
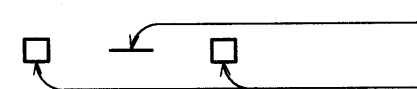


| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII | HAW. | HWY-0-05-05M | 2010 | 13 | 18 |


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)



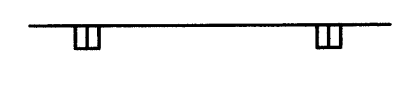
4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)



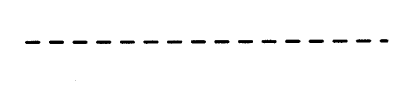
4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)



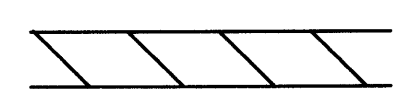
Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)



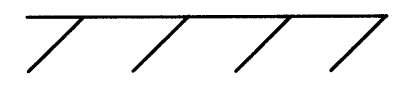
Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)




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)



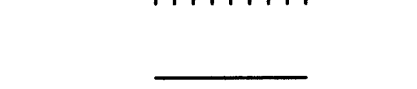
Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)




Pavement Word (Tape, Type III or Thermoplastic Extrusion)



STOP



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)

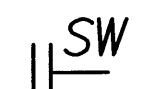



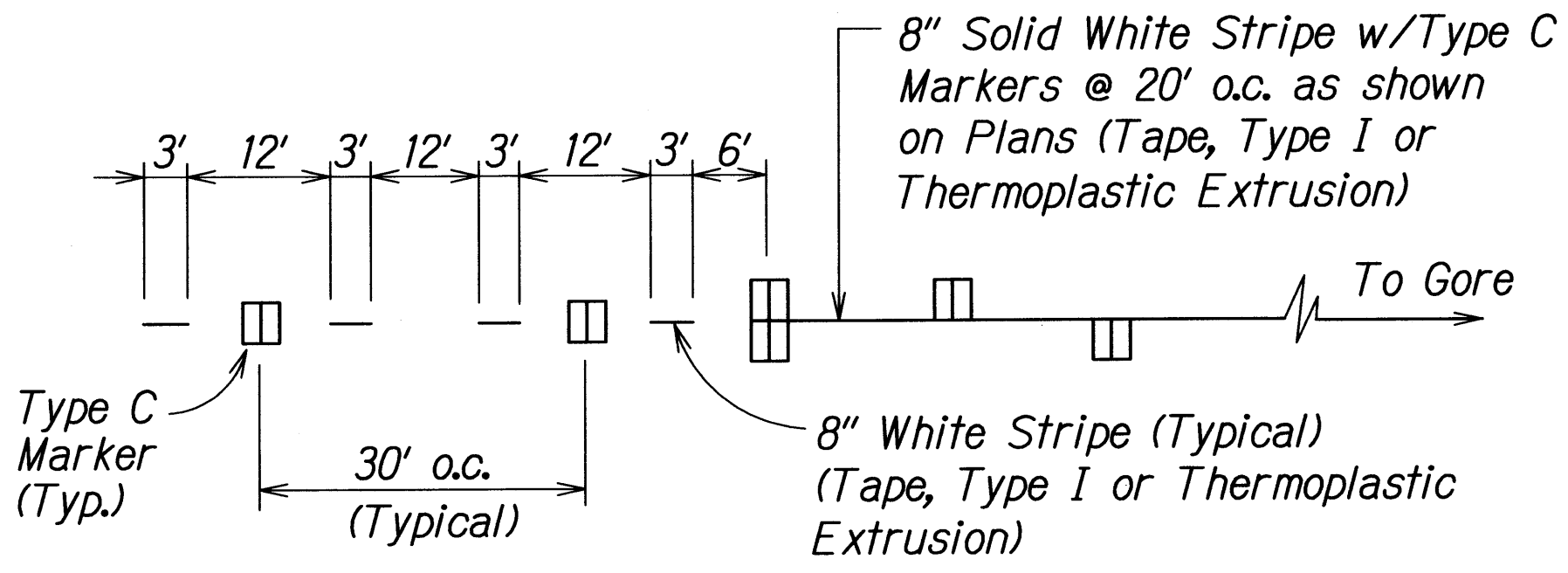
Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

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.
9. All pedestrian warning signs with supplemental sign shall be on a fluorescent yellow-green retroreflective background with a black legend and border.

