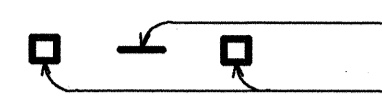
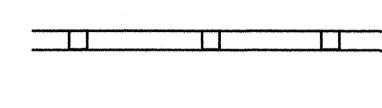
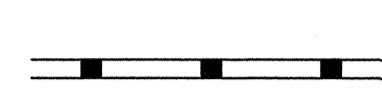




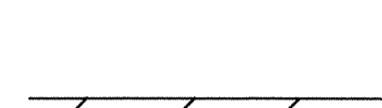


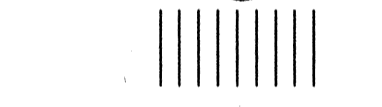





NOTES

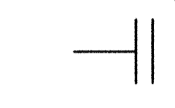
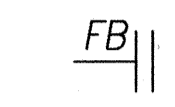
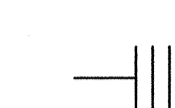
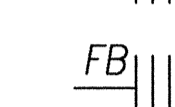

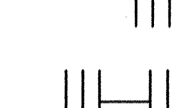
1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement 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.
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 sign panels shall conform to Section 621 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control devices for Streets and Highways" (MUTCD)
 - b. "Standard Highway Signs"
 - c. "Standard Alphabets for Highway Signs"
12. State Route Marker Symbols, borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
13. All new and relocated signs and markers installed on pipe posts, light standard or expressway sign post are to be mounted with band brackets and steel braces.
14. Removal of existing delineators and posts, as directed by the Engineer or shown on the plans, shall be considered incidental to the various signing items.
15. Removal and reinstalling existing street name signs on regulatory and warning sign post shall not be paid for separately but shall be considered incidental to the various signing items.
16. The Contractor shall notify the Oahu Transit Services Inc. (OTS), Ed Sniffen, at 848-4571 or Lowell Tom at 848-4578 two weeks prior to beginning any work, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.
17. The Contractor shall install new Type II Object Marker (Bi-Directional) on all utility poles and trees that are within the State Highway Right-of-Way as directed by the Engineer.
18. The Contractor shall erect and maintain at the beginning and end of the work area advance construction warning signs placed as indicated on the plans or as directed by the Engineer for the duration of the highway project. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Traffic Control. The advance construction warning signs shall be new and become the property of the State. The Contractor shall remove, clean, and deliver the signs and posts to the Oahu District Baseyard or as directed by the Engineer upon the completion of the project.
19. The Contractor shall relocate all signs and mailboxes located within the 2' shoulder extension beyond the new edge of shoulder. Relocation of all signs and mailboxes shall be considered incidental to supposed A.C. Pavement work.

LEGEND

-  4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
-  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" or 8" White Edge Stripe with Type C
Raised Pavement Markers @ 40'-0" o.c. (Tape,
Type II or Thermoplastic Extrusion)
-  8" White Stripe with Type C Raised Pavement
Markers @ 20'-0" o.c. (Tape, Type I 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)
-  STOP 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)
-  Blue Fire Hydrant Marker

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | 46 | 121 |

LEGEND (con't)

-  Reflector Marker (RM-2, white) w/Steel Post
-  Reflector Marker (RM-2, white) w/Flexible
Delineator Post (Type B)
-  Reflector Marker (RM-3) w/Steel Post
-  Reflector Marker (RM-3) w/Flexible
Delineator Post (Type B)
-  Reflector Marker (RM-4(R or L)) w/Steel Post
-  Double-Sided Fire Hydrant Reflector
Marker (RM-3) w/Steel Post

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

CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

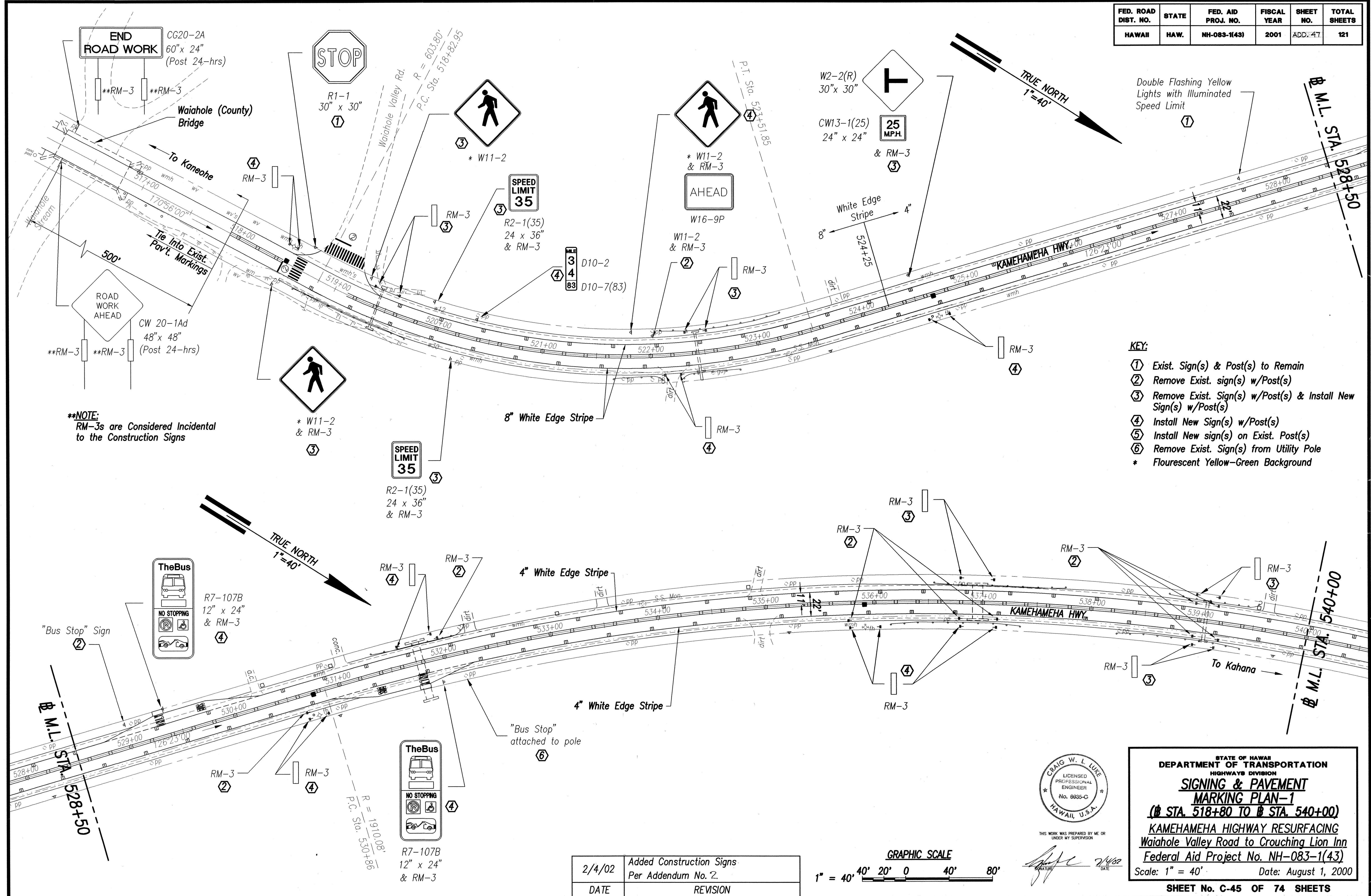
DATE: 8/1/00

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING
LEGEND, DETAILS & NOTES**

KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)
Not To Scale Date: August 1, 2000

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 47 | 121 |

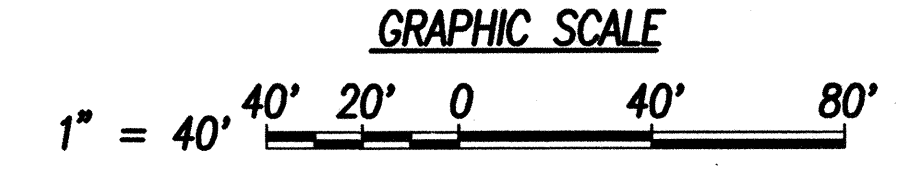


****NOTE:**
RM-3s are Considered Incidental to the Construction Signs

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole
- * Fluorescent Yellow-Green Background

| | |
|-------------------|--|
| DATE | |
| SURVEY PLANNED BY | |
| DRAWN BY | |
| TRACED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN No. | |
| NOTE BOOK No. | |

| | |
|--------|--|
| 2/4/02 | Added Construction Signs Per Addendum No. 2. |
| DATE | REVISION |



CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6835-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

[Signature] 2/4/02 DATE

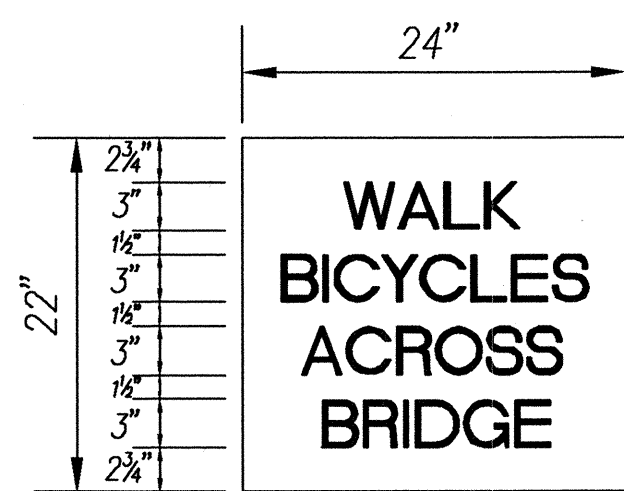
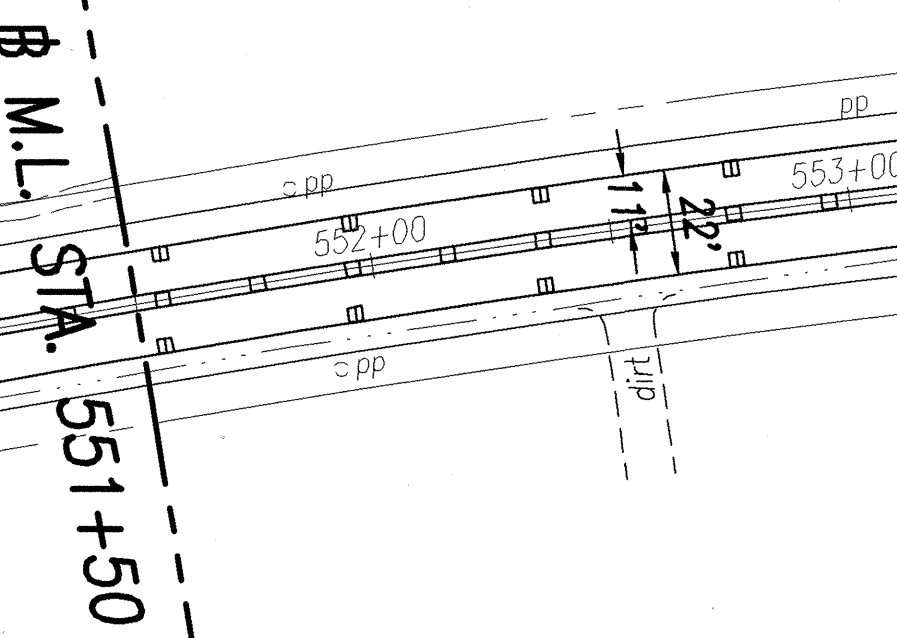
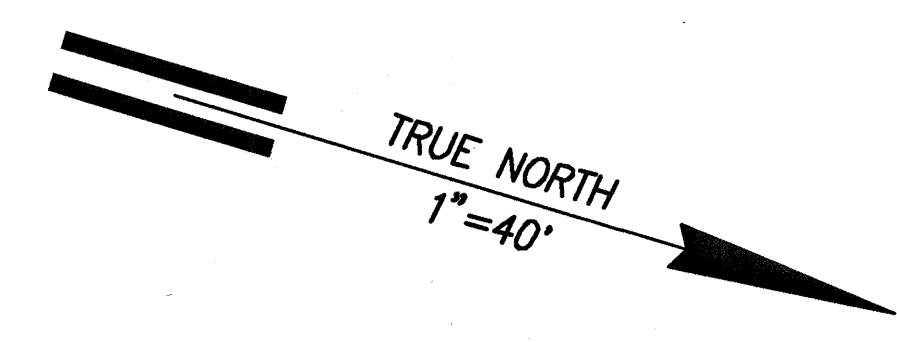
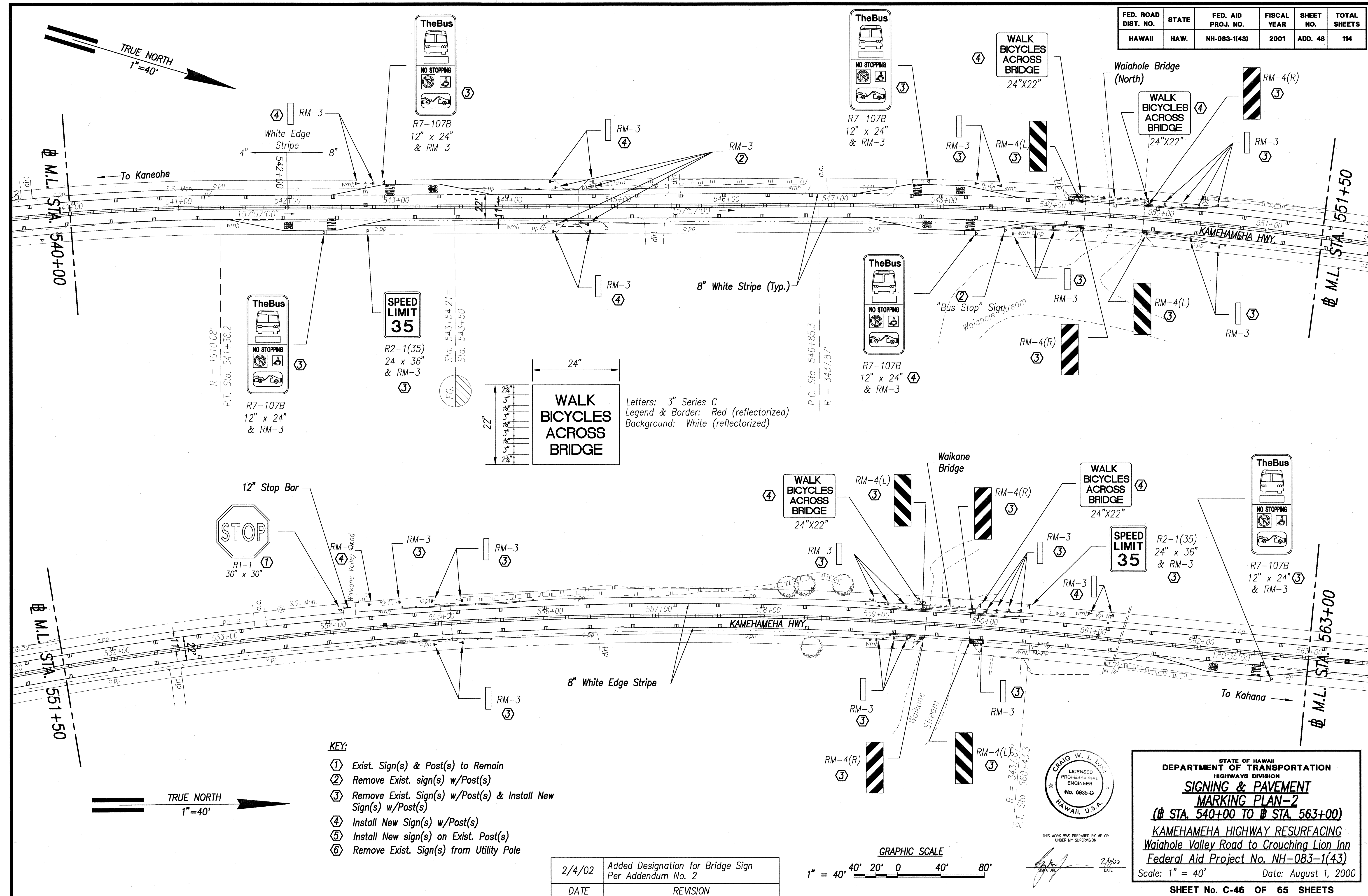
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN-1
(# STA. 518+80 TO # STA. 540+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

