

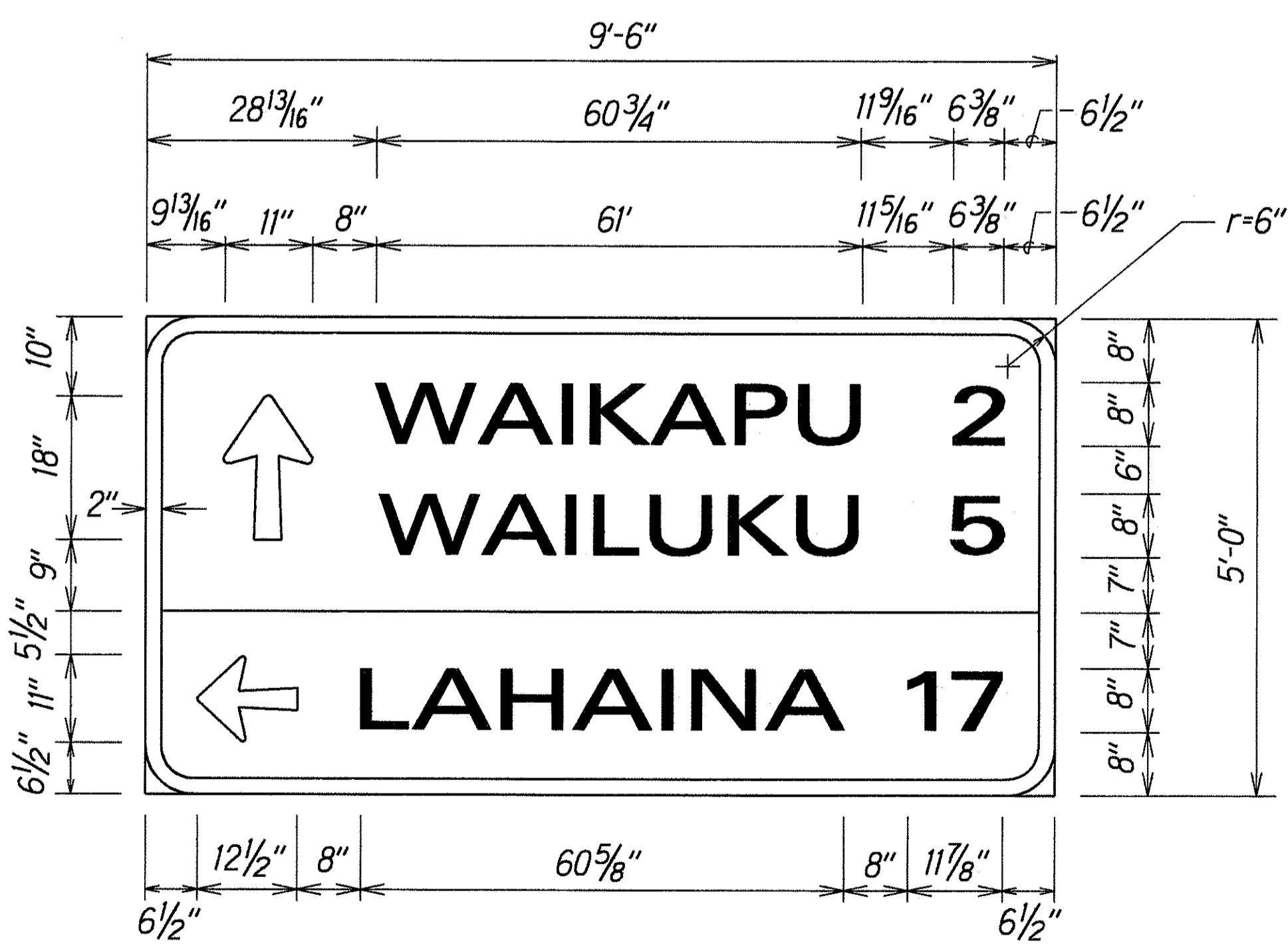
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	310A-01-00M	2000	6	16

LEGEND

- 4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'-0" o.c.
- 4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
- 8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
- 4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)
- Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)
- Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)
- Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)
- Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)
- Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)
- Pavement Word (Tape, Type III or Thermoplastic Extrusion)
- 4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
- 4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
- Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all signs shall be approved by the Engineer prior to any installation work.
5. Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
6. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
7. All pavement striping shall be as noted on the legend or plans.
8. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.

