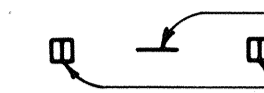
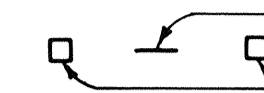
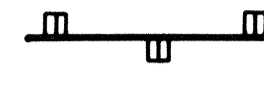
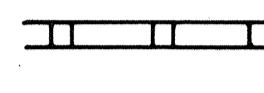
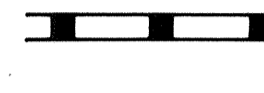
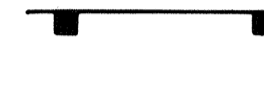
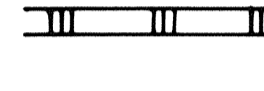
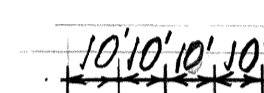
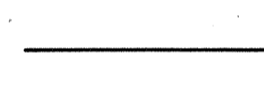
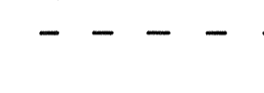

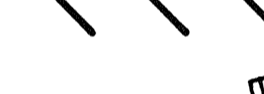




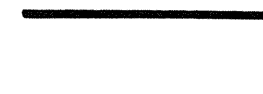
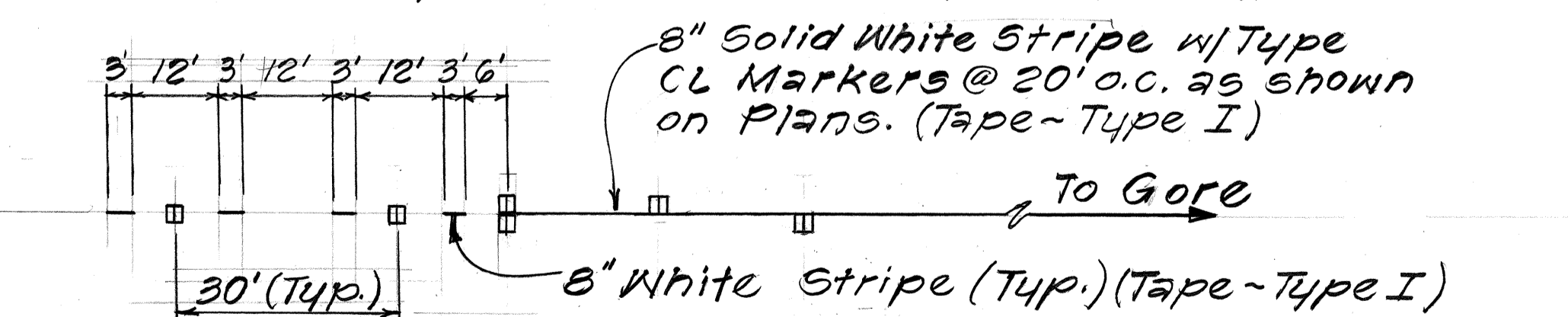


**LEGEND**

-  4 each Type A Raised Pavement Markers  
Type CL Raised Pavement Markers @ 40'-0" o.c.
-  4 each Type J Raised Pavement Markers  
Type DL Raised Pavement Markers @ 40'-0" o.c.
-  8" White Stripe with Type CL Raised Pavement Markers @ 20'-0" o.c. (Tape-Type I)
-  4" Double Solid Yellow Stripes with Type DL Raised Pavement Markers @ 20'-0" o.c. (Tape-Type I)
-  4" Double Solid Yellow Stripes with Type HL Raised Pavement Markers @ 20'-0" o.c. (Tape-Type II or Thermoplastic Extrusion)
-  4" Yellow Edge Stripe with Type HL Raised Pavement Markers @ 40'-0" o.c. (Tape-Type II or Thermoplastic Extrusion)
-  4" Double Solid White Stripes with Type CL Raised Pavement Markers @ 20'-0" o.c. (Tape-Type I)
-  Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type CL Markers @ 40'-0" o.c. (Thermoplastic Extrusion)
-  4" White Edge Stripe (Tape-Type II or Thermoplastic Extrusion)
-  4" White Guide Lines (Thermoplastic Extrusion)
-  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. (Thermoplastic Extrusion)
-  Pavement Arrow (Tape-Type I)
-  STOP Pavement Word (Tape-Type I)
-  12" White Stop Line (Thermoplastic Extrusion)

