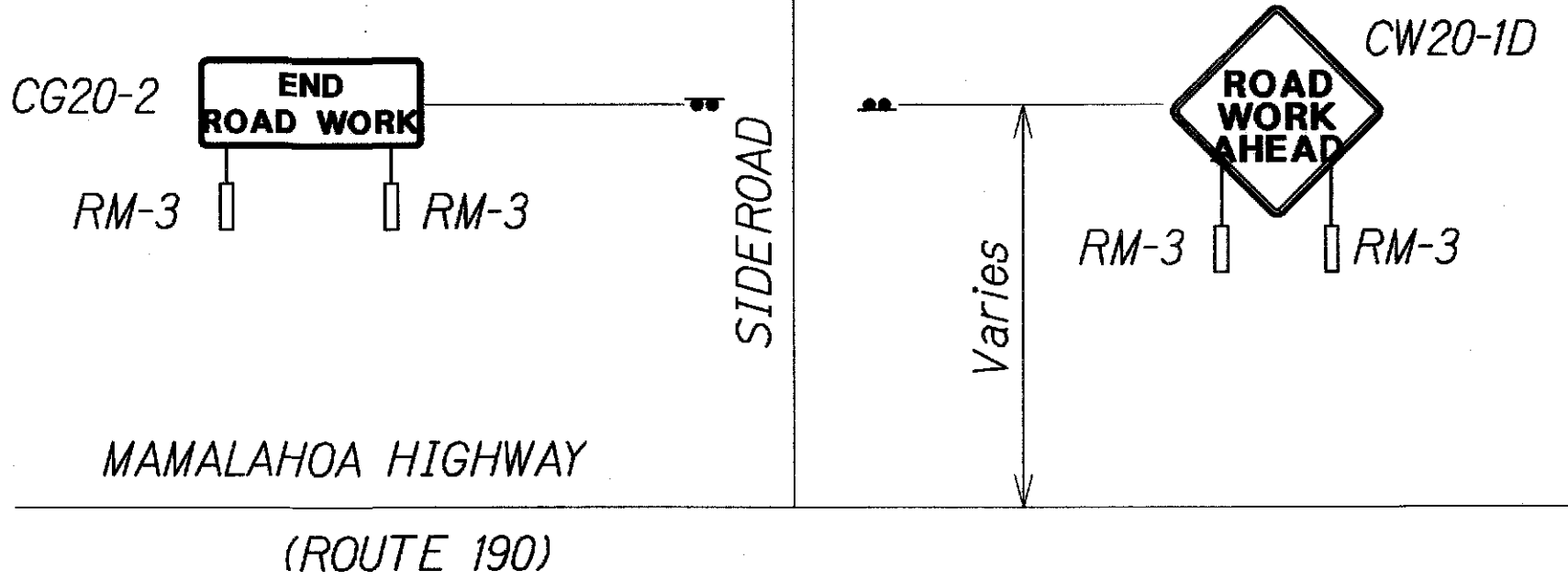
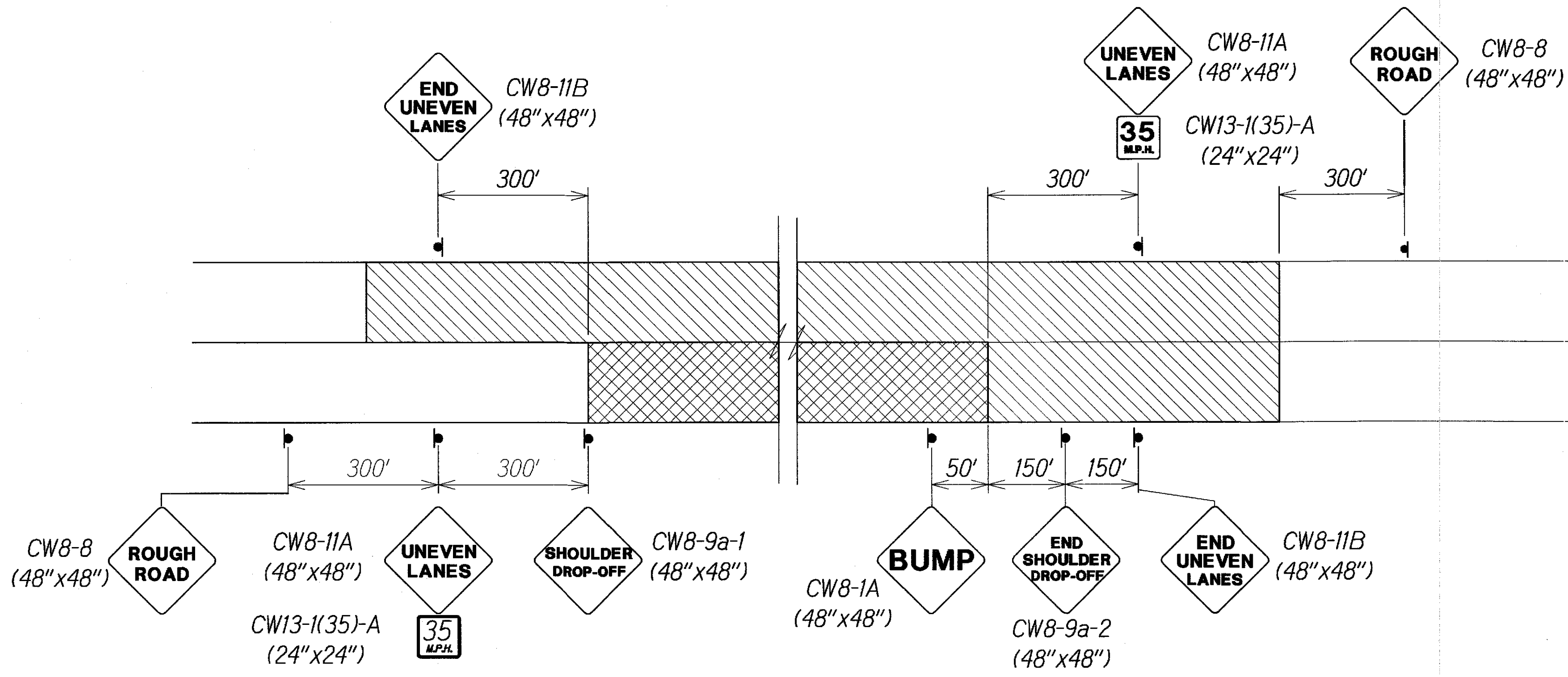


| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|-------------|-------------|-----------|--------------|
| HAWAII | HAWAII | 190B-01-09M | 2010 | 46 | 54 |



CONSTRUCTION SIGN PLAN AT SIDEROADS

Not To Scale



PAVING AREAS

Not To Scale

PORTABLE CONSTRUCTION SIGN

NOTES:

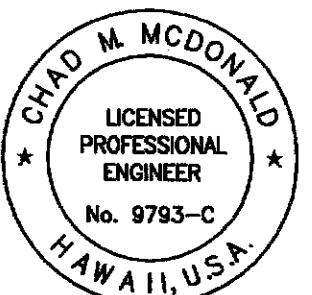
- Signs shall conform to Section 750 and be installed on portable "Windmaster" stands. Stands shall be securely anchored to prevent tipping during high winds.
- The installation, maintenance and removal of portable construction signs shall be considered incidental to Item No. 645.0100 - Traffic Control.
- Signs and portable stands shall be new and become the property of the Contractor upon completion of the project.

| PORTABLE CONSTRUCTION SIGN SCHEDULE | |
|-------------------------------------|-----------------|
| ITEM NO. 621.0100 | QUANTITY (Each) |
| CW8-11A/ CW13-1(45)-A | 2 |
| CW8-11B | 2 |
| CW8-1A | 2 * |
| CW8-9a-1 | 1 |
| CW8-9a-2 | 1 |
| TOTAL | 8 |

* When both travel lanes are paved.

LEGEND:

- Paved Areas
- Cold Plane Areas



This work was prepared by me or under my supervision

Chad M. McDonald
MITSUNAGA & ASSOCIATES, INC. EXP. DATE
NOTE: Contractor to check and verify dimensions at job before proceeding with work.