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

SHEET No. C-45 OF 74 SHEETS

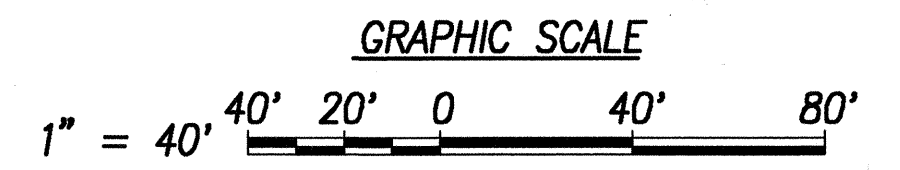
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 48 | 114 |



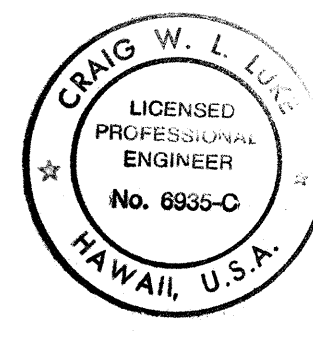
Letters: 3" Series C
 Legend & Border: Red (reflectorized)
 Background: White (reflectorized)

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole

| DATE | REVISION |
|--------|--|
| 2/4/02 | Added Designation for Bridge Sign Per Addendum No. 2 |



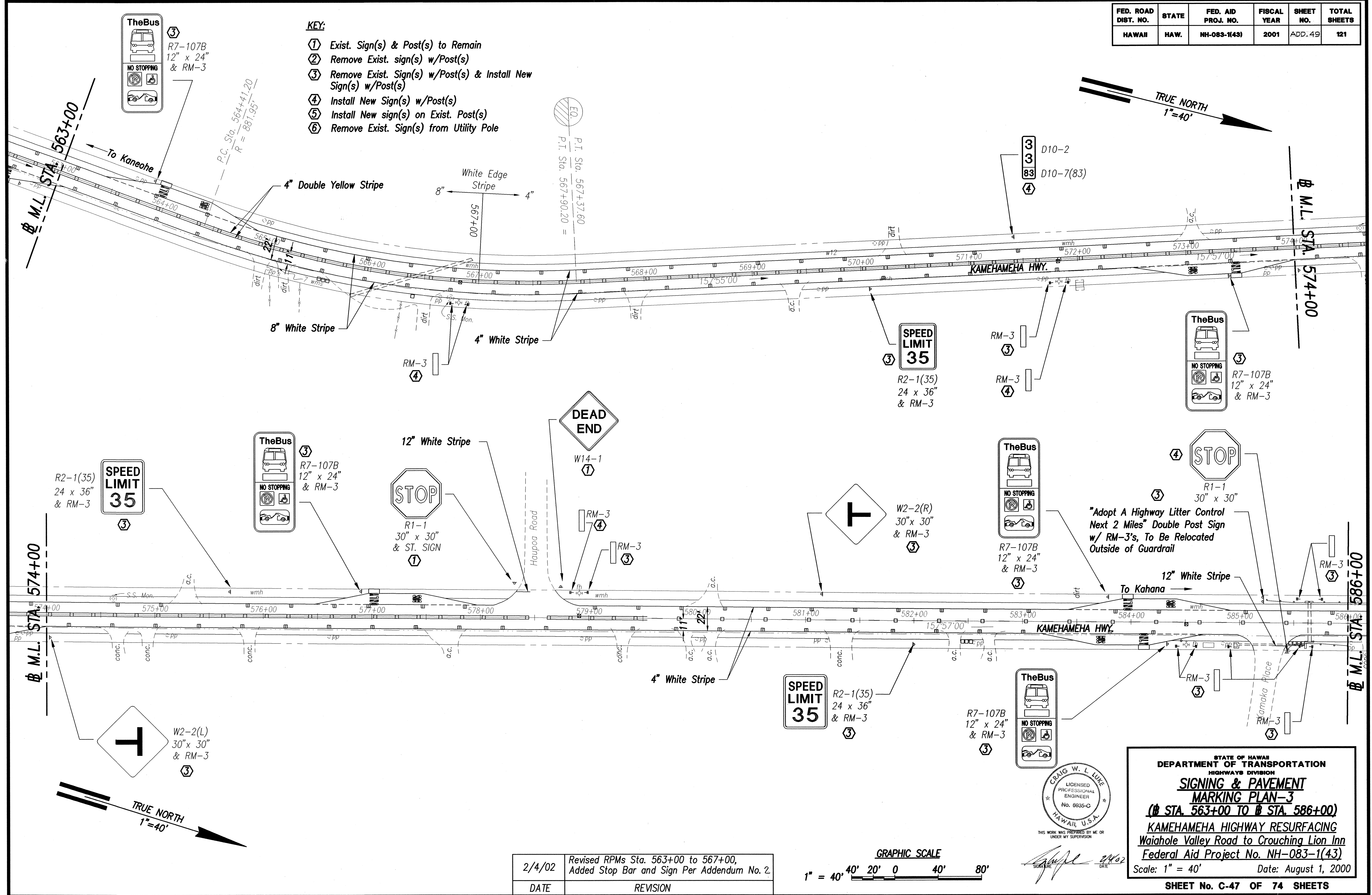
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|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| TRACED BY | |
| DESIGNED BY | |
| CHECKED BY | |
| ORIGINAL PLAN No. | |
| NOTE BOOK No. | |



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-2
 (# STA. 540+00 TO # STA. 563+00)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiahole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000

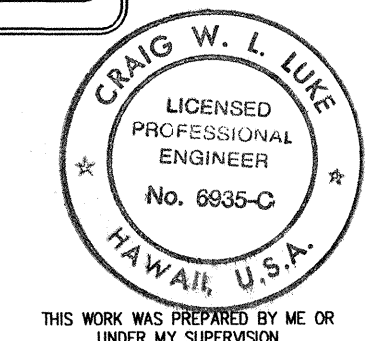
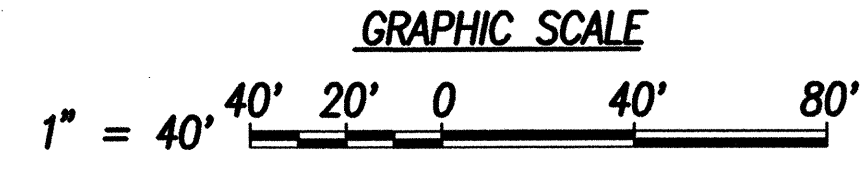
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 49 | 121 |

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole



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| DATE | |
| SURVEY PLANNED BY | |
| DRAWN BY | |
| TRACED BY | |
| DESIGNED BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| No. | |

| | |
|--------|--|
| 2/4/02 | Revised RPMs Sta. 563+00 to 567+00, Added Stop Bar and Sign Per Addendum No. 2 |
| DATE | REVISION |



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

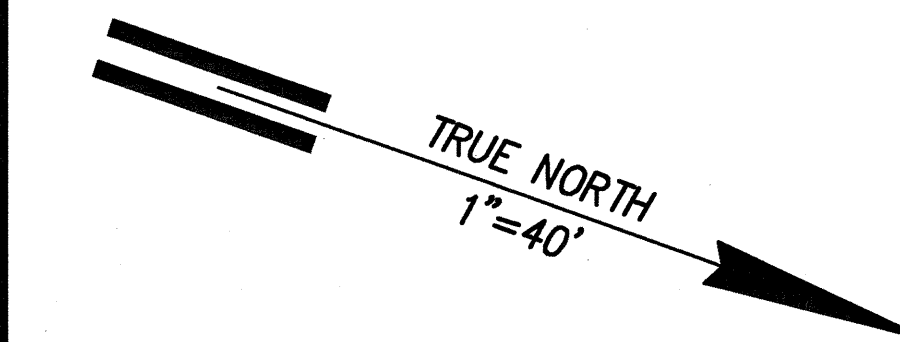
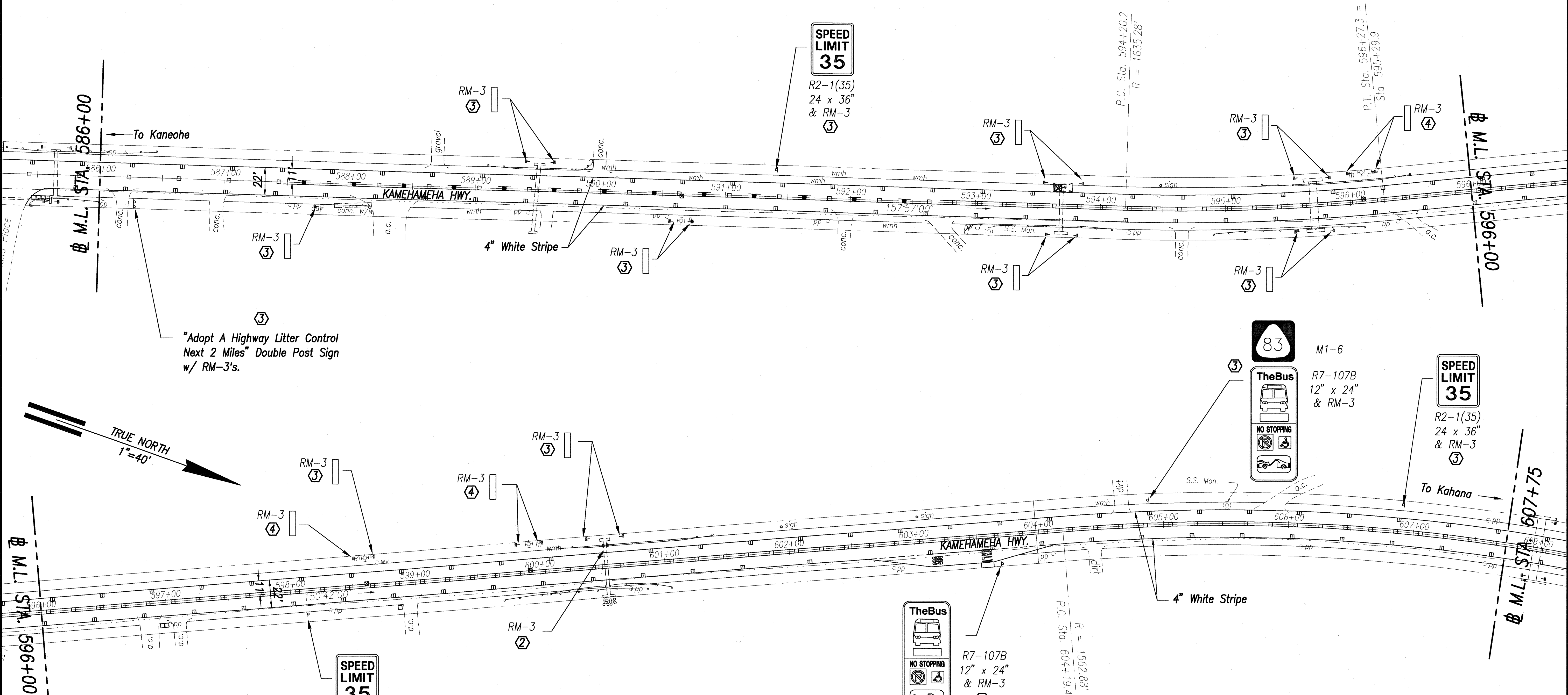
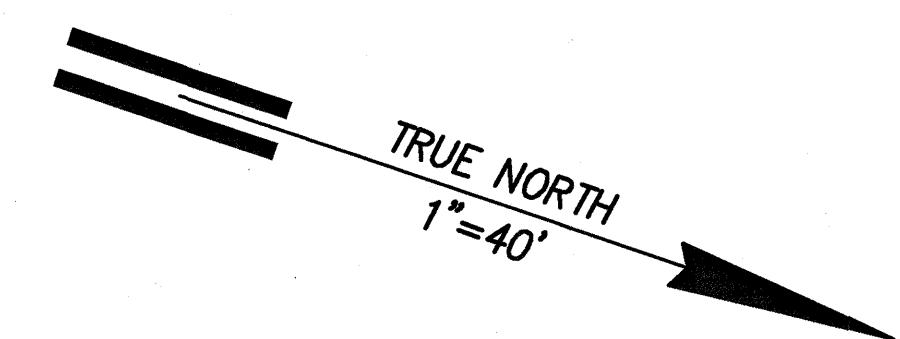
SIGNING & PAVEMENT MARKING PLAN-3
(# STA. 563+00 TO # STA. 586+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

