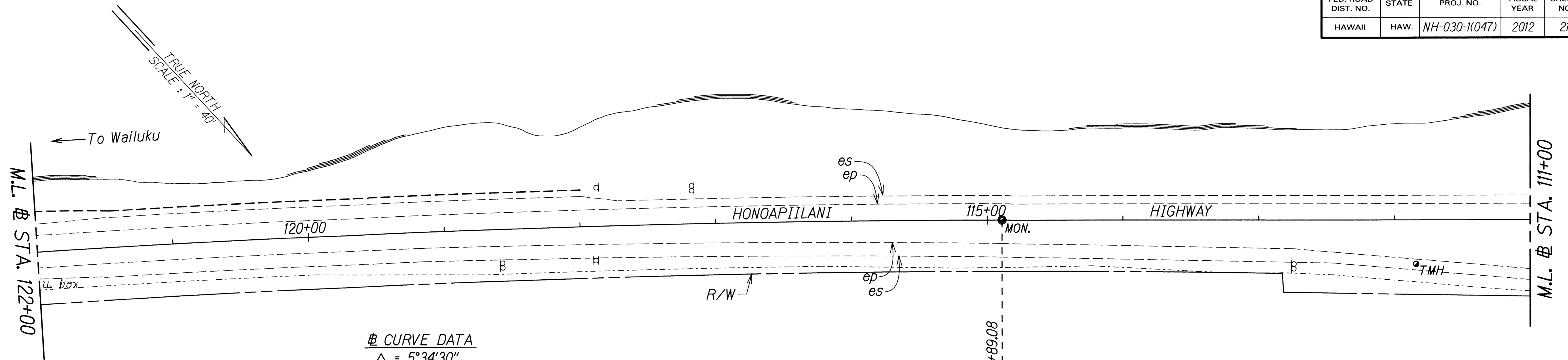


ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	2011.07.01
	QUANTITIES BY	
	CHECKED BY	

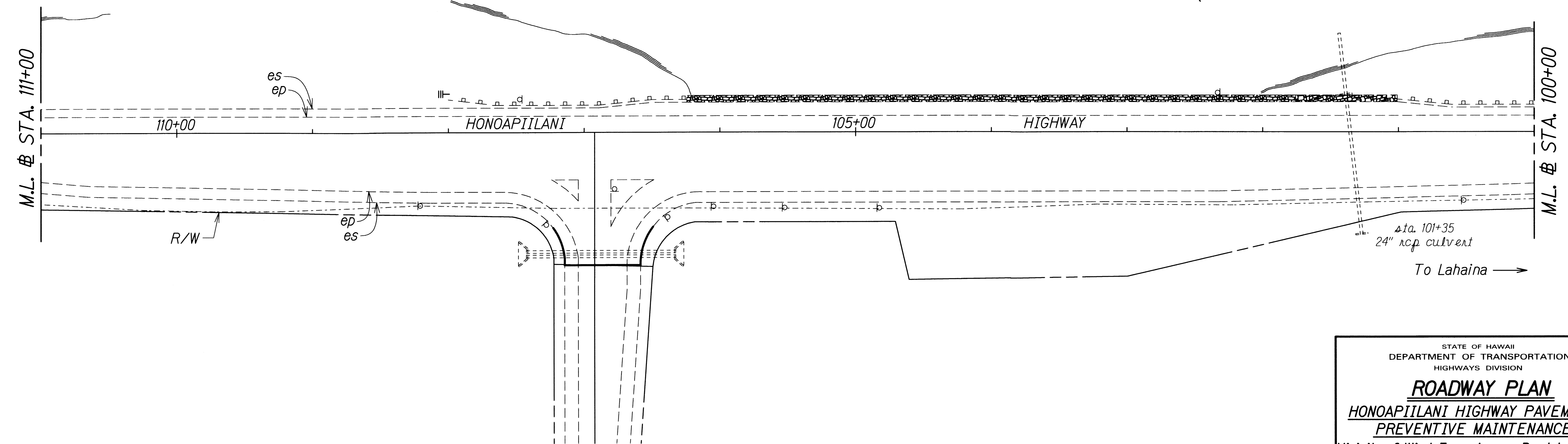
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40'
Date: July, 2011

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	21	45



⊕ CURVE DATA
 $\Delta = 5^{\circ}34'30''$
 $D = 0^{\circ}00'00''$
 $R = 11459.16'$
 $T = 557.94'$
 $C = 0.000'$
 $L_c = 1115.00$
 $S. E. = 0.015 \text{ ft/ft}$