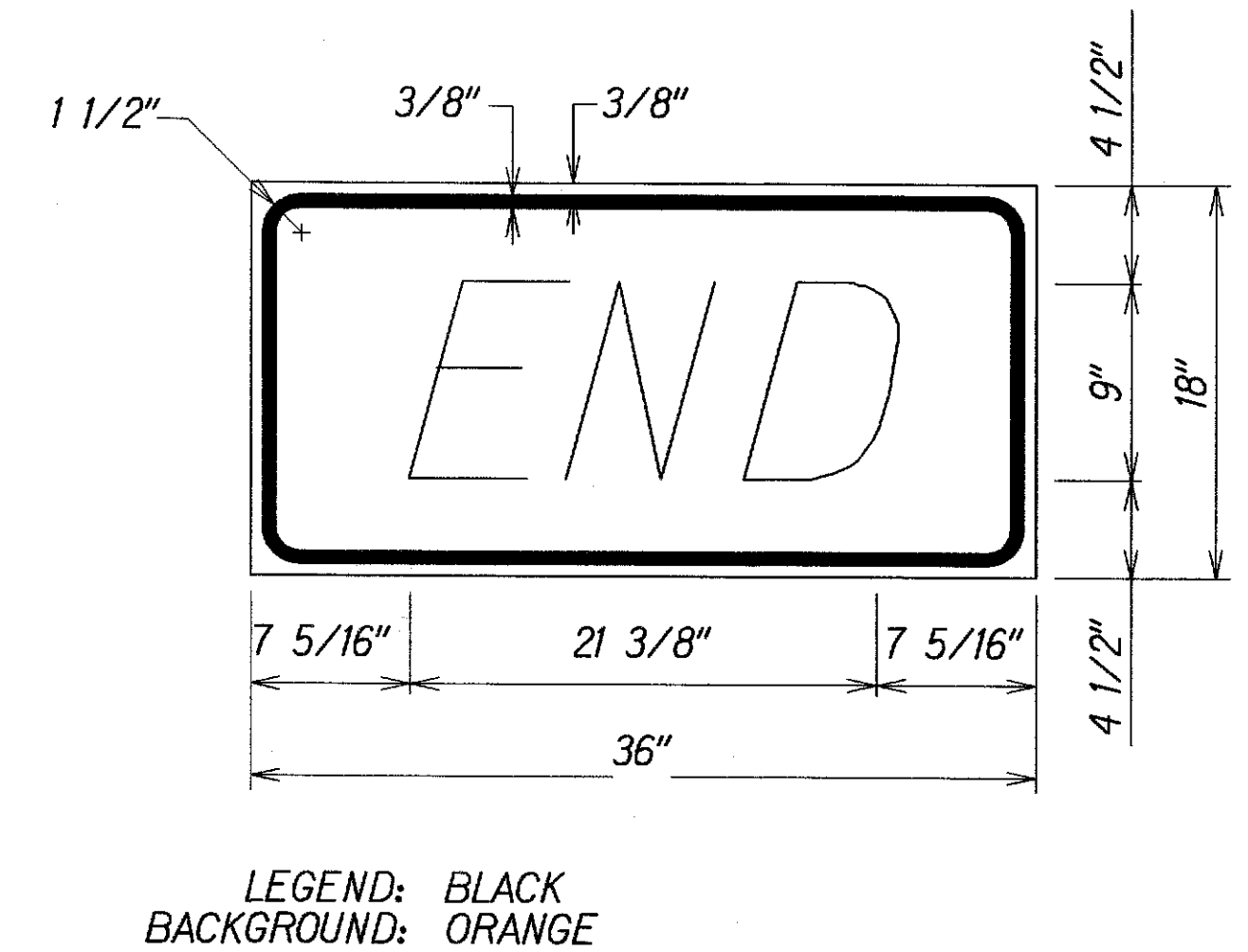
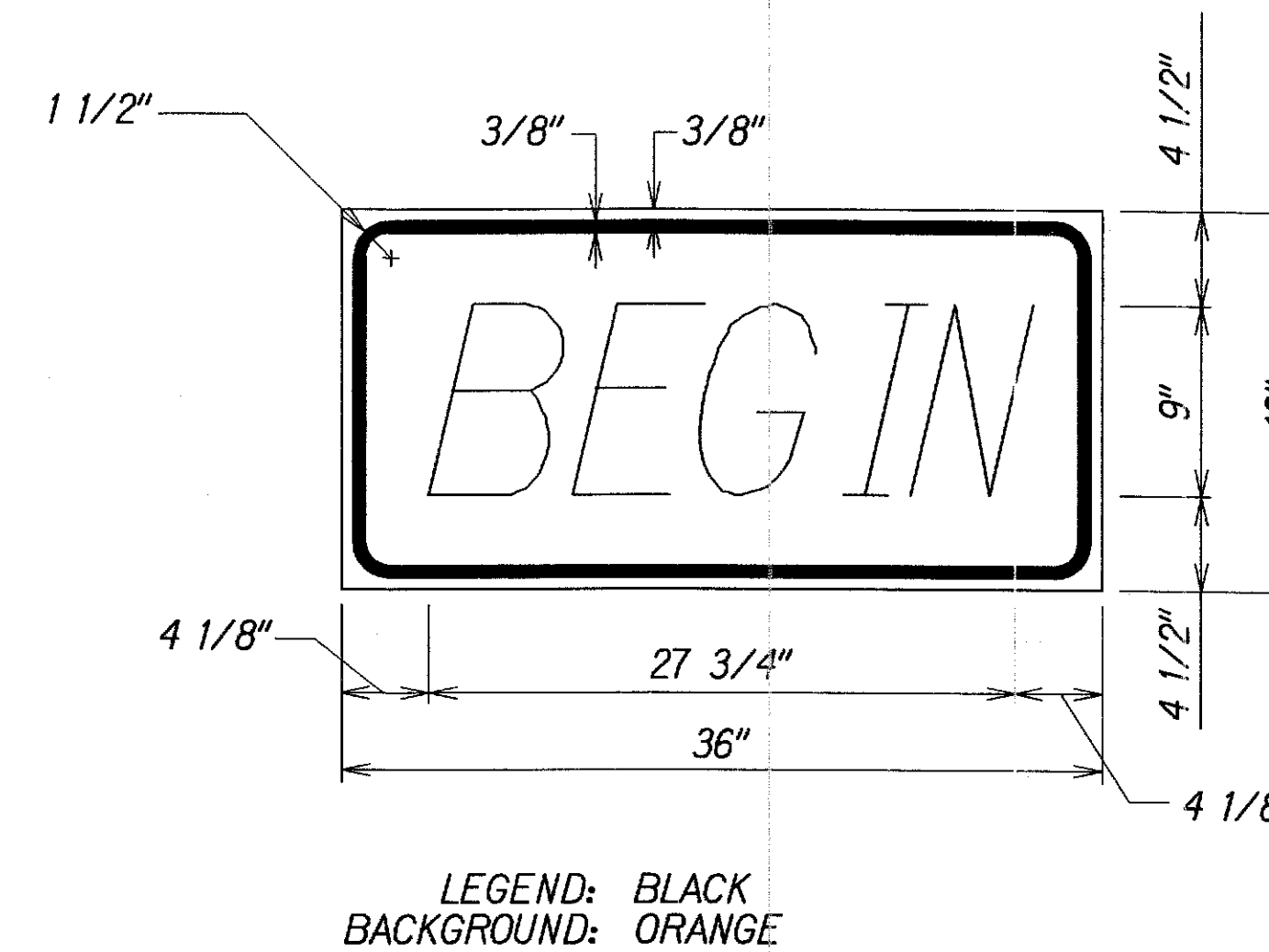