~~4 each Type J Raised Pavement Markers~~  
~~Type DL Raised Pavement Markers @ 40'-0" o.c.~~  
~~Type HL Raised Pavement Markers (Reflective Surface facing no-passing direction)~~  
~~4" Single Solid Yellow Stripe (Tape-Type I)~~

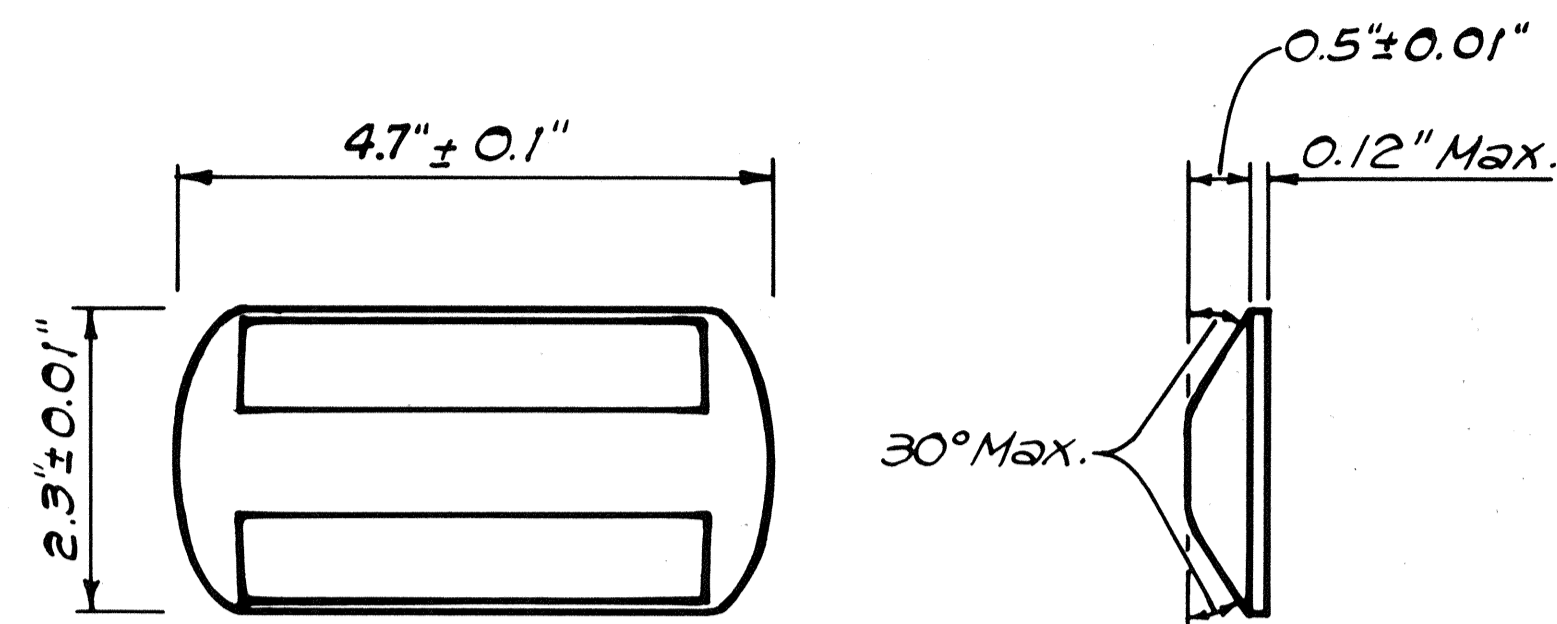


**LANE DROP MARKING**  
Scale: 1" = 20'

**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. Details of Type C, Type D and Type H Markers on Standard Plan Nos. TE-30, TE-31 and TE-32 shall be deleted and replaced with details of Type CL, Type DL and Type HL Markers as shown on this sheet. All references to Type C, Type D and Type H Markers in the plans shall mean Type CL, Type DL and Type HL Markers.
5. Final locations of all signs shall be approved by the Engineer prior to any installation work.
6. 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.
7. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
8. All pavement striping shall be as noted on the Legend or plans.
9. Existing signs that are to be replaced, shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
10. Backing for all new Regulatory and Warning Signs shall not be spliced.
11. All preformed pavement marking tapes over existing pavement shall be applied with an approved primer as recommended by the tape manufacturer and as directed by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
12. Removal of Existing Delineator Posts shall be considered incidental to their respective contract items.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7310A-01-88M	1988	15	23



**TYPE CL**  
Red-Clear Reflective Marker  
or  
**TYPE DL**  
Two-Way Yellow Reflective Marker  
or  
**TYPE HL**  
One-Way Yellow Reflective Marker  
Not to Scale

**LANE CHANGE RESTRICTION MARKING**  
4 each Type A Raised Pavement Markers  
Type CL Raised Pavement Markers @ 20'-0" o.c.  
4" White Stripe (Tape-Type I)



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING,  
LEGEND, NOTES & DETAILS**