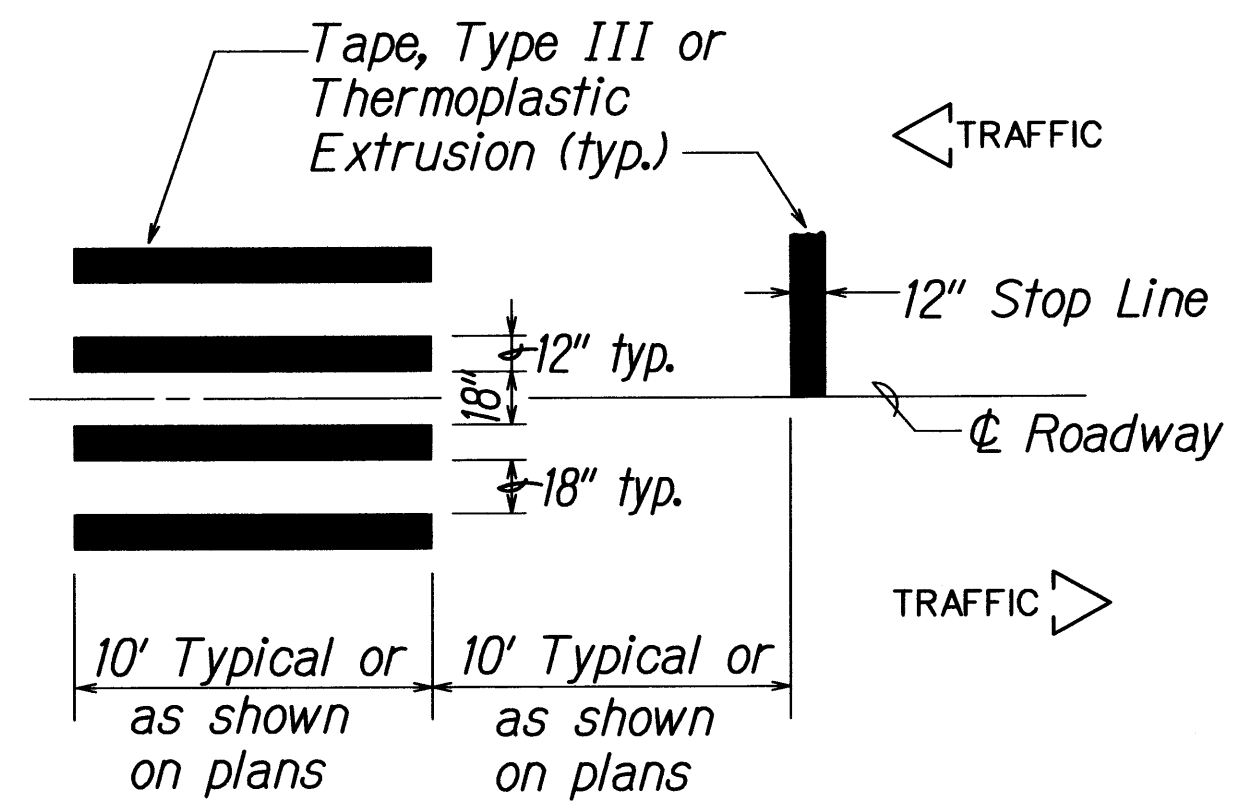
LEGEND:

-  SW Reflector Marker (RM-2, White) w/ steel post
-  FW Reflector Marker (RM-2, White) w/ flexible post