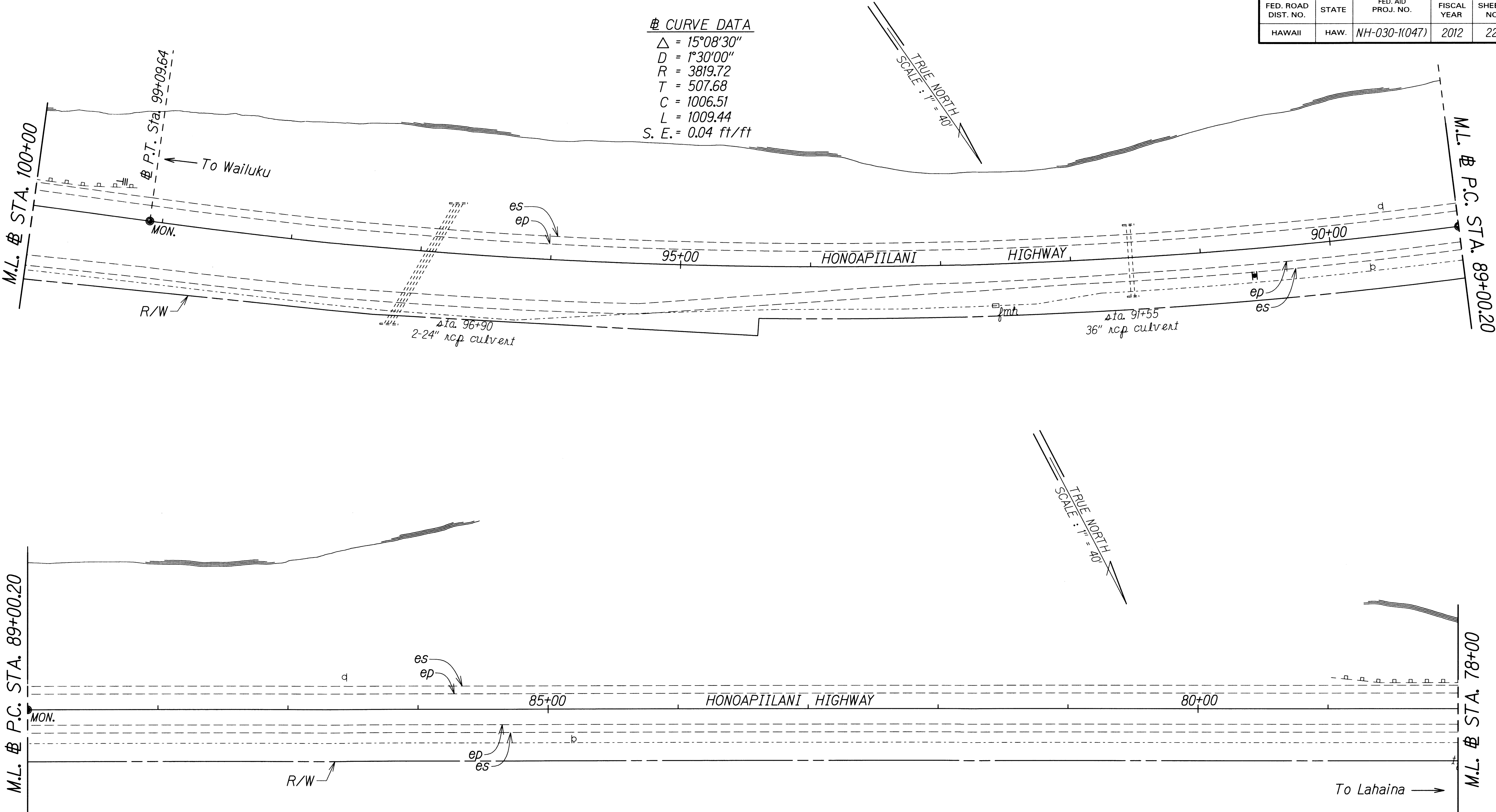
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 14 OF 18 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	22	45



