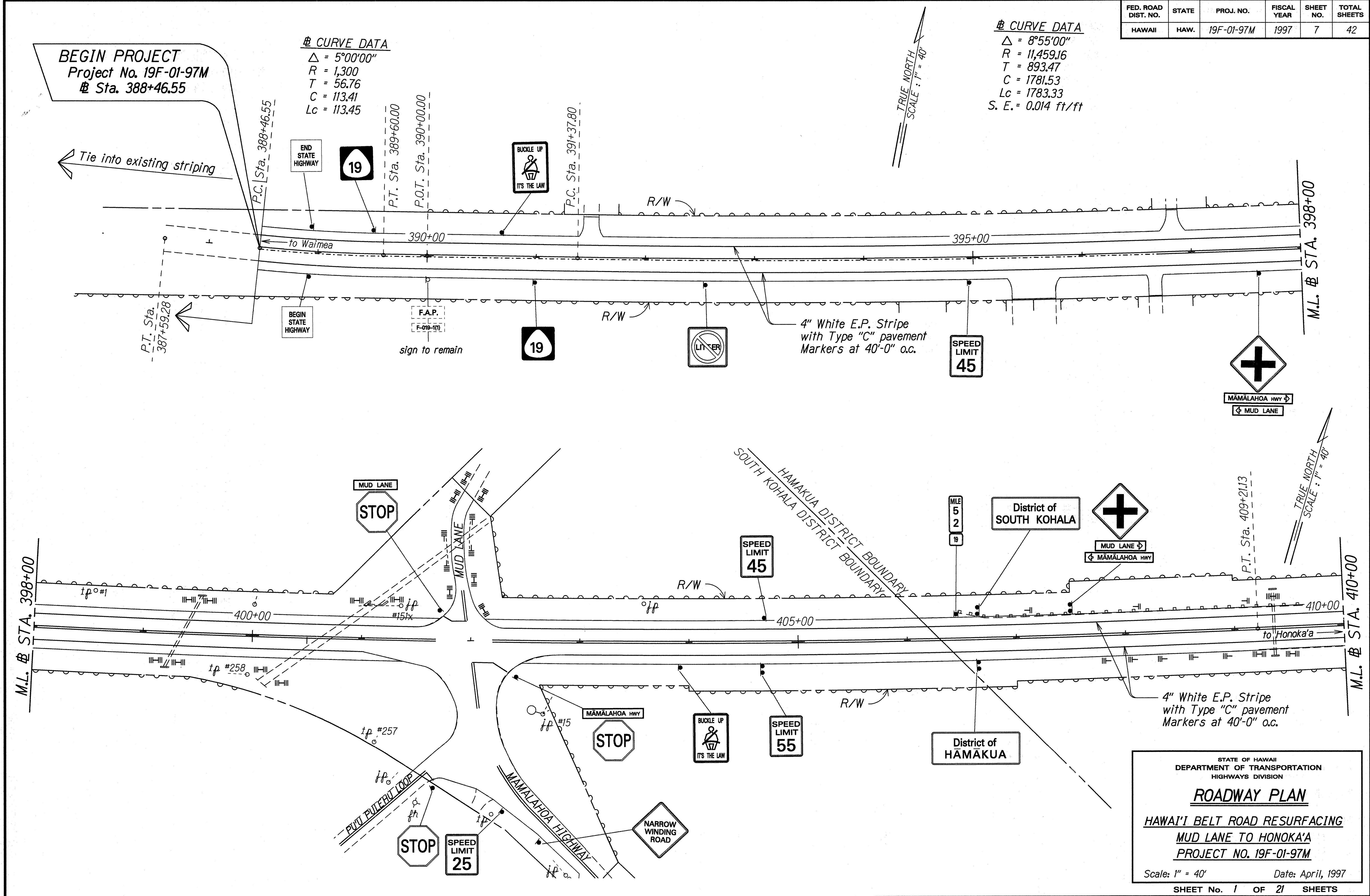


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	7	42



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

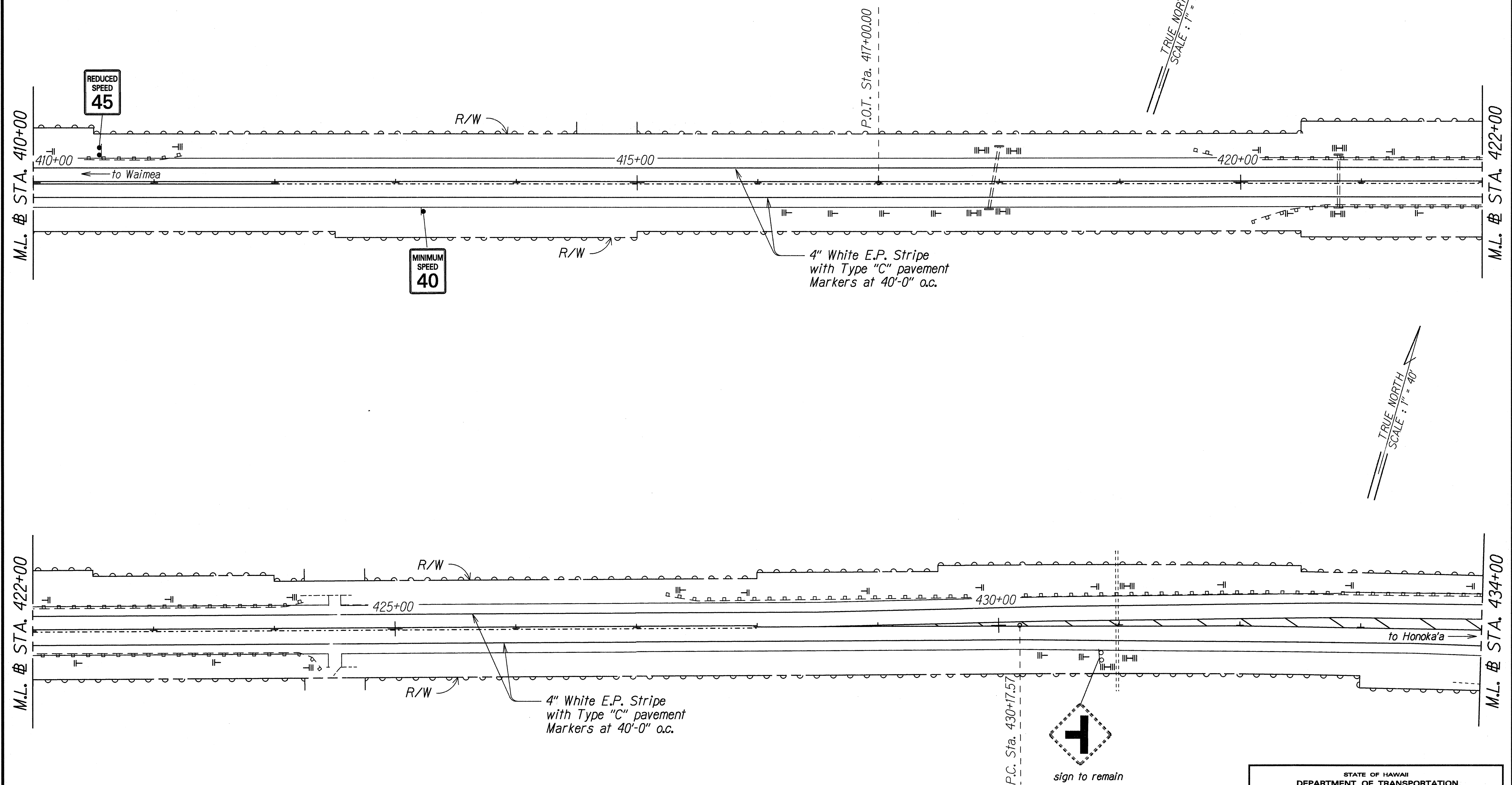
ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40' Date: April, 1997

SHEET No. 1 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	8	42



ORIGINAL PLAN	DATE	BY
DESIGNED BY	DATE	BY
DRAWN BY	DATE	BY
CHECKED BY	DATE	BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

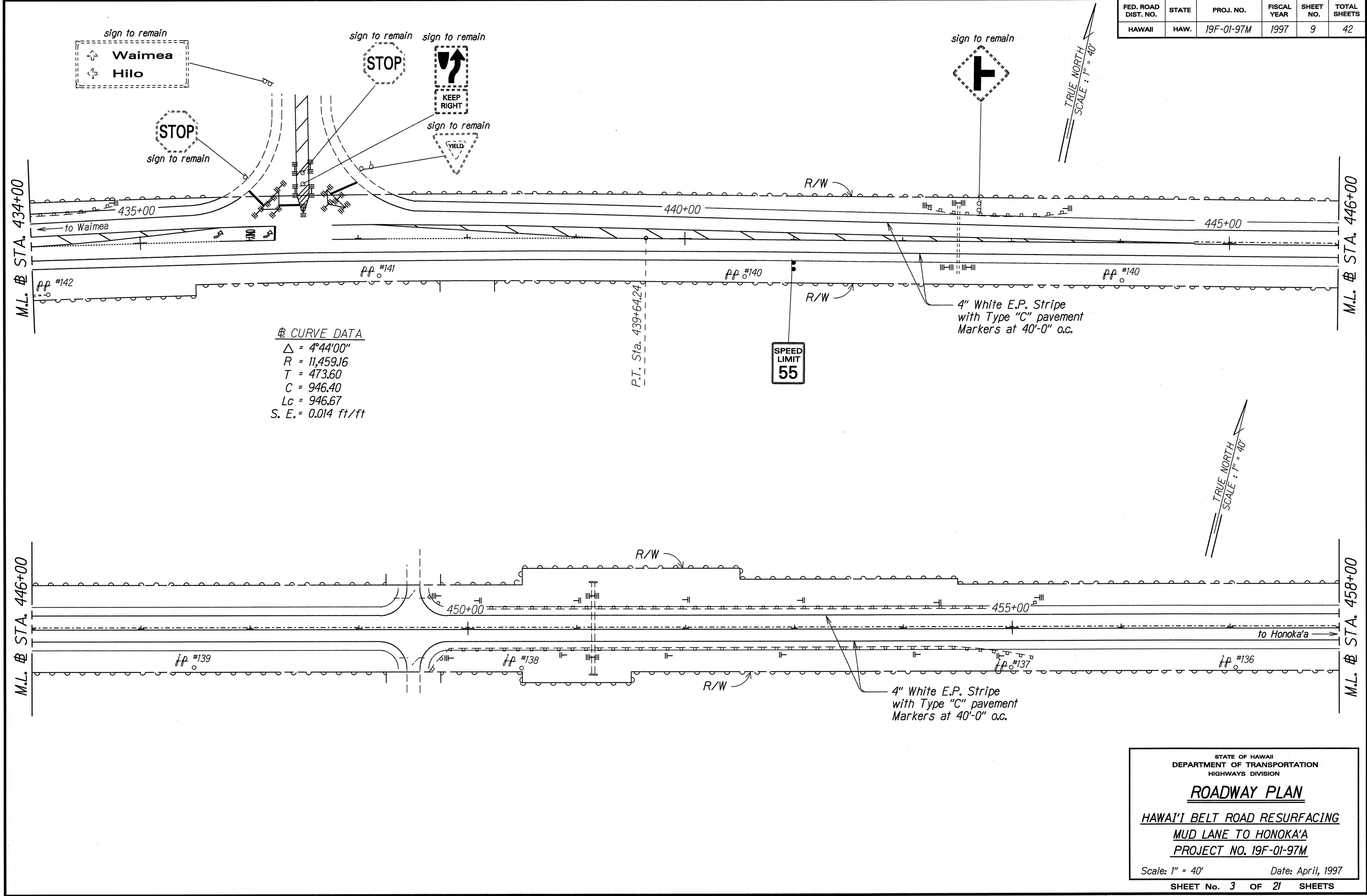
ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40' Date: April, 1997