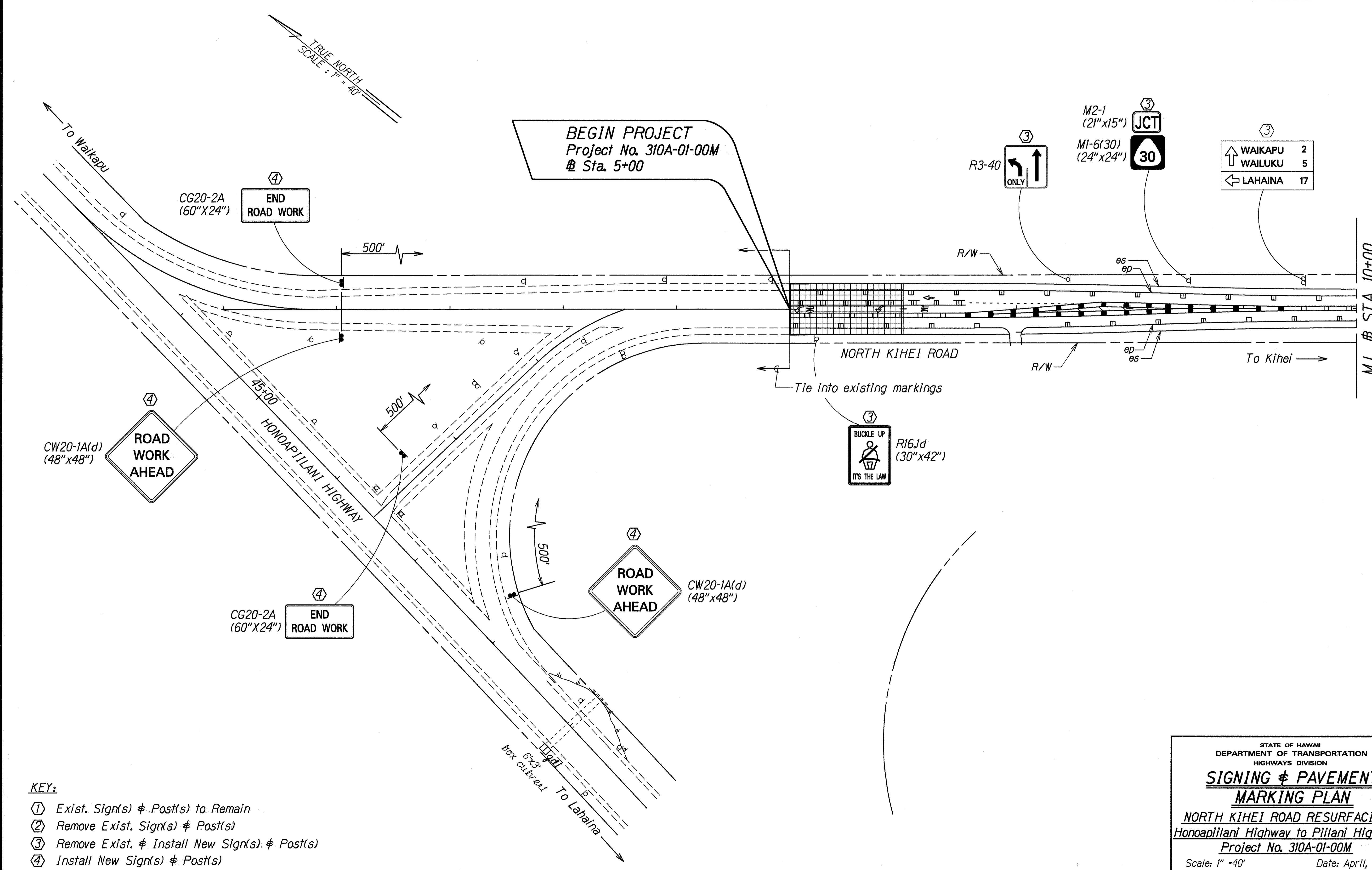


SIGN D-1
Scale: 3/4" = 1'-0"
Use: 2-Post (2 1/2" - Inch Square Post)

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	April, 00
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
10/11/00	
10/11/00	
10/11/00	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAVEMENT MARKING
LEGEND, DETAILS & NOTES
NORTH KIHEI ROAD RESURFACING
Honoapiilani Highway to Piilani Highway
Project No. 310A-01-00M
Scale: As Noted Date: April, 2000
SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	310A-01-00M	2000	7	16



- 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	APRIL 00
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
LOG IN	
REVISIONS	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