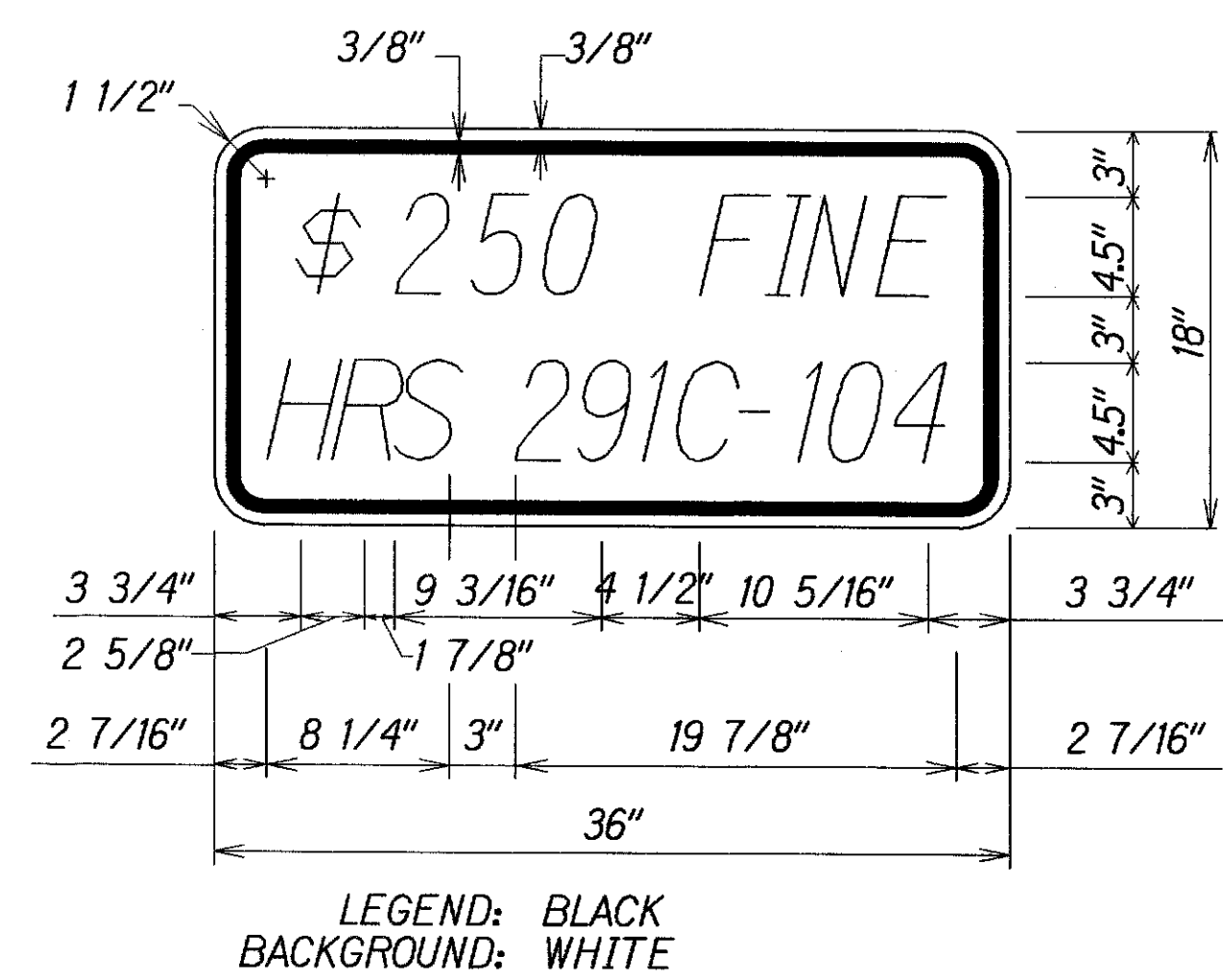
