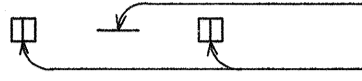
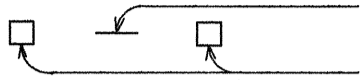
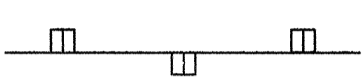









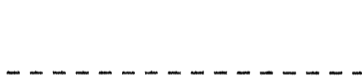
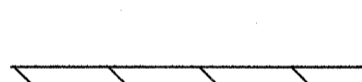






FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	19	39

**LEGEND**

-  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.

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

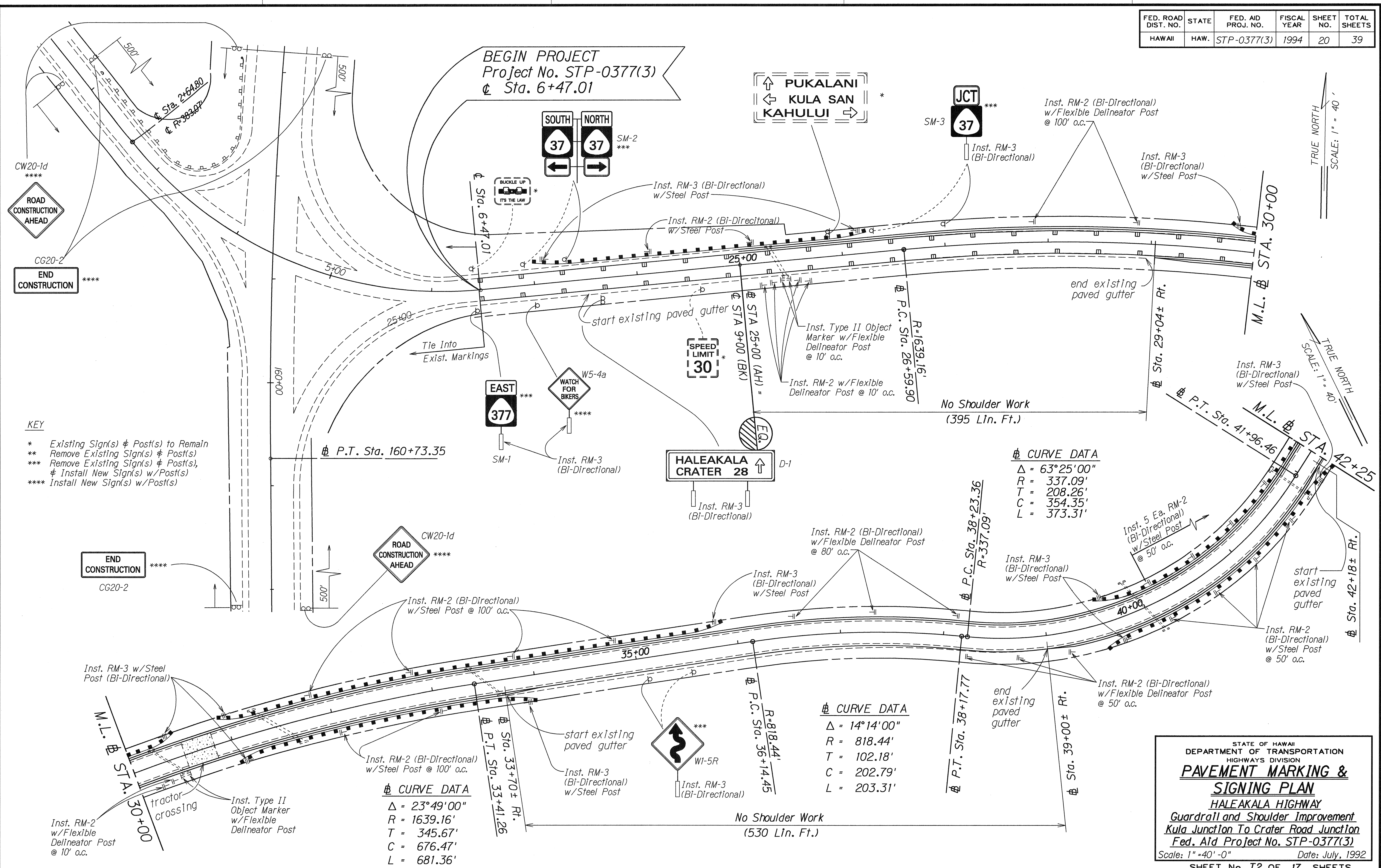
**PAVEMENT MARKING**  
**LEGEND, DETAILS & NOTES**

HALEAKALA HIGHWAY  
Guardrail and Shoulder Improvement  
Kula Junction To Crater Road Junction  
Fed. Aid Project No. STP-0377(3)

Scale: 1" = 40' - 0"      Date: July, 1992

SHEET No. 11 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	20	39



**KEY**

- \* Existing Sign(s) & Post(s) to Remain
- \*\* Remove Existing Sign(s) & Post(s)
- \*\*\* Remove Existing Sign(s) & Post(s), & Install New Sign(s) w/Post(s)
- \*\*\*\* Install New Sign(s) w/Post(s)

**∅ CURVE DATA**

Δ	= 63°25'00"
R	= 337.09'
T	= 208.26'
C	= 354.35'
L	= 373.31'

**∅ CURVE DATA**

Δ	= 14°14'00"
R	= 818.44'
T	= 102.18'
C	= 202.79'
L	= 203.31'

**∅ CURVE DATA**

Δ	= 23°49'00"
R	= 1639.16'
T	= 345.67'
C	= 676.47'
L	= 681.36'

DATE	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKING & SIGNING PLAN**

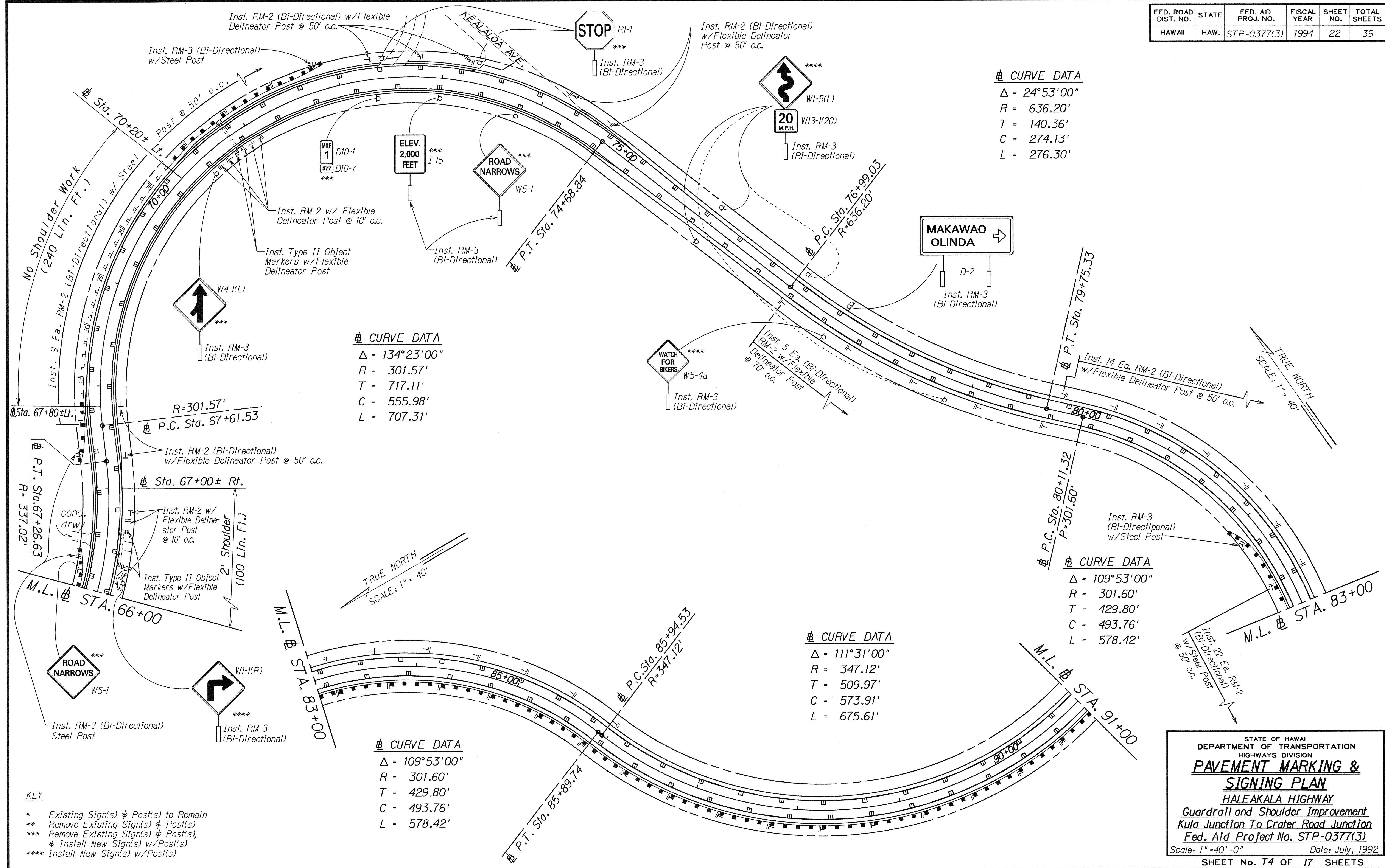
**HALEAKALA HIGHWAY**  
Guardrail and Shoulder Improvement  
Kula Junction To Crater Road Junction  
Fed. Aid Project No. STP-0377(3)