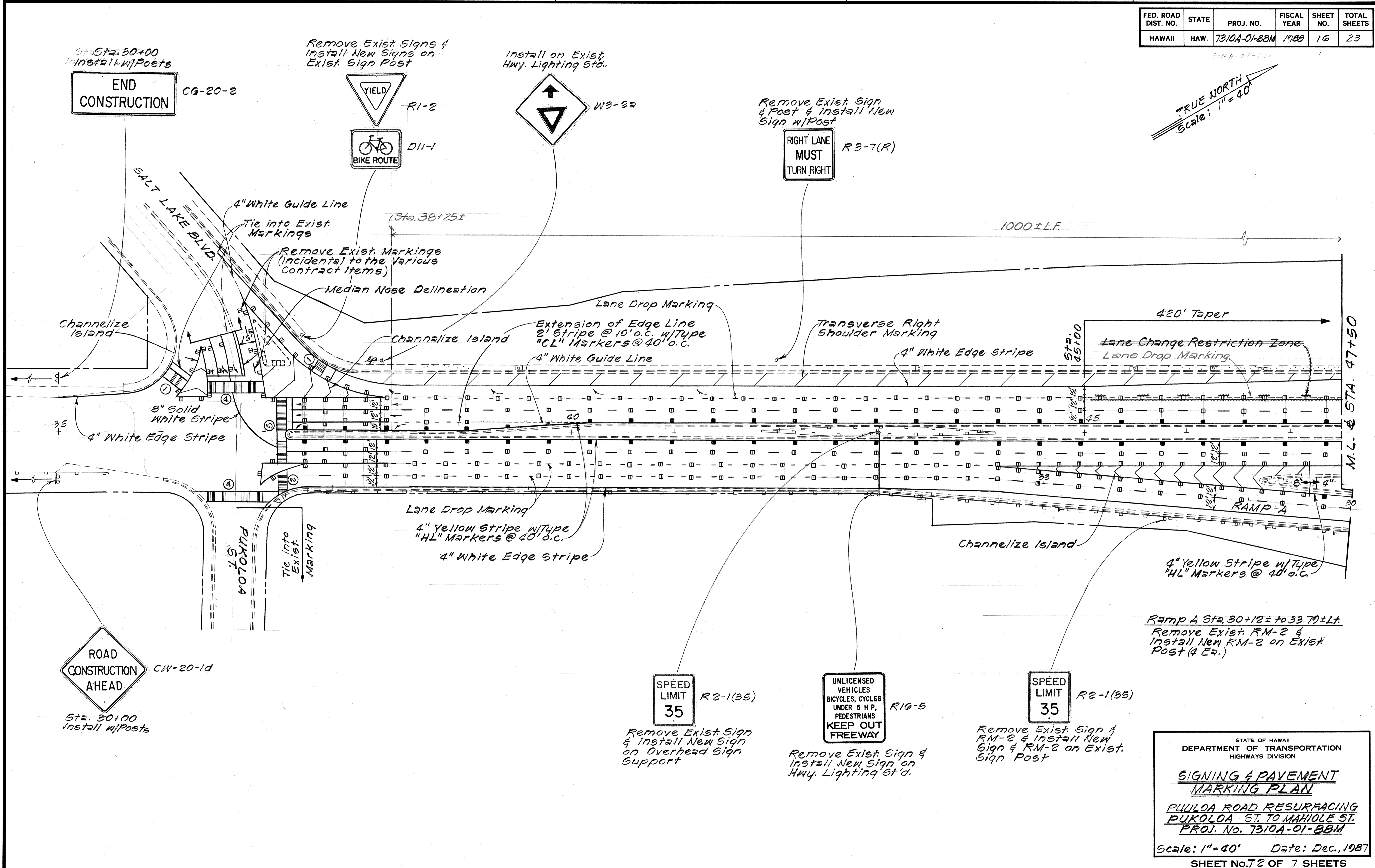
PULUOIA ROAD RESURFACING  
PUKOLOA ST. TO MAHILOLE ST.  
PROJ. No. 7310A-01-88M

Scale: As Noted Date: Dec. 1987  
SHEET No. 71 OF 7 SHEETS

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7310A-01-88M	1988	16	23