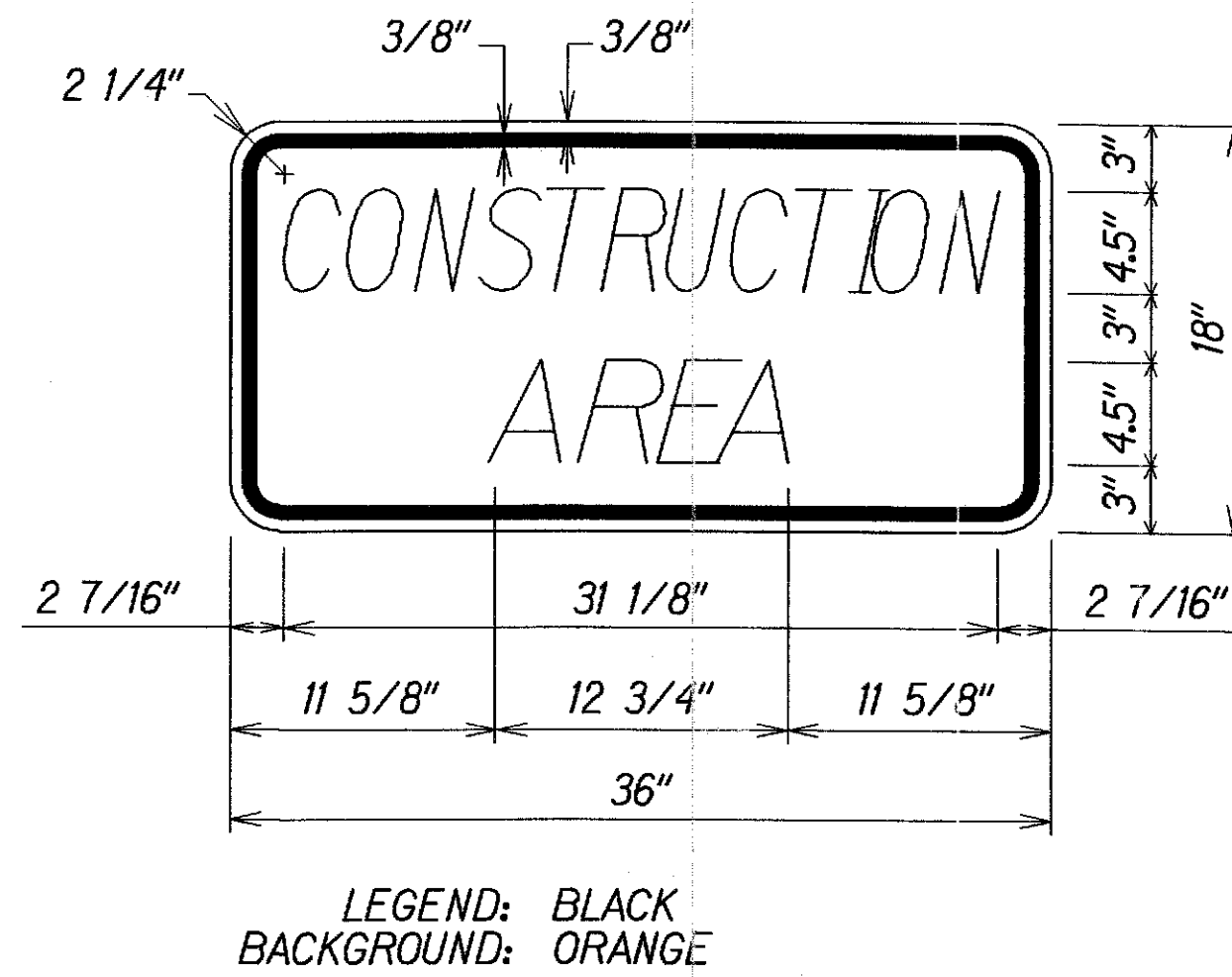
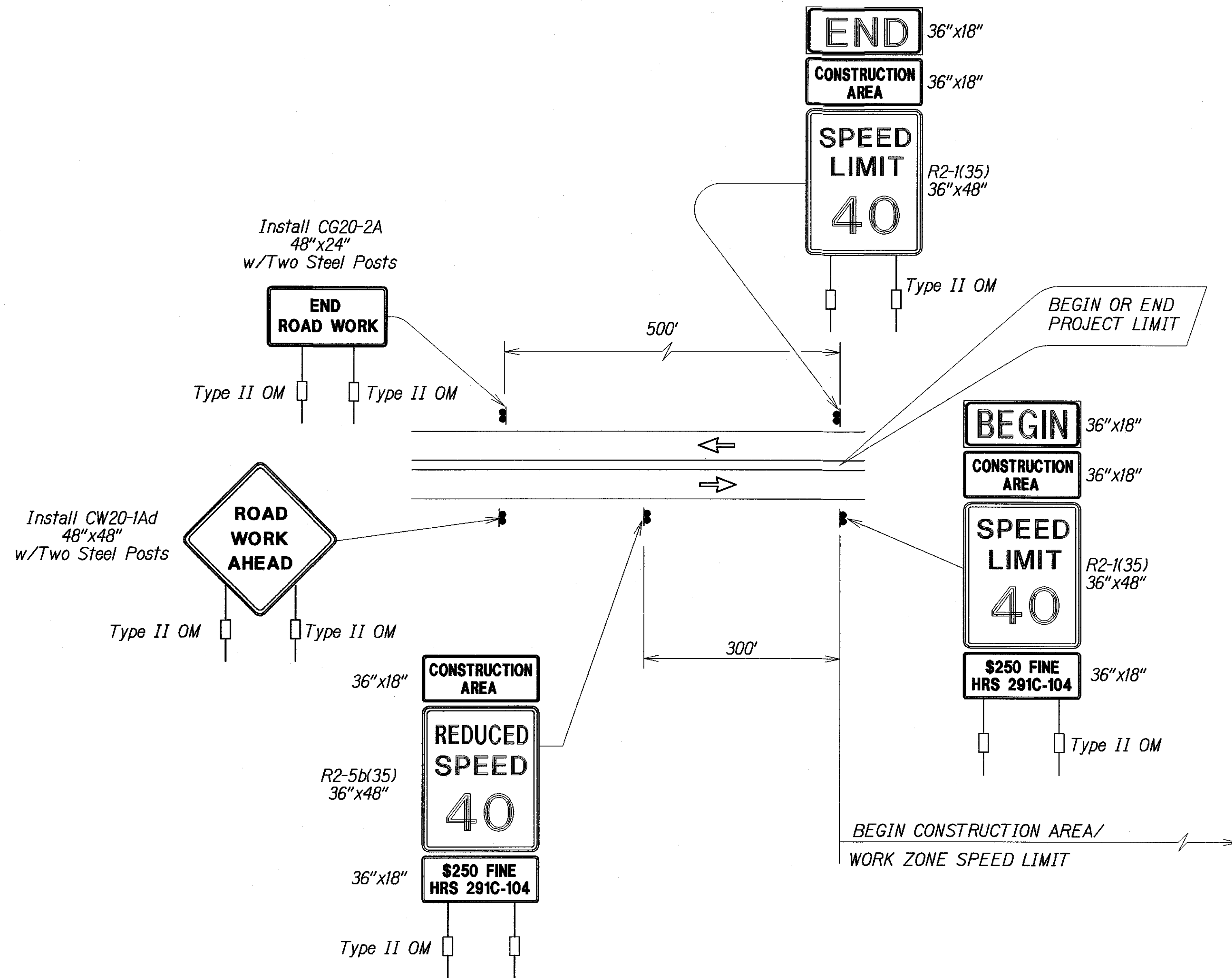
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION SIGNS