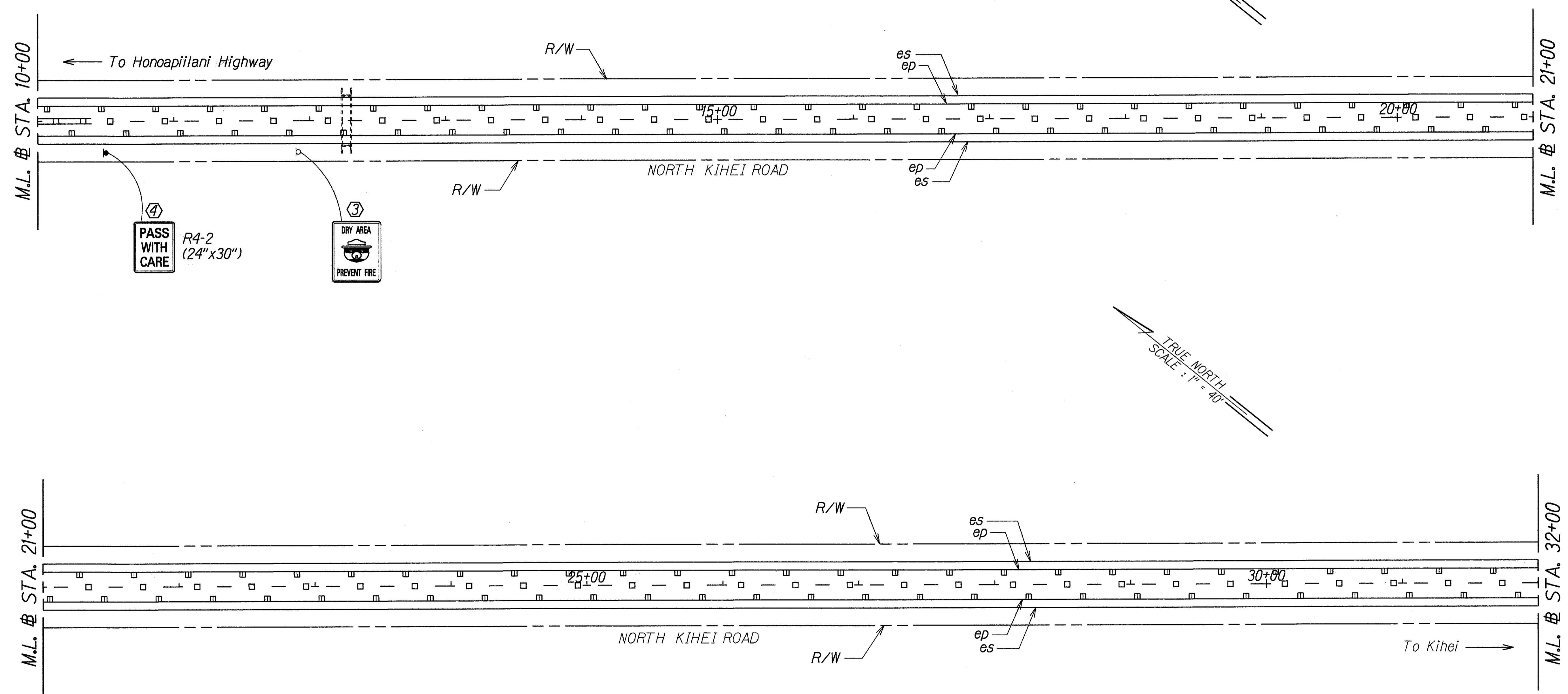
**SIGNING & PAVEMENT
MARKING PLAN**

NORTH KIHEI ROAD RESURFACING
Honoapiilani Highway to Piilani Highway
Project No. 310A-01-00M

Scale: 1" = 40' Date: April, 2000

SHEET No. 1 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	310A-01-00M	2000	8	16



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

- 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)
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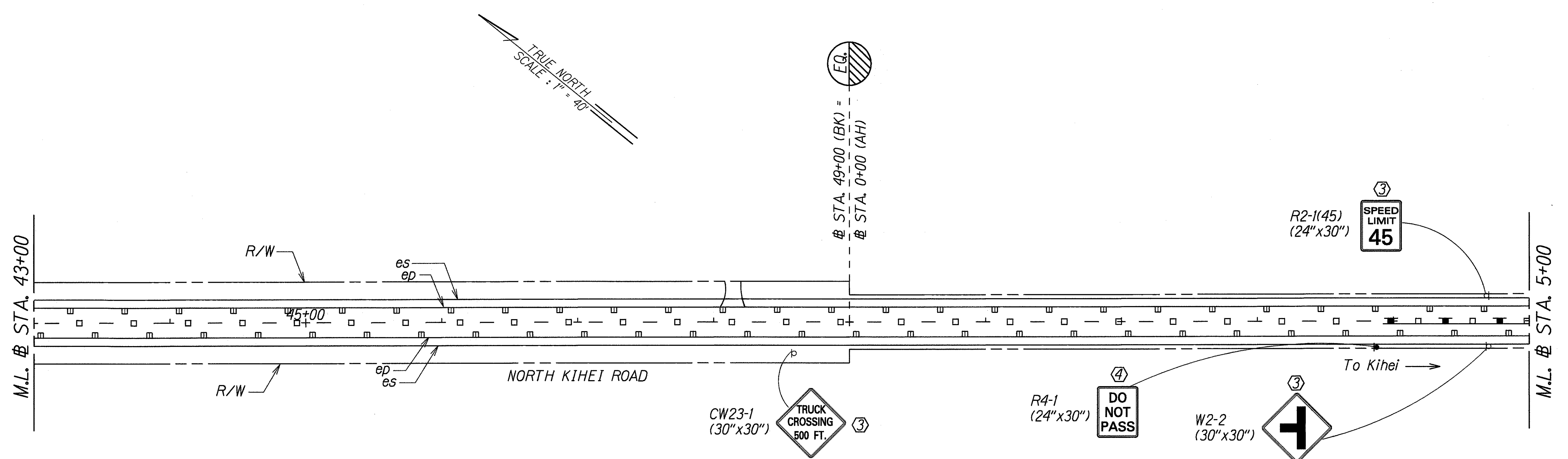
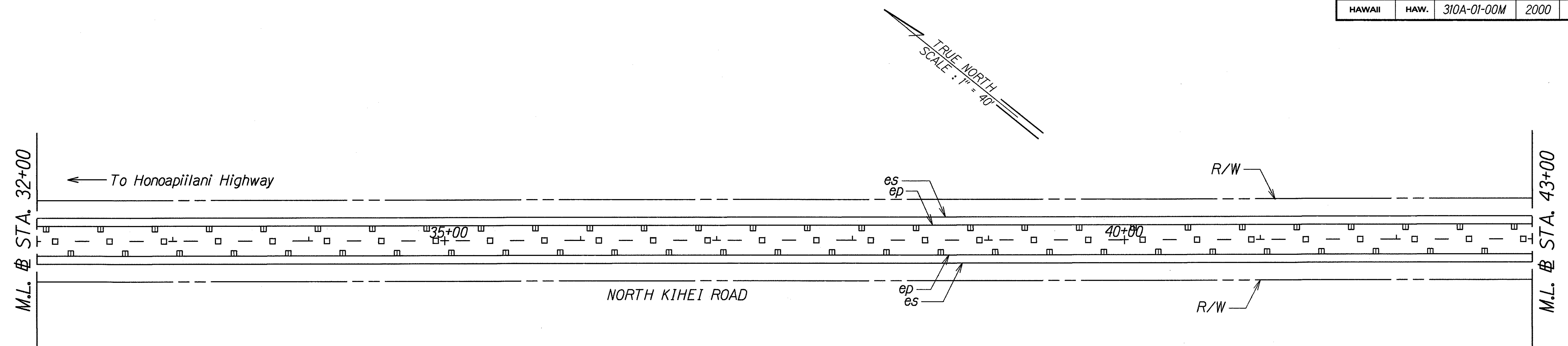
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**SIGNING & PAVEMENT
MARKING PLAN**