Scale: 1" = 40' - 0"      Date: July, 1992

SHEET No. T2 OF 17 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	22	39



**CURVE DATA**  
 $\Delta = 24^{\circ}53'00''$   
 $R = 636.20'$   
 $T = 140.36'$   
 $C = 274.13'$   
 $L = 276.30'$

**CURVE DATA**  
 $\Delta = 134^{\circ}23'00''$   
 $R = 301.57'$   
 $T = 717.11'$   
 $C = 555.98'$   
 $L = 707.31'$

**CURVE DATA**  
 $\Delta = 109^{\circ}53'00''$   
 $R = 301.60'$   
 $T = 429.80'$   
 $C = 493.76'$   
 $L = 578.42'$

**CURVE DATA**  
 $\Delta = 111^{\circ}31'00''$   
 $R = 347.12'$   
 $T = 509.97'$   
 $C = 573.91'$   
 $L = 675.61'$

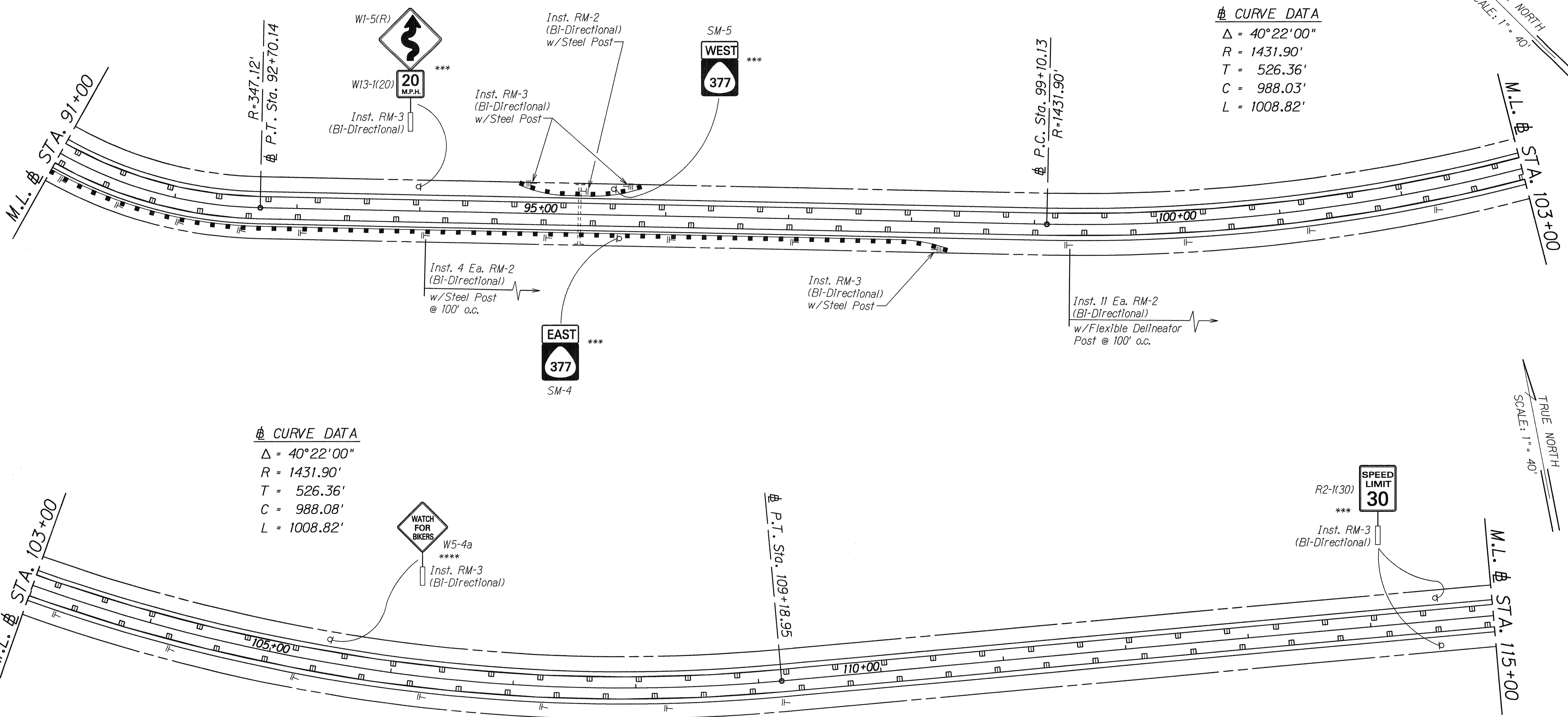
**CURVE DATA**  
 $\Delta = 109^{\circ}53'00''$   
 $R = 301.60'$   
 $T = 429.80'$   
 $C = 493.76'$   
 $L = 578.42'$

- KEY**
- \* Existing Sign(s) & Post(s) to Remain
  - \*\* Remove Existing Sign(s) & Post(s)
  - \*\*\* Remove Existing Sign(s) & Post(s), & Install New Sign(s) w/Post(s)
  - \*\*\*\* Install New Sign(s) w/Post(s)

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PAVEMENT MARKING & SIGNING PLAN**  
HALEAKALA HIGHWAY  
Guardrail and Shoulder Improvement  
Kula Junction To Crater Road Junction  
Fed. Aid Project No. STP-0377(3)  
Scale: 1"=40'-0" Date: July, 1992  
SHEET No. T4 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	23	39



**☯ CURVE DATA**  
 $\Delta = 40^\circ 22' 00''$   
 $R = 1431.90'$   
 $T = 526.36'$   
 $C = 988.03'$   
 $L = 1008.82'$

**☯ CURVE DATA**  
 $\Delta = 40^\circ 22' 00''$   
 $R = 1431.90'$   
 $T = 526.36'$   
 $C = 988.08'$   
 $L = 1008.82'$

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

- KEY**
- \* Existing Sign(s) & Post(s) to Remain
  - \*\* Remove Existing Sign(s) & Post(s)
  - \*\*\* Remove Existing Sign(s) & Post(s),  
 ☯ Install New Sign(s) w/Post(s)
  - \*\*\*\* Install New Sign(s) w/Post(s)