SHEET No. 2 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	9	42



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DESIGNED BY	DRAWN BY	
CHECKED BY	DESIGNED BY	
QUANTITIES BY	DESIGNED BY	
REVISIONS BY	DESIGNED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

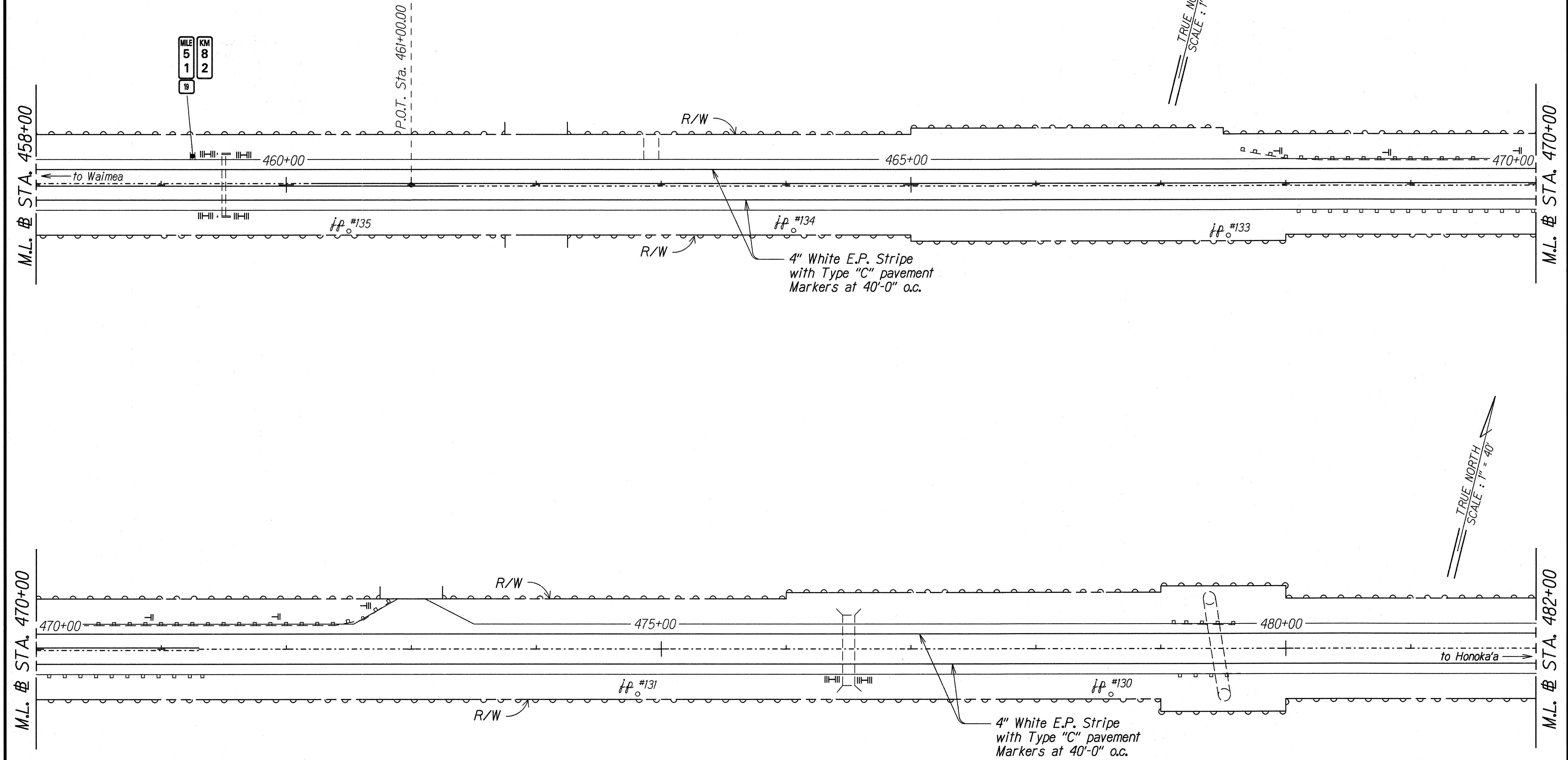
ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40' Date: April, 1997

SHEET No. 3 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	10	42



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

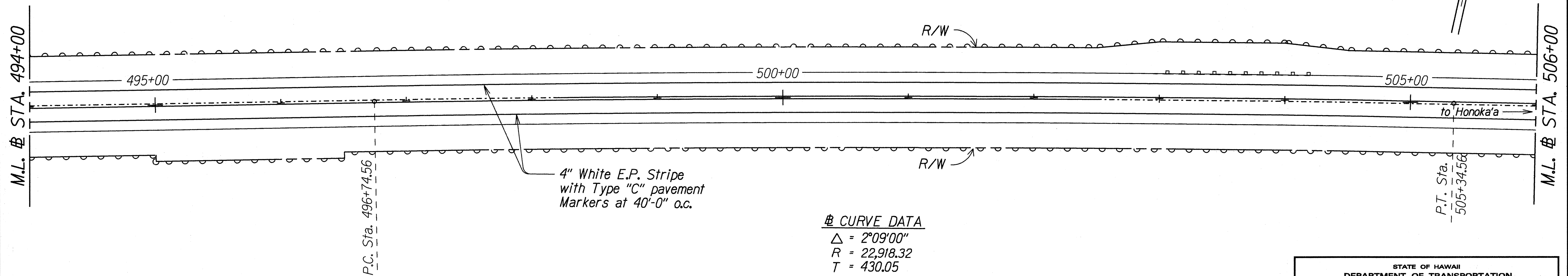
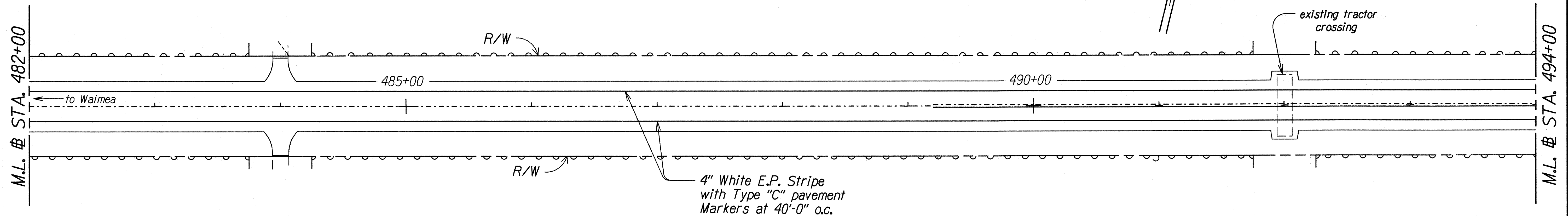
ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40' Date: April, 1997

SHEET No. 4 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	11	42



⊕ CURVE DATA
 $\Delta = 2^{\circ}09'00''$
 $R = 22,918.32$
 $T = 430.05$
 $C = 859.95$
 $L_c = 860.00$
 $S. E. = 0.015 \text{ ft/ft}$

ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DRAWN BY	
NOTE BOOK	CHECKED BY	
del. grace, jhb	QUANTITIES BY	
SA/hibrapodga	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