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

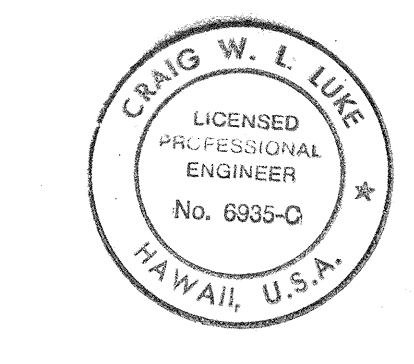
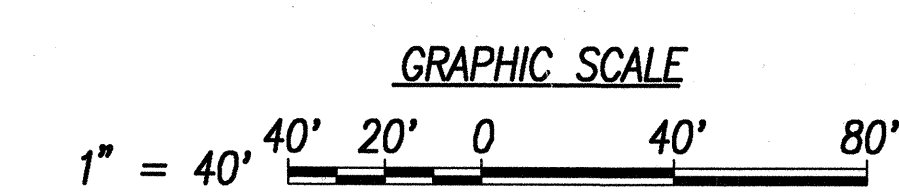
SHEET No. C-47 OF 74 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | 50 | 121 |

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole

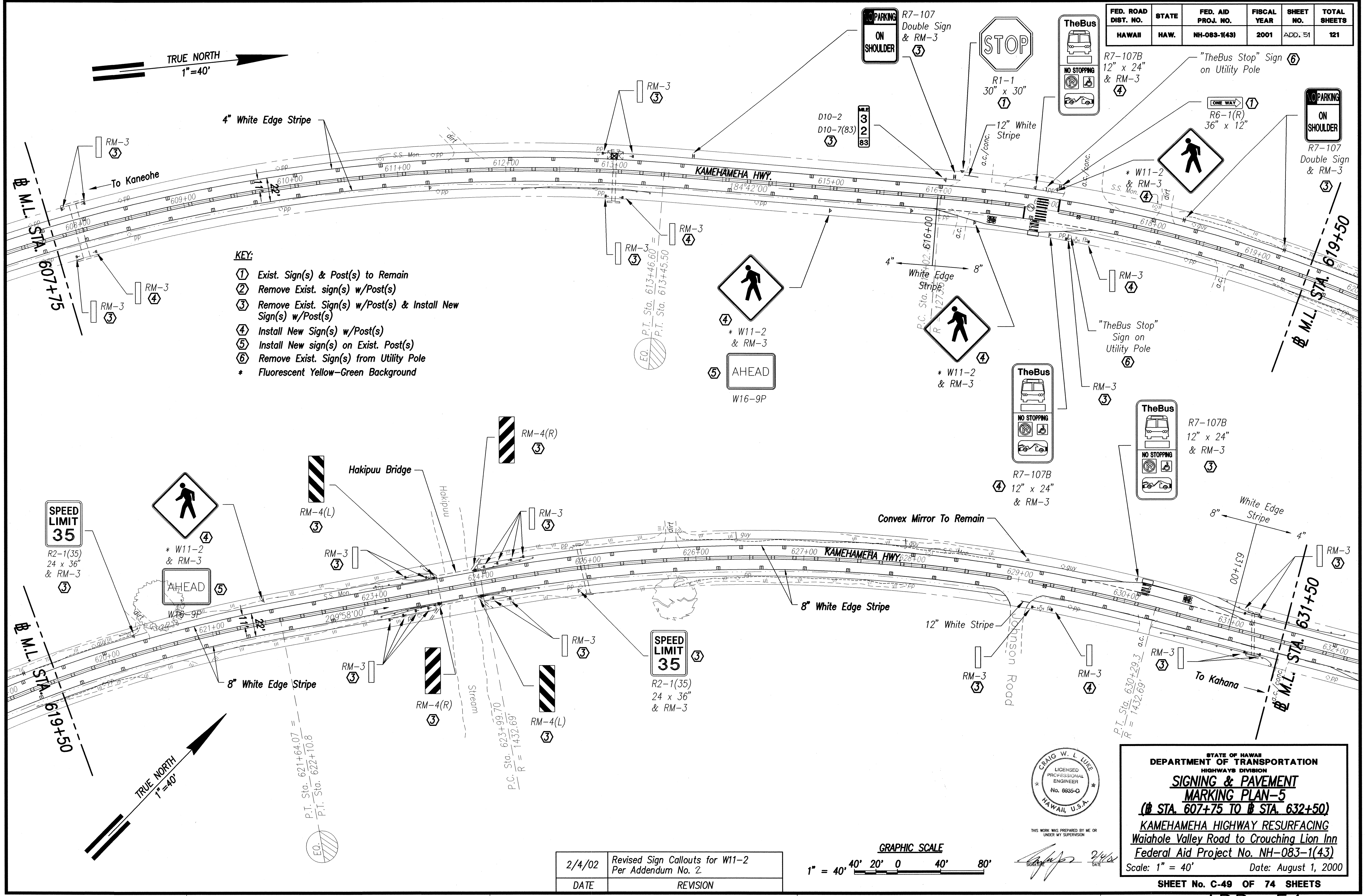
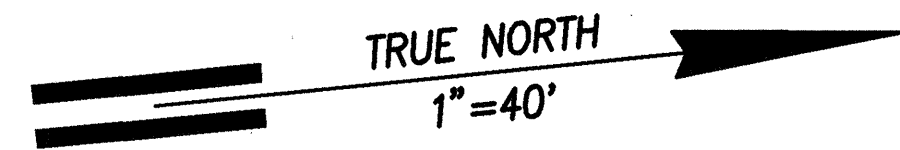


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| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| TRACED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| No. | |



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-4
 (# STA. 586+00 TO # STA. 607+75)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiohole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000

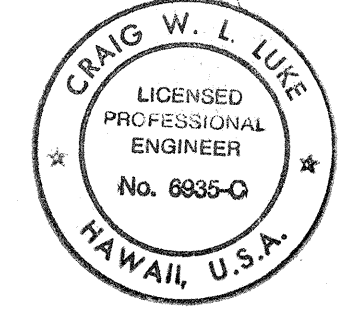
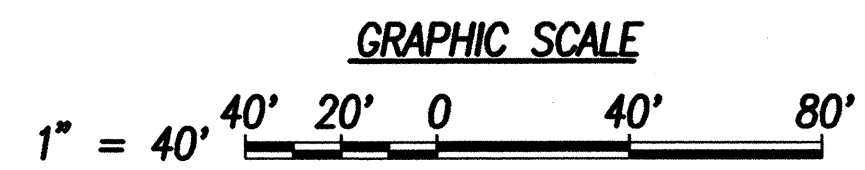
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 51 | 121 |



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole
- * Fluorescent Yellow-Green Background

| | |
|-------------------|-------|
| DATE | |
| SURVEY PLOTTED BY | |
| DRAWN BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN No. | |
| NOTE BOOK | |
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|--------|--|
| 2/4/02 | Revised Sign Callouts for W11-2 Per Addendum No. 2 |
| DATE | REVISION |



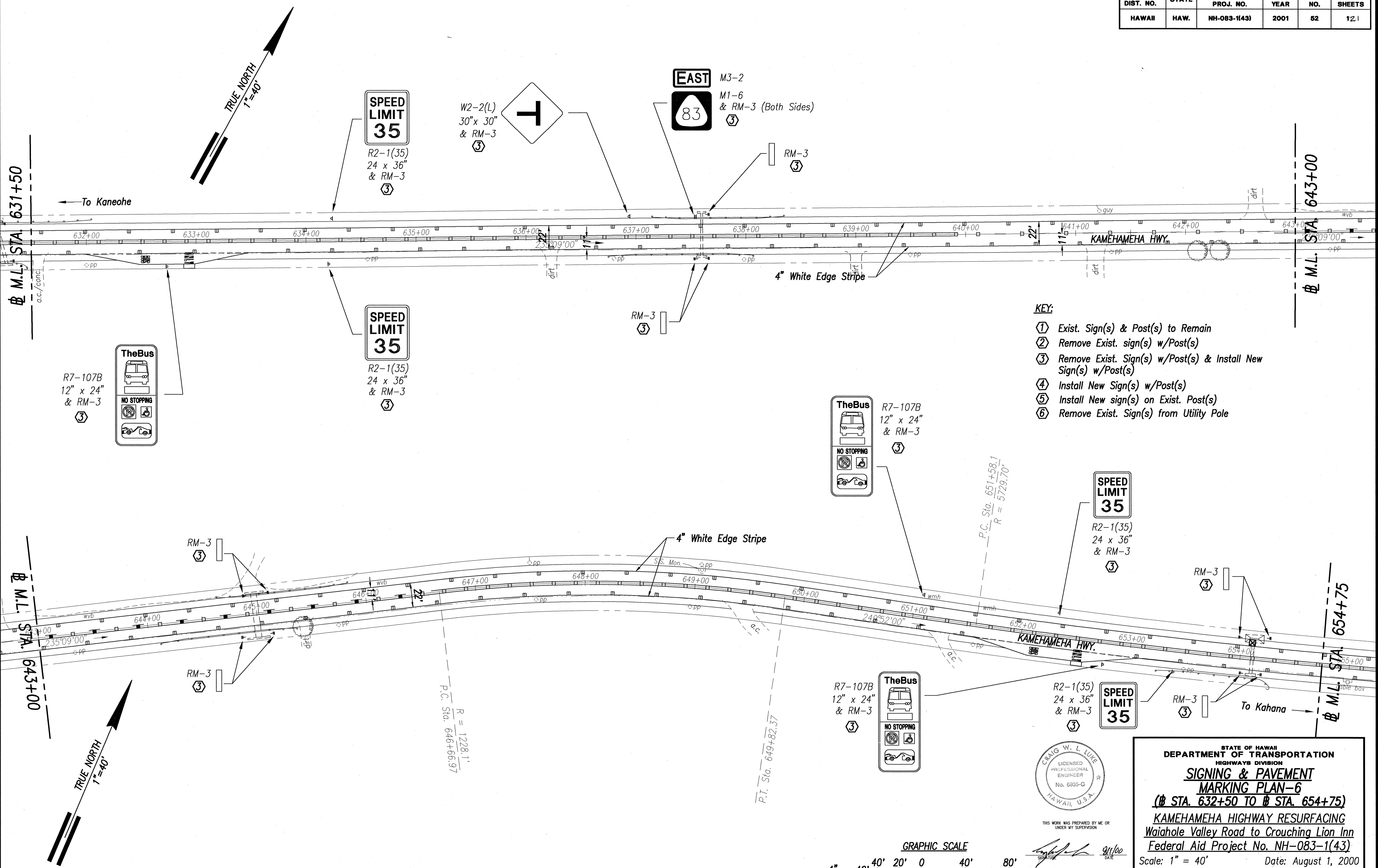
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN-5
(# STA. 607+75 TO # STA. 632+50)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

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

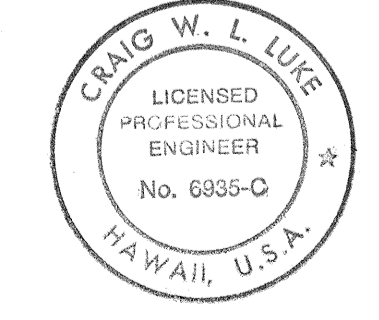
SHEET No. C-49 OF 74 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | 52 | 121 |

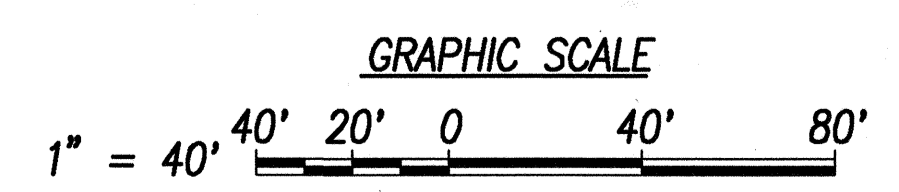


- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole

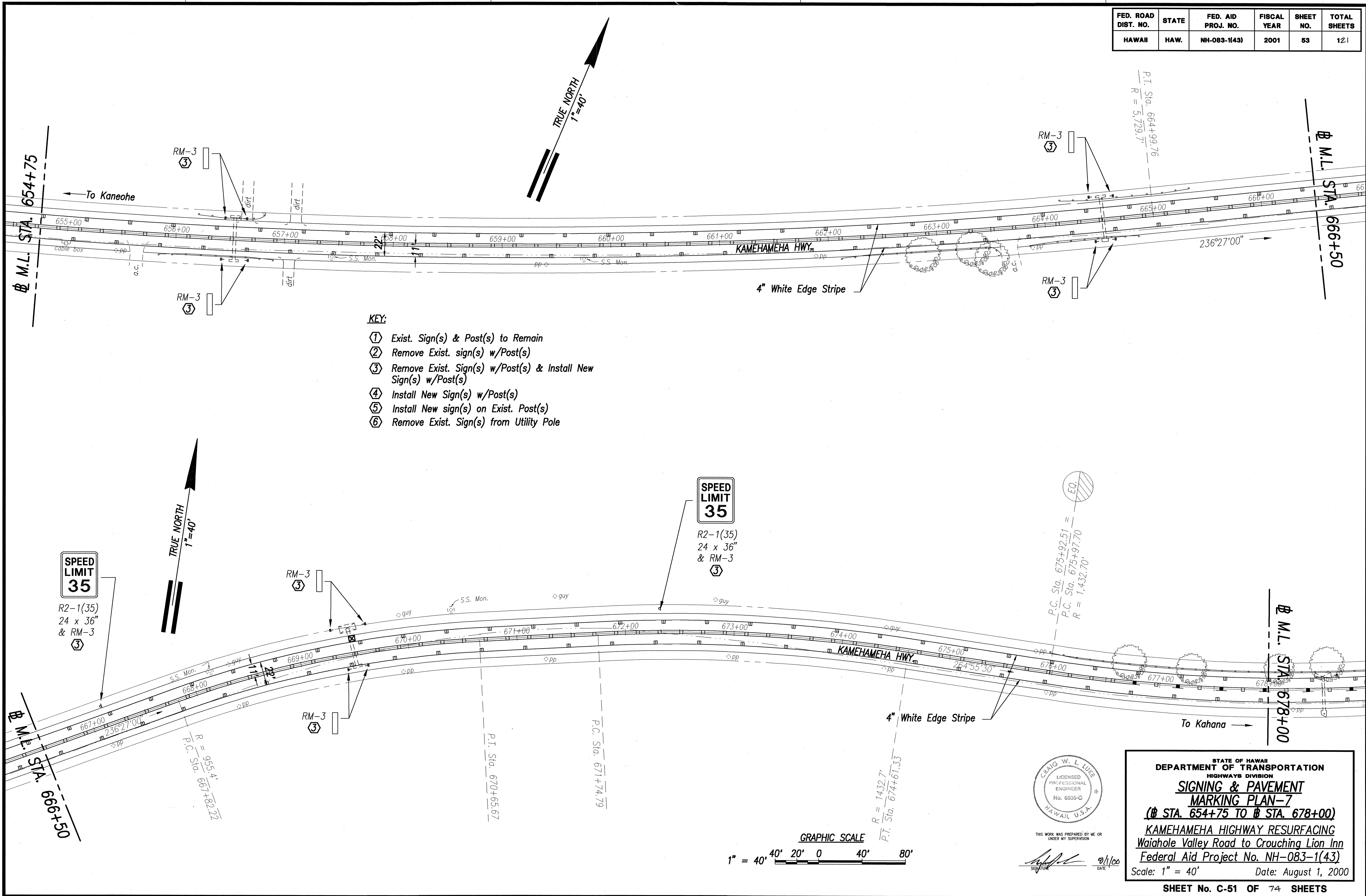
| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| No. | |