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

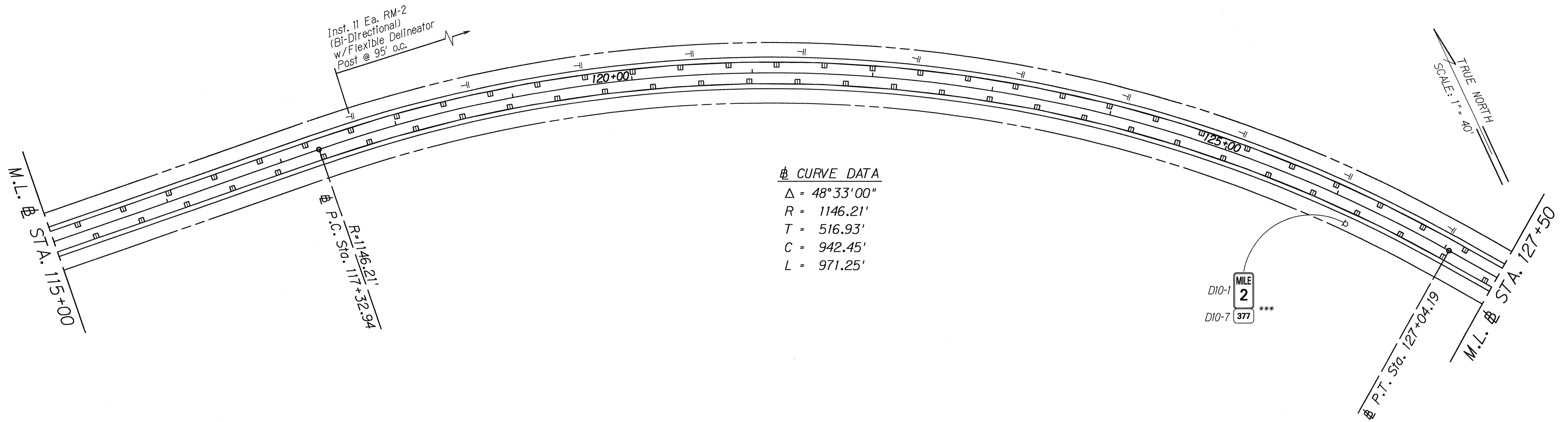
**PAVEMENT MARKING &  
 SIGNING PLAN**

**HALEAKALA HIGHWAY**  
 Guardrail and Shoulder Improvement  
 Kula Junction To Crater Road Junction  
 Fed. Aid Project No. STP-0377(3)

Scale: 1" = 40' - 0"      Date: July, 1992

SHEET No. T5 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	24	39



**∅ CURVE DATA**

Δ = 48°33'00"  
R = 1146.21'  
T = 516.93'  
C = 942.45'  
L = 971.25'

M.L. ∅ STA. 127+50

Inst. 10 Ea. RM-2  
(Bi-Directional)  
w/Flexible Delineator  
Post @ 70' o.c.

WATCH FOR BIKERS  
W5-4a  
\*\*\*\*  
Inst. RM-3  
(Bi-Directional)

WI-1R  
\*\*\*  
Inst. RM-3  
(Bi-Directional)

25  
M.P.H.  
\*\*

P.C. Sta. 135+02.56  
R=636.84'

**∅ CURVE DATA**

Δ = 53°32'00"  
R = 636.84'  
T = 321.23'  
C = 573.61'  
L = 595.02'

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

**KEY**

- \* Existing Sign(s) ∅ Post(s) to Remain
- \*\* Remove Existing Sign(s) ∅ Post(s)
- \*\*\* Remove Existing Sign(s) ∅ Post(s),  
∅ Install New Sign(s) w/Post(s)
- \*\*\*\* Install New Sign(s) w/Post(s)

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PAVEMENT MARKING &  
SIGNING PLAN**  
HALEAKALA HIGHWAY  
Guardrail and Shoulder Improvement  
Kula Junction To Crater Road Junction  
Fed. Aid Project No. STP-0377(3)  
Scale: 1"=40'-0" Date: July, 1992  
SHEET No. T6 OF 17 SHEETS

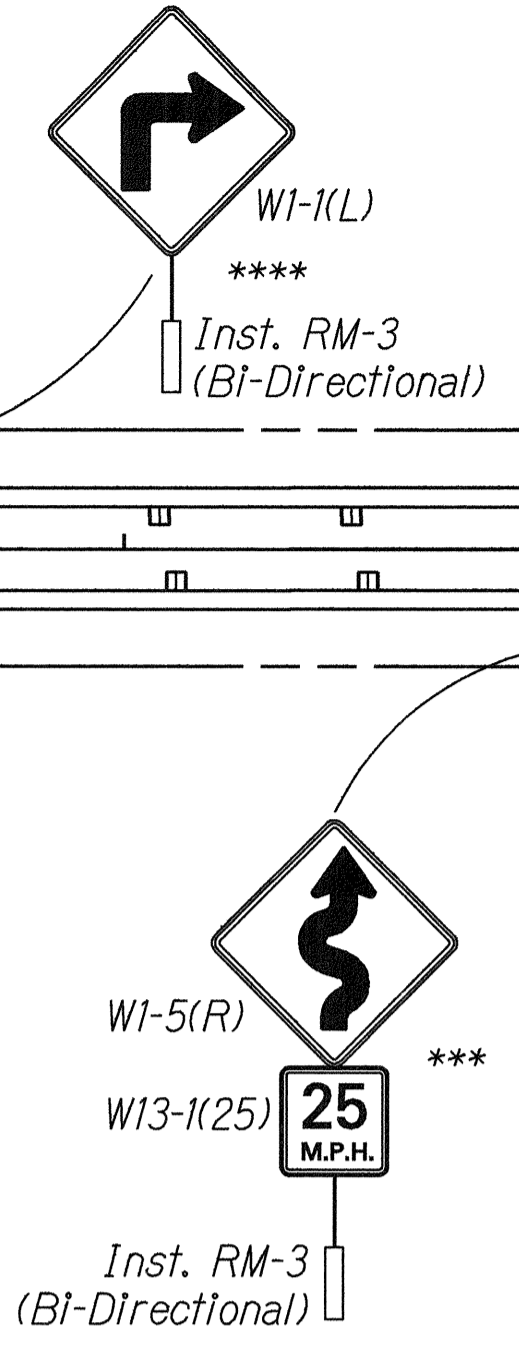
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	25	39

TRUE NORTH  
SCALE: 1" = 40'

M.L. STA. 138+00

**CURVE DATA**  
 $\Delta = 53^\circ 32' 00''$   
 $R = 636.84'$   
 $T = 321.23'$   
 $C = 573.61'$   
 $L = 595.02'$

P.T. Sta. 140+97.58



Inst. RM-3 (Bi-Directional) w/Steel Post

P.C. Sta. 145+71.85

**CURVE DATA**  
 $\Delta = 52^\circ 28' 00''$   
 $R = 409.52'$   
 $T = 201.80'$   
 $C = 362.04'$   
 $L = 375.00'$

No Shoulder Work (210 Lin. Ft.)

Inst. RM-3 (Bi-Directional) w/Steel Post

Inst. RM-2 (Bi-Directional) w/Flexible Delineator Post @ 55' o.c.

TRUE NORTH  
SCALE: 1" = 40'

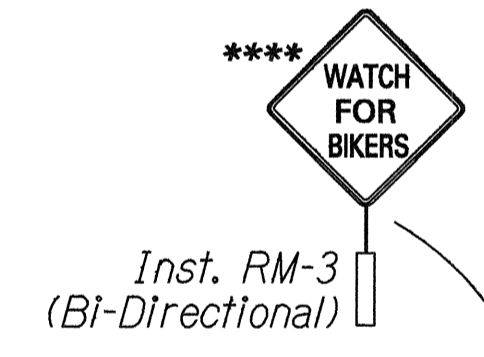
M.L. STA. 149+75  
P.C. Sta. 150+03.49  
 $R=409.13'$

**CURVE DATA**  
 $\Delta = 78^\circ 43' 00''$   
 $R = 409.13'$   
 $T = 335.57'$   
 $C = 518.91'$   
 $L = 562.09'$

Sta. 154+00 ± Lt.

P.T. Sta. 155+65.58  
P.C. Sta. 155+65.61  
 $R=498.10'$

**CURVE DATA**  
 $\Delta = 64^\circ 45' 00''$   
 $R = 498.10'$   
 $T = 315.80'$   
 $C = 533.42'$   
 $L = 562.90'$



Inst. RM-3 (Bi-Directional)

M.L. STA. 161+00  
3'-4" Shoulder (180 Lin. Ft.)

2'-4" Shoulder (240 Lin. Ft.)