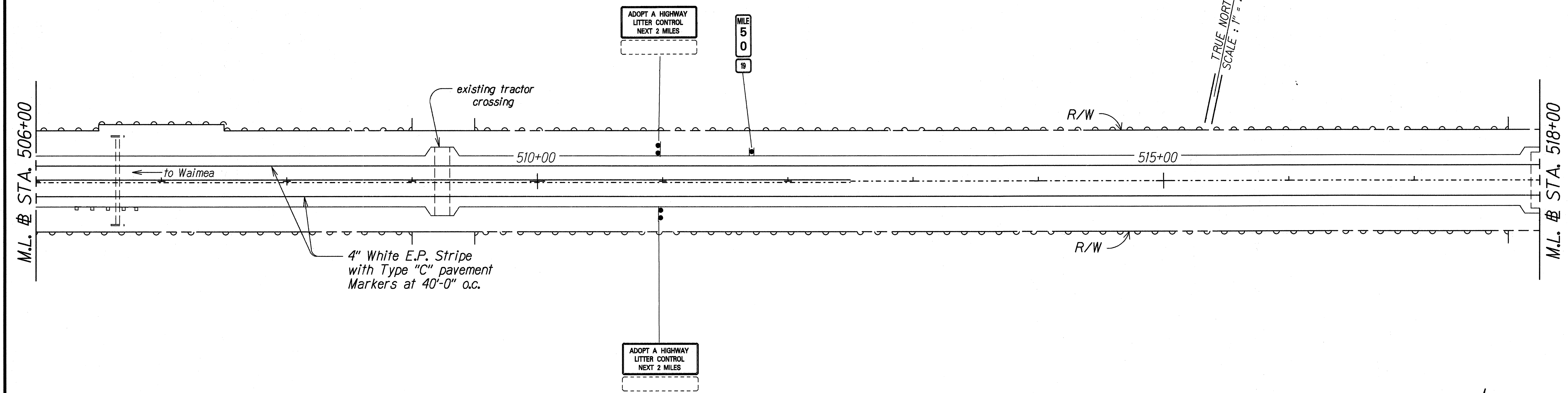
ROADWAY PLAN

HAWAI'I BELT ROAD RESURFACING
MUDLANE TO HONOKA'A
PROJECT NO. 19F-01-97M

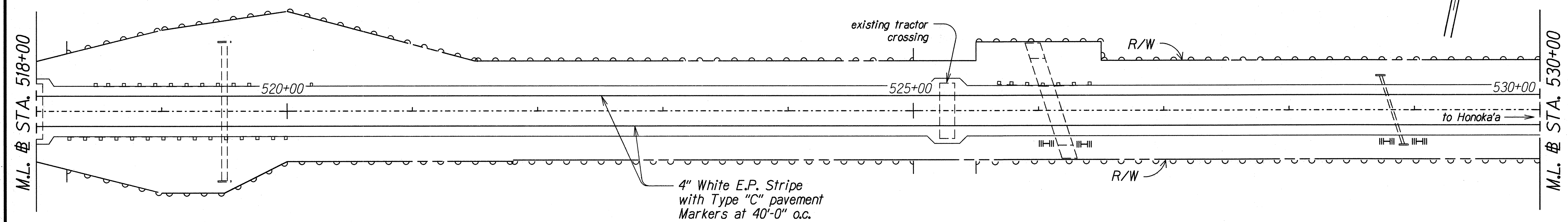
Scale: 1" = 40' Date: April, 1997

SHEET No. 5 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	12	42



Station 519+50
54" CMP, Clean Culvert
and Pave Invert. See Sheet 38



ORIGINAL PLAN	SURVEY PLATTED BY	DATE
	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	
	IN CHARGE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

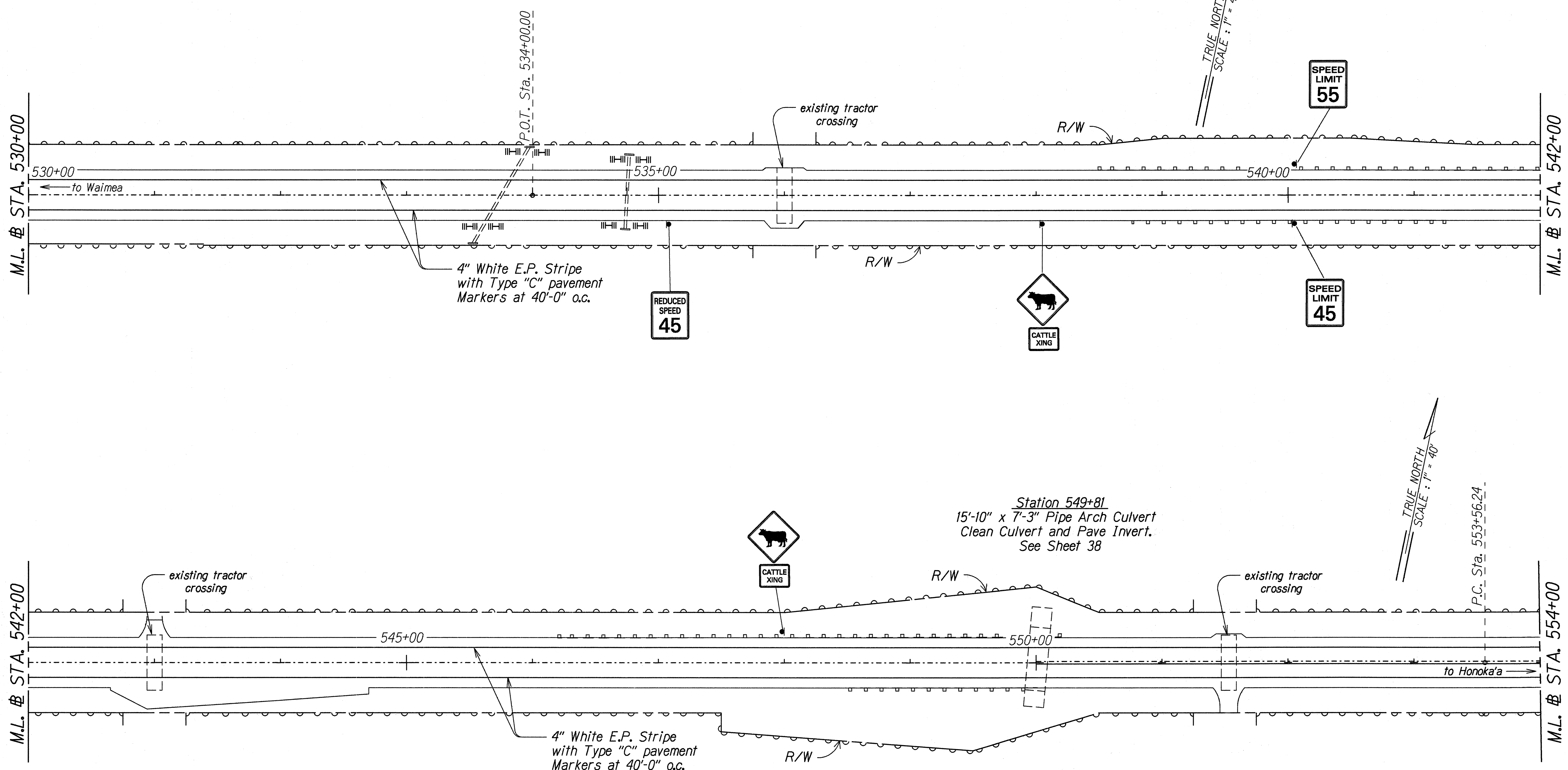
ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
SHEET No. 6 OF 21 SHEETS

Date: April, 1997

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	13	42



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTES BOOK	DRAWN BY	
delgacel/br	DESIGNED BY	
St/brap/dgn	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40' Date: April, 1997

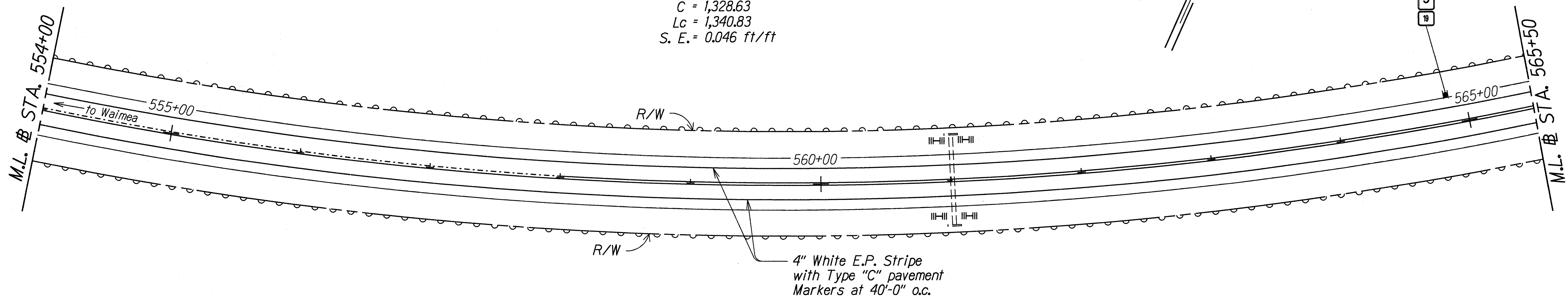
SHEET No. 7 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	14	42

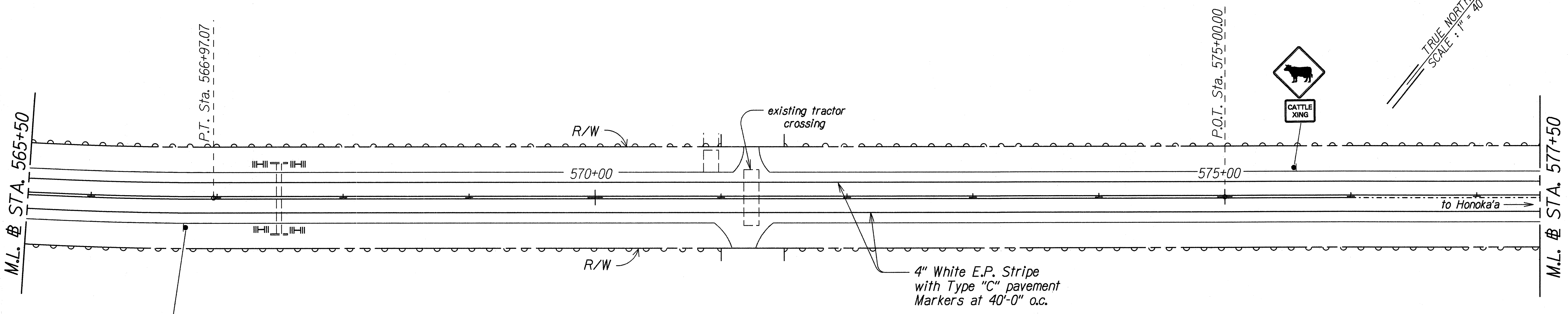
⊕ CURVE DATA

$\Delta = 26^{\circ}49'00''$
 $R = 2,864.79$
 $T = 682.93$
 $C = 1,328.63$
 $L_c = 1,340.83$
 $S. E. = 0.046 \text{ ft/ft}$

TRUE NORTH
 SCALE: 1" = 40'