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-6
 (# STA. 632+50 TO # STA. 654+75)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiahole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000



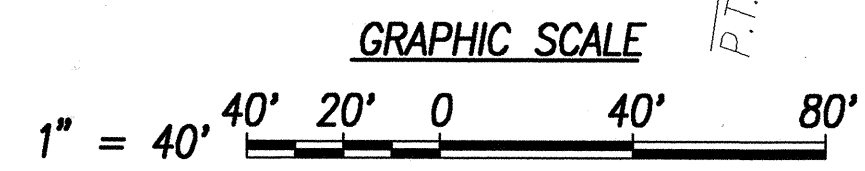
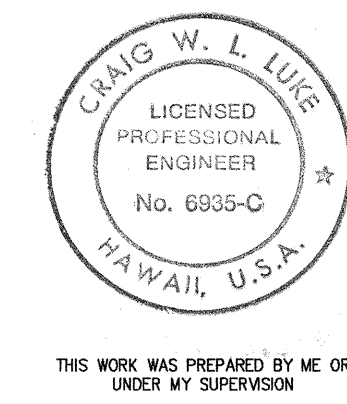
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | 53 | 121 |



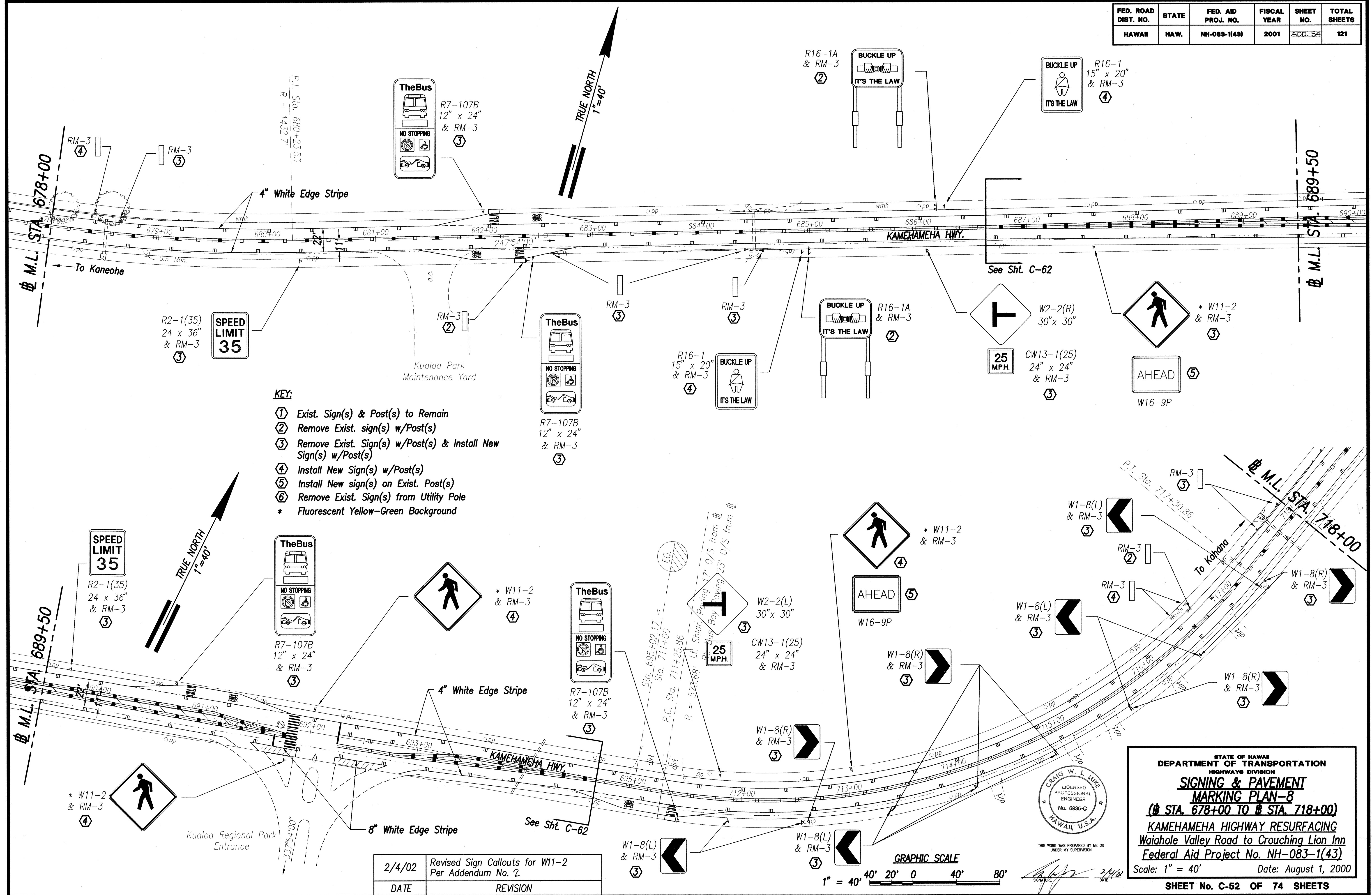
- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole

| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| TRACED BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| No. | |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-7
(Sta. 654+75 to Sta. 678+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)
Scale: 1" = 40' Date: August 1, 2000



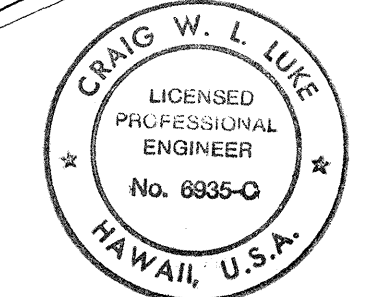
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 54 | 121 |



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole
- * Fluorescent Yellow-Green Background

| | |
|-------------------|--|
| DATE | |
| SURVEY PLANNED BY | |
| DRAWN BY | |
| TRACED BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| No. | |

| | |
|--------|--|
| 2/4/02 | Revised Sign Callouts for W11-2 Per Addendum No. 2 |
| DATE | REVISION |



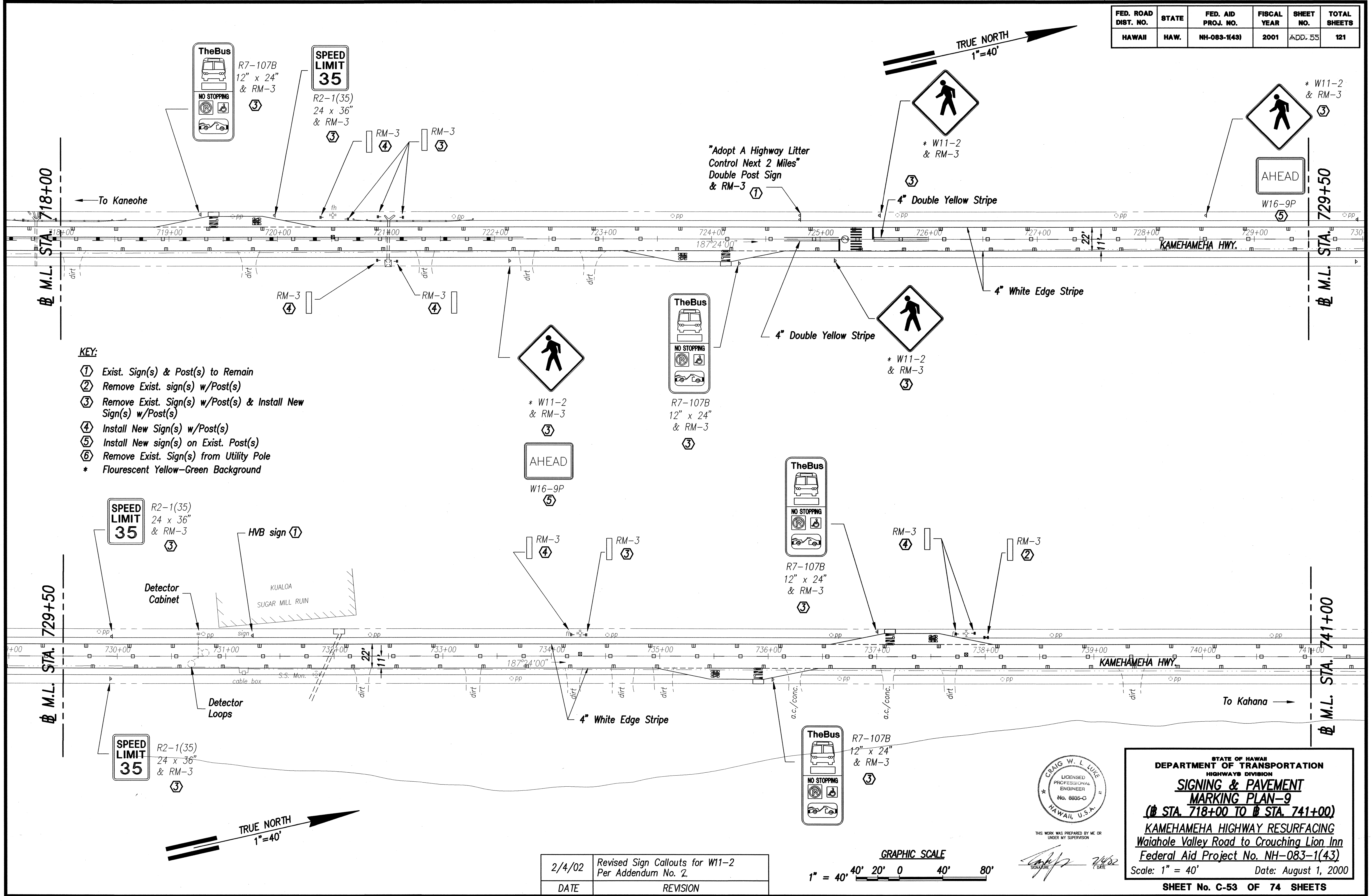
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN-8
(# STA. 678+00 TO # STA. 718+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

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

SHEET No. C-52 OF 74 SHEETS

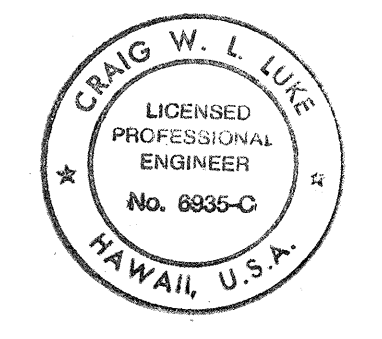
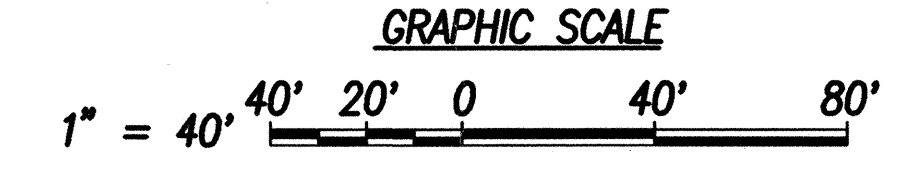
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 55 | 121 |



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole
- * Fluorescent Yellow-Green Background

| | |
|---------------|------|
| DESIGNED BY | DATE |
| TRACED BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| No. | |

| | |
|--------|--|
| 2/4/02 | Revised Sign Callouts for W11-2 Per Addendum No. 2 |
| DATE | REVISION |