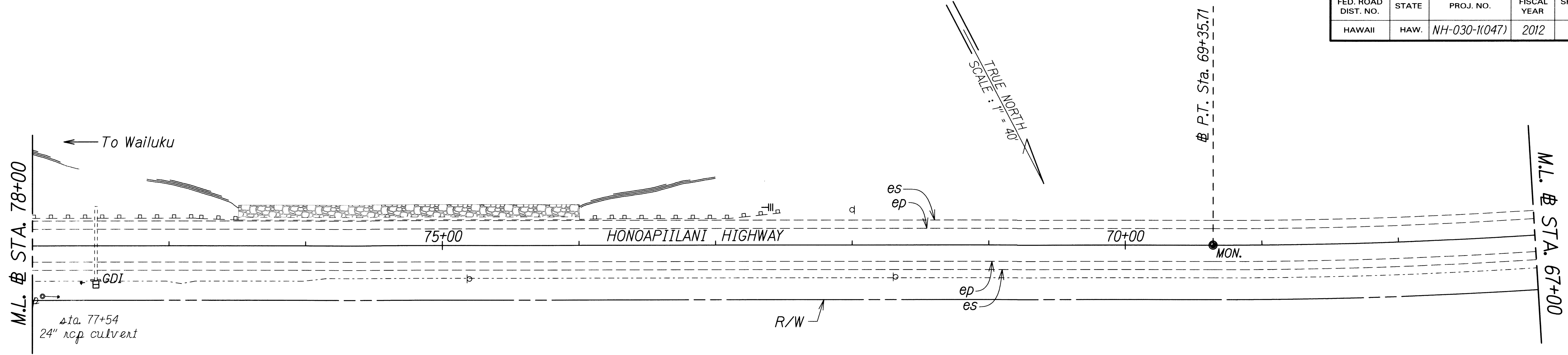
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	July 2011
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

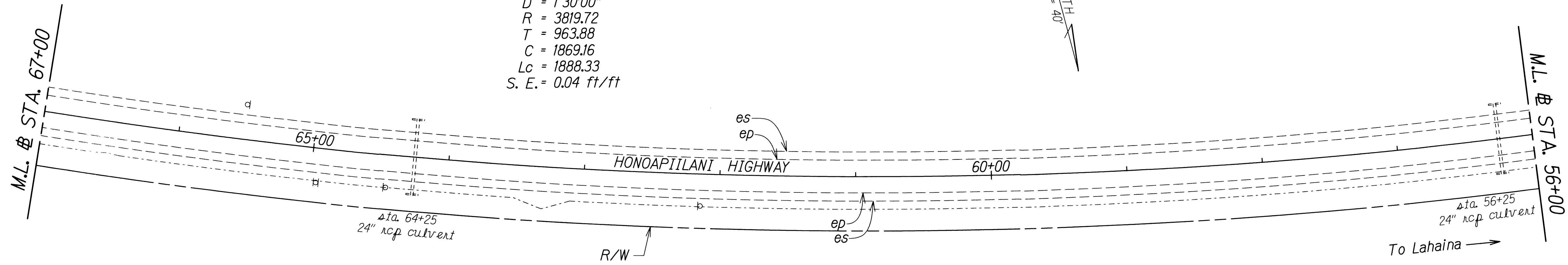
ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 15 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	23	45



☯ CURVE DATA
 $\Delta = 28^{\circ}19'30''$
 $D = 1^{\circ}30'00''$
 $R = 3819.72$
 $T = 963.88$
 $C = 1869.16$
 $Lc = 1888.33$
 $S. E. = 0.04 \text{ ft/ft}$