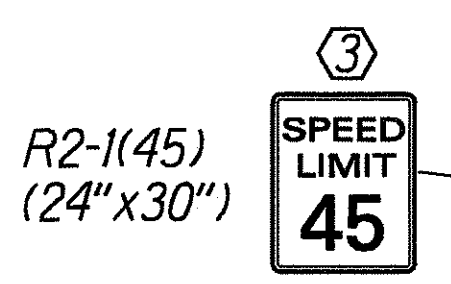
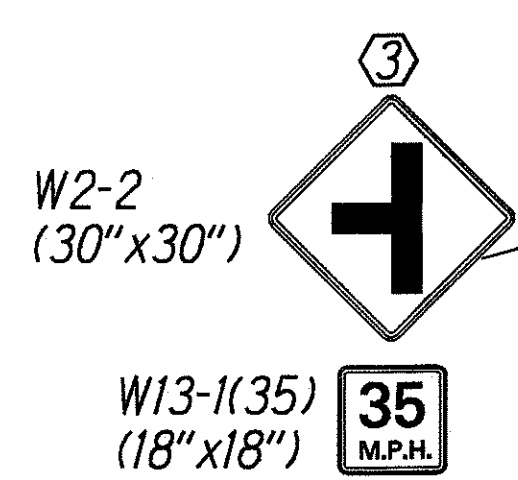
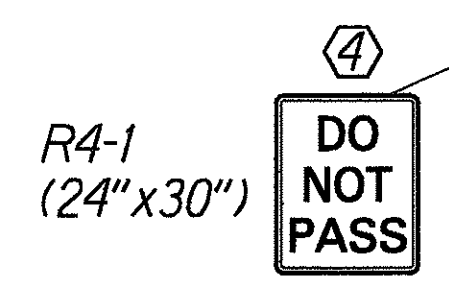
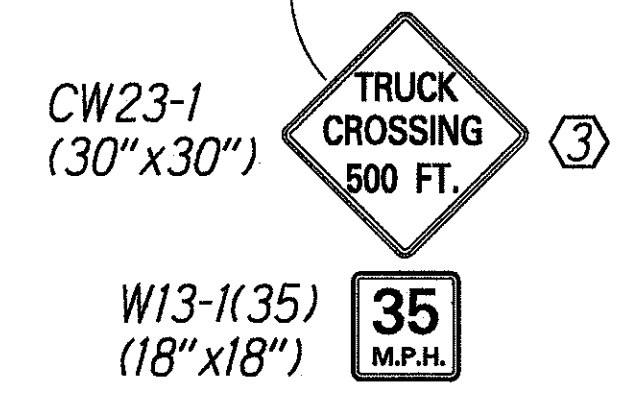
NORTH KIHEI ROAD RESURFACING
Honoapiilani Highway to Piilani Highway
Project No. 310A-01-00M