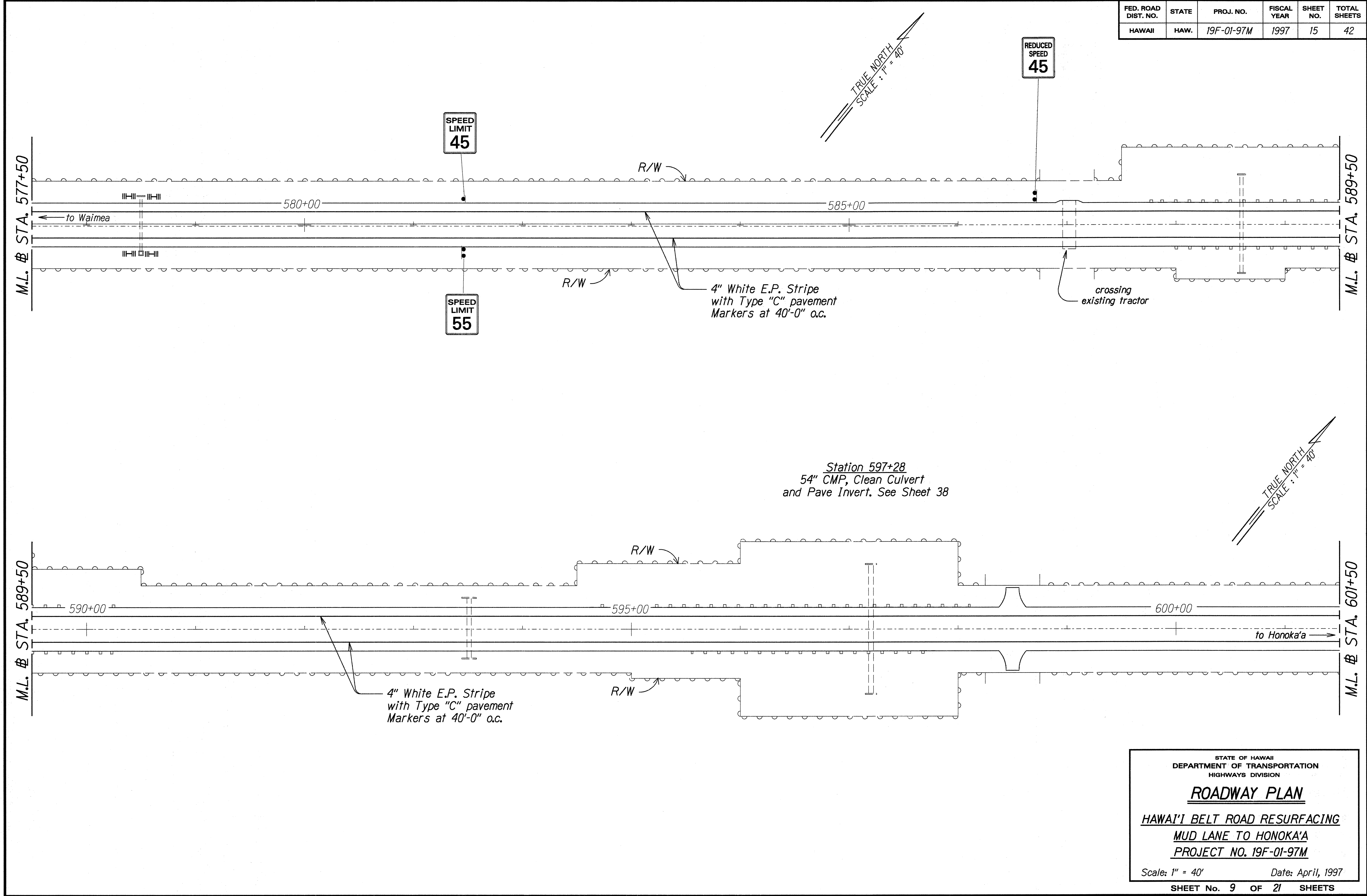
TRUE NORTH
 SCALE: 1" = 40'



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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
ROADWAY PLAN
 HAWAII BELT ROAD RESURFACING
 MUD LANE TO HONOKA'A
 PROJECT NO. 19F-01-97M
 Scale: 1" = 40' Date: April, 1997
 SHEET No. 8 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	15	42



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED	DRAWN BY	
DESIGNED BY	TRACED BY	
QUANTITIES BY	CHECKED BY	
for approval		

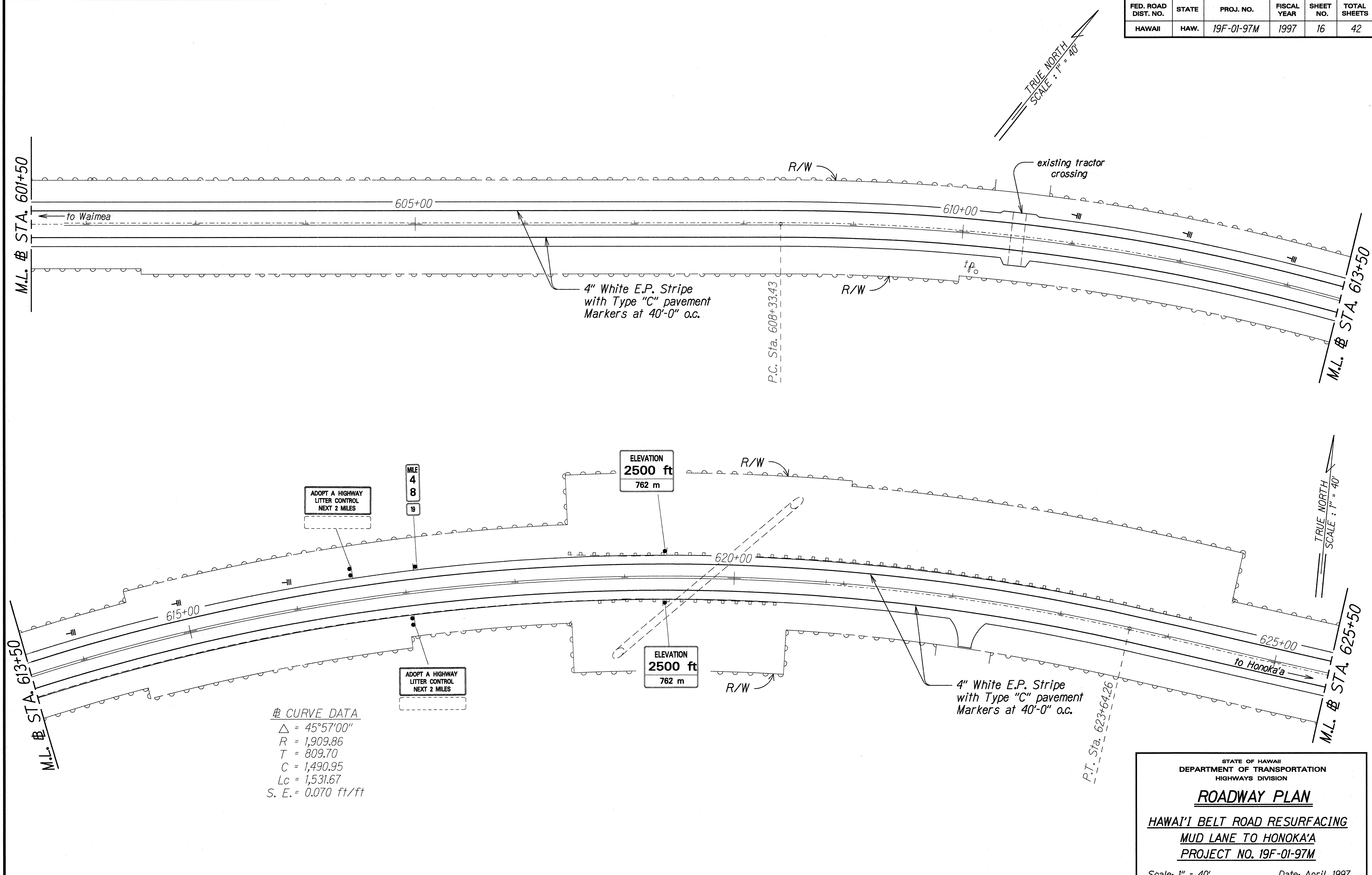
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997

SHEET No. 9 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	16	42



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

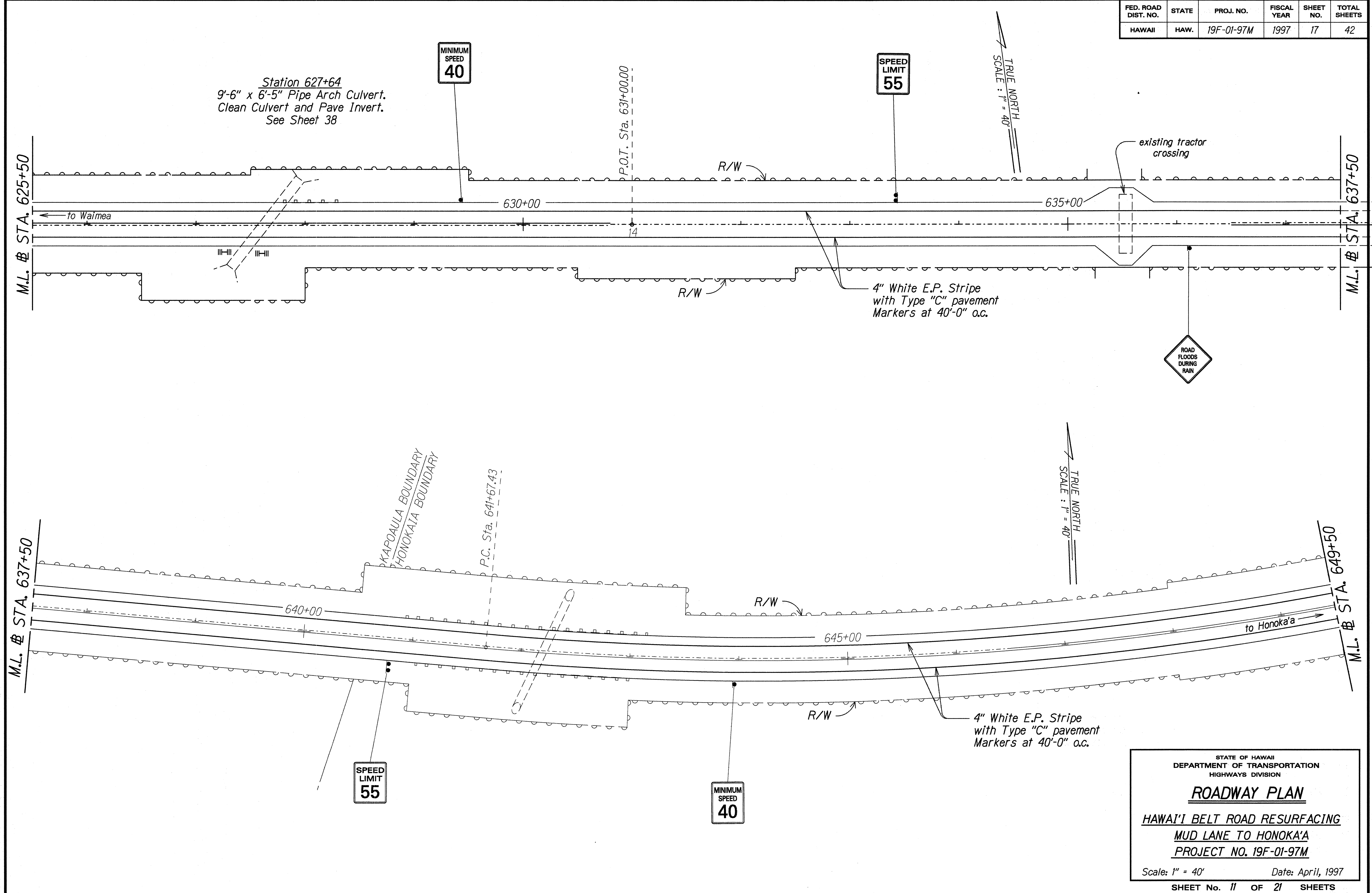
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997
SHEET No. 10 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	17	42