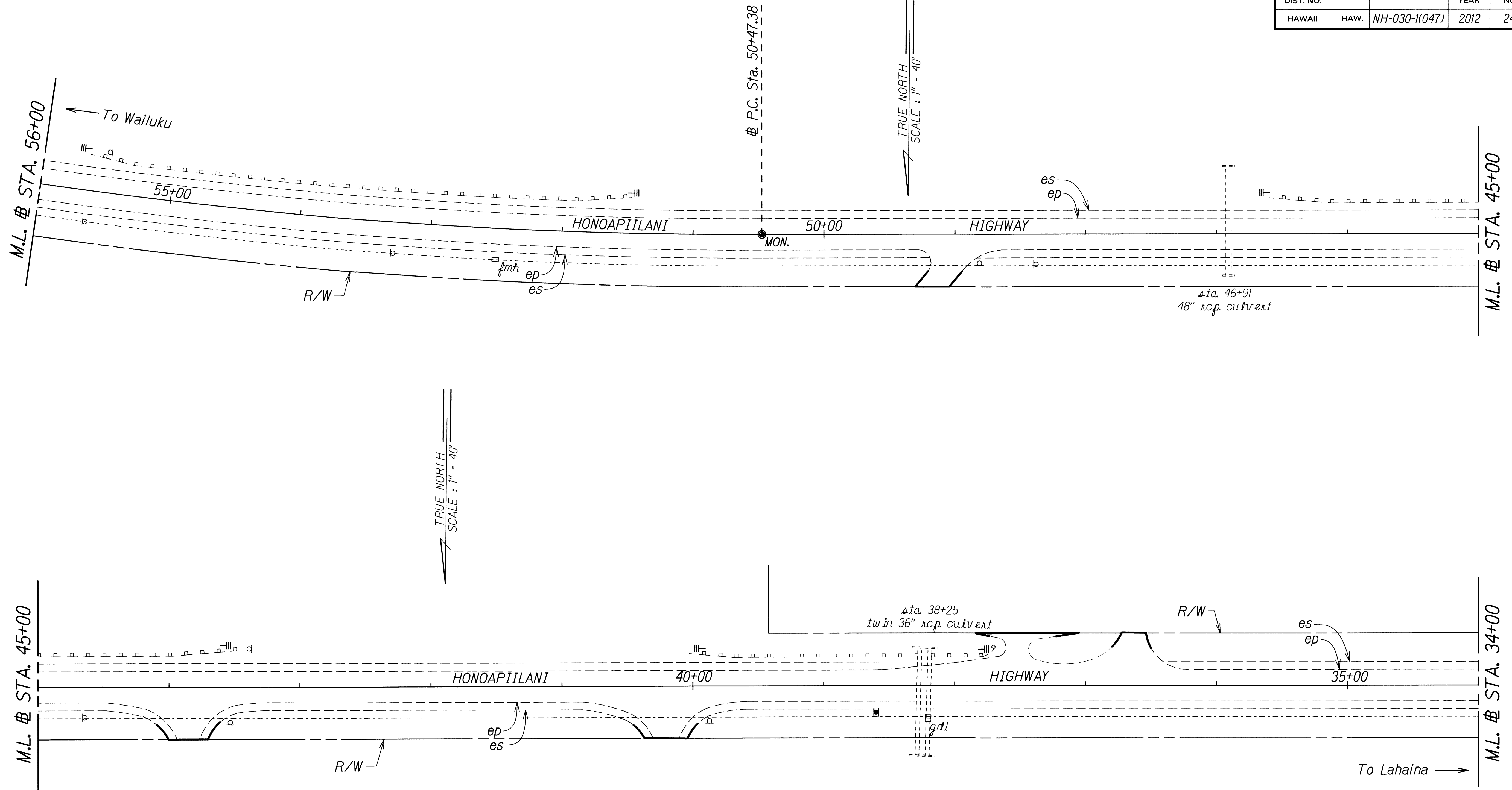
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 16 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	24	45



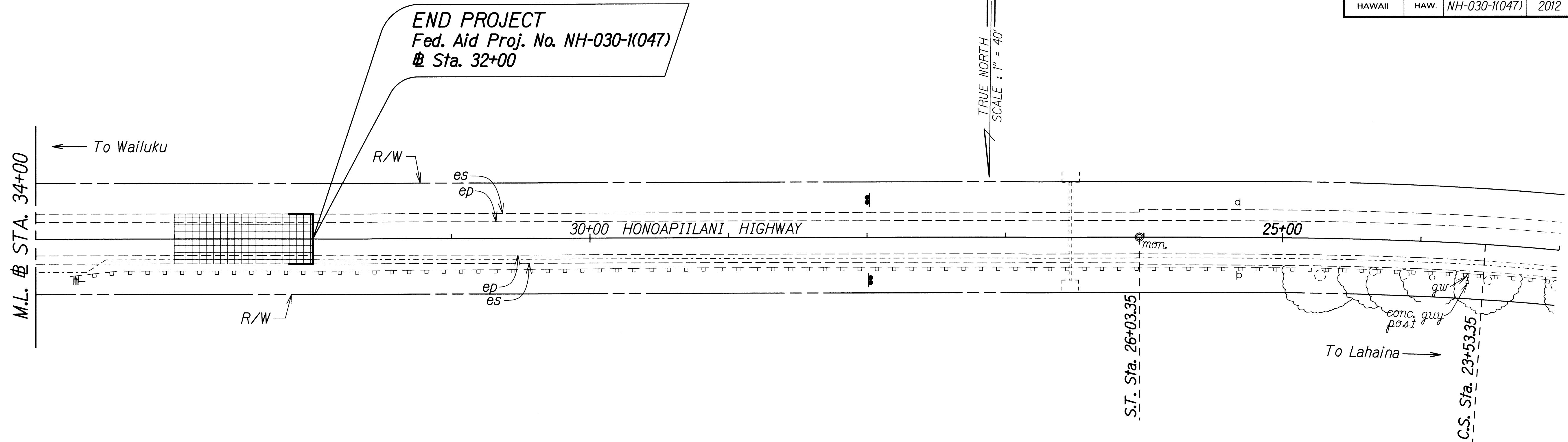
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	July 2011
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 17 OF 18 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-030-1(047)	2012	25	45



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
**HONOAPIILANI HIGHWAY PAVEMENT
PREVENTIVE MAINTENANCE**
Vicinity of Wind Farm Access Road to Olowalu
Federal-Aid Project No. NH-030-1(047)
Scale: 1" = 40' Date: July, 2011

SHEET No. 18 OF 18 SHEETS