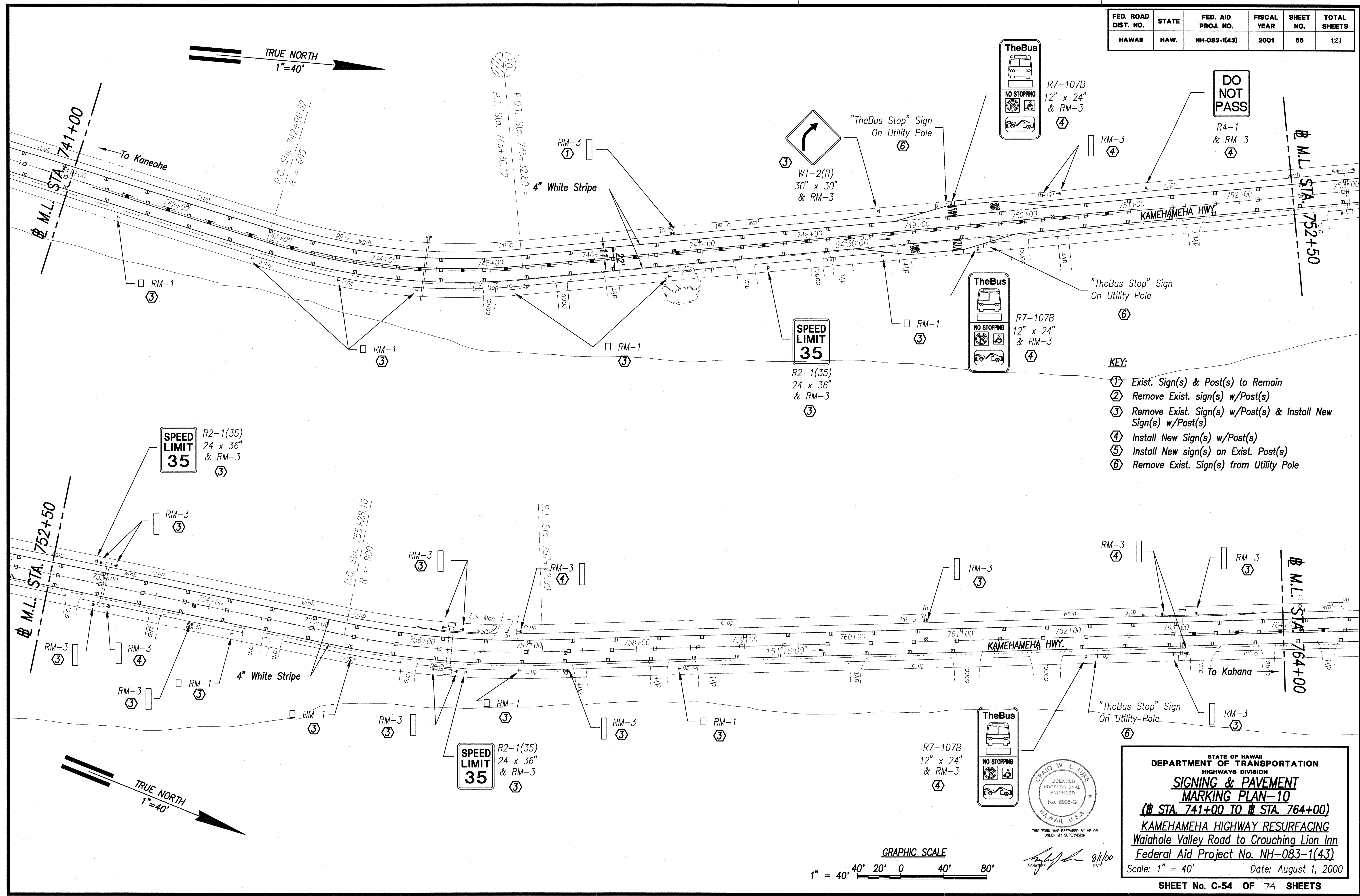


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN-9
(# STA. 718+00 TO # STA. 741+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)
Scale: 1" = 40' Date: August 1, 2000

SHEET No. C-53 OF 74 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | 56 | 121 |



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole

| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| TRACED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN | |
| NOTE BOOK | |
| No. | |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

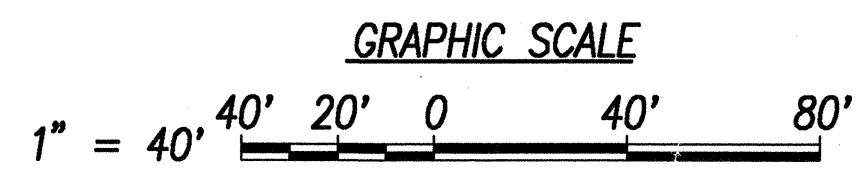
**SIGNING & PAVEMENT
MARKING PLAN-10**
(# STA. 741+00 TO # STA. 764+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waialeale Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)
Scale: 1" = 40' Date: August 1, 2000

SHEET No. C-54 OF 74 SHEETS

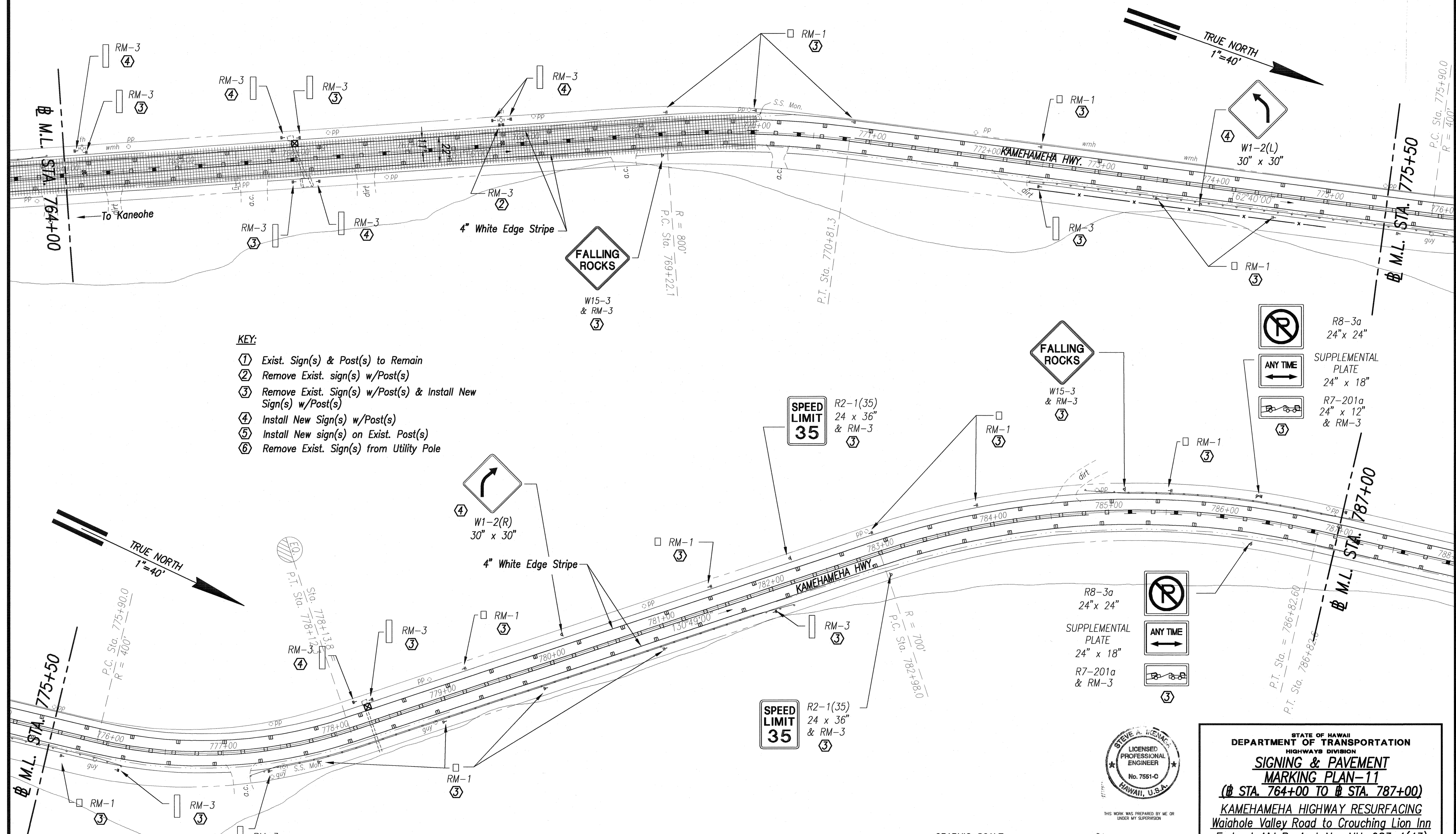
CRAIG W. L. LUKE
LICENSED PROFESSIONAL ENGINEER
No. 6935-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

SIGNATURE 8/1/00 DATE



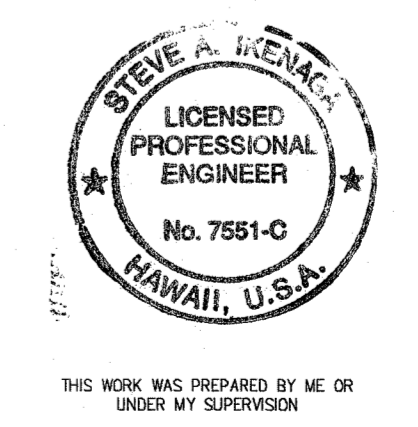
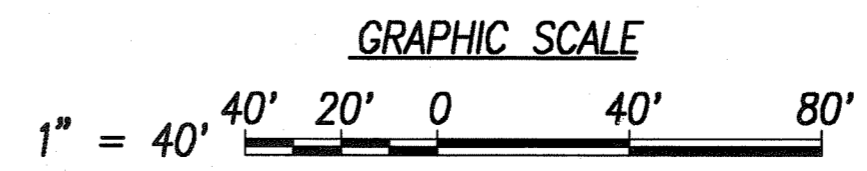
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | C.O. 57 | 114 |



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole

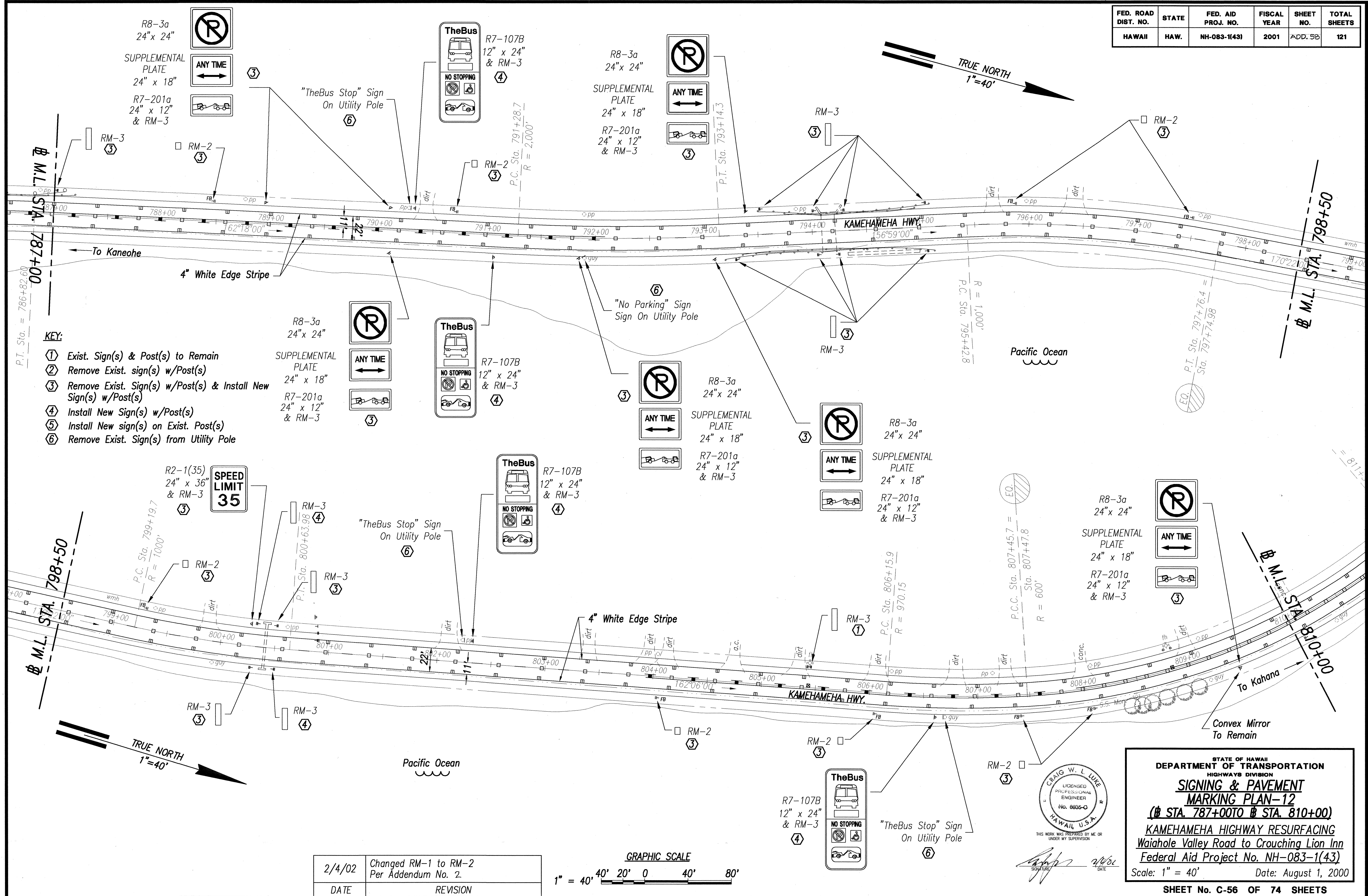
| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| TRACED BY | |
| CHECKED BY | |
| NOTE BOOK | |
| NO. | |

| DATE | REVISION |
|--------|-----------------------------------|
| 7/1/02 | Added W1-2 Signs Per Change Order |



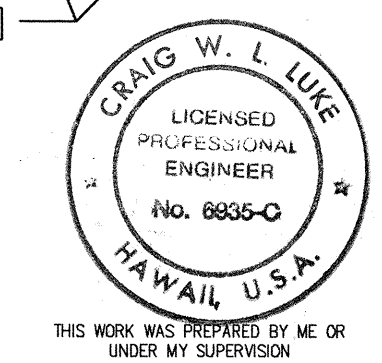
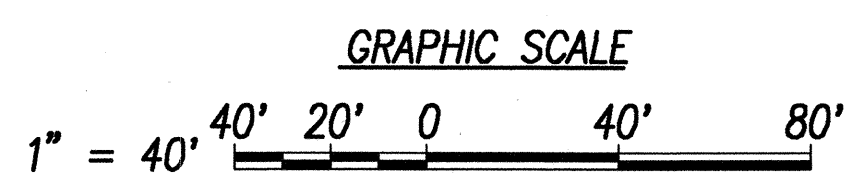
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-11
 (# STA. 764+00 TO # STA. 787+00)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiahole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 58 | 121 |



| | |
|---------------|---------------|
| DATE | DESIGNED BY |
| | QUANTITIES BY |
| | CHECKED BY |
| ORIGINAL PLAN | NO. |
| NOTE BOOK | |

| | |
|--------|---|
| 2/4/02 | Changed RM-1 to RM-2 Per Addendum No. 2 |
| DATE | REVISION |



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN-12
(# STA. 787+00 TO # STA. 810+00)