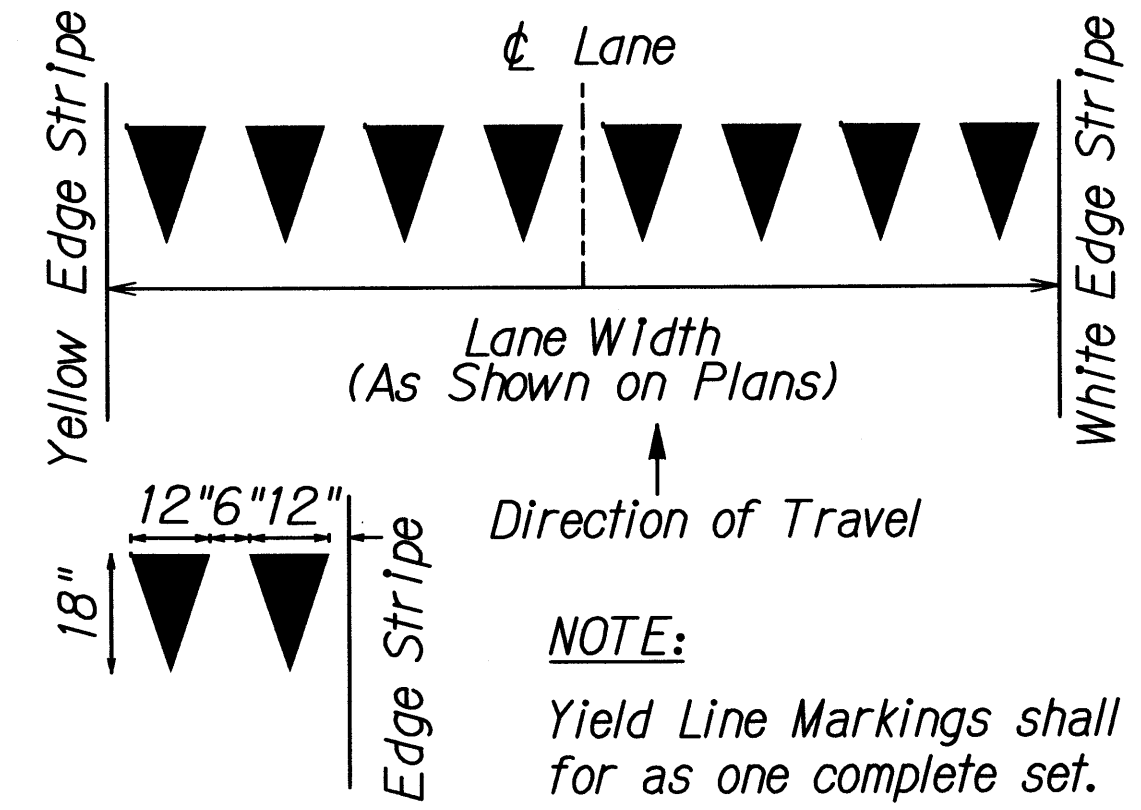
LANE DROP MARKING

Not to Scale



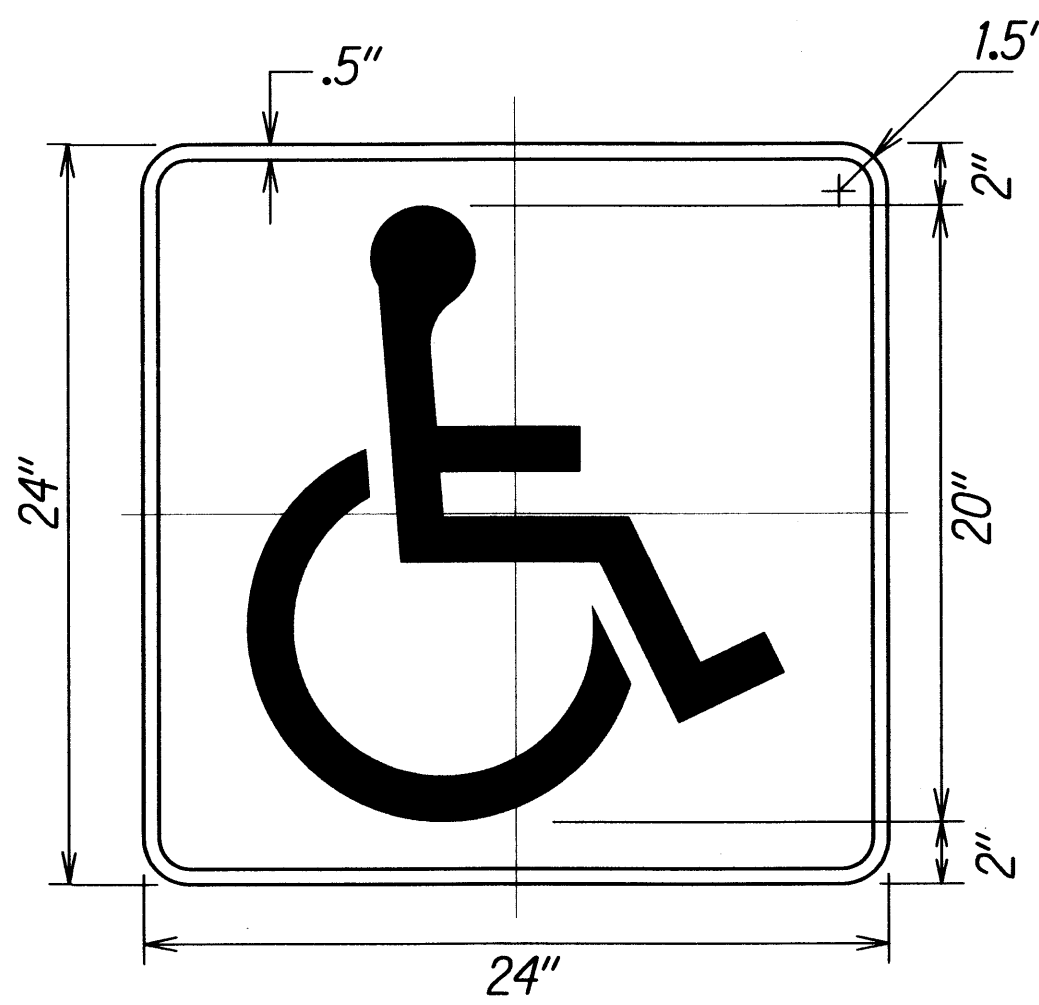
CROSSWALK STRIPING DETAIL

Not to Scale



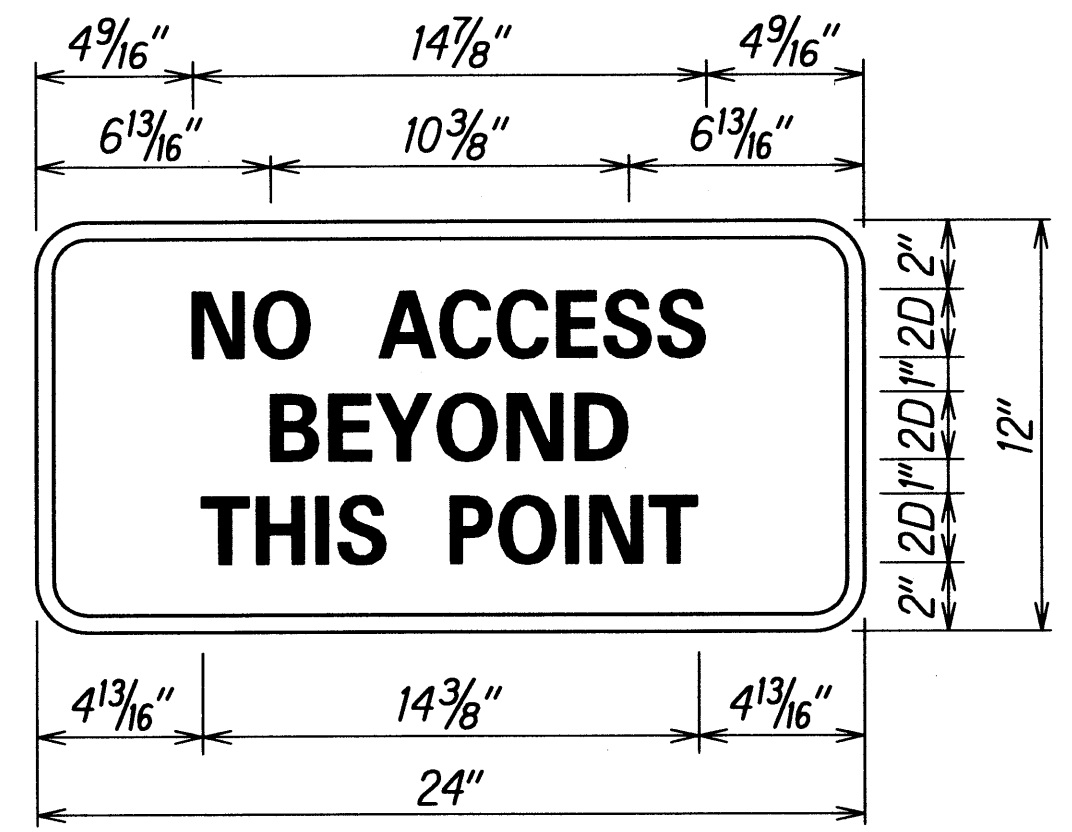
YIELD LINE DETAIL