Scale: 1" = 40' Date: April, 2000

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	310A-01-00M	2000	9	16



ORIGINAL PLAN	DATE	ADJL 00
SURVEY PLOTTED BY		
DRAWN BY		
TRACED BY		
NOTES PREPARED 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)
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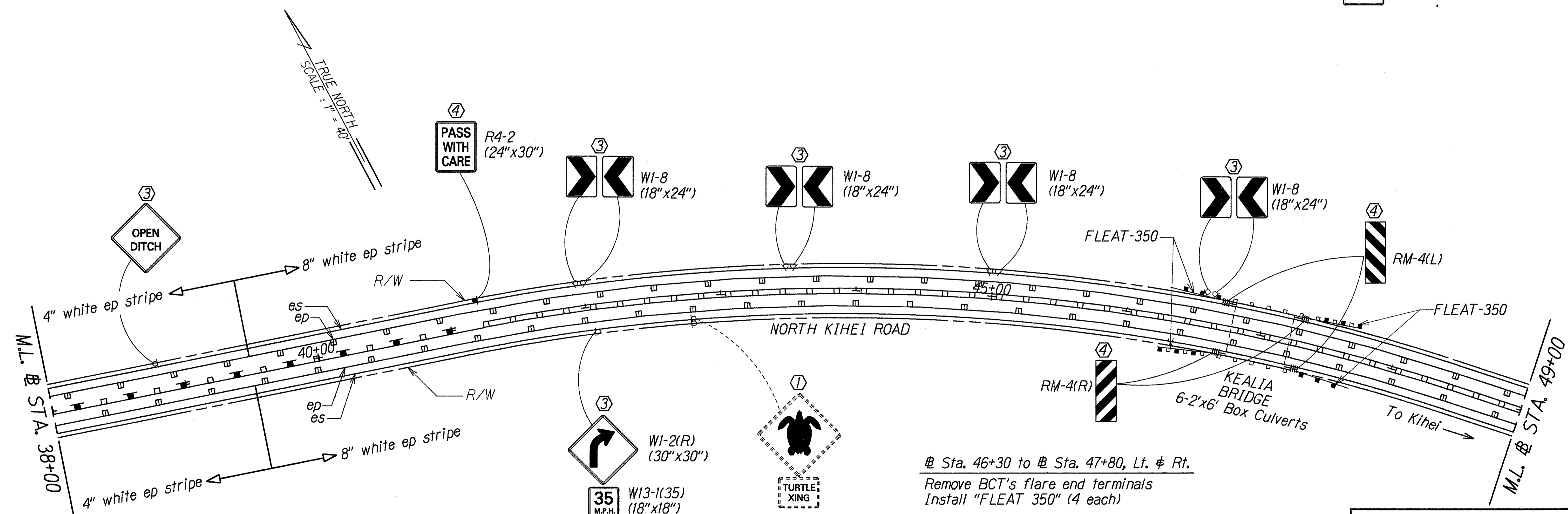
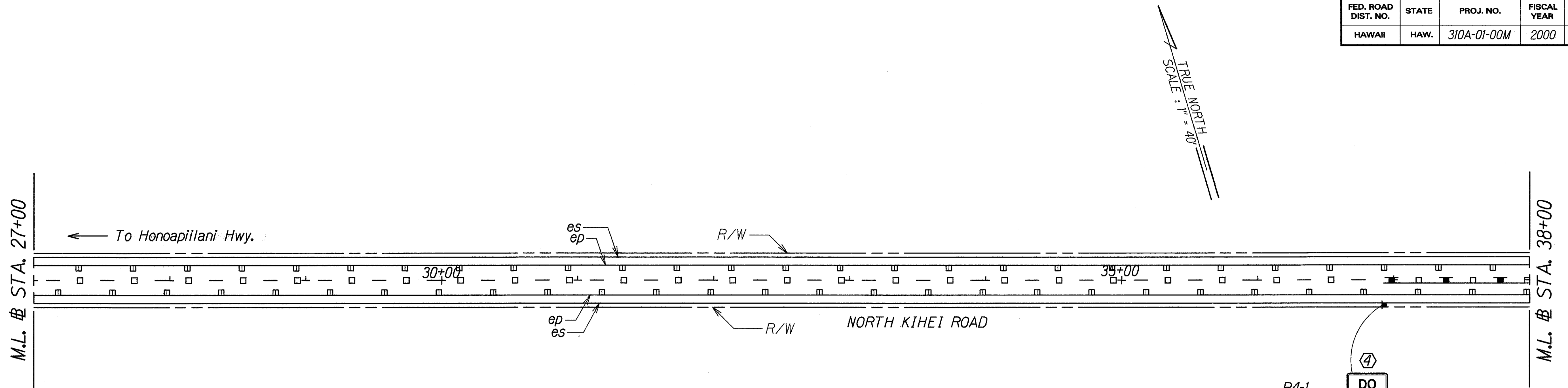
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**SIGNING & PAVEMENT
MARKING PLAN**

*NORTH KIHEI ROAD RESURFACING
Honoapiilani Highway to Piilani Highway
Project No. 310A-01-00M*

Scale: 1" = 40' Date: April, 2000

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	310A-01-00M	2000	11	16



Sta. 46+30 to Sta. 47+80, Lt. & Rt.
 Remove BCT's flare end terminals
 Install "FLEAT 350" (4 each)

- 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)

ORIGINAL PLAN	DATE: APRIL 00
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