Inst. RM-3 (Bi-Directional) w/Steel Post

- KEY**
- \* Existing Sign(s) & Post(s) to Remain
  - \*\* Remove Existing Sign(s) & Post(s)
  - \*\*\* Remove Existing Sign(s) & Post(s), & Install New Sign(s) w/Post(s)
  - \*\*\*\* Install New Sign(s) w/Post(s)

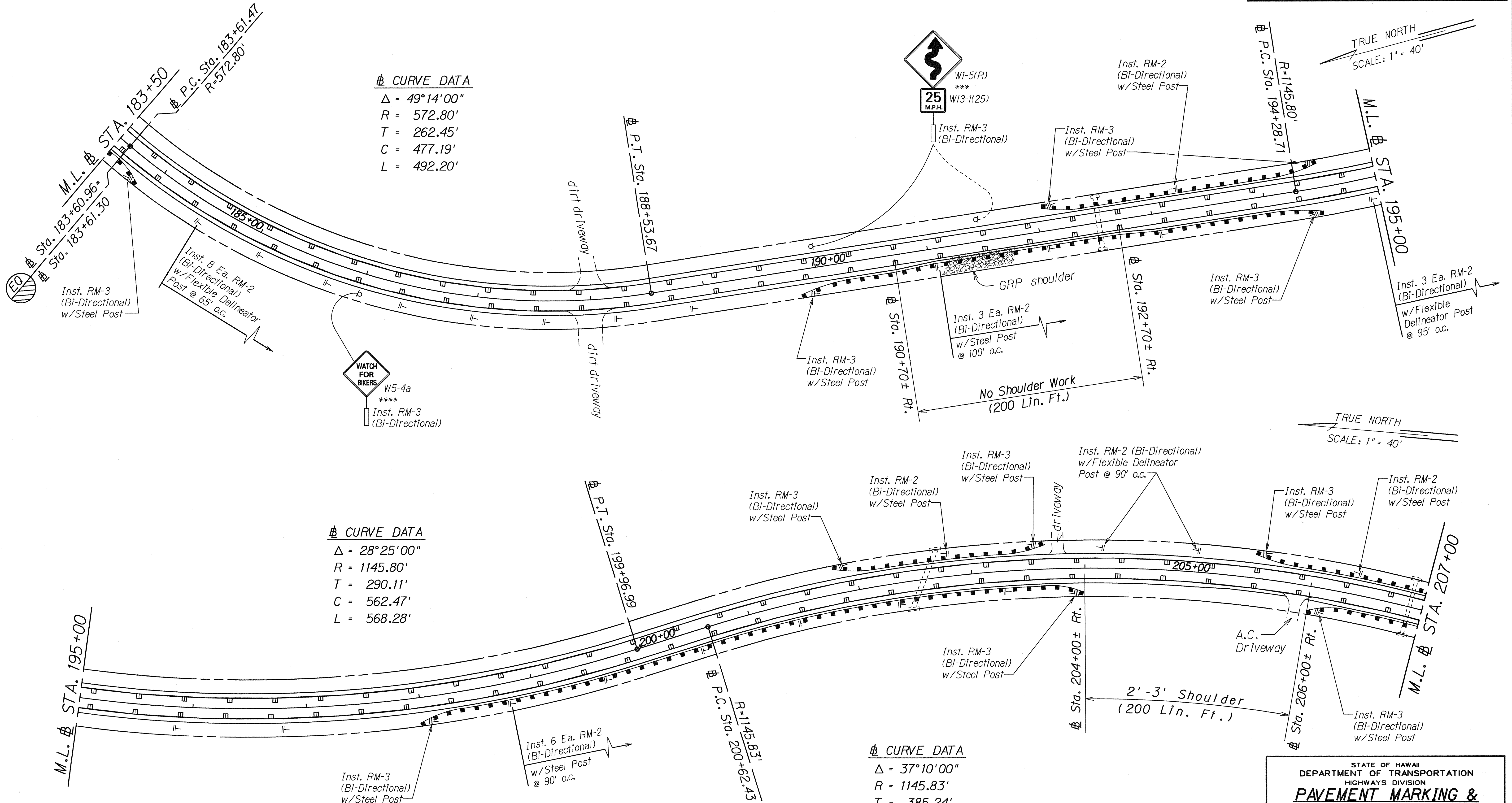
ELEV 2500 FEET

No Shoulder Work (450 Lin. Ft.)

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PAVEMENT MARKING & SIGNING PLAN**  
HALEAKALA HIGHWAY  
Guardrail and Shoulder Improvement  
Kula Junction To Crater Road Junction  
Fed. Aid Project No. STP-0377(3)  
Scale: 1" = 40' - 0" Date: July, 1992  
SHEET No. 17 OF 17 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	27	39



**☯ CURVE DATA**  
 $\Delta = 49^\circ 14' 00''$   
 $R = 572.80'$   
 $T = 262.45'$   
 $C = 477.19'$   
 $L = 492.20'$

**☯ CURVE DATA**  
 $\Delta = 28^\circ 25' 00''$   
 $R = 1145.80'$   
 $T = 290.11'$   
 $C = 562.47'$   
 $L = 568.28'$

**☯ CURVE DATA**  
 $\Delta = 37^\circ 10' 00''$   
 $R = 1145.83'$   
 $T = 385.24'$   
 $C = 730.31'$   
 $L = 743.28'$

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

- KEY**
- \* Existing Sign(s) & Post(s) to Remain
  - \*\* Remove Existing Sign(s) & Post(s)
  - \*\*\* Remove Existing Sign(s) & Post(s), & Install New Sign(s) w/Post(s)
  - \*\*\*\* Install New Sign(s) w/Post(s)

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PAVEMENT MARKING & SIGNING PLAN**  
HALEAKALA HIGHWAY  
Guardrail and Shoulder Improvement  
Kula Junction To Crater Road Junction  
Fed. Aid Project No. STP-0377(3)  
Scale: 1" = 40' - 0" Date: July, 1992  
SHEET No. T9 OF 17 SHEETS





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	30	39

TRUE NORTH  
SCALE: 1" = 40'

**☉ CURVE DATA**

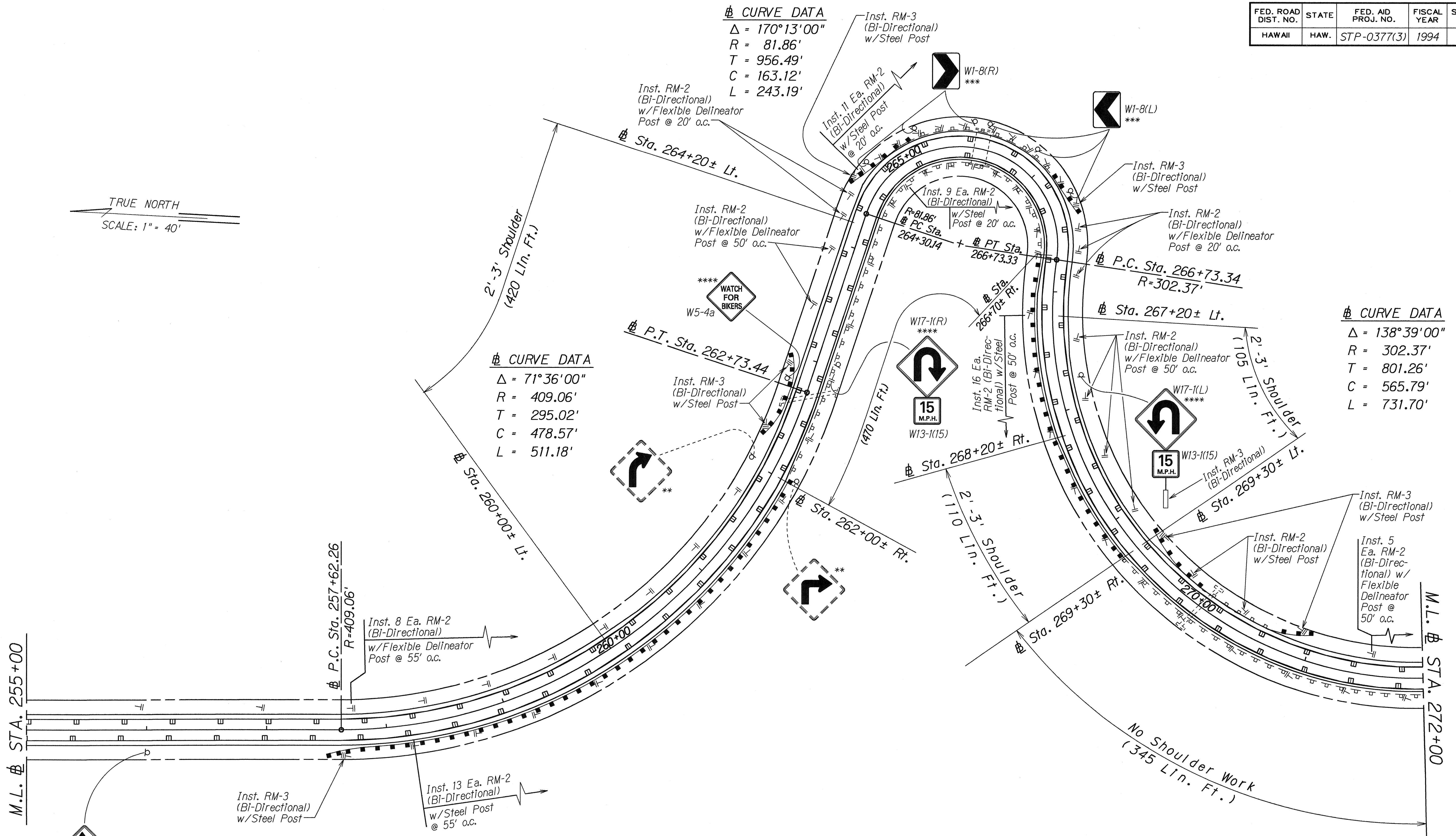
$\Delta = 170^{\circ}13'00''$   
 $R = 81.86'$   
 $T = 956.49'$   
 $C = 163.12'$   
 $L = 243.19'$