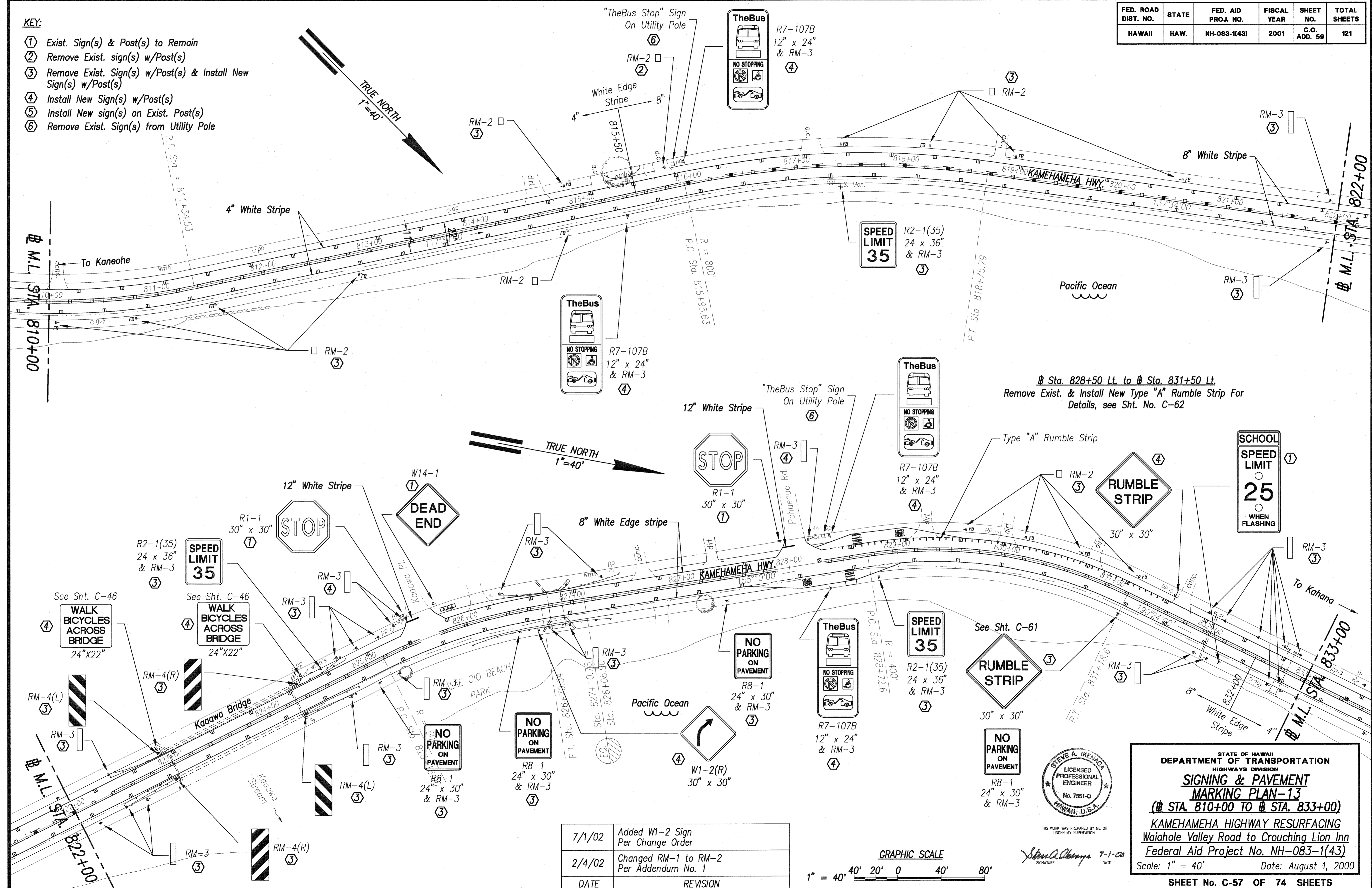
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

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

SHEET No. C-56 OF 74 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|--------------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | C.O. ADD. 59 | 121 |

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole



| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| DESIGNED BY | |
| CHECKED BY | |
| NOTE BOOK | |
| NO. | |

| DATE | REVISION |
|--------|---|
| 7/1/02 | Added W1-2 Sign Per Change Order |
| 2/4/02 | Changed RM-1 to RM-2 Per Addendum No. 1 |

STEVE A. IKENAGA
 LICENSED PROFESSIONAL ENGINEER
 No. 7551-C
 HAWAII, U.S.A.

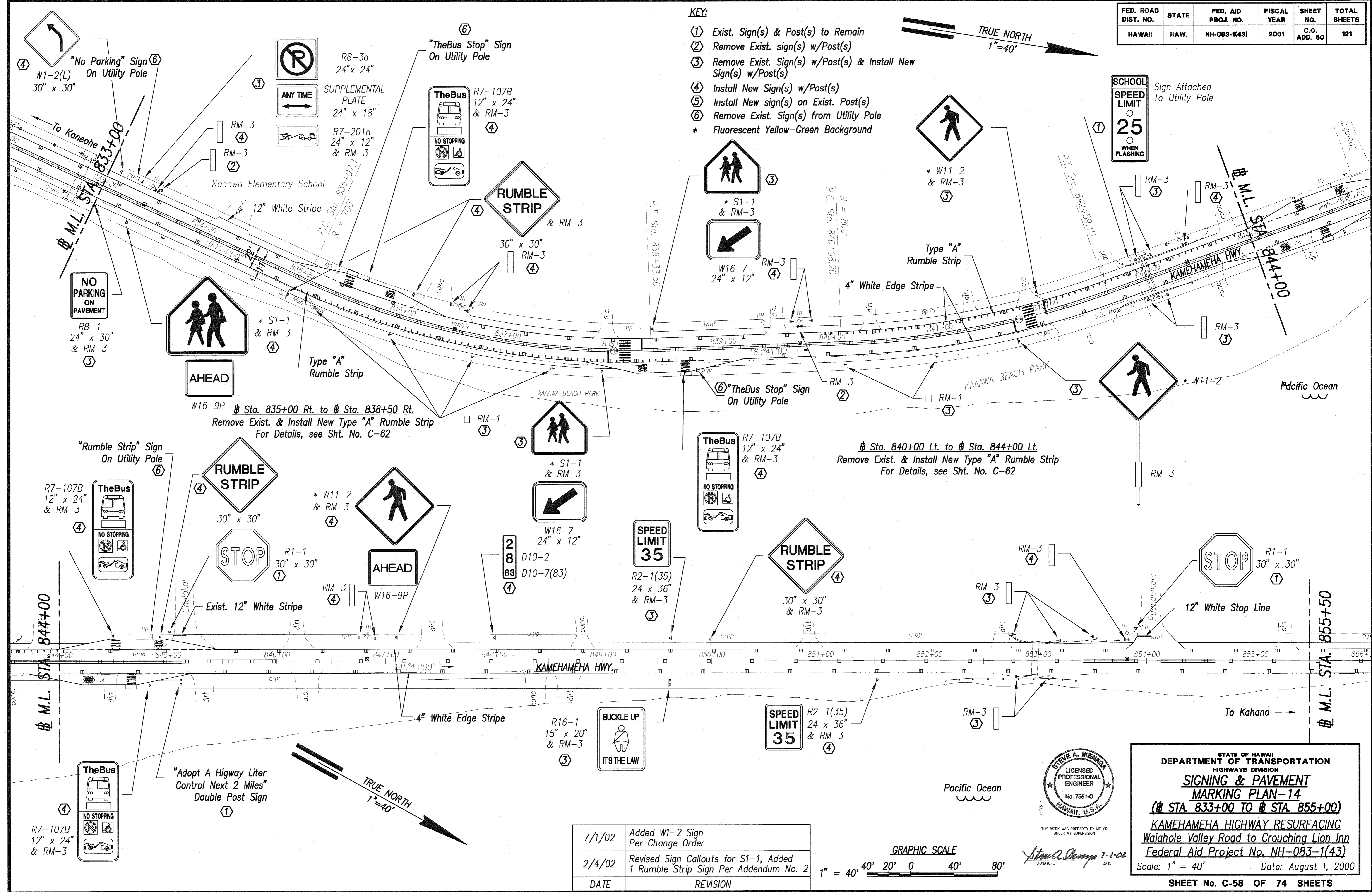
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *Steve A. Ikenaga* DATE: 7-1-02

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-13
 (# STA. 810+00 TO # STA. 833+00)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiahole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000
 SHEET No. C-57 OF 74 SHEETS

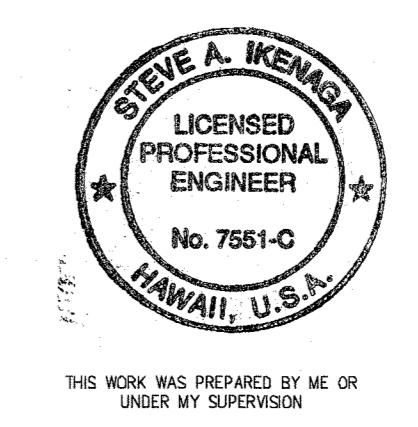
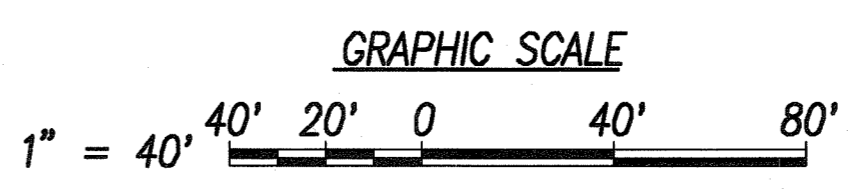
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|--------------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | C.O. ADD. 60 | 121 |

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole
 - * Fluorescent Yellow-Green Background



| | |
|---------------|-------------------|
| DATE | SURVEY PLOTTED BY |
| | DESIGNED BY |
| | TRACED BY |
| | DESIGNED BY |
| | CHECKED BY |
| | CHECKED BY |
| ORIGINAL PLAN | NO. |
| NOTE BOOK | NO. |

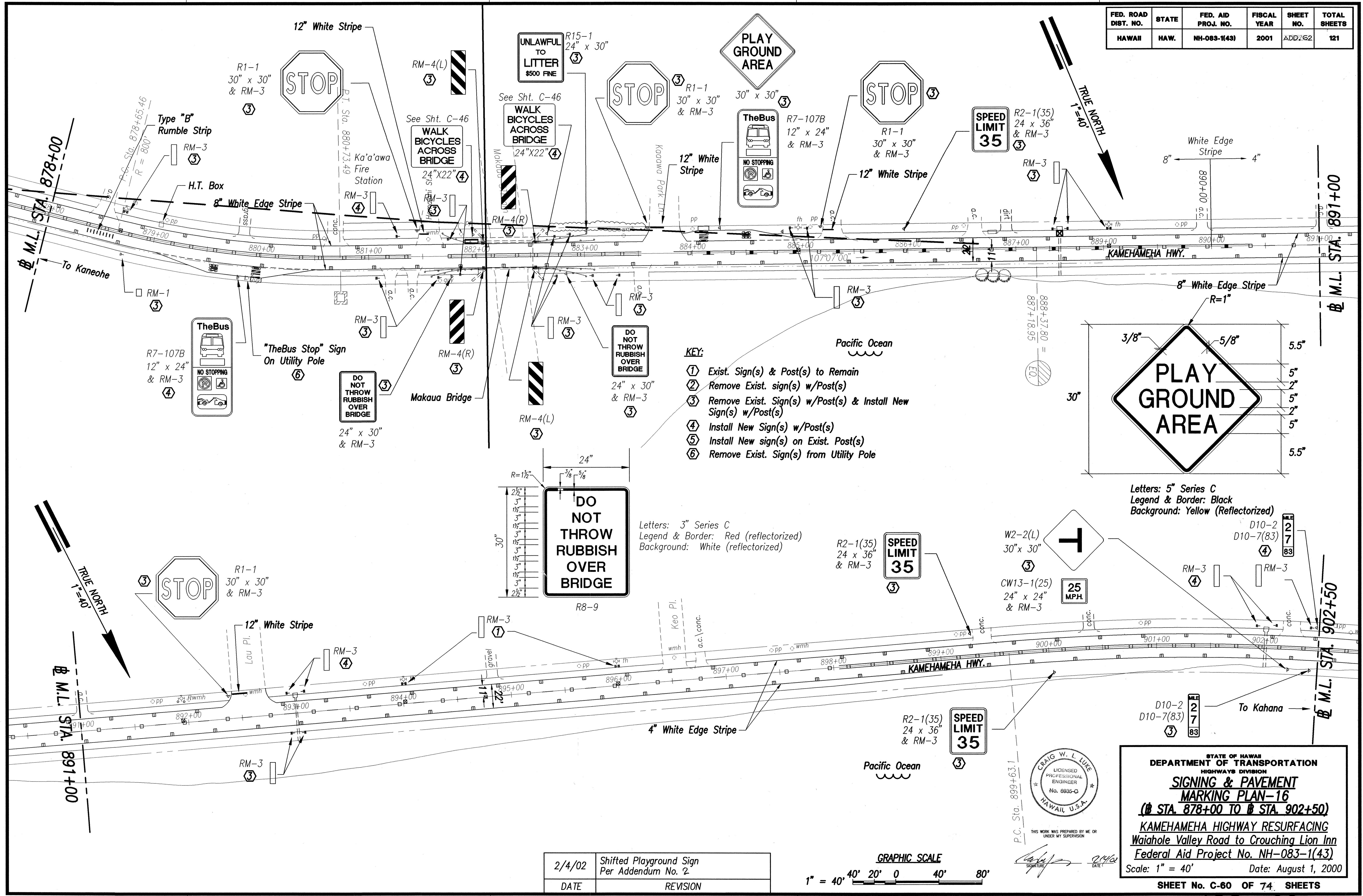
| DATE | REVISION |
|--------|--|
| 7/1/02 | Added W1-2 Sign Per Change Order |
| 2/4/02 | Revised Sign Callouts for S1-1, Added 1 Rumble Strip Sign Per Addendum No. 2 |



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-14
(# STA. 833+00 TO # STA. 855+00)
KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)
Scale: 1" = 40' Date: August 1, 2000
SHEET No. C-58 OF 74 SHEETS