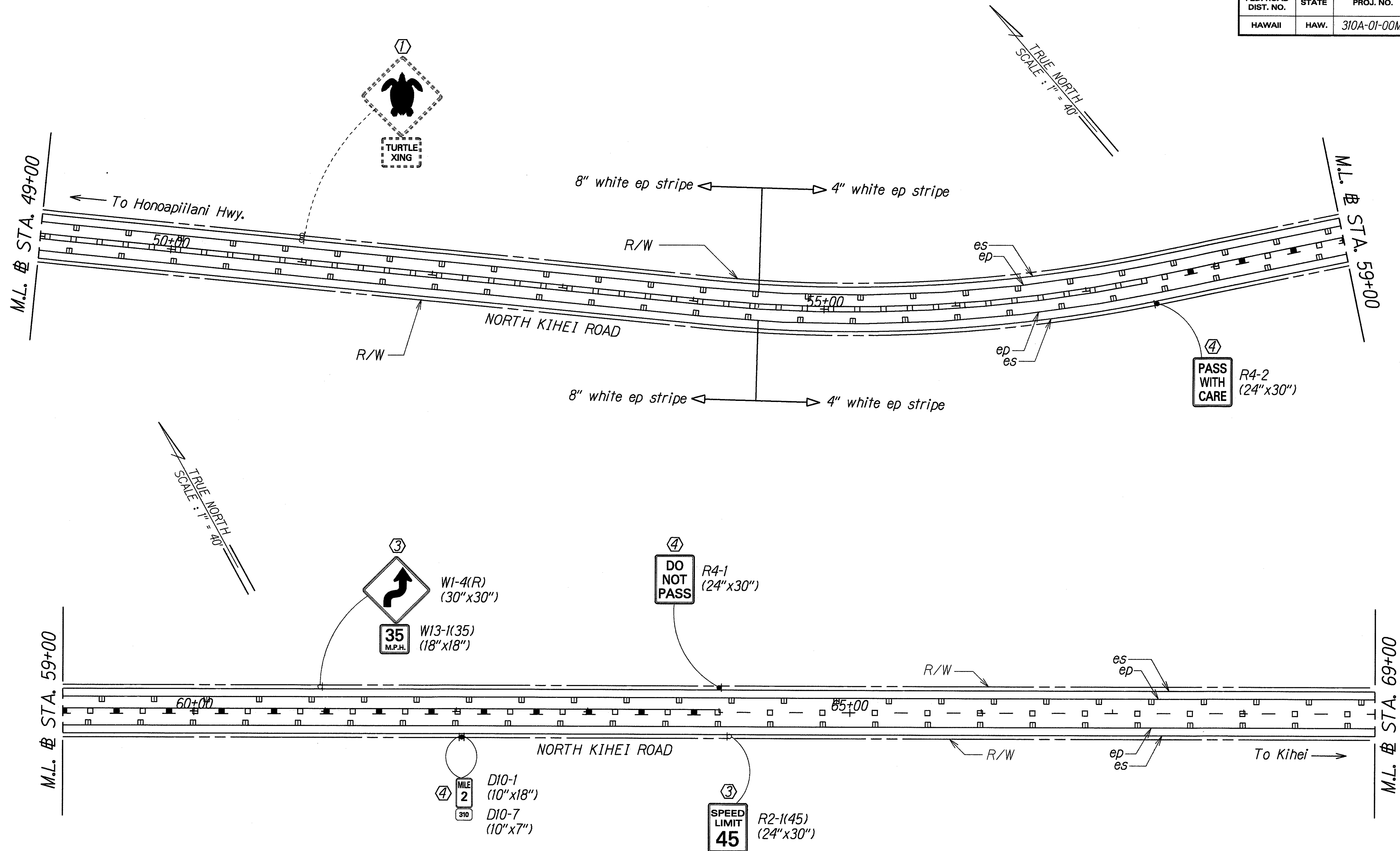
**SIGNING & PAVEMENT
 MARKING PLAN**

NORTH KIHEI ROAD RESURFACING
 Honoapiilani Highway to Piilani Highway
 Project No. 310A-01-00M

Scale: 1" = 40' Date: April, 2000

SHEET No. 5 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	310A-01-00M	2000	12	16



SURVEY PLOTTED BY	DATE
DRAWN BY	APRIL 00
DESIGNED BY	
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**

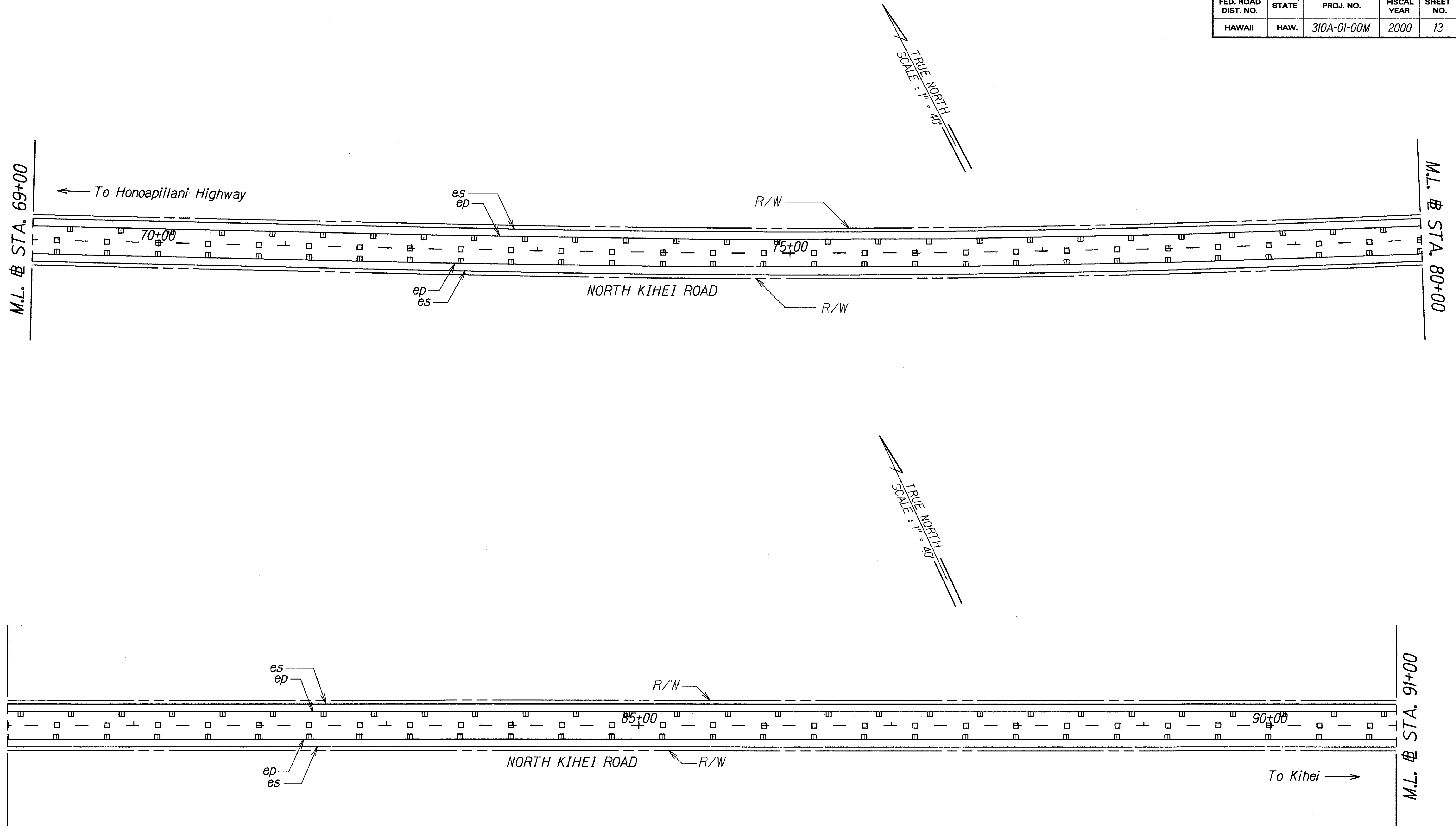
**NORTH KIHAI ROAD RESURFACING
Honoapiilani Highway to Pilihi Highway**