**☉ CURVE DATA**

$\Delta = 71^{\circ}36'00''$   
 $R = 409.06'$   
 $T = 295.02'$   
 $C = 478.57'$   
 $L = 511.18'$

**☉ CURVE DATA**

$\Delta = 138^{\circ}39'00''$   
 $R = 302.37'$   
 $T = 801.26'$   
 $C = 565.79'$   
 $L = 731.70'$



DATE	BY
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

**KEY**

- \* Existing Sign(s) & Post(s) to Remain
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- \*\*\* Remove Existing Sign(s) & Post(s), & Install New Sign(s) w/Post(s)
- \*\*\*\* Install New Sign(s) w/Post(s)

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PAVEMENT MARKING & SIGNING PLAN**  
**HALEAKALA HIGHWAY**  
Guardrail and Shoulder Improvement  
Kula Junction To Crater Road Junction  
Fed. Aid Project No. STP-0377(3)  
Scale: 1" = 40' - 0" Date: July, 1992  
SHEET No. T12 OF 17 SHEETS





FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	33	39

TRUE NORTH  
SCALE: 1" = 40'

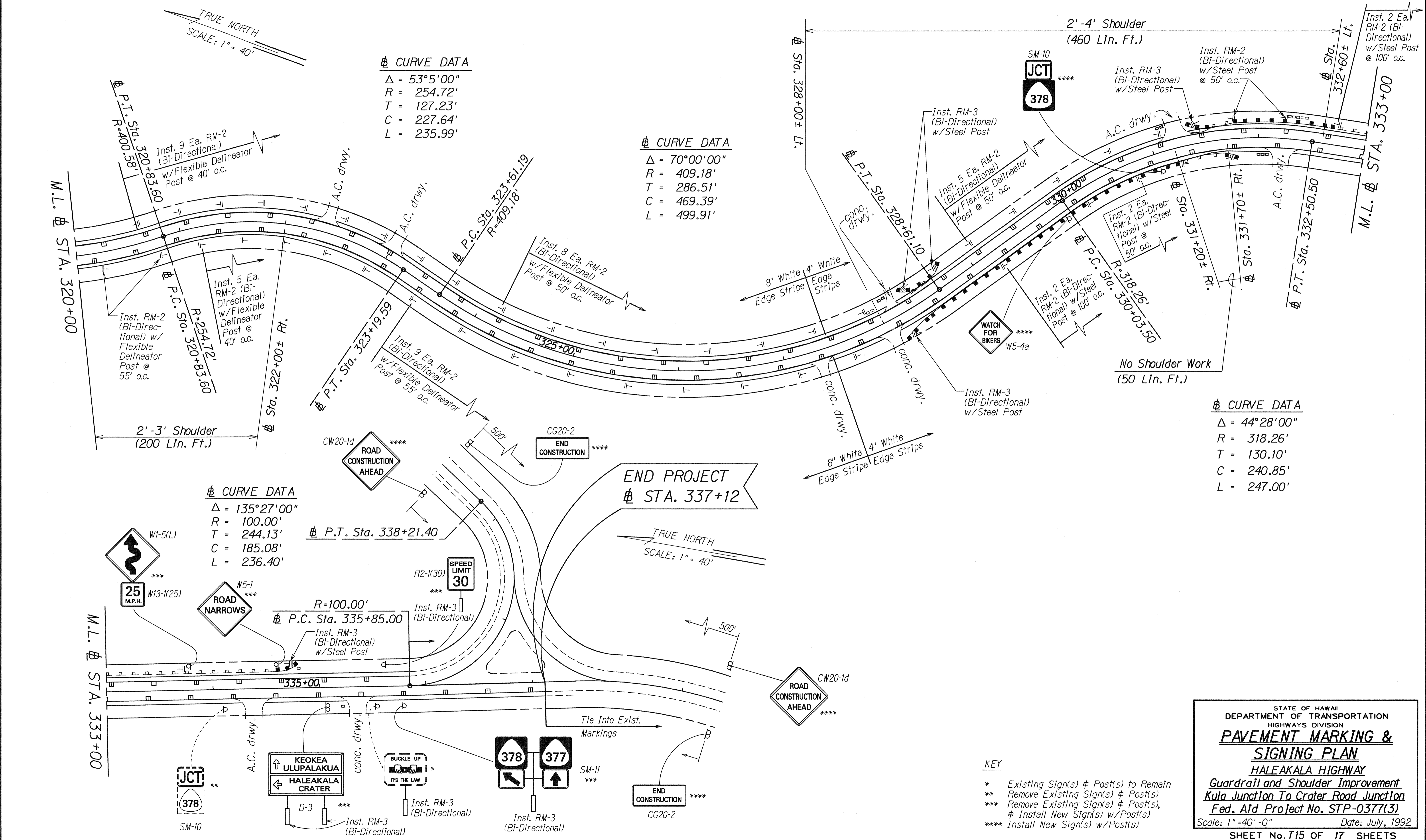
**☒ CURVE DATA**  
 $\Delta = 53^\circ 5' 00''$   
 $R = 254.72'$   
 $T = 127.23'$   
 $C = 227.64'$   
 $L = 235.99'$

**☒ CURVE DATA**  
 $\Delta = 70^\circ 00' 00''$   
 $R = 409.18'$   
 $T = 286.51'$   
 $C = 469.39'$   
 $L = 499.91'$

**☒ CURVE DATA**  
 $\Delta = 44^\circ 28' 00''$   
 $R = 318.26'$   
 $T = 130.10'$   
 $C = 240.85'$   
 $L = 247.00'$

**☒ CURVE DATA**  
 $\Delta = 135^\circ 27' 00''$   
 $R = 100.00'$   
 $T = 244.13'$   
 $C = 185.08'$   
 $L = 236.40'$