Not to Scale



D9-6

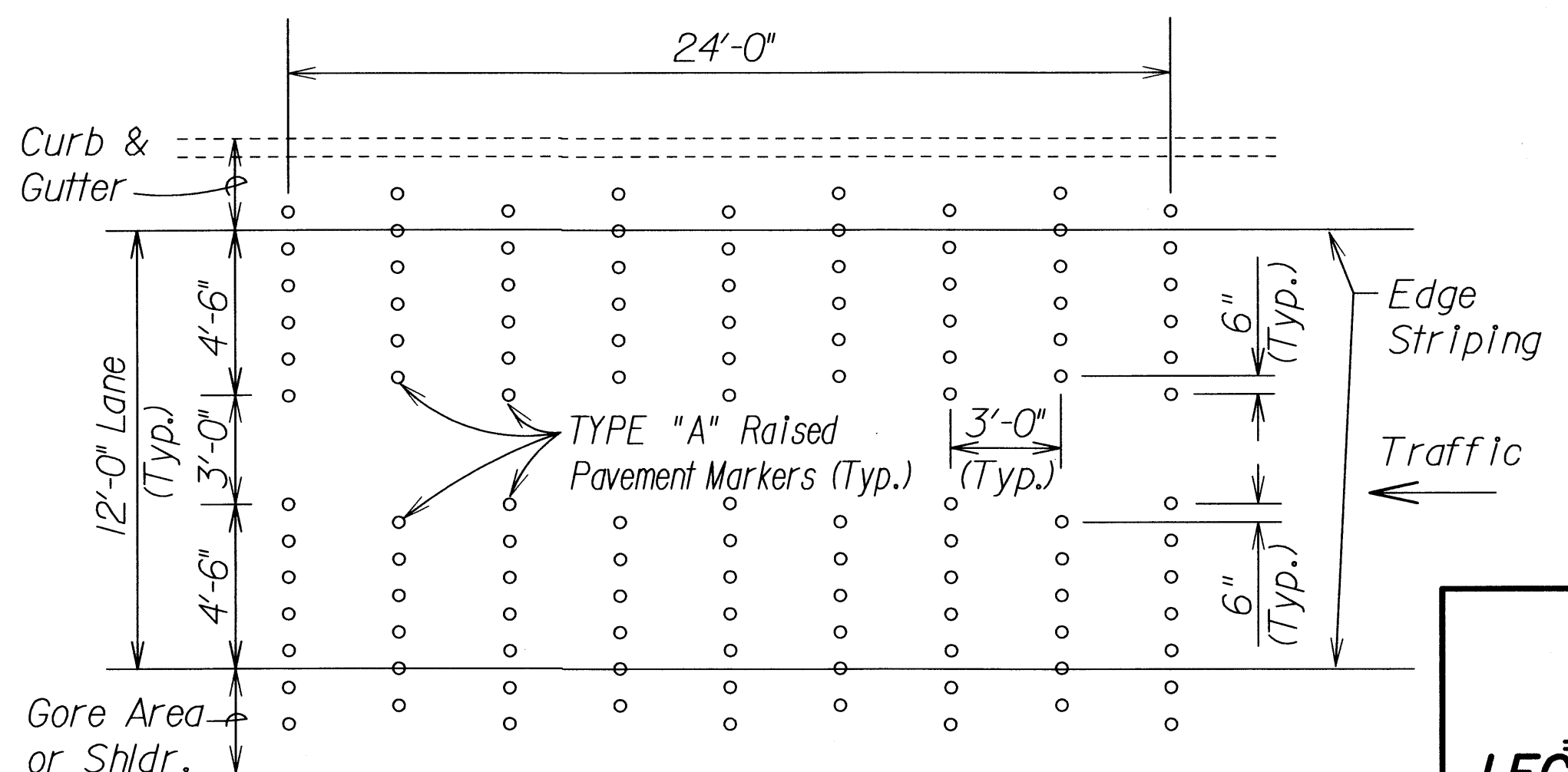
Not to Scale



LEGEND & BORDER: White (Reflectorized)
BACKGROUND: Blue

ADA DIRECTIONAL SIGN

Not to Scale



RUMBLE STRIP TYPE "A" DETAIL

Scale: 1/4" = 1' - 0"