TRUE NORTH  
Scale: 1" = 40'



DATE	.....
SURVEY PLOTTED BY	.....
DRAWN BY	.....
DESIGNED BY	.....
CHECKED BY	.....
NO.	.....

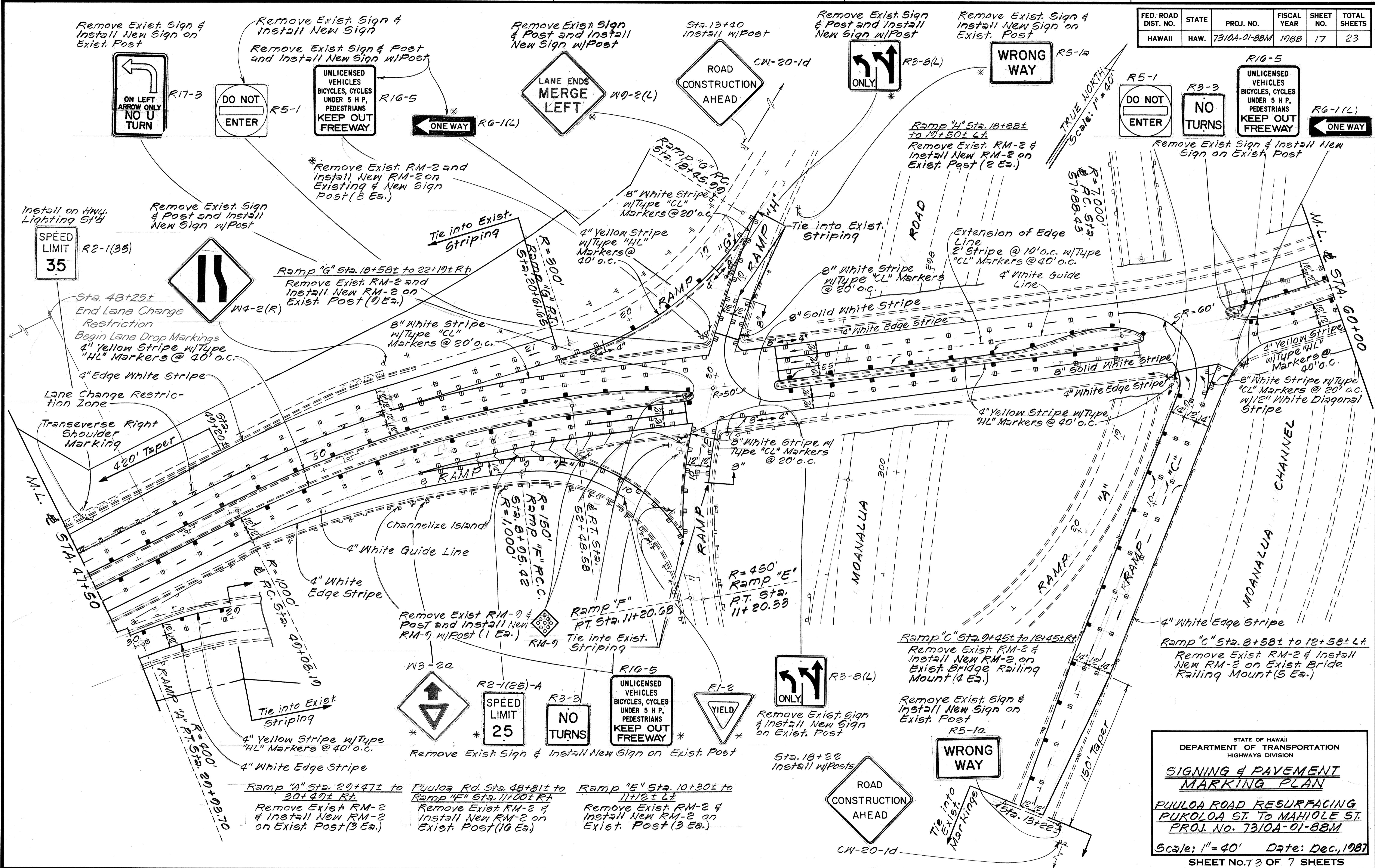
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