C.O. ADD. 60

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD:62 | 121 |



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole



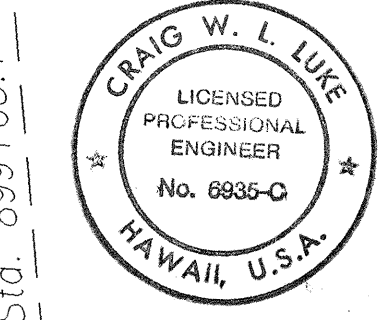
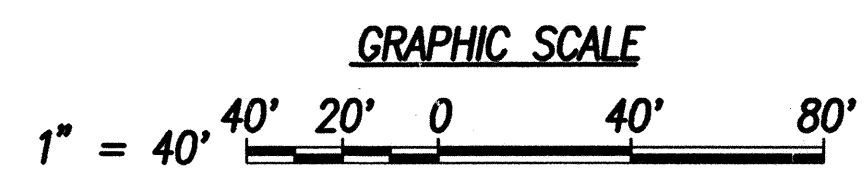
Letters: 3" Series C
 Legend & Border: Red (reflectORIZED)
 Background: White (reflectORIZED)



Letters: 5" Series C
 Legend & Border: Black
 Background: Yellow (ReflectORIZED)

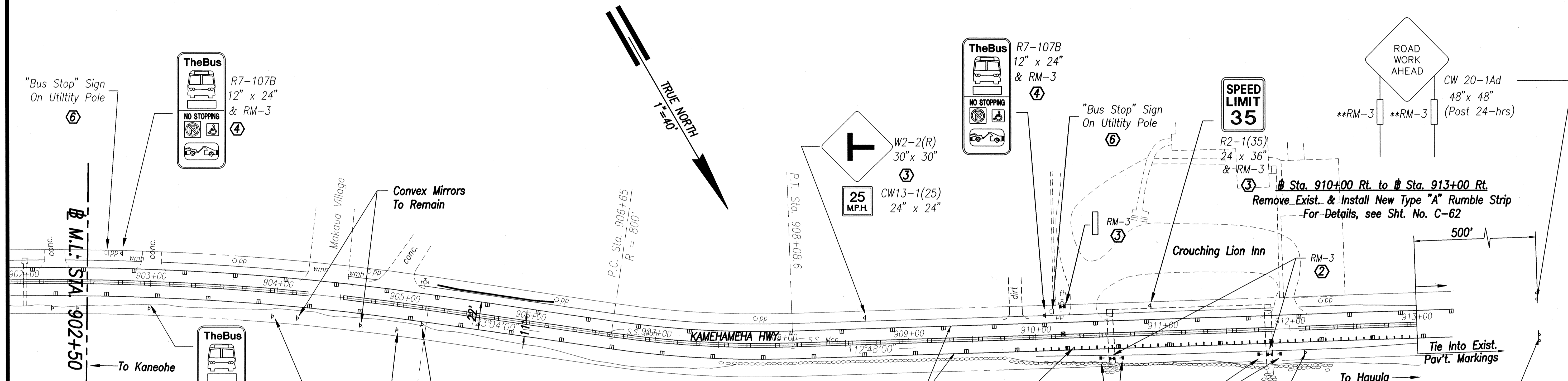
| | |
|--------------------|------|
| SURVEY PROVIDED BY | DATE |
| DRAWN BY | |
| TRACED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| ORIGINAL PLAN No. | |

| | |
|--------|--|
| 2/4/02 | Shifted Playground Sign Per Addendum No. 2 |
| DATE | REVISION |



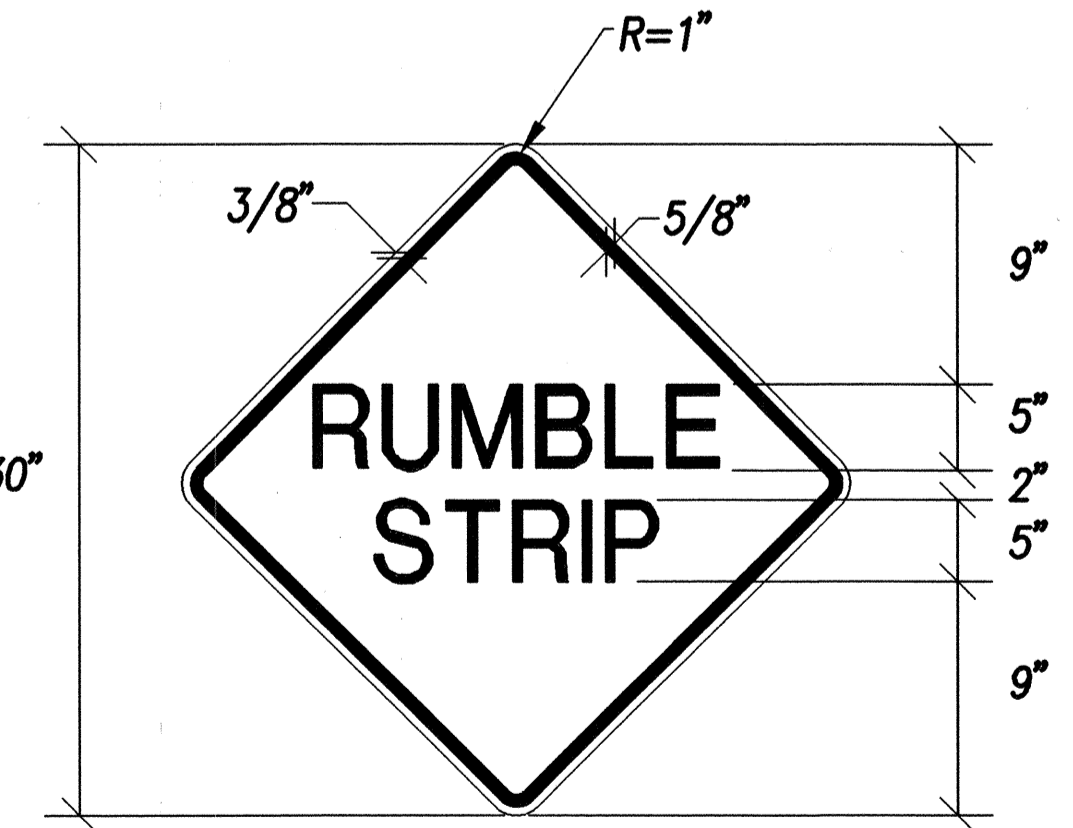
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-16
 (# STA. 878+00 TO # STA. 902+50)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiahole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 63 | 121 |



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. sign(s) w/Post(s)
 - ③ Remove Exist. Sign(s) w/Post(s) & Install New Sign(s) w/Post(s)
 - ④ Install New Sign(s) w/Post(s)
 - ⑤ Install New sign(s) on Exist. Post(s)
 - ⑥ Remove Exist. Sign(s) from Utility Pole

- R8-3a
24" x 24"
- ANY TIME
24" x 18"
- R7-201a & RM-3
24" x 12"

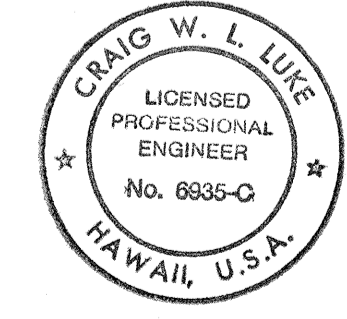
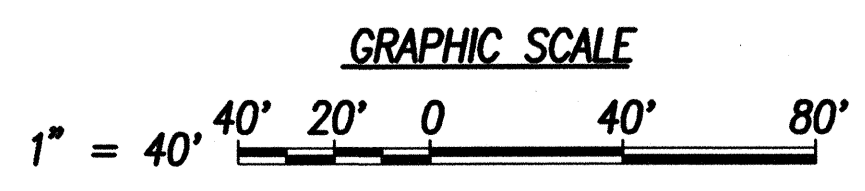


Letters: 5" Series C
Legend & Border: Black
Background: Yellow (Reflectorized)

****NOTE:**
RM-3s are Considered Incidental to the Construction Signs

| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| CHECKED BY | |
| DESIGNED BY | |
| QUANTITIES BY | |
| NOTED BY | |
| NO. | |

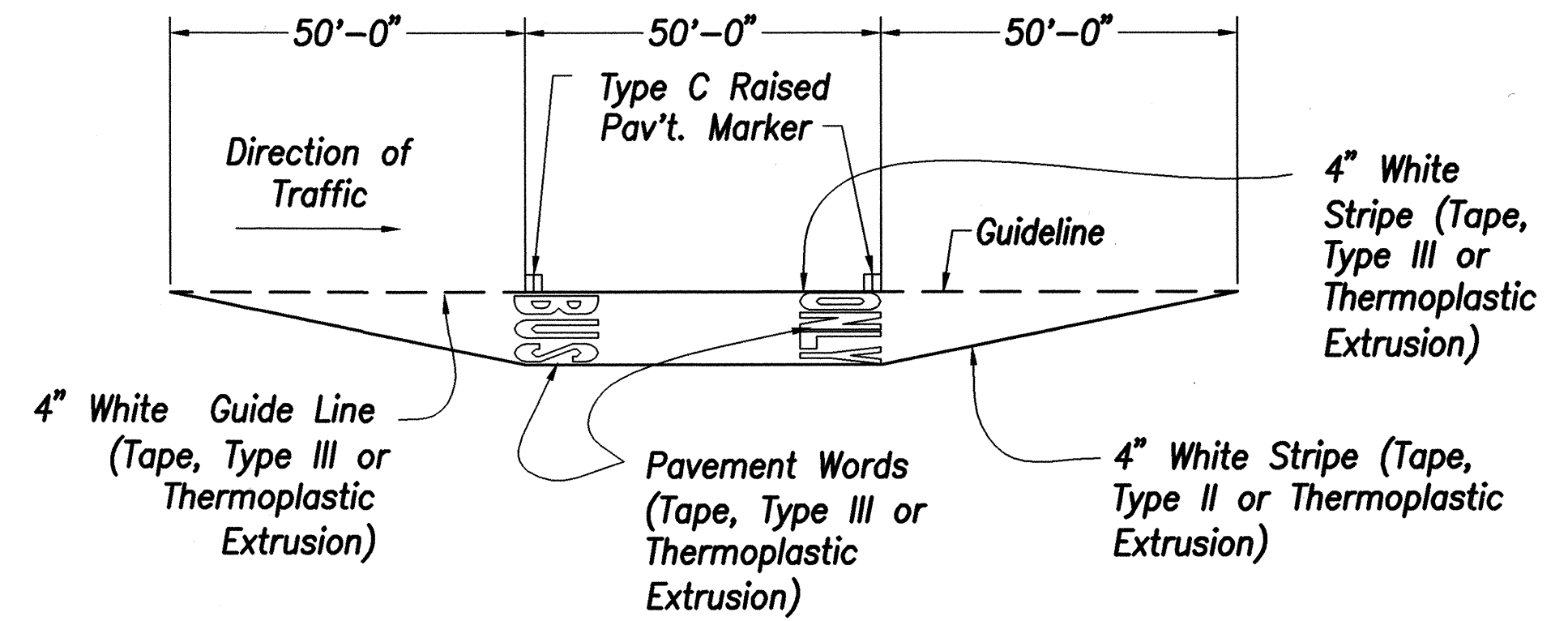
| | |
|--------|---|
| 2/4/02 | Added Construction Signs Per Addendum No. 2 |
| DATE | REVISION |



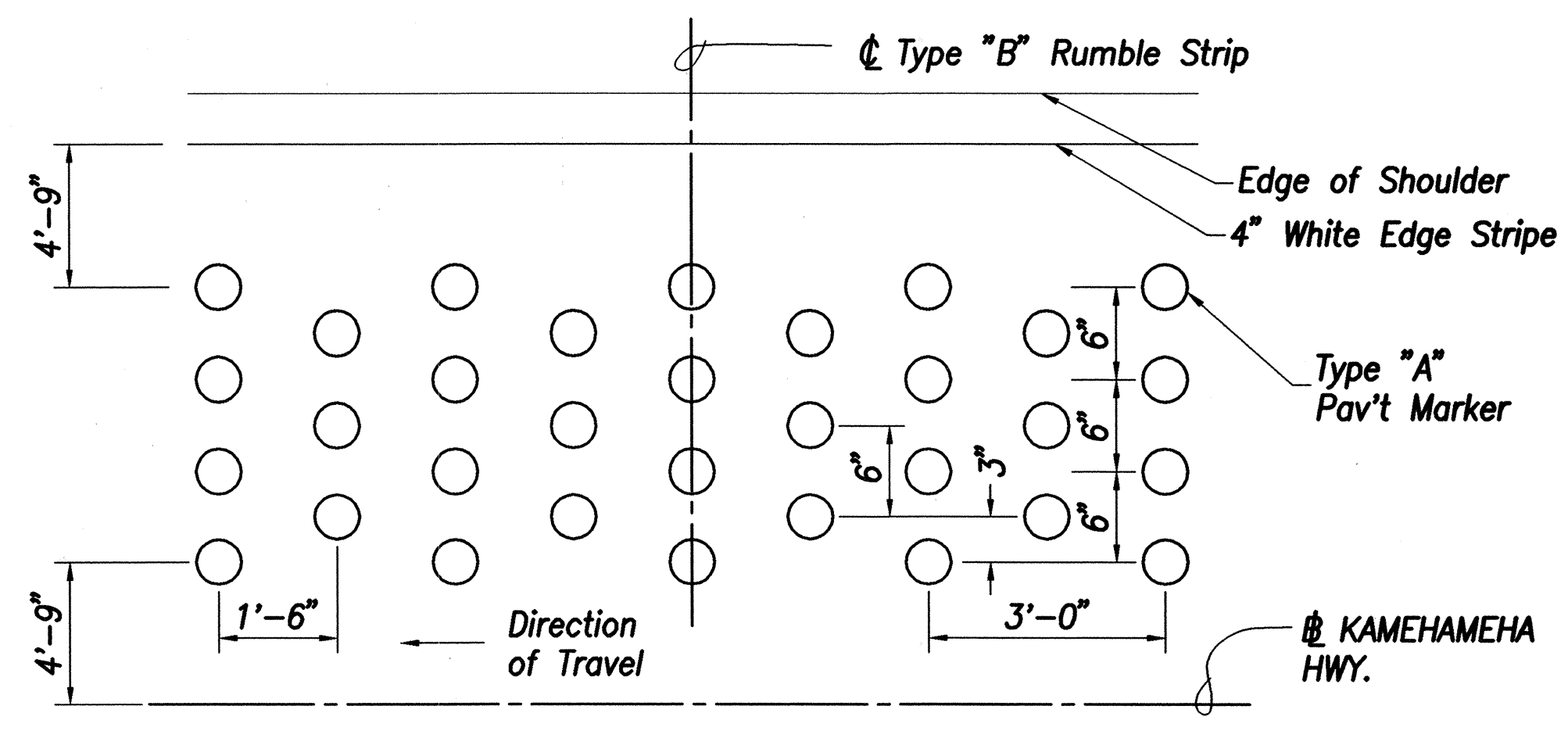
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 SIGNATURE: *Craig W. Luke* DATE: 2/4/02