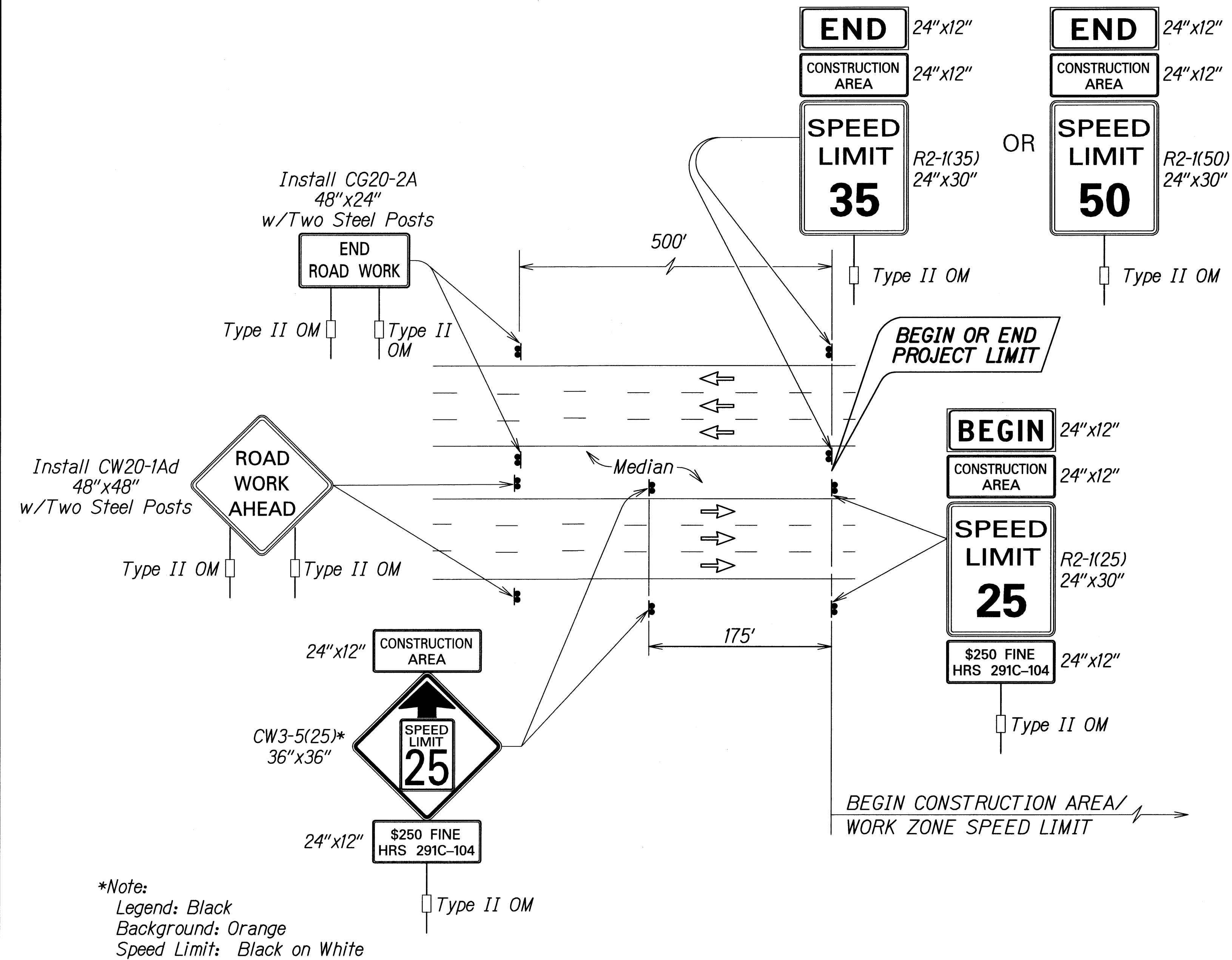
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
LEGEND, DETAILS & NOTES

MOANALUA FREEWAY RESURFACING
Milepost 0.00 to Milepost 0.74
Project No. HWY-0-05-05M

Scale: As Shown Date: May 2010
SHEET No. 11 OF 5 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII | HAW. | HWY-O-05-05M | 2010 | 14 | 18 |