PUKOLOA ROAD RESURFACING  
PUKOLOA ST. TO MAHOLE ST.  
PROJ. No. 7310A-01-88M

Scale: 1" = 40' Date: Dec., 1987  
SHEET No. 16 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7310A-01-88M	1988	17	23



DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

PUKOLOA ROAD RESURFACING  
PUKOLOA ST. TO MAHILOE ST.  
PROJ. No. 7310A-01-88M

Scale: 1" = 40' Date: Dec., 1987  
SHEET No. 17 OF 23 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7310A-01-88M	1988	18	23



DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

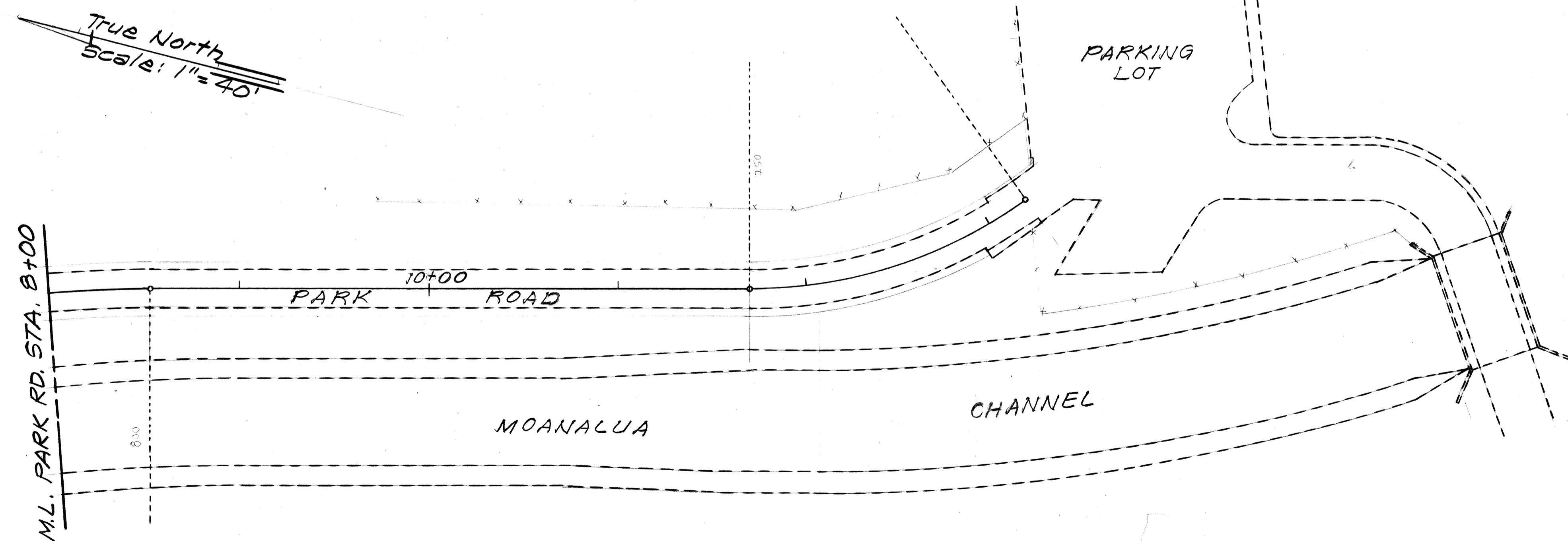
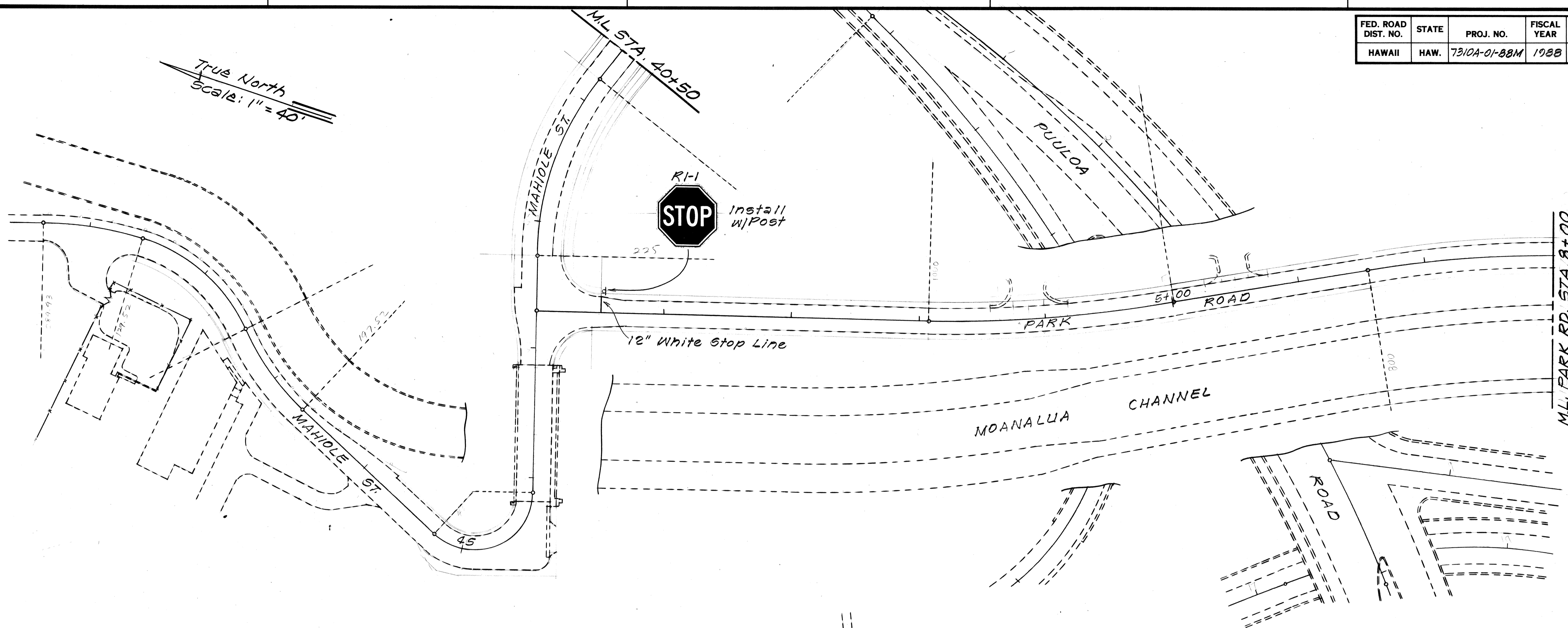
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