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

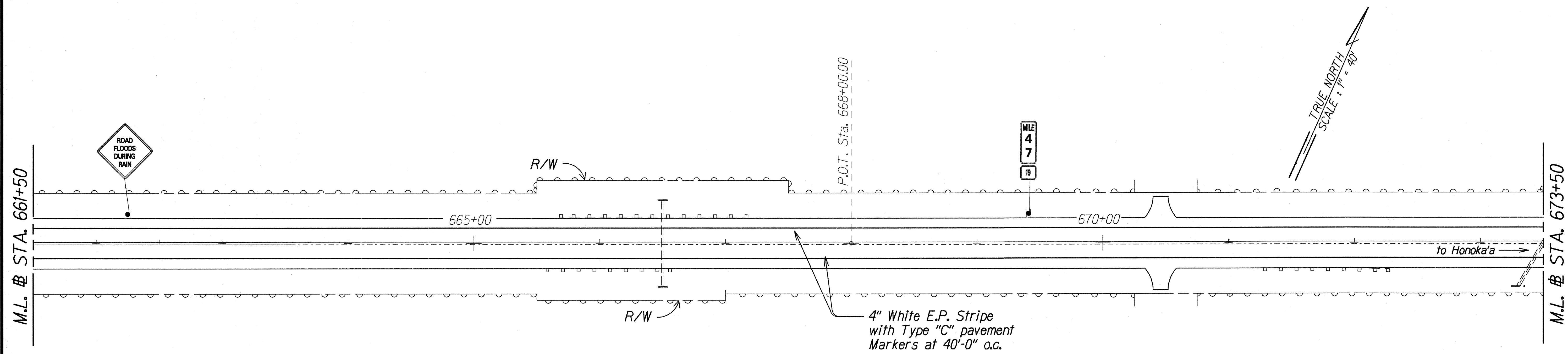
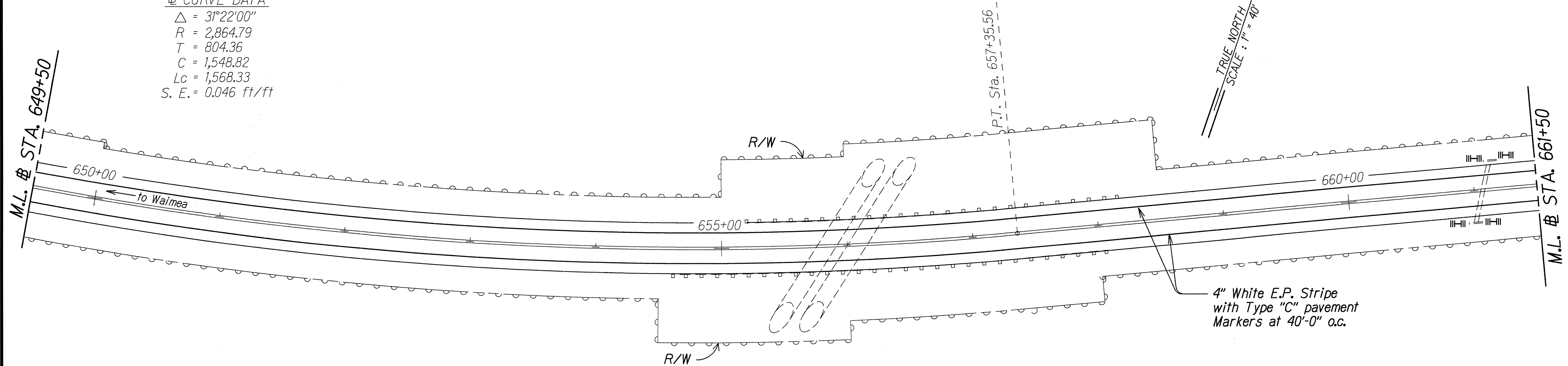
ROADWAY PLAN
HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997

SHEET No. 11 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	18	42

@ CURVE DATA
 $\Delta = 31^{\circ}22'00''$
 $R = 2,864.79$
 $T = 804.36$
 $C = 1,548.82$
 $Lc = 1,568.33$
 $S. E. = 0.046 \text{ ft/ft}$



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

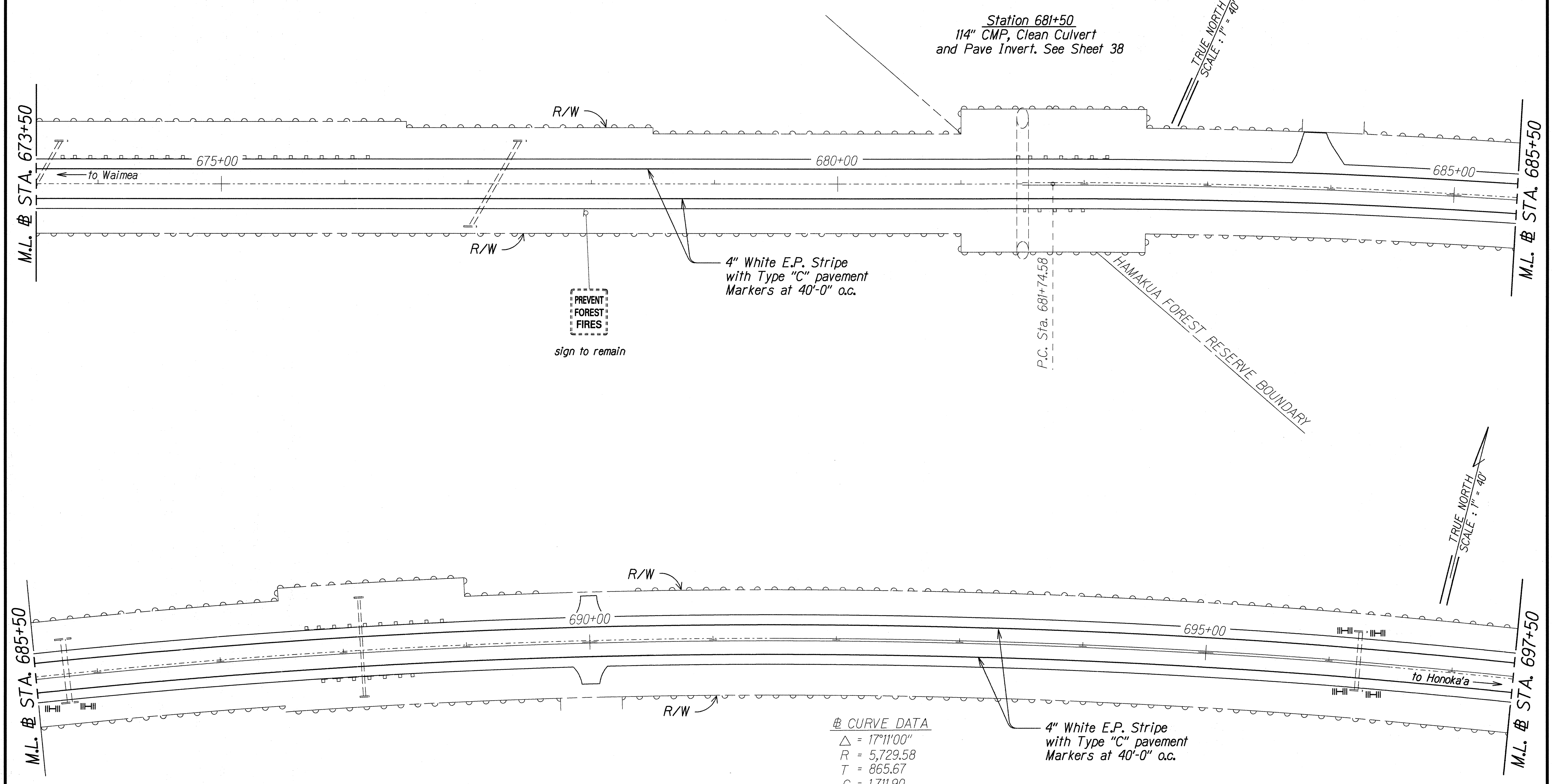
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997

SHEET No. 12 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	19	42



@ CURVE DATA
 $\Delta = 17^\circ 11' 00''$
 $R = 5,729.58$
 $T = 865.67$
 $C = 1,711.90$
 $Lc = 1,718.33$
 $S. E. = 0.022 \text{ ft/ft}$

ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTES	DRAWN BY	
DESIGNED BY		
CHECKED BY		
APPROVED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