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING PLAN-17
 (# STA. 902+50 TO # STA. 913+00)
 KAMEHAMEHA HIGHWAY RESURFACING
 Waiahole Valley Road to Crouching Lion Inn
 Federal Aid Project No. NH-083-1(43)
 Scale: 1" = 40' Date: August 1, 2000

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | NH-083-1(43) | 2001 | ADD. 64 | 121 |

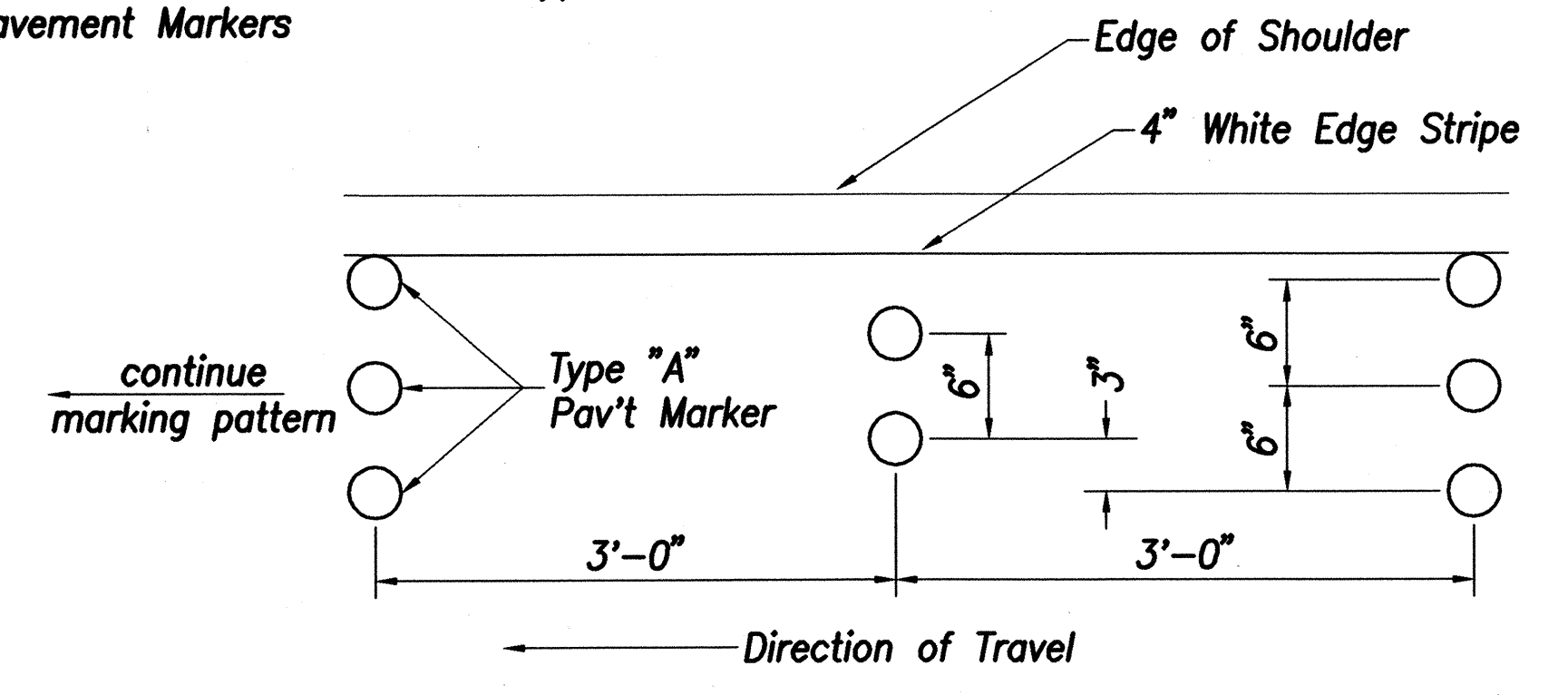


TYPICAL BUS BAY STRIPING
Not to Scale

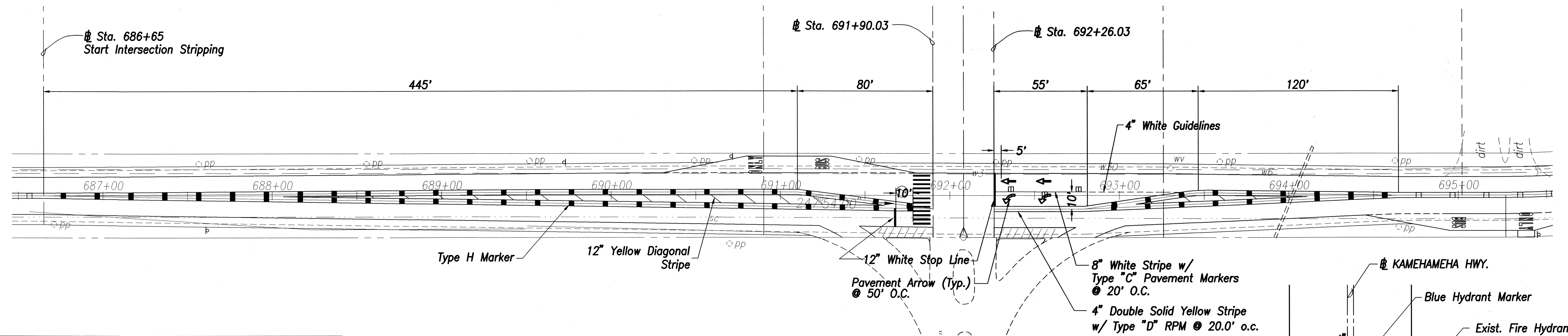


RUMBLE STRIP DETAIL (TYPE "B")
Not to Scale

RUMBLE STRIP NOTE:
Rumble strip markers shall be paid for under item no. 629.2010 - Type A Pavement Markers



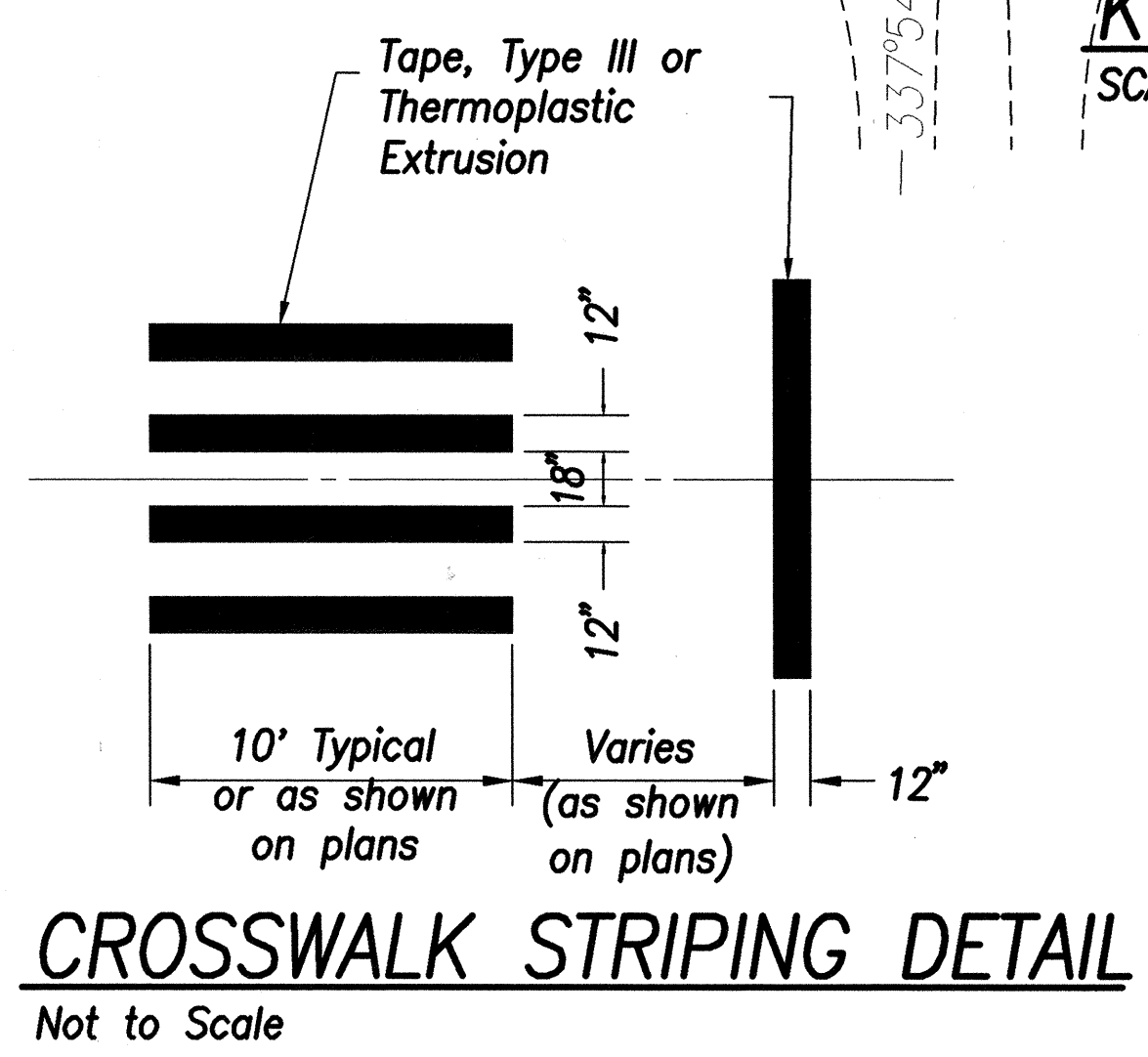
RUMBLE STRIP DETAIL (TYPE "A")
Not to Scale



KUALOA PARK ENTRANCE
SCALE: 1" = 30'

| PAVEMENT MARKING SUMMARY | |
|---|-------------|
| DESCRIPTION | QUANTITY |
| PAVEMENT MARKERS | |
| TYPE A | 1,310 EA. |
| TYPE C | 1,810 EA. |
| TYPE D | 1,542 EA. |
| TYPE H | 201 EA. |
| TYPE J | 1,460 EA. |
| BLUE FIRE HYDRANT MARKER | 52 EA. |
| TAPE - TYPE I OR THERMOPLASTIC EXTRUSION | |
| 4-INCH PAVEMENT STRIPE (YELLOW) | 7,360 L.F. |
| DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW) | 24,500 L.F. |
| TAPE - TYPE II OR THERMOPLASTIC EXTRUSION | |
| 4-INCH PAVEMENT STRIPE (WHITE) | 62,490 L.F. |
| 8-INCH PAVEMENT STRIPE (WHITE) | 9,000 L.F. |
| TAPE - TYPE III OR THERMOPLASTIC EXTRUSION | |
| CROSSWALK MARKINGS | |
| 4-INCH PAVEMENT STRIPE (WHITE) | 1,900 L.F. |
| 4-INCH GUIDE LINE (WHITE) | 3,965 L.F. |
| 12-INCH PAVEMENT STRIPE (WHITE) | 460 L.F. |
| 12-INCH PAVEMENT STRIPE (YELLOW) | 130 L.F. |
| PAVEMENT WORD | 72 EA. |
| PAVEMENT ARROWS | 4 EA. |

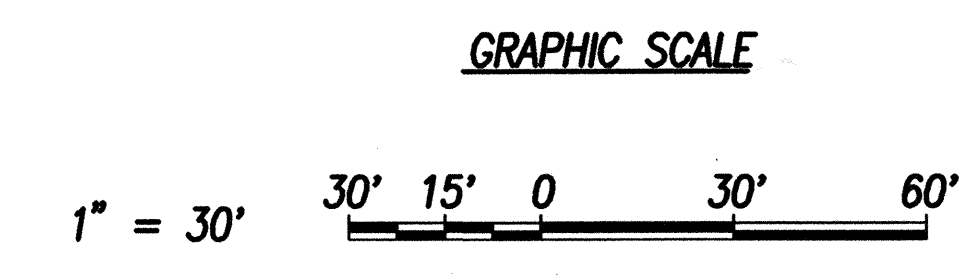
| SIGNAGE SUMMARY | |
|---|----------|
| DESCRIPTION | QUANTITY |
| REGULATORY AND WARNING SIGN (10 SQ. FT. OR LESS) W/ POST | |
| REGULATORY AND WARNING SIGN (10 SQ. FT. OR LESS) W/ POST | 231 EA. |
| REGULATORY AND WARNING SIGN (10 SQ. FT. OR LESS) W/O POST | 52 EA. |
| REFLECTOR MARKERS | |
| REFLECTOR MARKER RM-3 | 255 EA. |
| REFLECTOR MARKER RM-2 W/ POST | 30 EA. |
| REFLECTOR MARKER RM-3 W/ POST | 288 EA. |
| REFLECTOR MARKER RM-4 W/ POST | 20 EA. |
| TYPE II OBJECT MARKER | 400 EA. |
| TYPE "A" ROUTE MARKER ASSEMBLY | 2 EA. |



TYPICAL FIRE HYDRANT MARKER LOCATION
Not to Scale

DATE _____
SURVEY PROVIDED BY _____
DRAWN BY _____
CHECKED BY _____
NOTED BY _____
REVISIONS BY _____
QUANTITIES BY _____
NO. _____

| | |
|--------|----------------------------------|
| 2/4/02 | Revised Table Per Addendum No. 2 |
| DATE | REVISION |



CRAIG W. L. LUKA
LICENSED PROFESSIONAL ENGINEER
No. 8935-G
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Signature: [Signature] DATE: 2/4/02

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING DETAILS & NOTES

KAMEHAMEHA HIGHWAY RESURFACING
Waiahole Valley Road to Crouching Lion Inn
Federal Aid Project No. NH-083-1(43)

Not To Scale Date: August 1, 2000

SHEET No. C-62 OF 74 SHEETS