Project No. 310A-01-00M

Scale: 1" = 40' Date: April, 2000

SHEET No. 6 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	310A-01-00M	2000	13	16



ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	04/21/00
DRAWN BY	
CHECKED BY	
NOTE BOOK	
LOGS BY	
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

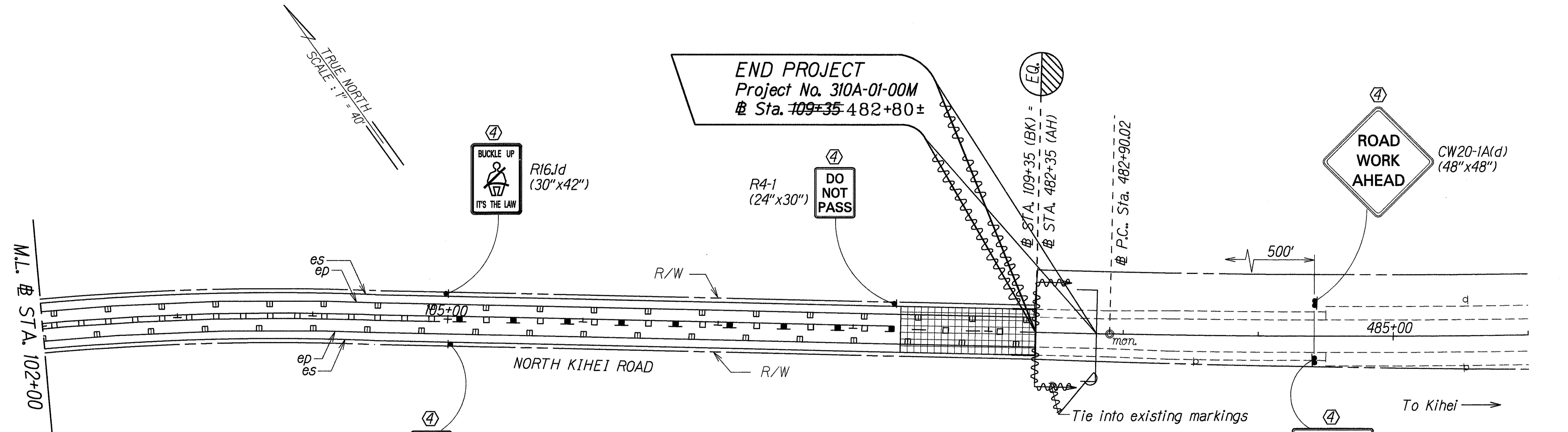
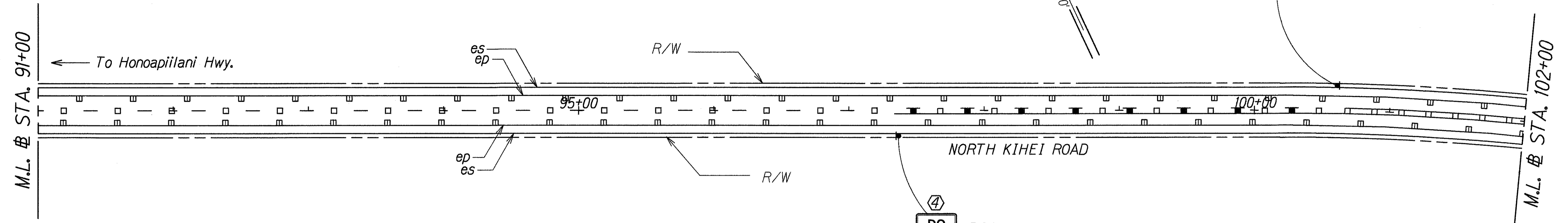
**SIGNING & PAVEMENT
MARKING PLAN**

NORTH KIHEI ROAD RESURFACING
Honoapiilani Highway to Piilani Highway
Project No. 310A-01-00M

Scale: 1" = 40' Date: April, 2000

SHEET No. 7 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	310A-01-00M	2000	14	16



END PROJECT
Project No. 310A-01-00M
Sta. ~~109+35~~ 482+80±

LEGEND FOR AS-BUILT POSTINGS

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

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

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

NORTH KIHEI ROAD RESURFACING
Honoapiilani Highway to Piilani Highway
Project No. 310A-01-00M