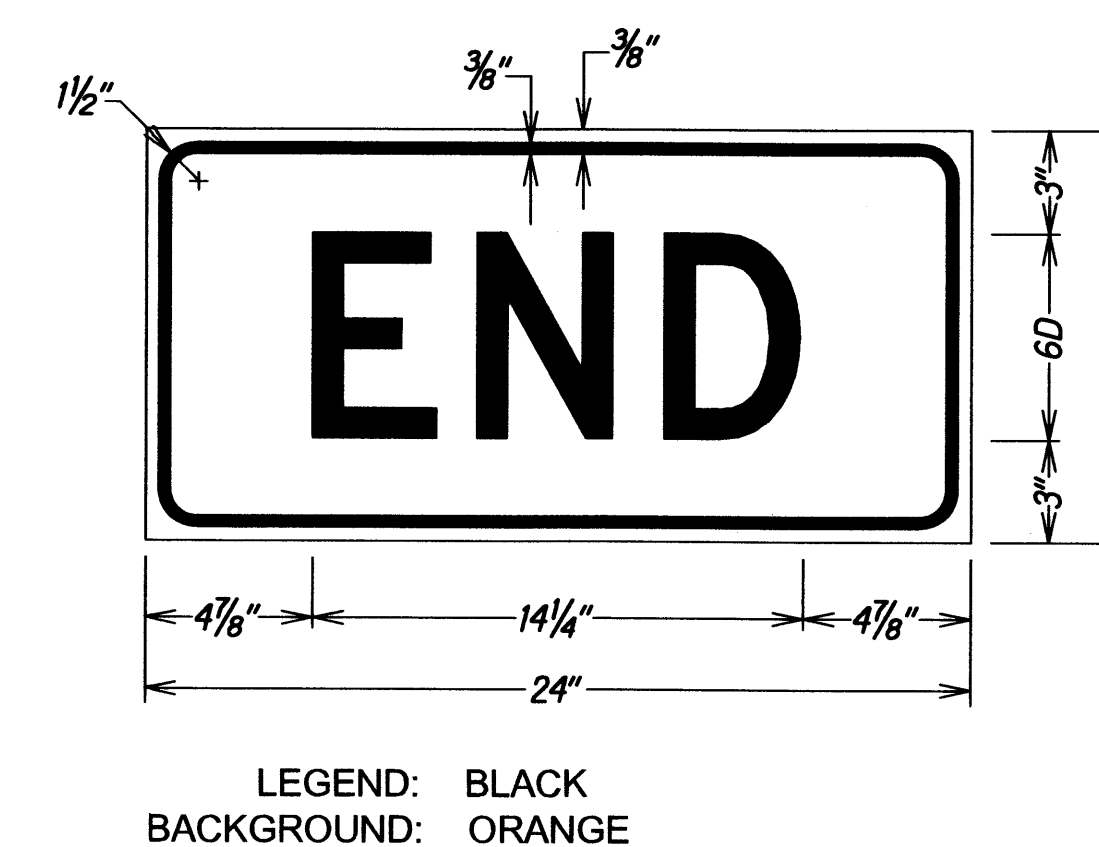
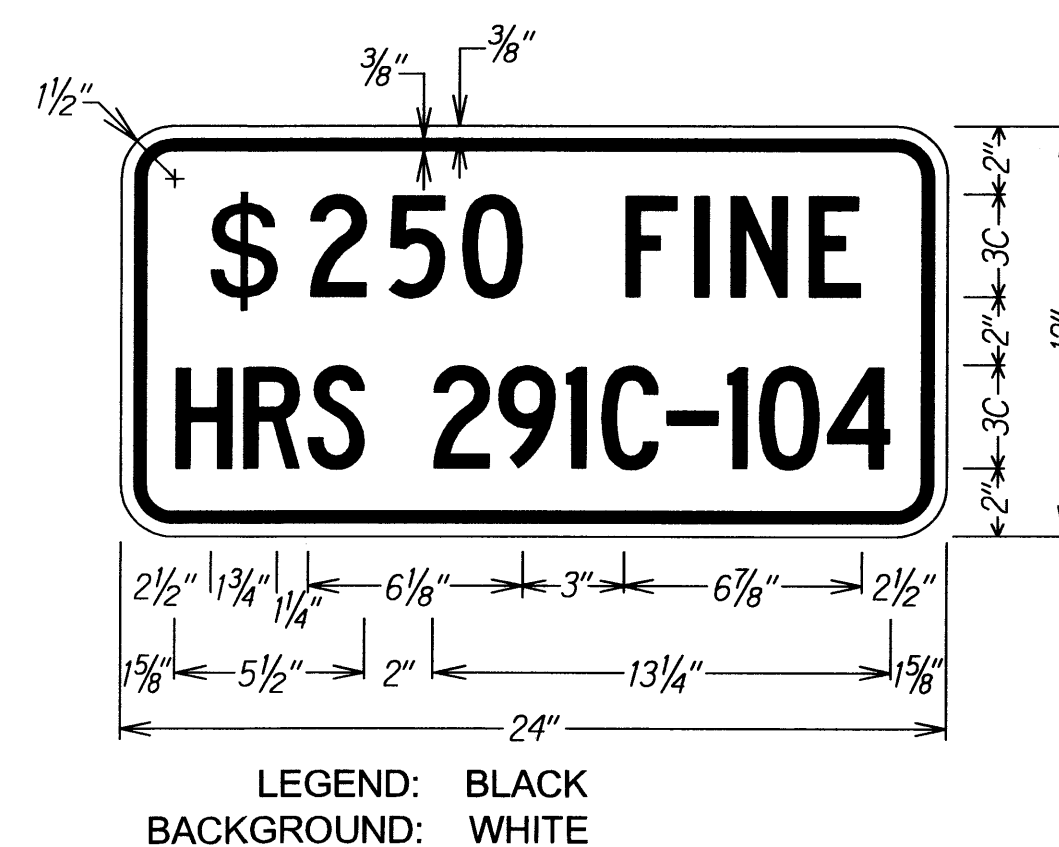
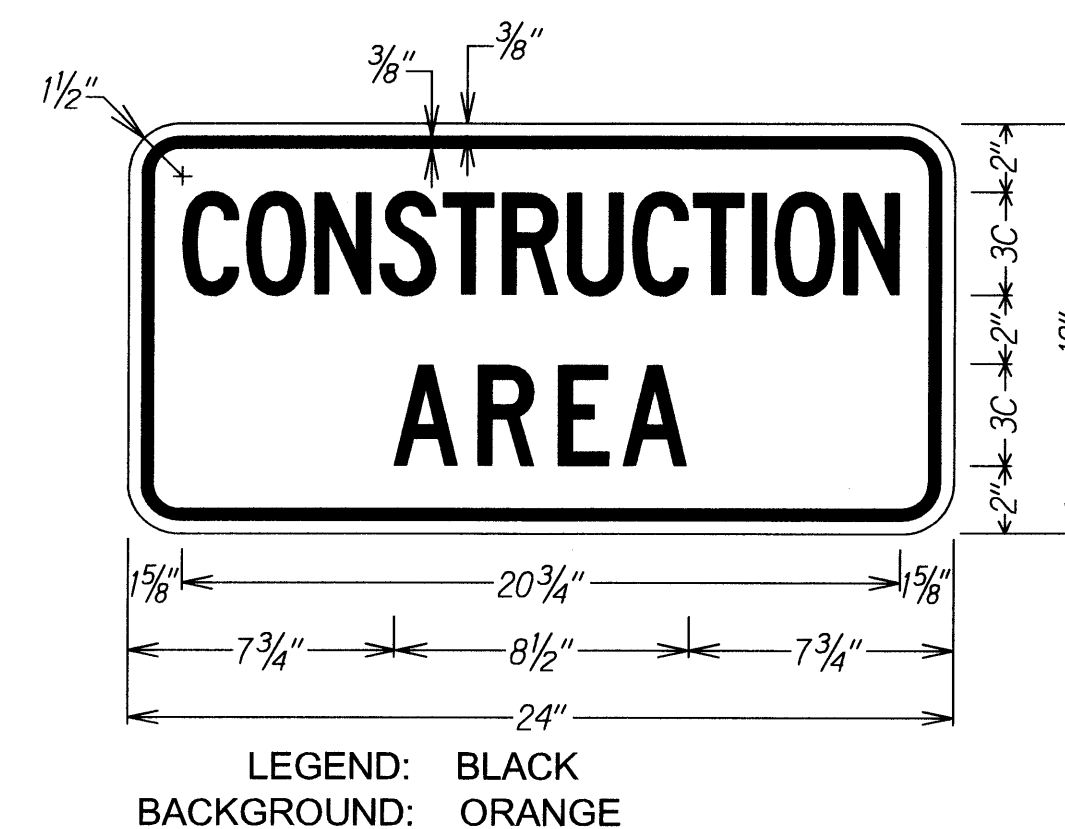


TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON MULTILANE DIVIDED LOW SPEED HIGHWAY

Work Zone Notes:

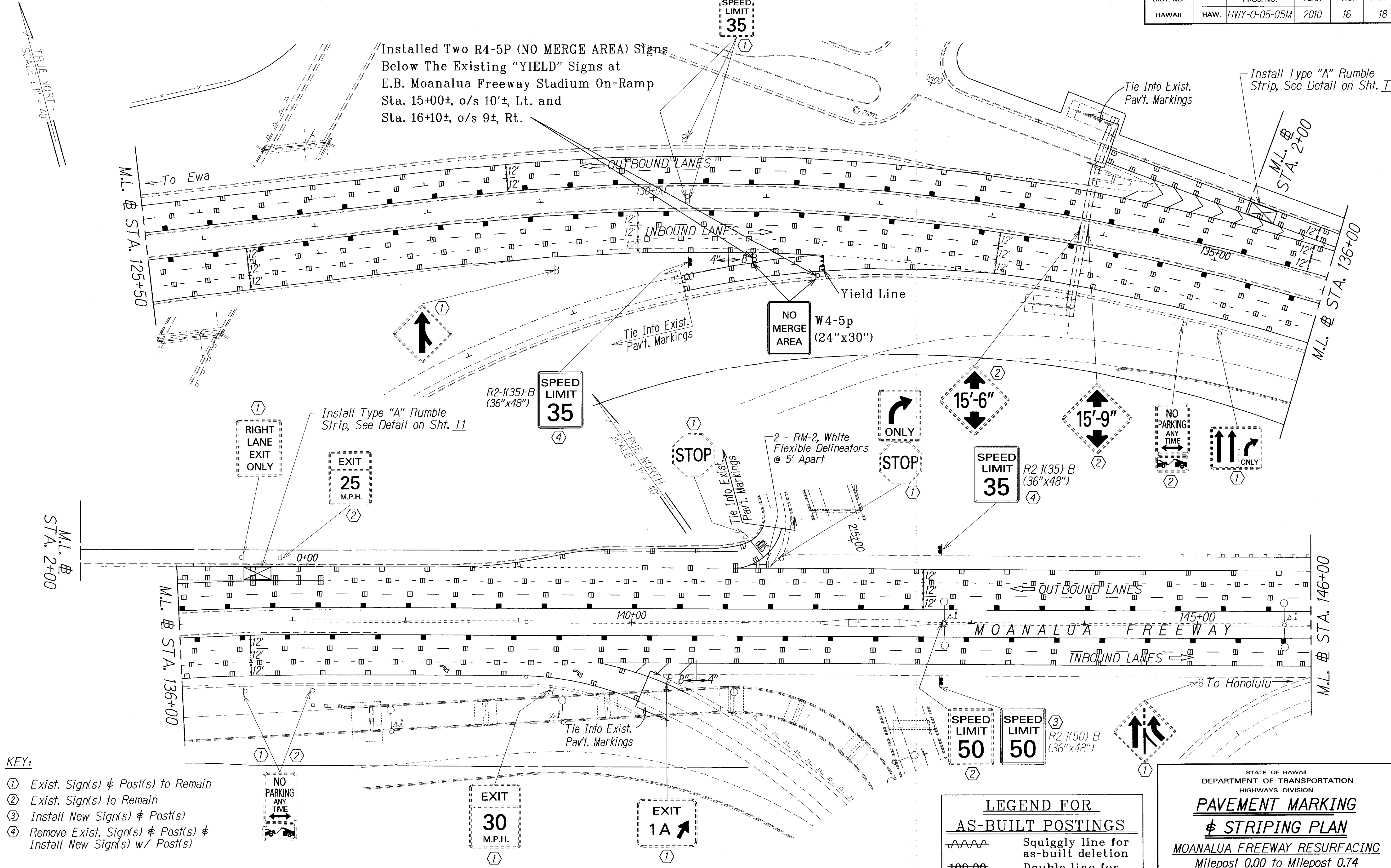
1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(25) and CW3-5(25) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.0100 - Traffic Control.
5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.0100 - Traffic Control.

| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY | |
| TRACED BY | |
| NOTED BY | |
| QUANTITIES BY | |
| CHECKED BY | |



| |
|---|
| STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION |
| LOW SPEED DIVIDED HIGHWAY WORK ZONE SIGNING PLAN, NOTES+DETAILS |
| MOANALUA FREEWAY RESURFACING Milepost 0.00 to Milepost 0.74 Project No. HWY-O-05-05M |
| Not To Scale Date: May 2010 |
| SHEET No. T2 OF 5 SHEETS |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII | HAW. | HWY-O-05-05M | 2010 | 16 | 18 |



- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Exist. Sign(s) to Remain
 - ③ Install New Sign(s) & Post(s)
 - ④ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/ Post(s)

NOTE:
The removal of existing sign(s) and post(s) shall be considered incidental to Various Contract Items.