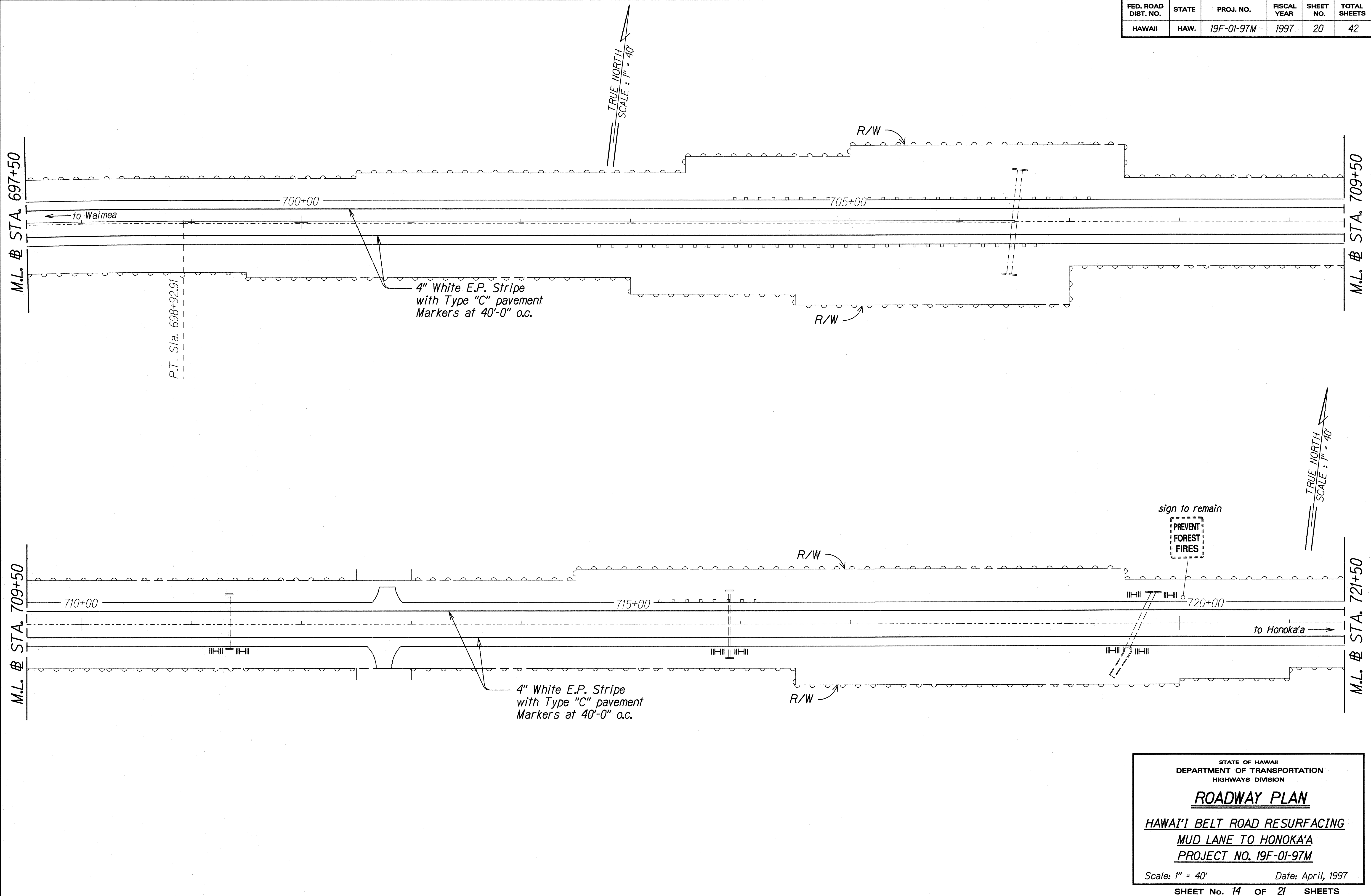
ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40' Date: April, 1997

SHEET No. 13 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	20	42



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
ddlg/ace/jbr	DESIGNED BY	
hbreph4/dgt	CHECKED BY	
SK		

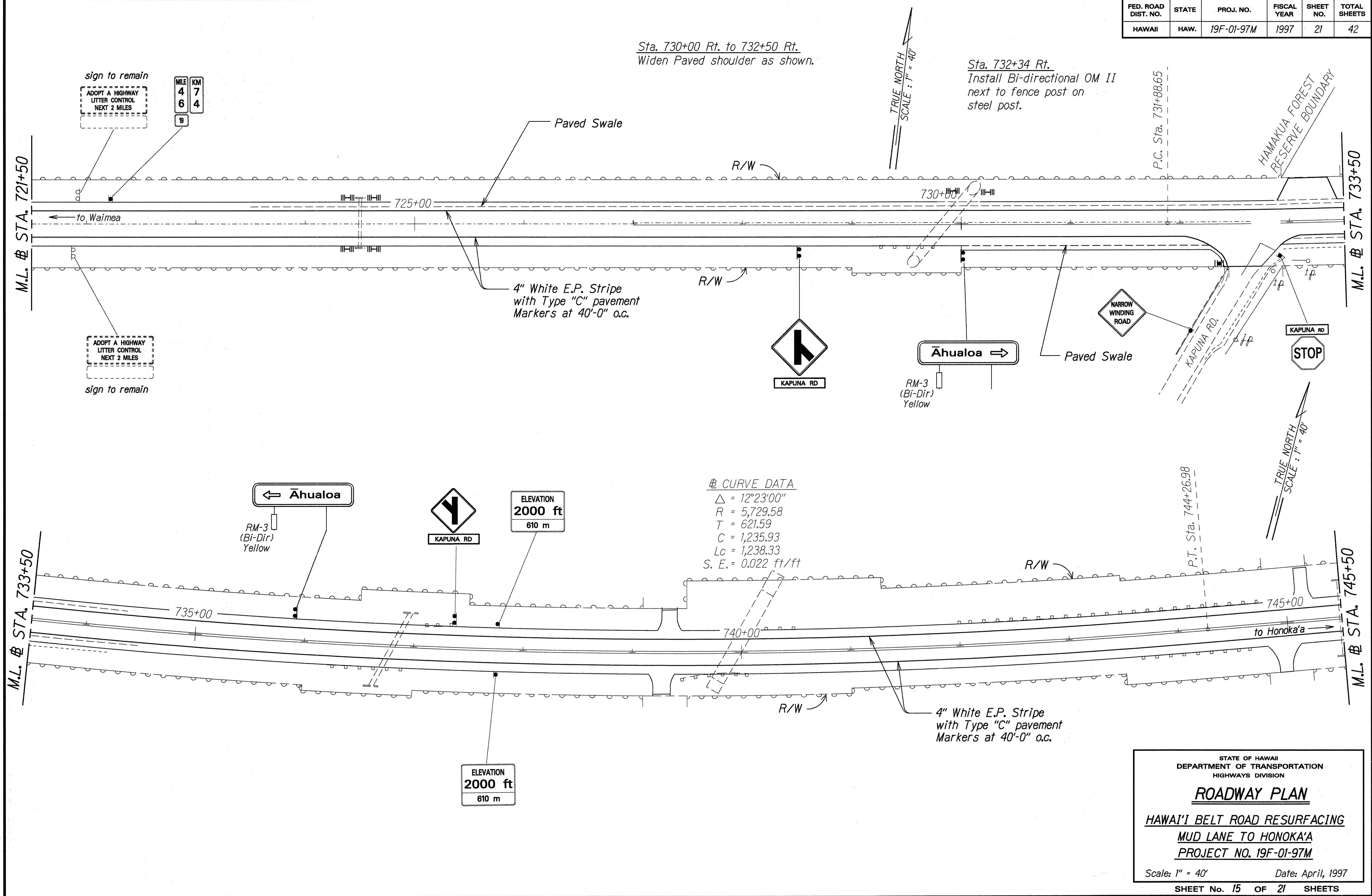
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997

SHEET No. 14 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	21	42



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

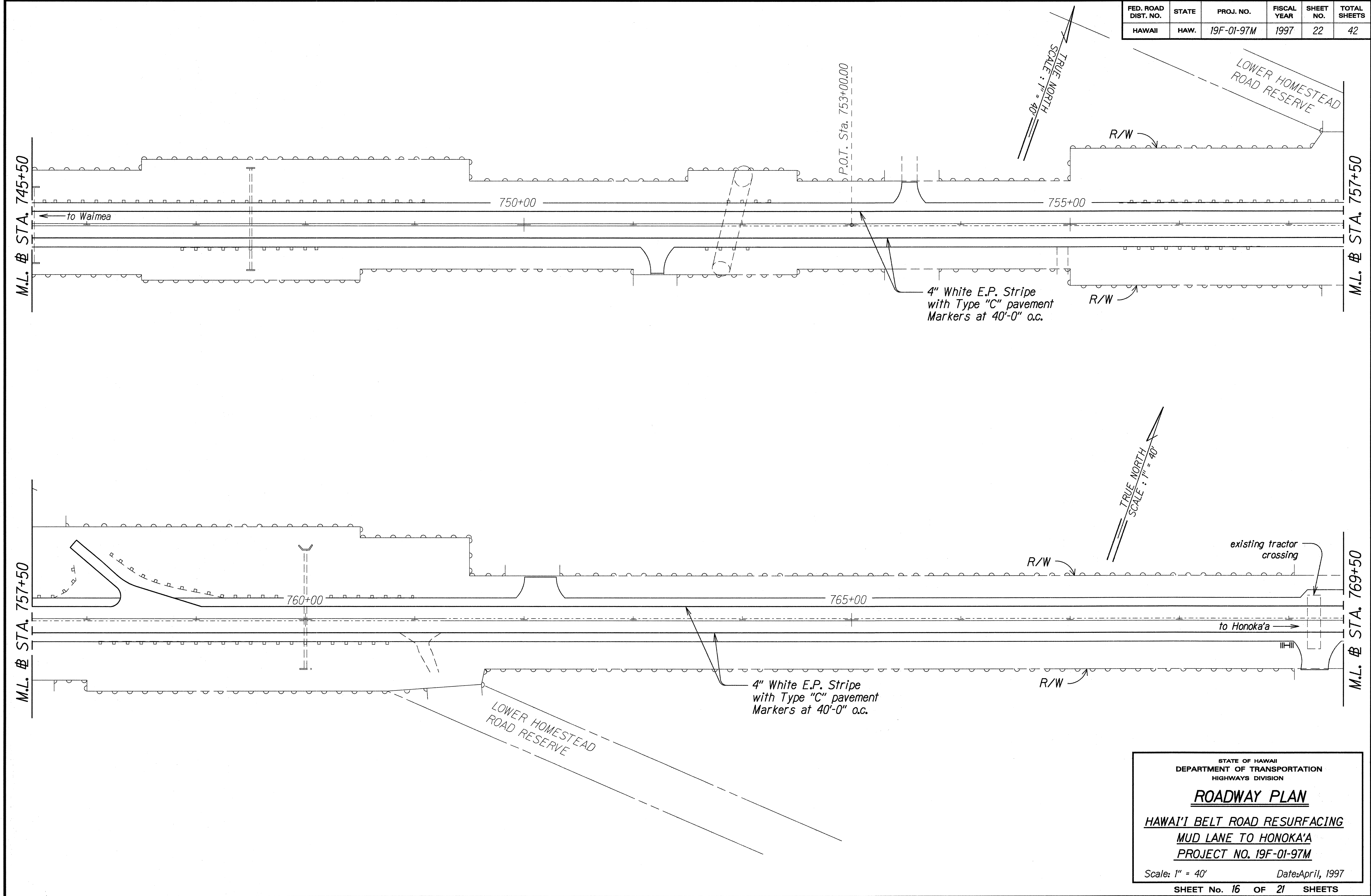
ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
SHEET No. 15 OF 21 SHEETS