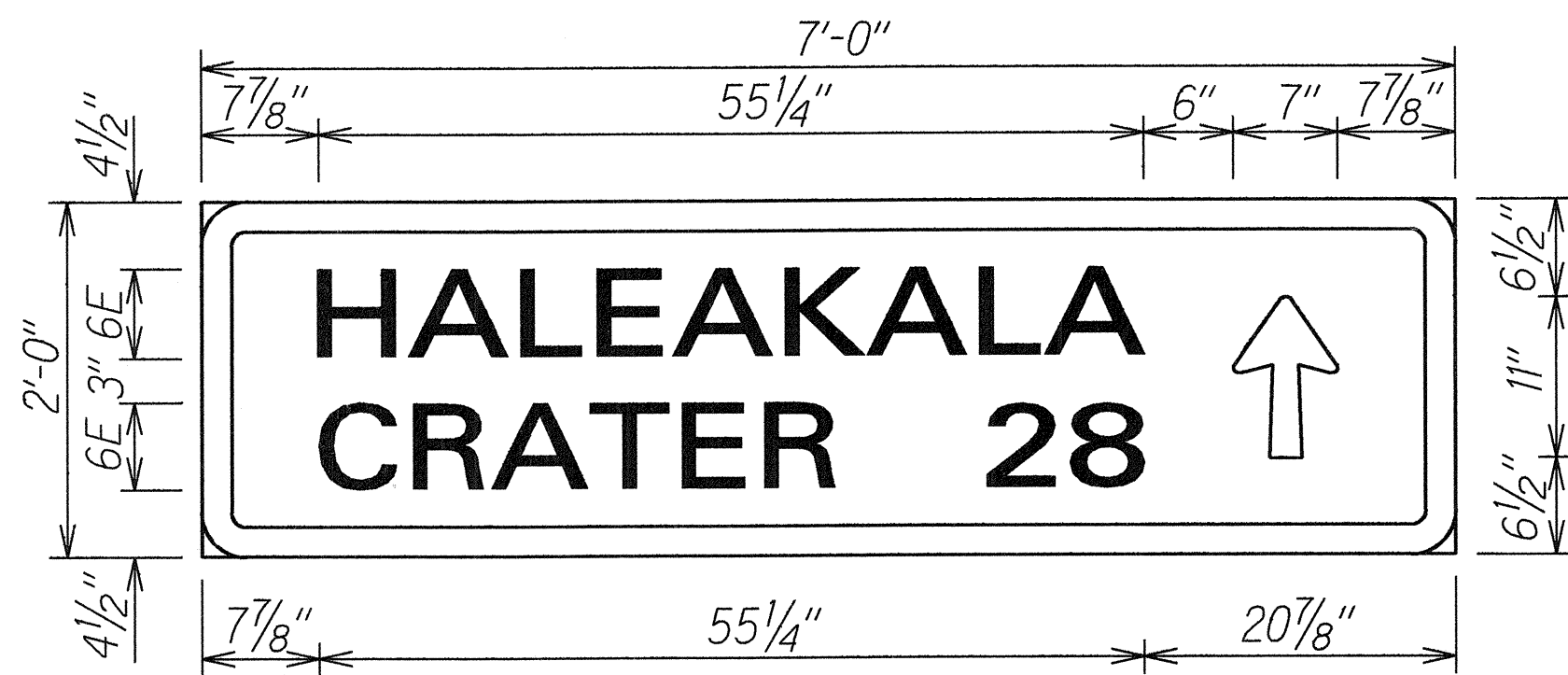
SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	



- KEY**
- \* Existing Sign(s) & Post(s) to Remain
  - \*\* Remove Existing Sign(s) & Post(s)
  - \*\*\* Remove Existing Sign(s) & Post(s), & Install New Sign(s) w/Post(s)
  - \*\*\*\* Install New Sign(s) w/Post(s)

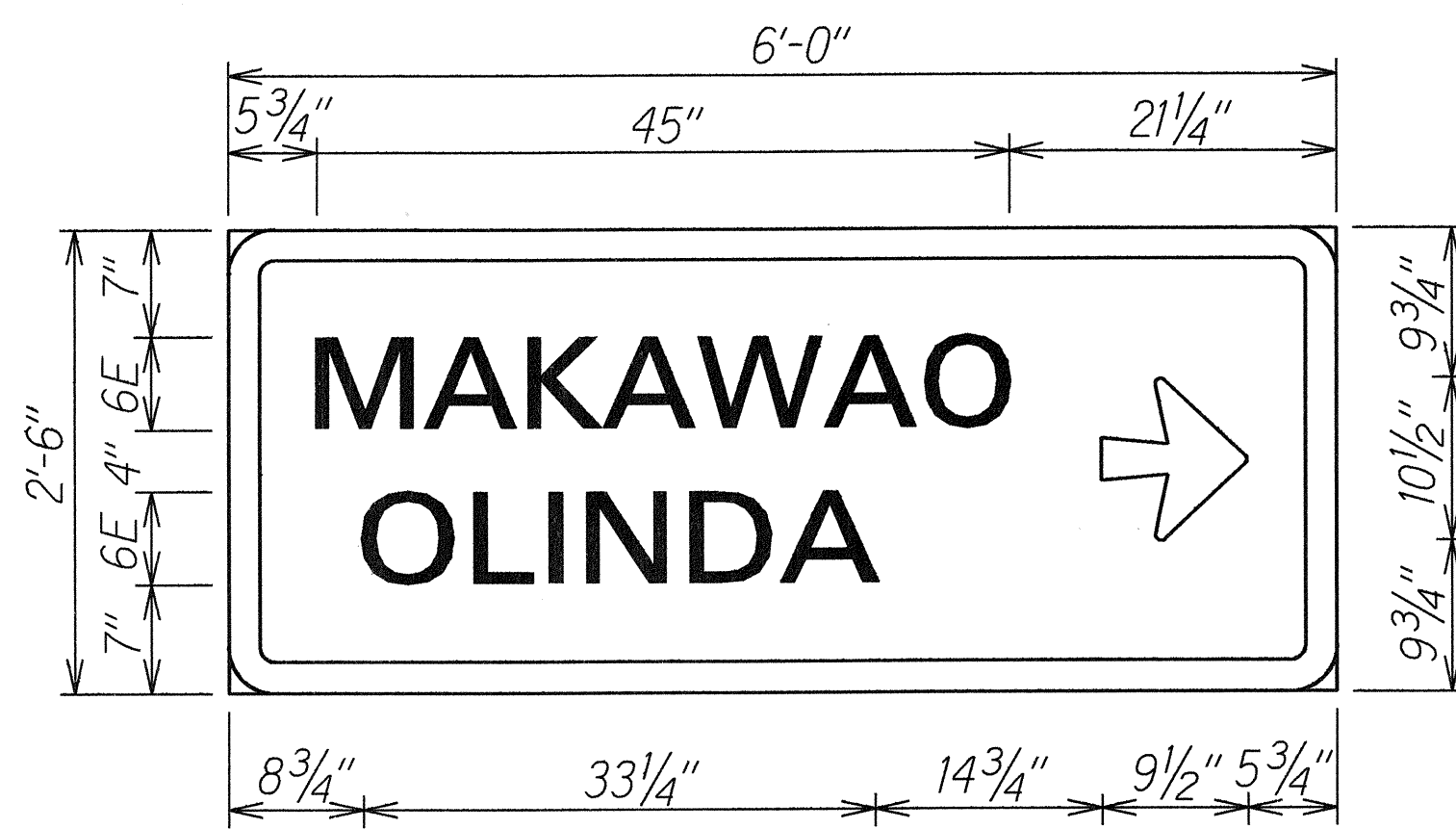
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PAVEMENT MARKING & SIGNING PLAN**  
HALEAKALA HIGHWAY  
Guardrail and Shoulder Improvement  
Kula Junction To Crater Road Junction  
Fed. Aid Project No. STP-0377(3)  
Scale: 1" = 40' - 0" Date: July, 1992  
SHEET No. 115 OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0377(3)	1994	34	39