PULOLOA ROAD RESURFACING  
PULOLOA ST. TO MAHIOLE ST.  
PROJ. NO. 7310A-01-88M

Scale: 1" = 40' Date: Dec., 1987  
SHEET NO. 14 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7310A-01-88M	1988	19	23

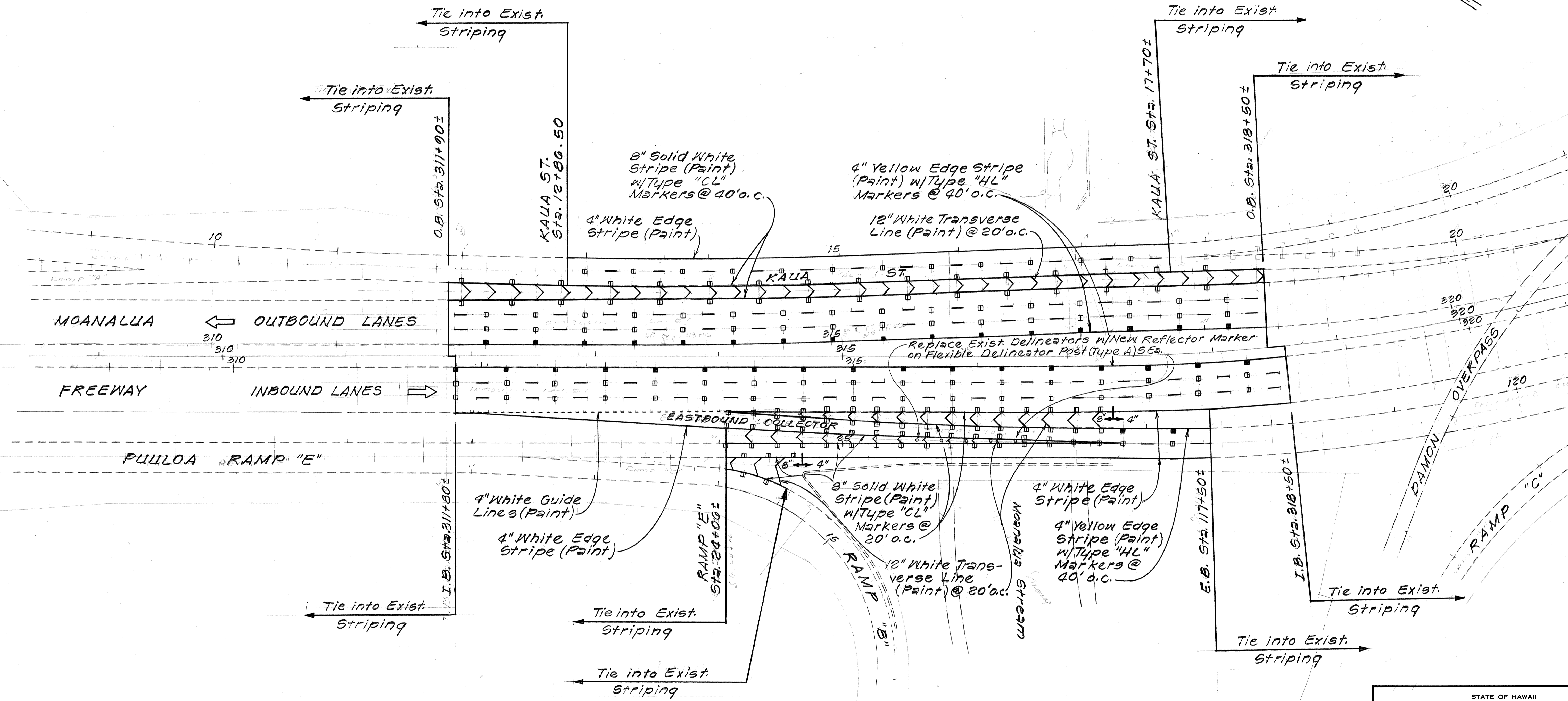


SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**SIGNING & PAVEMENT  
MARKING PLAN**  
PUULOA ROAD RESURFACING  
PUKOLOA ST. TO MAHILOLE ST.  
PROJ. No. 7310A-01-88M  
Scale: 1"=40' Date: Mar, 1988  
SHEET NO. 15 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7310-01-88M	1988	20	23