MAMALAHOA HIGHWAY RESURFACING
Kaupulehu to Makalei Road
Project No. 190B-01-09M
Scale: As Noted Date: May 2010
SHEET No. C-44 OF 54 SHEETS

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

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|-------------|-------------|-----------|--------------|
| HAWAII | HAWAII | 190B-01-09M | 2010 | 47 | 54 |



TYPICAL DETAIL FOR WORK ZONE SIGNS ON TWO LANE UNDIVIDED HIGH SPEED HIGHWAY

Work Zone Note:

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(XX) and R2-5b(XX) 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 shall be considered incidental to Item No. 645.0100, Traffic Control.
8. The installation, maintenance and removal of work zone signs assemblies shall be paid for under Item No. 645.0100 Traffic Control.
9. The work zone speed limit signs shall be new and become the property of the Contractor.

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

CHAD M. McDONALD
LICENSED PROFESSIONAL ENGINEER
No. 9793-C
HAWAII, U.S.A.

This work was prepared by me or under my supervision

4/30/2012
MITSUNAGA & ASSOCIATES, INC. EXP. DATE

NOTE: Contractor to check and verify dimensions at job before proceeding with work.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WORK ZONE SIGNING PLAN,
NOTES AND DETAILS
MAMALAHOA HIGHWAY RESURFACING
Kaupulehu to Makalei Road
Project No. 190B-01-09M
Scale: As Noted Date: May 2010
SHEET No. C-45 OF 54 SHEETS