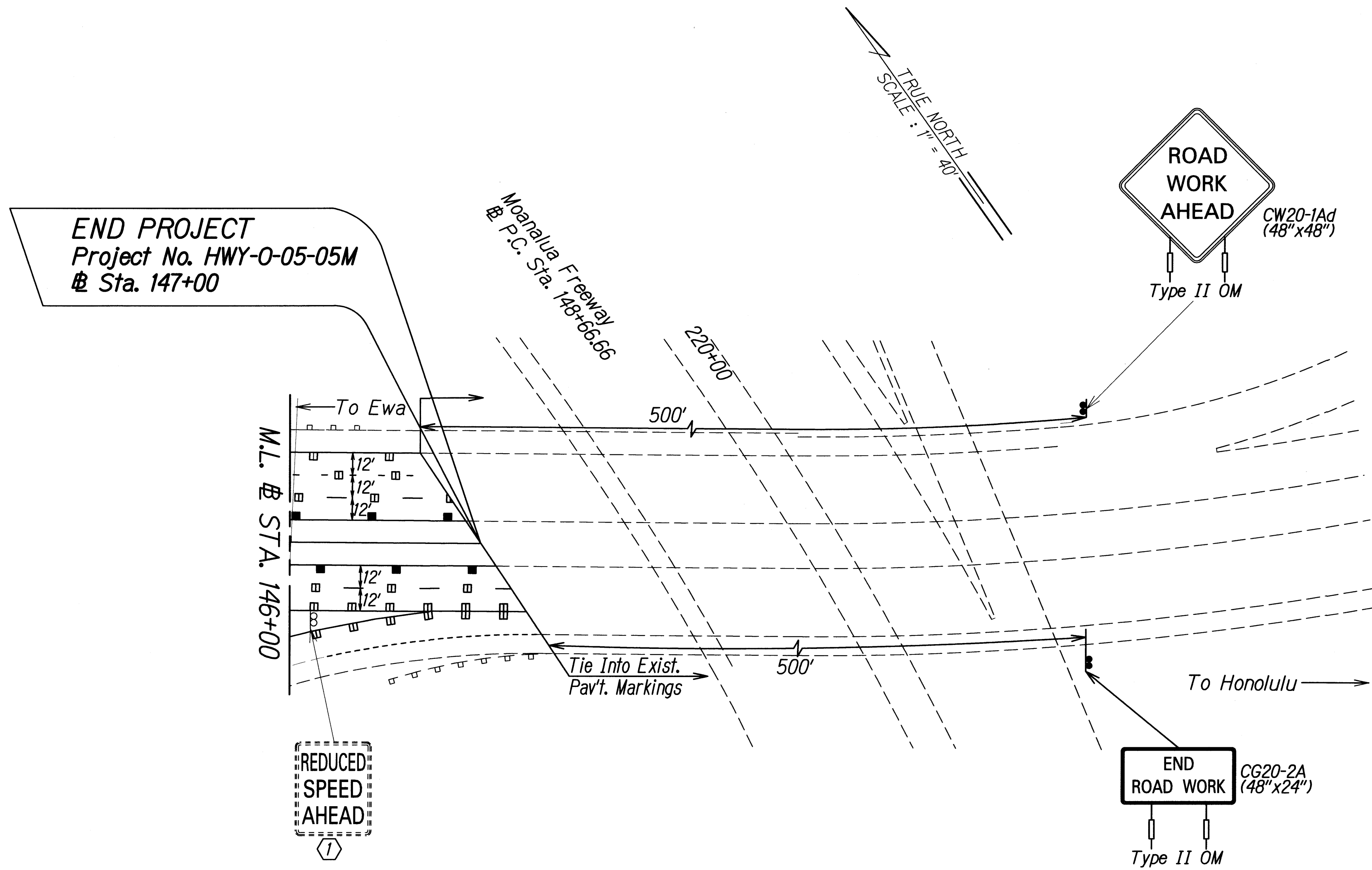
| | | |
|---------------|-------------------|--------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | |
| 10/10/10 | DESIGNED BY | HWY-00 |
| 10/10/10 | QUANTITIES BY | |
| 10/10/10 | CHECKED BY | |

| LEGEND FOR AS-BUILT POSTINGS | |
|------------------------------|-------------------------------------|
| | Squiggly line for as-built deletion |
| | Double line for as-built deletion |
| Roadway | Text for as-built posting |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
& STRIPING PLAN
MOANALUA FREEWAY RESURFACING
Milepost 0.00 to Milepost 0.74
Project No. HWY-O-05-05M
Scale: 1" = 40' Date: May 2010
SHEET No. T4 OF 5 SHEETS

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII | HAW. | HWY-0-05-05M | 2010 | 17 | 18 |



KEY:

- ① Exist. Sign(s) & Post(s) to Remain
- ② Exist. Sign(s) to Remain
- ③ Install New Sign(s) & Post(s)
- ④ Remove Exist. Sign(s) & Post(s) & Install New Sign(s) w/ Post(s)

NOTE:

The removal of existing sign(s) and post(s) shall be considered incidental to Various Contract Items.

| | | |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTE BOOK | DRAWN BY | |
| DESIGNED BY | HWY-05 | |
| QUANTITIES BY | HWY-05 | |
| CHECKED BY | HWY-05 | |

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
& STRIPING PLAN

MOANALUA FREEWAY RESURFACING
Milepost 0.00 to Milepost 0.74
Project No. HWY-0-05-05M

Scale: 1" = 40' Date: May 2010

SHEET No. 17 OF 5 SHEETS