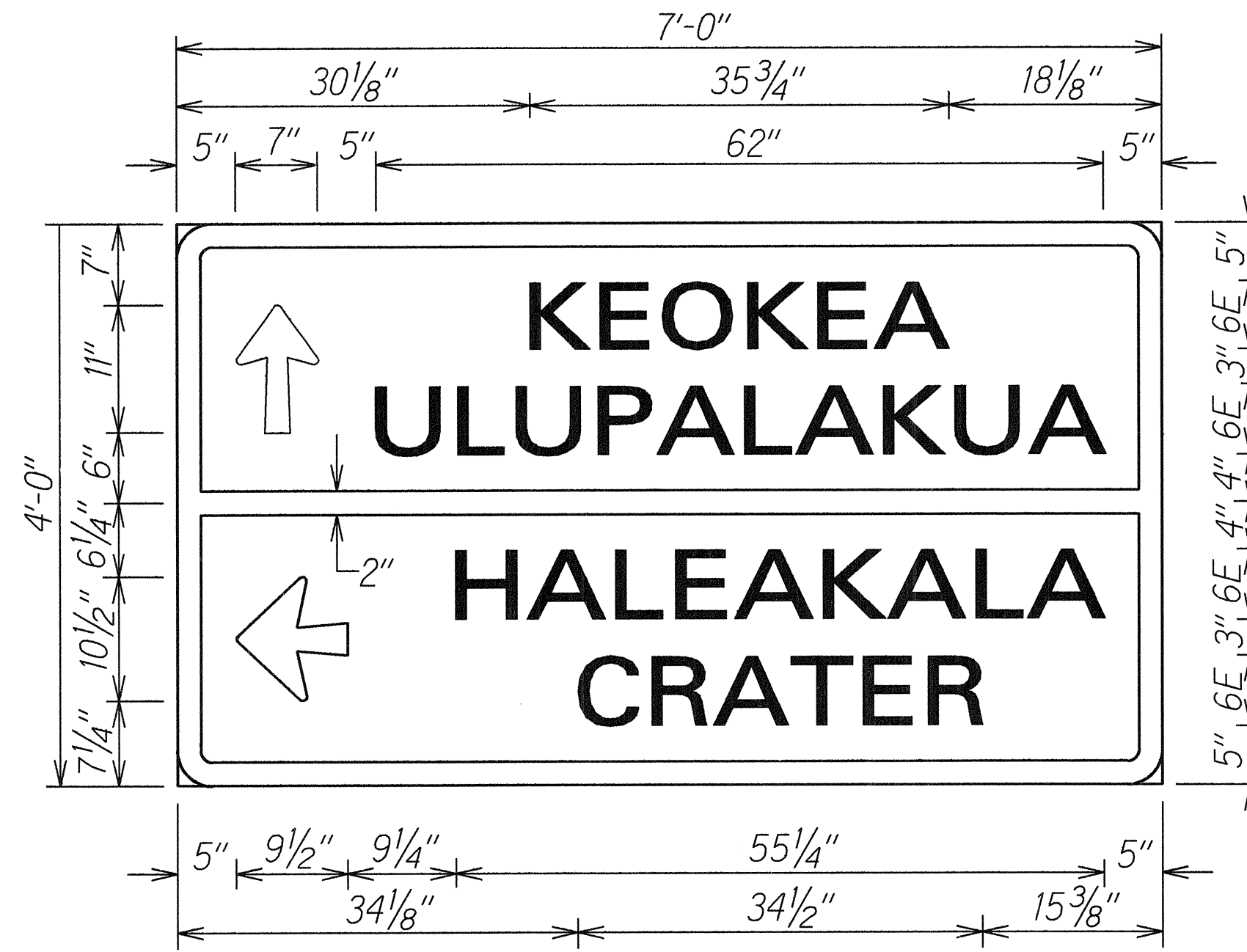
**D-1**

Sta. 22+40± Rt.  
Use 2-2.5 Lbs./Ft. Flanged Channel Post



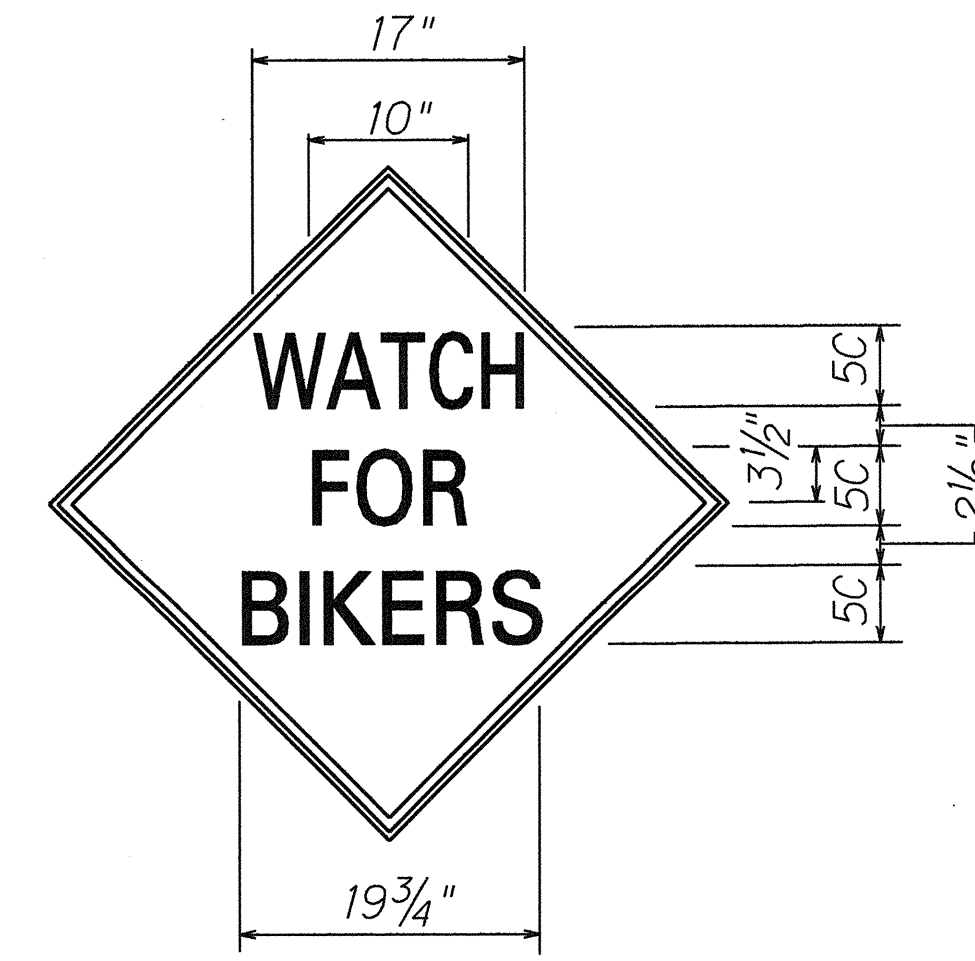
**D-2**

Sta. 77+58± Lt.  
Use 2-2.5 Lbs./Ft. Flanged Channel Post



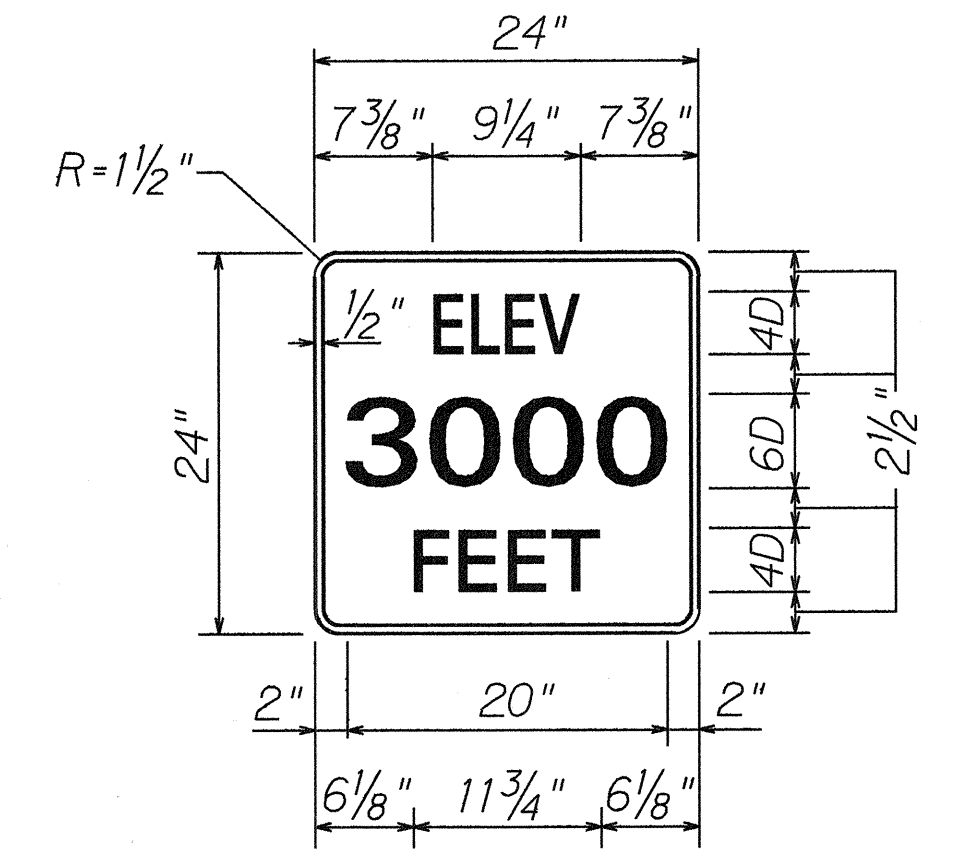
**D-3**

Sta. 335+00± Rt.  
Use 3-4 Lbs./Ft. Flanged Channel Post



**W5-4a**

Scale: 1" = 1'-0"