Date: April, 1997

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	22	42



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

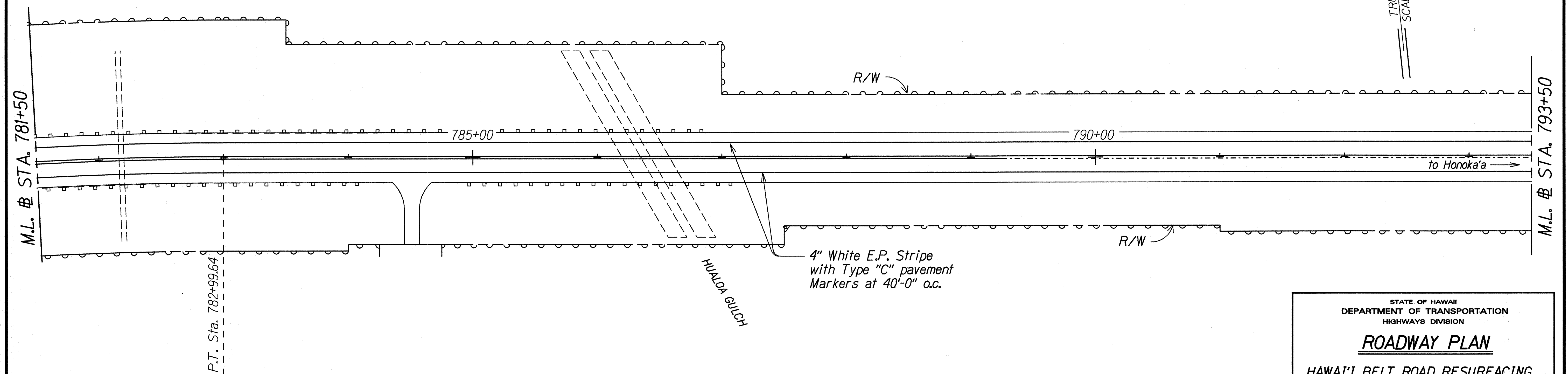
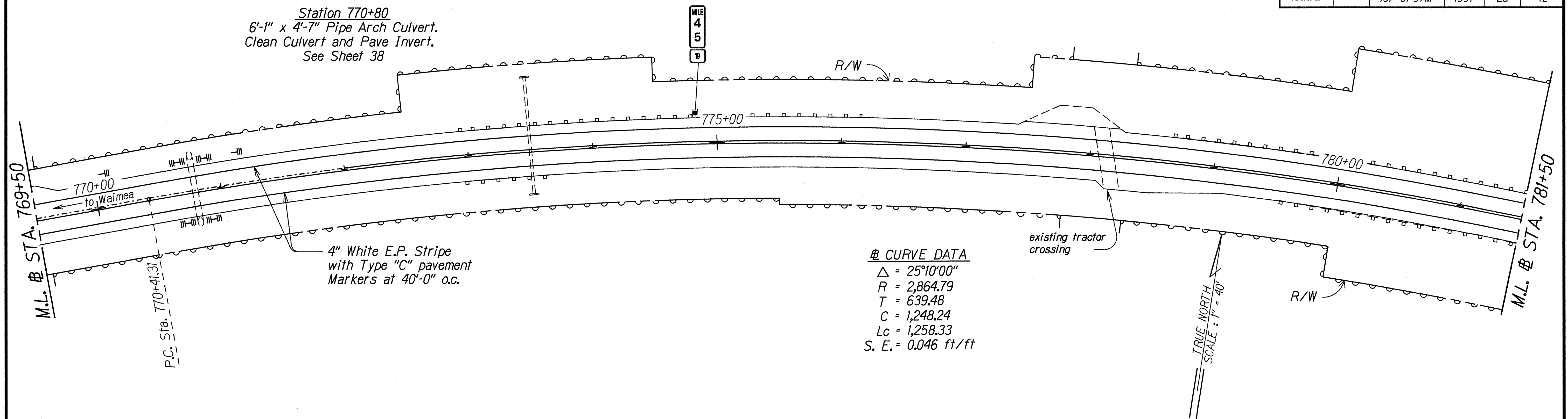
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997

SHEET No. 16 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	23	42



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

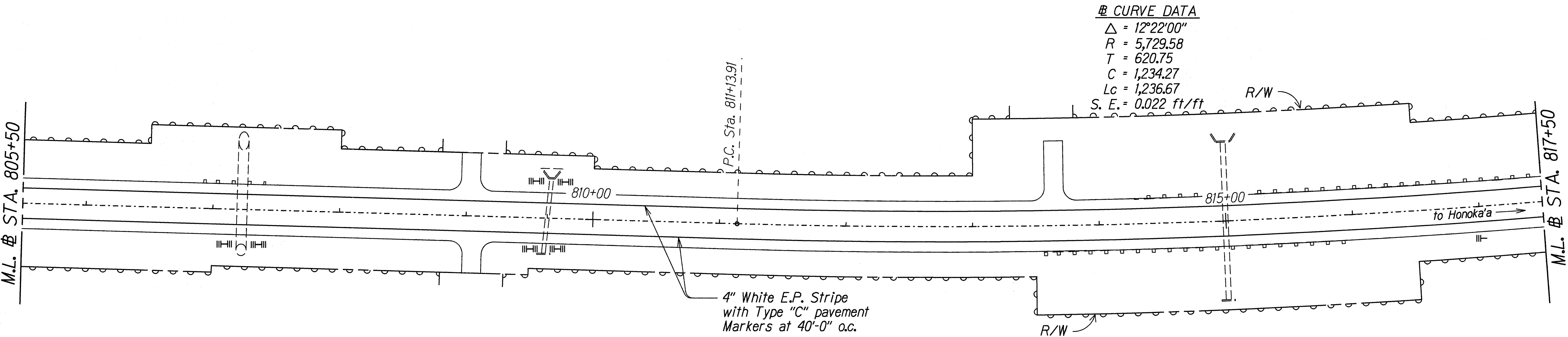
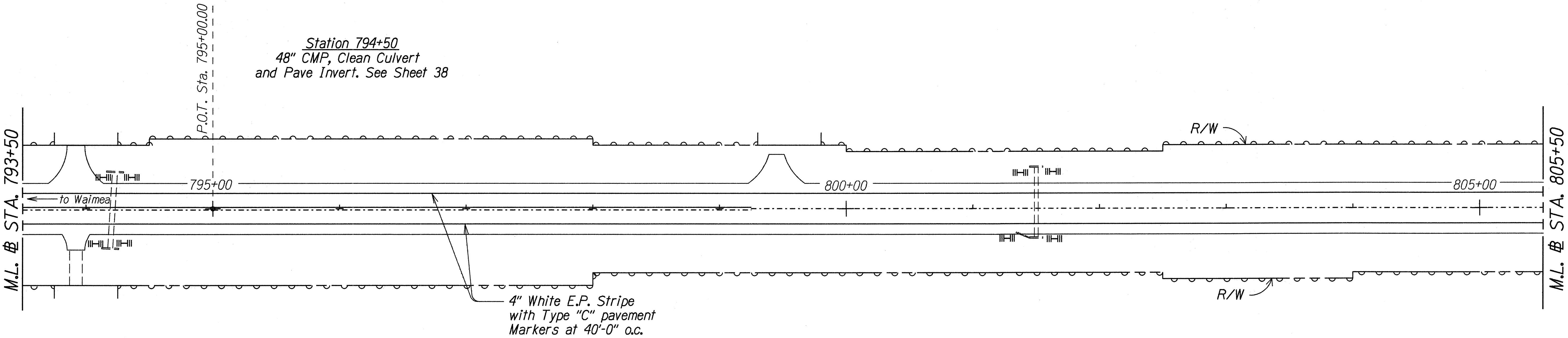
ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40' Date: April, 1997

SHEET No. 17 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	24	42



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BOOK	DRAWN BY	
40' Grade	DESIGNED BY	
40' Grade	CHECKED BY	
40' Grade	QUANTITIES BY	
40' Grade	REVISIONS BY	

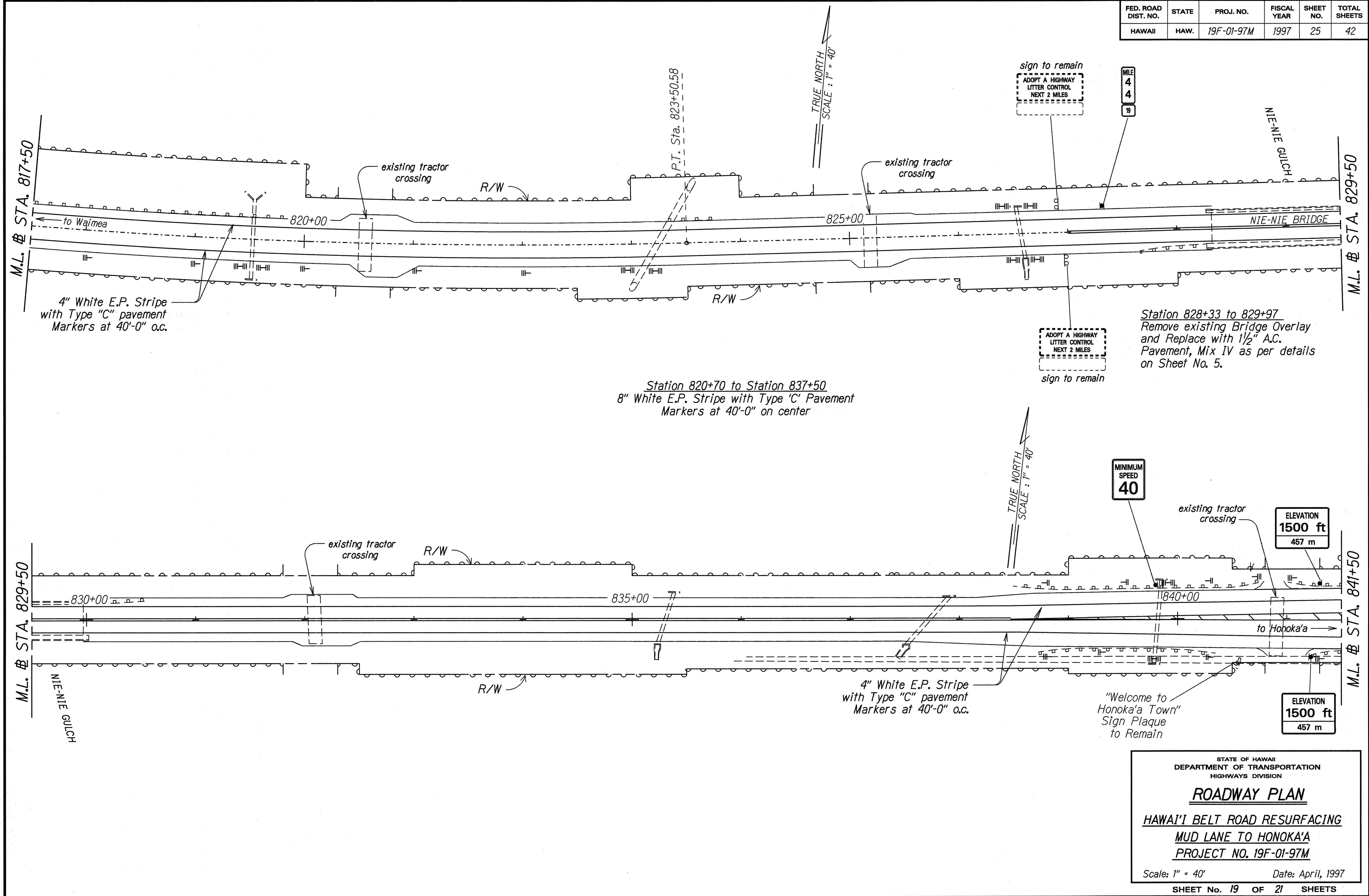
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997