TRUE NORTH  
Scale: 1"=40'



DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**SIGNING & PAVEMENT MARKING PLAN**

PULLOA ROAD RESURFACING  
PUKOLOA ST. TO MAHIOLE ST.  
PROJ. No. 7310A-01-88M

Scale: 1"=40' Date: Feb., 1988

SHEET No. 20 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	7310A-01-88M	1988	21	23

PAVEMENT MARKING SUMMARY	
DESCRIPTION	QUANTITY
<b>PAVEMENT MARKERS</b>	
Type A Pavement Markers	1,200 Ea.
Type CL " "	750 "
Type DL " "	25 "
Type HL " "	250 "
Type J " "	12 "
<b>TAPE-TYPE I</b>	
4" Pavement Striping (White)	600 L.F.
8" " " "	1,600 "
12" " " (Yellow)	18 "
4" Double Stripe (Yellow)	550 "
Pavement Arrows	32 Ea.
<b>TAPE-TYPE II OR THERMO-PLASTIC EXTRUSION</b>	
4" Pavement Striping (White)	8,300 L.F.
4" " " (Yellow)	7,000 "
8" " " (White)	3,200 "
12" " " "	1,250 "
<b>THERMOPLASTIC EXTRUSION</b>	
4" Pavement Striping (White)	370 L.F.
8" " " "	400 "
12" " " "	470 "
Crosswalk Markings	33 L.F.
<b>PAVEMENT STRIPING (PAINT)</b>	
4" Pavement Striping (White)	1,700 L.F.
4" " " (Yellow)	1,500 "
8" " " (White)	2,650 "
12" " " "	875 "

TRAFFIC SIGN SUMMARY					
SIGN No.	MESSAGE	QUANTITY			
		10 Sq. Ft. or Less		Greater Than 10 Sq. Ft.	
		w/Post	w/o Post	w/Post	w/o Post
R1-2	YIELD		3		
R2-1(25)	SPEED LIMIT 25		2		
R2-1(25)A	SPEED LIMIT 25				1
R2-1(35)	SPEED LIMIT 35		3		
R3-3	NO TURNS		4		
R3-7(R)	RIGHT TURN MUST TURN RIGHT	1			
R3-8(L)	ONLY	1	2		
R4-7	KEEP RIGHT U <sup>+</sup>		2		
R5-1	DO NOT ENTER		2		
R5-1a	WRONG WAY		3		
R6-1(L)	ONE WAY	1	1		
R16-5	UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5HP PEDESTRIAN KEEP OUT FREEWAY			1	5
R17-3	ON LEFT ARROW ONLY NO U TURN		1		
W3-2a	↓		2		
W4-2(R)	↓	1			
W9-2(L)	LANE ENDS MERGE LEFT	1			
D11-1	BIKE ROUTE		1		
R1-1	STOP	1			
<b>TOTAL</b>		<b>6</b>	<b>20</b>	<b>1</b>	<b>6</b>

REFLECTOR MARKER SUMMARY					
TYPE	DESCRIPTION	QUANTITY			
		On Exist. Post	On Exist. Br. Rail'g	On Exist. Sign Post	w/Steel Post
RM-2	Reflector Marker	37	30	9	
RM-9	Reflector Marker			2	2
<b>TOTAL</b>		<b>37</b>	<b>30</b>	<b>11</b>	<b>2</b>

CONSTRUCTION SIGN SUMMARY			
SIGN No.	MESSAGE	QUANTITY	
		w/o Post	w/Post
CG-20-2	End Construction		2
CW-20-1d	Road Construction Ahead		4
<b>TOTAL</b>			<b>6</b>

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 TRACED BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 ORIGINAL PLAN \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 No. \_\_\_\_\_

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**MISCELLANEOUS SUMMARIES**  
 PUULOA ROAD RESURFACING  
 PUKOLOA ST. TO MAHILOE ST.  
 PROJ. No. 7310A-01-88M  
 Date: Feb., 1988  
 SHEET No. 77 OF 7 SHEETS