**I-15**

Scale: 1" = 1'-0"

**INSTALLATION OF PAVEMENT MARKING & SUMMARY**

LOCATION	QUANTITY			
	4-INCH WHITE EDGE STRIPE (TAPE, TYPE II OR THERMOPLASTIC EXTRUSION)	8-INCH WHITE EDGE STRIPE (TAPE, TYPE II OR THERMOPLASTIC EXTRUSION)	12-INCH WHITE PAVEMENT STRIPE (THERMOPLASTIC EXTRUSION)	TYPE C1 RAISED PAVEMENT MARKERS @ 40'-0" O.C.
Sta. 22+45± Rt. & Lt. to Sta. 337+12± Rt. & Lt.	56,420 L.F.			1,414 EA.
Sta. 209+00± Rt. to Sta. 225+50± Rt.		1,650 L.F.		42 EA.
Sta. 209+00± Lt. to Sta. 225+50± Lt.		1,650 L.F.		42 EA.
Sta. 309+65± Rt. to Sta. 317+15± Rt.		1,610 L.F.		41 EA.
Sta. 319+95± Lt. to Sta. 327+45± Lt.		1,610 L.F.		41 EA.
Sta. 73+14± Lt. to Sta. 73+10± Lt.			12 L.F.	
Sta. 74+14± Lt. to Sta. 74+40± Lt.			28 L.F.	
<b>TOTAL</b>	<b>56,420 L.F.</b>	<b>6,520 L.F.</b>	<b>40 L.F.</b>	<b>1,580 EA.</b>

**INFORMATIONAL SIGN AND SUMMARY**

LOCATION	SIGN NO.	MESSAGE	QUANTITY W/POST
Sta. 72+35 Rt.	I-15 (2000)	ELEV 2000 FEET	1
Sta. 155+63 Rt.	I-15 (2500)	ELEV 2500 FEET	1
<b>TOTAL</b>			<b>2</b>

**DESTINATION SIGN SUMMARY**

SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.)	
				W/O POST	W/POSTS
D-1	Sta. 23+60 Rt.	HALEAKALA CRATER 28 ↑	7'-0" x 2'-0"		14
D-2	Sta. 77+58 Lt.	MAKAWAO, OLINDA →	6'-0" x 2'-6"		15
D-3	Sta. 335+00 Rt.	↑ KEOKEA, ULUPALAKUA ← HALEAKALA CRATER	7'-0" x 4'-0"		28
<b>TOTAL</b>				<b>0</b>	<b>57</b>

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLAN CHECKED BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 No. \_\_\_\_\_

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**TRAFFIC SIGN DETAILS & SUMMARIES**  
**HALEAKALA HIGHWAY**  
**Guardrail and Shoulder Improvement**  
**Kula Junction To Crater Road Junction**  
 Fed. Aid Project No. STP-0377(3)  
 Scale: 1" = 40'-0" Date: July, 1992  
 SHEET No. T16 OF 17 SHEETS













### ROUTE MARKER SUMMARY

SIGN ASSEMBLY	LOCATION	SIGN NO. AND MESSAGE	TYPE A ASSEMBLY		TYPE B ASSEMBLY	
			W/POST	W/O POST	W/POST	W/O POST
SM-1	Sta. 22+40 Rt.	M1-6(377) EAST 377	1			
SM-2	Sta. 23+30 Lt.	M1-6(37) SOUTH 37 NORTH 37 ↔ ↔			1	
SM-3	Sta. 27+00 Lt.	M1-6(37) JCT 37	1			
SM-4	Sta. 95+60 Rt.	M1-6(377) EAST 377	1			
SM-5	Sta. 95+60 Lt.	M1-6(377) WEST 377	1			
SM-6	Sta. 172+85 Rt.	M1-6(377) EAST 377	1			
SM-7	Sta. 172+85 Lt.	M1-6(377) WEST 377	1			
SM-8	Sta. 251+45 Lt.	M1-6(377) WEST 377	1			
SM-9	Sta. 251+80 Rt.	M1-6(377) EAST 377	1			
SM-10	Sta. 331+00 Rt.	M1-6(378) JCT 378	1			
SM-11	Sta. 335+75 Rt.	M1-6(377) 378 377 M1-6(378) ↘ ↗			1	
TOTAL			9	0	2	0

### REFLECTOR MARKER SUMMARY

TYPE	QUANTITY									
	W/O POST (BI-DIRECTIONAL)		W/STEEL POST		W/STEEL POST (BI-DIRECTIONAL)		W/FLEXIBLE POST TYPE B		W/FLEXIBLE POST (BI-DIRECTIONAL) TYPE B	
	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE	YELLOW	WHITE
RM2						261		14		248
RM3	49		18		106			6		
RM4			8							

### TRAFFIC SIGN SUMMARY

SIGN NO.	MESSAGE	QUANTITY		
		10 SQ. FT. OR LESS		GREATER THAN 10 SQ. FT.
		W/POST	W/O POST	W/POST
R1-1	STOP	5		
R2-1(30)	SPEED LIMIT 30	10		
W1-1(R)		2		
W1-1(L)		1		
W1-3(L)		2		
W1-5(R)		9		
W1-5(L)		6		
W1-8(R)		3		
W1-8(L)		3		
W2-2(R)		3		
W2-2(L)		1		
W4-1(L)		1		
W5-1	ROAD NARROWS	4		
W5-4a	WATCH FOR BIKERS	13		
W11-2	ADVANCE PEDESTRIAN CROSSING	2		
W11A-2	PEDESTRIAN CROSSING	2		
W13-1(15)	15 MPH		6	
W13-1(20)	20 MPH		4	
W13-1(25)	25 MPH		7	
W17-1(R)				1
W17-1(L)				1
TOTAL		69	17	2

### CONSTRUCTION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	W/POSTS	W/O POST
CW20-1d	Sta. 0+00± Rt.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Sta. 0+00± Lt.	END CONSTRUCTION	1	
CW20-1d	Sta. 152+00± Rt.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Sta. 152+00± Lt.	END CONSTRUCTION	1	
CG20-2	Sta. 164+00± Rt.	END CONSTRUCTION	1	
CW20-1d	Sta. 164+00± Lt.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Route 378 Sta. 342+00± Rt.	END CONSTRUCTION	1	
CW20-1d	Route 378 Sta. 342+00± Lt.	ROAD CONSTRUCTION AHEAD	1	
CG20-2	Kekaulike Hwy. Sta. 5+00± Rt.	END CONSTRUCTION	1	
CW20-1d	Kekaulike Hwy. Sta. 5+00± Lt.	ROAD CONSTRUCTION AHEAD	1	
TOTAL			10	0

### INSTALLATION OF MILEPOST MARKERS & SUMMARY

MILE POST NO.	LOCATION	QUANTITY W/SUPPLEMENTAL ROUTE NO. PLATE (BI-DIRECTIONAL) W/POST
1	Sta. 72+30 Rt.	1
2	Sta. 126+15 Rt.	1
3	Sta. 179+80 Rt.	1
4	Sta. 231+20 Rt.	1
5	Sta. 283+98 Rt.	1
TOTAL		5

SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 ORIGINAL PLAN \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 N. \_\_\_\_\_