SHEET No. 18 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	25	42



ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTED	DRAWN BY	
DESIGNED BY		
QUANTITIES BY		
CHECKED BY		

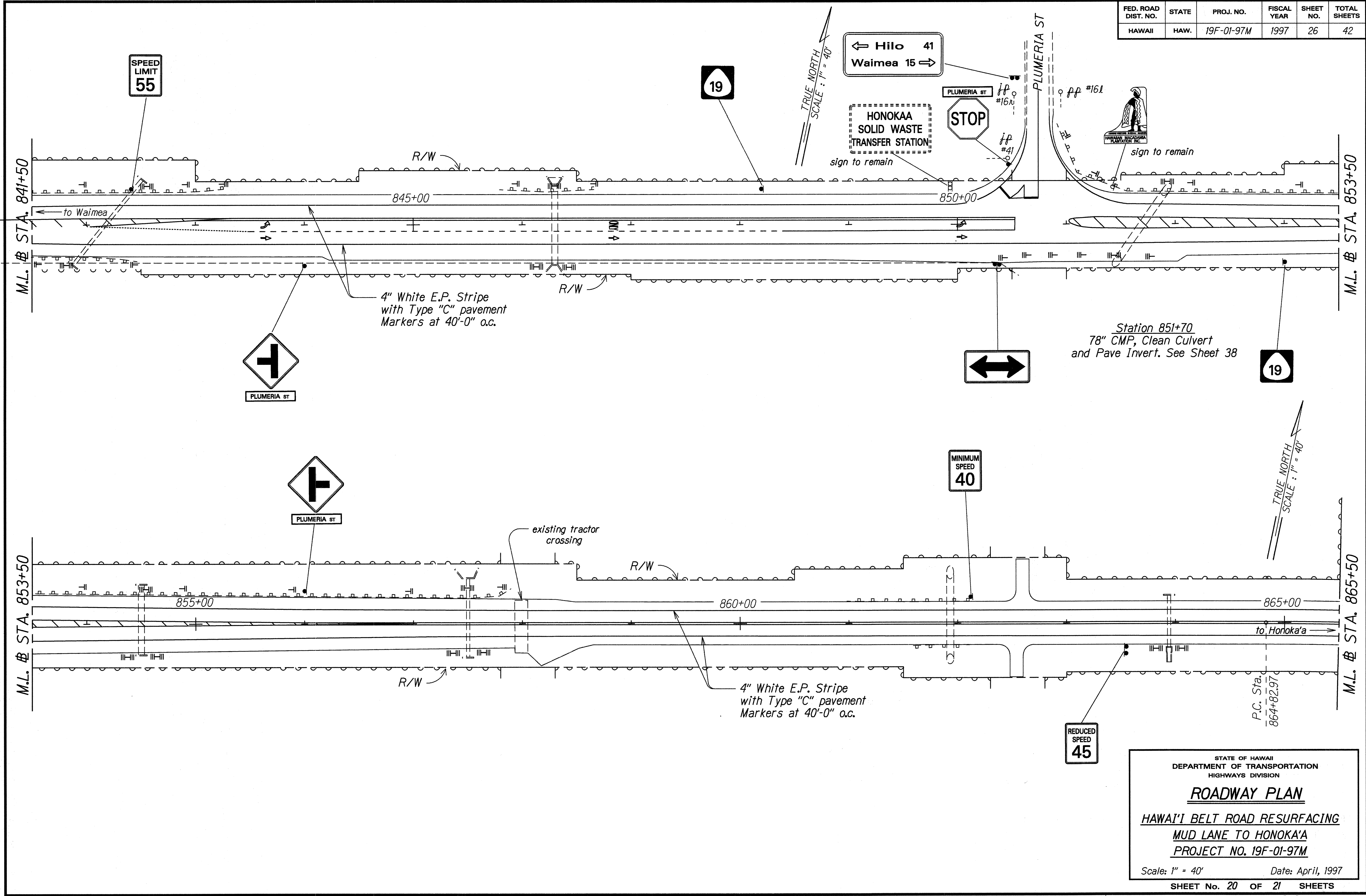
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN
HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997

SHEET No. 19 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	26	42



ORIGINAL PLAN	SURVEY PLANNED BY	DATE
DESIGNED BY	DRAWN BY	
CHECKED BY	DESIGNED BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

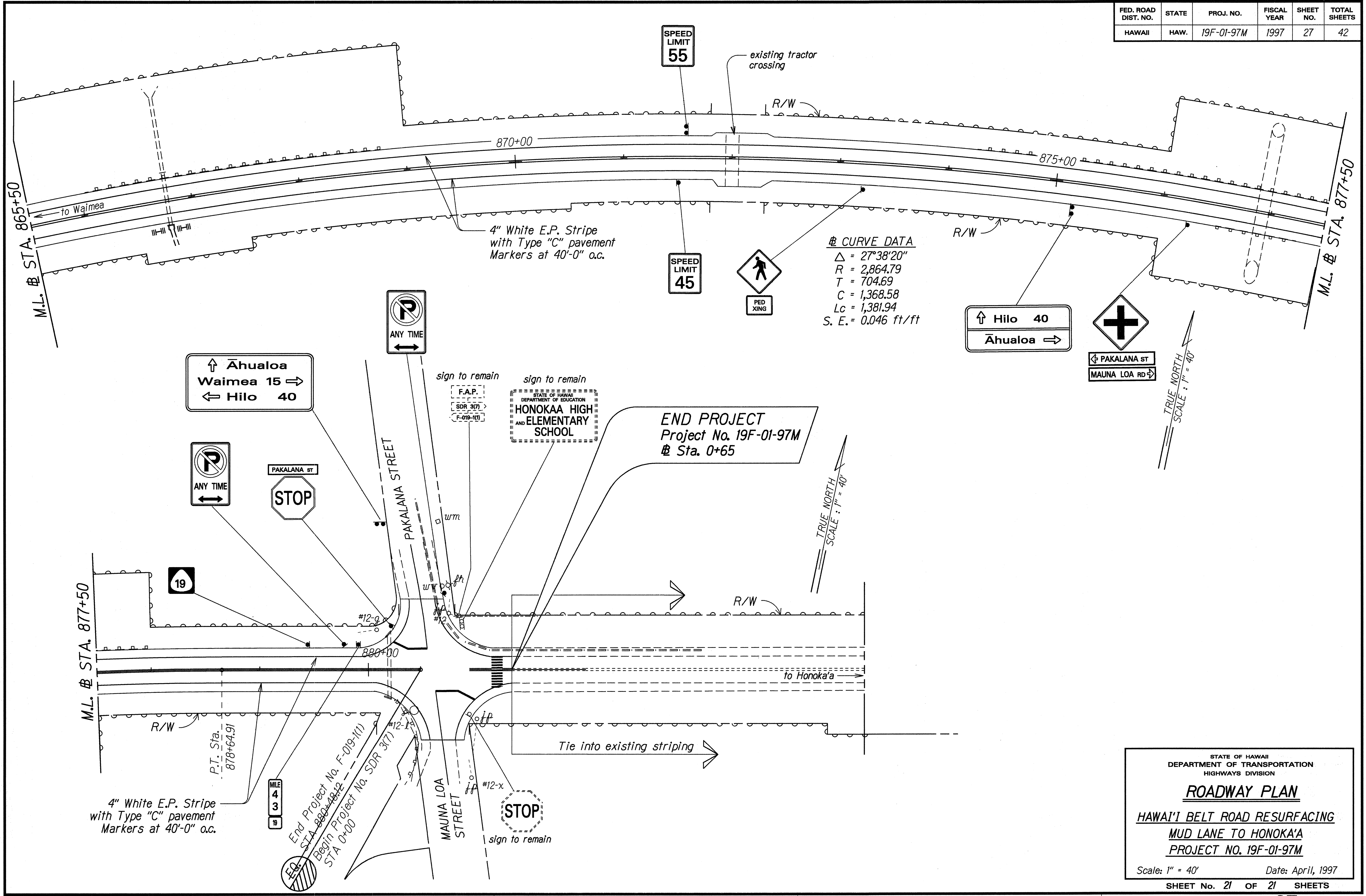
ROADWAY PLAN

HAWAII'I BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40'
Date: April, 1997

SHEET No. 20 OF 21 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	19F-01-97M	1997	27	42



ORIGINAL	SURVEY	DATE
PLAN	DRAWN BY	
BOOK	DESIGNED BY	
ADD	QUANTITIES BY	
DATE	REVISION BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ROADWAY PLAN

HAWAII BELT ROAD RESURFACING
MUD LANE TO HONOKA'A
PROJECT NO. 19F-01-97M

Scale: 1" = 40' Date: April, 1997

SHEET No. 27 OF 42 SHEETS