Scale: 1" = 40' Date: April, 2000

SHEET No. 8 OF 8 SHEETS






RAISED PAVEMENT MARKERS AND STRIPING SUMMARY

APPROXIMATE STATION TO STATION	PAVEMENT STRIPING					DISTANCE (L.F.)	PAVEMENT MARKERS (EA.)				PAVEMENT		COMMENTS
	4" YELLOW (L.F.)		4" WHITE	8" WHITE	12" YELLOW		TYPE "C"	TYPE "D"	TYPE "H"	TYPE "J"	ARROW	WORD	
	DOUBLE	SINGLE	L.F.	L.F.	L.F.								
NORTH KIHAI ROAD													
5+00 - 6+80	200		600			200	10	9			3	2	Left Turn Storage Pocket
6+80 - 9+40	500		620		40	260	14		28				Transverse Median
9+40 - 49+00			7920			3960	198	99		396			Passing Both Ways
49+00 - 0+00													Equation Station
0+00 - 3+50			700			350	18	9		72			Passing Both Ways
3+50 - 7+20		370	740			370	20	10	10	40			Passing North Bound
7+20 - 17+00	980		1960			980	49	49					No Passing Zone
17+00 - 21+00		400	800			400	21	11	11	44			Passing South Bound
21+00 - 37+00			3200			1600	81	40	160				Passing Both Ways
37+00 - 43+00		600	500	700		600	30	15	15	60			Passing North Bound
43+00 - 57+50	1450		600	2300		1450	73	73					No Passing Zone
57+50 - 63+50		600	1200			600	30	15	15				Passing South Bound
63+50 - 97+40			6780			3390	170	85		340			Passing Both Ways
97+40 - 100+60		320	640			320	16	8	8	32			Passing North Bound
100+60 - 105+00	440		880			440	22	22					No Passing Zone
105+00 - 108+20		320	640			320	16	8	8	32			Passing South Bound
108+20 - 109+35			230			115	6	3		12			Passing Both Ways
TOTAL	3570	2610	28010	3000	40		773	452	255	1028	3	2	
ESTIMATED QTY.	3600	2650	28100	3000	40		780	460	260	1050	3	2	


SURVEY PLOTTED BY _____ DATE: April, 2000
 DRAWN BY _____
 DESIGNED BY _____
 QUANTITIES BY _____
 CHECKED BY _____
 ORIGINAL PLAN _____
 NOTE BOOK _____
 by _____

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
STRIPING & RAISED PAVEMENT MARKINGS SUMMARY
 NORTH KIHAI ROAD RESURFACING
 Honoapiilani Highway to Pillani Highway
 Project No. 310A-01-00M
 Date: April, 2000

TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY			
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.	
		W/POST	W/O POST	W/POSTS	W/O POSTS
R1-1	STOP	1			
R2-1(45)	SPEED LIMIT 45	2			
R4-1	DO NOT PASS	7			
R4-2	PASS WITH CARE	6			
R16-1d	BUCKLE UP ITS THE LAW	2			
	 PREVENT FOREST FIRES	1			
W2-1	 CROSS ROAD SIGN	2	2		
W1-2	 CURVE SIGN	2	2		
W8-6	TRUCK CROSSING	2	2		
W1-4R	 REVERSE TURN SIGN	1	1		
W1-8	 CHEVRON ALIGNMENT SIGN	16			
	OPEN DITCH	1			
TOTAL		45	7		

ROUTE MARKER SUMMARY

SIGN ASSEMBLY	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY		TYPE B ASSEMBLY	
		W/POST	W/O POST	W/POST	W/O POST
SRM-1	 M2-1 MI-6(30)	1			
TOTAL		1			

MILE MARKER SUMMARY

LOCATION	SIGN NO. AND MESSAGE	W/POST	W/O POST
# Sta. 9+20± Lt.	D10-1 MILE 1 D10-7 310	1	
# Sta. 62+00± Rt.	D10-1 MILE 2 D10-7 310	1	
TOTAL		2	

CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POSTS	W/O POST
CW20-1A(d)	Honoapiilani Hwy./North Kihei Road (Junction)	ROAD WORK AHEAD	2	
CG20-2A	Honoapiilani Hwy./North Kihei Road (Junction)	END ROAD WORK	2	
CW20-1A(d)	Piilani Highway Sta. 487+35 Lt.	ROAD WORK AHEAD	1	
CG20-2A	Piilani Highway Sta. 487+35 Rt.	END ROAD WORK	1	
TOTAL			6	

RECONSTRUCTION OF WEAKENED AREAS

STATION TO STATION (APPROX.)	OFFSET	LENGTH (FT.)	WIDTH (FT.)	THICKNESS (INCHES)	EXCAVATION (CY.)	ACB (TONS)
3+25 - 3+75	RT.	50	4	5	3.09	6.34
11+35 - 15+35	LT.	400	4	5	24.69	50.66
19+40 - 24+90	LT.	550	4	5	33.95	69.67
29+15 - 30+15	RT.	100	4	5	6.17	12.66
30+95 - 35+45	LT.	450	4	5	27.78	57.00
77+15 - 77+65	LT.	50	4	5	3.08	6.34
82+60 - 85+60	LT.	300	4	5	18.52	38.00
107+35 - 109+35	LT.	200	4	5	12.35	25.34
TOTAL					129.60	266.01
ESTIMATED QTY.					150.00	300.00

SURVEY PLOTTED BY: _____ DATE: April 00
 DESIGNED BY: _____
 CHECKED BY: _____
 QUANTITIES BY: _____
 GENERAL PLAN: _____
 SPOT BOOK: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 QUANTITIES BY: _____

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
MISCELLANEOUS SUMMARIES
 NORTH KIEHI ROAD RESURFACING
 Honoapiilani Highway to Piilani Highway
 Project No. 310A-01-00M
 Date: April, 2000
 SHEET No. 2 OF 2 SHEETS